U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

OCTOBER-DECEMBER 1999

NATIONAL EARTHQUAKE INFORMATION CENTER

Open-File Report

99-600-D

2000

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

USGS
science for a changing world

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

OCTOBER 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	17	36.1&	39.030	S	175.690	E	198					8	NORTH ISLAND, NEW ZEALAND. <WEL>.
01	00	18	54.6&	18.639	N	67.481	W	51					5	MONA PASSAGE. <MPR>. MD 2.8 (MPR).
01	00	20	58.0&	15.869	N	96.970	W	10					6	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
01	00	30	42.3&	16.049	N	97.429	W	47					9	OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
01	00	50	20.5&	35.932	N	119.566	W	6	G				3	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
01	00	58	39.4&	16.724	N	100.518	W	4					6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
01	01	29	41.9&	36.206	N	117.901	W	0					27	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
01	01	31	12.8*	10.333	S	123.955	E	10	G	4.4		1.2	11	TIMOR REGION, INDONESIA
01	01	35	51.5&	40.870	S	172.590	E	12					8	OFF W. COAST OF S. ISLAND, N.Z. <WEL>. ML 3.9 (WEL).
01	01	41	03.0&	44.800	N	112.760	W	9					7	EASTERN IDAHO. <BUT-P>. ML 2.8 (BUT).
01	02	30	12.1*	28.635	N	103.862	E	33	N	3.4		1.3	10	SICHUAN, CHINA
01	02	40	53.7*	30.745	S	72.033	W	67	?	4.2		1.3	20	OFF COAST OF CENTRAL CHILE
01	03	21	50.1*	14.860	N	91.201	W	33	N	3.7		1.4	16	GUATEMALA
01	03	33	37.8&	15.845	N	97.170	W	36		3.9			26	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.6 (UNM).
01	03	47	22.3	37.801	N	139.066	E	168		4.5		1.0	42	EASTERN HONSHU, JAPAN
01	04	54	32.5&	32.345	S	71.420	W	42					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
01	05	48	29.0?	2.31	N	125.70	E	150	G	4.5		0.7	9	TALAUD ISLANDS, INDONESIA
01	06	37	03.6*	28.854	S	63.635	W	542	?			1.0	8	SANTIAGO DEL ESTERO PROV., ARG.
01	07	08	59.7	46.228	N	13.688	E	10	G			0.8	17	AUSTRIA. ML 3.3 (TRI), 3.3 (VIE), 3.2 (GRF), 2.7 (LJU). Felt (IV) in the Bovec area, Slovenia.
01	07	19	21.9	5.381	S	104.480	E	88	D	4.4		0.8	24	SOUTHERN SUMATERA, INDONESIA
01	07	46	18.0&	16.988	N	100.648	W	5					9	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
01	07	58	50.0*	27.642	S	65.549	E	10	G	4.7		1.0	24	SOUTH INDIAN OCEAN
01	08	01	30.4&	35.840	N	1.900	W	0	G				9	NORTHERN ALGERIA. <MDD>. mbLg 2.4 (MDD).
01	09	08	36.8	13.369	S	167.200	E	250	G	4.6		1.1	59	VANUATU ISLANDS
01	09	25	57.1&	32.088	S	70.187	W	128					9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
01	10	00	53.2&	15.972	N	97.363	W	29					5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
01	10	15	16.9&	45.500	N	5.400	E	2					13	FRANCE. <LDG>. ML 2.4 (LDG).
01	10	31	27.7	14.195	S	167.140	E	250	G	4.8		0.9	111	VANUATU ISLANDS
01	11	08	12.3	54.243	N	162.468	W	33	N	4.3		1.1	27	ALASKA PENINSULA
01	11	08	54.3	39.202	S	74.584	W	33	N	4.8		1.3	39	OFF COAST OF CENTRAL CHILE
01	11	09	39.7	35.578	N	21.559	E	33	N	3.8		1.1	8	CENTRAL MEDITERRANEAN SEA
01	11	29	48.7*	17.777	N	120.322	E	33	N	4.3		1.1	17	LUZON, PHILIPPINE ISLANDS. Felt at Laoag.
01	11	59	37.9&	11.214	N	62.086	W	31					4	WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).
01	12	11	07.2&	34.265	S	70.725	W	95					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
01	12	54	12.4	23.615	N	121.028	E	33	N	5.0		1.1	64	TAIWAN. Mw 5.2 (HRV). Felt (IV JMA) in the epicentral area; (III JMA) at Chia-i and Hua-lien; (II JMA) at Tai-chung. Centroid, Moment Tensor (HRV): Centroid origin time 12:54:12.9; Lat 24.46 N; Lon 121.64 E; Dep 31.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.29, Plg=50, Azm=99; (N) Val=-0.60, Plg=16, Azm=209; (P) Val=-6.70, Plg=35, Azm=311; Best double couple: Mo=7.0*10**16 Nm; NP1: Strike=91, Dip=18, Slip=153; NP2: Strike=207, Dip=82, Slip=74.
01	14	44	09.2	15.848	N	97.010	W	33	N	4.5		1.0	51	NEAR COAST OF OAXACA, MEXICO. MD 4.6 (UNM).
01	14	56	18.3&	57.901	N	153.681	W	95					6	KODIAK ISLAND REGION. <AEIC>.
01	15	03	43.5&	15.851	N	98.116	W	20					10	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
01	15	50	30.0*	24.052	N	120.770	E	33	N			1.0	6	TAIWAN
01	16	00	22.2	12.561	N	142.537	E	138	*	4.9		0.9	89	SOUTH OF MARIANA ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:00:24.6; Lat 12.20 N; Lon 142.60 E; Dep 114.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.97, Plg=36, Azm=53; (N) Val=1.05, Plg=43, Azm=280; (P) Val=-6.02, Plg=26, Azm=164; Best double couple: Mo=5.5*10**16 Nm; NP1: Strike=203, Dip=43, Slip=9; NP2: Strike=106, Dip=84, Slip=133.
01	16	07	25.2*	44.476	N	148.368	E	53	D	3.6		1.3	10	KURIL ISLANDS
01	16	29	04.4	9.713	N	126.138	E	33	N	4.3		0.9	25	MINDANAO, PHILIPPINE ISLANDS
01	16	49	34.7?	22.95	N	121.26	E	33	N			1.1	5	TAIWAN REGION
01	17	05	24.5*	35.506	N	21.761	E	33	N	3.9		1.1	14	CENTRAL MEDITERRANEAN SEA
01	17	26	33.4*	2.523	S	140.410	E	33	N			1.1	8	NEAR NORTH COAST OF IRIAN JAYA

01	17	37	00.7?	2.29	S	140.61	E	33	N	4.0	1.0	8	NEAR NORTH COAST OF IRIAN JAYA. Felt (III) at Jayapura.
01	17	53	34.7	23.616	N	121.156	E	33	N	4.5	1.0	18	TAIWAN. Felt (III JMA) at Chia-i and (I JMA) at Tai-chung.
01	18	15	40.4	51.665	N	16.177	E	5	G		0.8	14	POLAND. ML 3.5 (VIE).
01	18	19	51.8*	33.558	S	68.896	W	10	G		1.0	11	MENDOZA PROVINCE, ARGENTINA
01	18	23	45.1&	44.342	N	7.333	E	12				4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
01	18	25	37.1	23.734	N	121.250	E	33	N	3.6	0.7	11	TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Tai-chung and (I JMA) at Hua-lien.
01	20	17	33.4	0.031	S	123.130	E	177	*	4.8	1.1	37	MINAHASSA PENINSULA, SULAWESI
01	20	31	25.7?	30.85	S	176.97	W	33	N	4.6	1.3	13	KERMADEC ISLANDS REGION
01	21	50	46.0?	23.61	S	66.31	W	231	*	4.5	1.5	11	JUJUY PROVINCE, ARGENTINA
01	22	24	00.6	0.279	S	122.702	E	64	D	5.6 5.1	1.1	184	MINAHASSA PENINSULA, SULAWESI. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 51; Principal axes (scale 10**17 Nm): (T) Val=5.12, Plg=49, Azm=13; (N) Val=-0.01, Plg=41, Azm=187; (P) Val=-5.11, Plg=3, Azm=280; Best double couple: Mo=5.1*10**17 Nm; NP1: Strike=44, Dip=55, Slip=143; NP2: Strike=157, Dip=60, Slip=41. Centroid, Moment Tensor (HRV): Centroid origin time 22:24:08.1; Lat 0.41 S; Lon 122.93 E; Dep 78.0; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.60, Plg=64, Azm=37; (N) Val=-1.24, Plg=26, Azm=213; (P) Val=-4.36, Plg=2, Azm=304; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=58, Dip=49, Slip=126; NP2: Strike=191, Dip=52, Slip=56.
01	23	20	32.0?	14.25	N	92.60	W	33	N	4.3	1.1	8	NEAR COAST OF CHIAPAS, MEXICO
01	23	23	23.0&	33.979	S	72.227	W	14				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
02	00	08	09.2*	20.732	S	176.308	W	150	G	4.6	1.0	22	FIJI ISLANDS REGION
02	00	10	43.0?	13.91	S	29.77	E	10	G	4.3	1.2	8	ZAMBIA
02	00	12	28.2&	43.300	N	0.300	W	8				34	PYRENEES. <LDG>. ML 2.9 (LDG), 2.6 (STR). mbLg 2.3 (MDD).
02	00	24	19.2&	33.944	S	72.103	W	44				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
02	00	31	33.6?	13.10	N	51.16	E	10	G	4.3	1.2	8	EASTERN GULF OF ADEN
02	00	31	46.4*	40.061	N	113.259	E	10	G	4.5	1.5	9	NORTHEASTERN CHINA
02	00	36	38.3*	9.645	N	83.838	W	33	N	4.5	1.2	16	COSTA RICA
02	00	53	21.2&	18.100	N	67.157	W	8				5	MONA PASSAGE. <MPR>. ML 3.0 (MPR).
02	00	53	23.0	31.581	S	68.887	W	123	?		0.8	18	SAN JUAN PROVINCE, ARGENTINA. MD 4.3 (GUC).
02	01	47	24.9	50.500	N	18.859	E	5	G		0.6	9	POLAND. ML 3.0 (VIE).
02	01	52	23.8&	36.510	N	5.770	W	16				5	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
02	02	23	43.9	73.936	N	8.802	E	10	G	4.7 3.8	1.2	34	GREENLAND SEA
02	02	31	45.9&	47.290	N	6.940	E	2	G			17	FRANCE. <STR>. ML 2.0 (LDG), 1.9 (STR).
02	03	42	25.9*	45.451	N	11.650	E	10	G		0.6	12	NORTHERN ITALY. ML 2.9 (VIE), 2.6 (TRI).
02	03	50	43.4	52.937	N	2.024	W	10	G		0.8	21	UNITED KINGDOM. ML 3.2 (LDG). Felt (III) at Newcastle-under-Lyme.
02	04	54	38.0	23.917	N	121.601	E	33	N	4.4	0.7	15	TAIWAN. Felt (IV JMA) in the epicentral area and (III JMA) at Hua-lien.
02	05	16	42.8&	18.925	N	67.410	W	8				5	MONA PASSAGE. <MPR>. ML 3.1 (MPR).
02	05	38	32.1&	33.287	N	116.243	W	19				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
02	06	59	10.0&	32.699	S	71.759	W	15				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
02	07	01	28.0*	63.063	N	148.115	E	49	*	3.8	1.0	12	EASTERN SIBERIA, RUSSIA
02	07	08	16.8&	34.137	N	116.971	W	2				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS).
02	07	18	00.2&	17.095	N	94.489	W	171				7	CHIAPAS, MEXICO. <UNM>. MD 4.0 (UNM).
02	07	31	37.2*	0.691	S	20.396	W	10	G	4.2	0.6	13	CENTRAL MID-ATLANTIC RIDGE
02	08	08	21.6*	33.066	N	137.944	E	356	*	3.8	0.8	12	NEAR S. COAST OF HONSHU, JAPAN
02	08	11	57.9&	44.389	N	7.265	E	12				4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
02	08	14	51.5&	62.288	N	148.446	W	21				9	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
02	10	23	19.0&	16.024	N	97.363	W	56				17	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
02	10	33	25.7&	17.658	N	98.626	W	46				10	GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
02	11	51	15.0*	17.883	S	166.959	E	33	N	4.6	1.1	23	VANUATU ISLANDS
02	11	54	46.8&	15.973	N	97.378	W	20				7	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
02	12	08	29.1&	16.104	N	97.231	W	45				9	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
02	12	10	33.6&	44.757	N	7.565	E	41				6	NORTHERN ITALY. <GEN>.
02	13	44	02.0&	40.560	S	174.650	E	29				6	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.8 (WEL).
02	14	48	45.1*	23.737	N	121.285	E	33	N	4.3	1.0	15	TAIWAN. Felt (IV JMA) in the epicentral area and (I JMA) at Chia-i, Hua-lien and Tai-chung.
02	15	20	32.6	3.560	N	126.731	E	56	*	4.6	1.0	22	TALAUD ISLANDS, INDONESIA
02	15	38	18.3&	42.800	N	1.800	E	4				4	PYRENEES. <LDG>. ML 2.1 (LDG).
02	16	18	24.4*	24.155	N	121.336	E	33	N		1.1	6	TAIWAN
02	16	24	09.4	7.618	S	118.708	E	557		4.6	0.7	31	FLORES SEA
02	16	25	49.9&	41.670	S	174.510	E	29				5	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.5 (WEL).
02	17	14	17.8	24.069	N	122.434	E	45	*	5.0 4.8	1.1	78	TAIWAN REGION. Mw 5.2 (HRV). Felt (II JMA) at I-lan and (I JMA) at Taipei. Also felt (I JMA) on Yonaguni-jima, Ryukyu Islands. Centroid, Moment Tensor (HRV): Centroid origin time 17:14:18.0; Lat 24.16 N; Lon 122.57 E; Dep 21.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.24, Plg=57, Azm=344; (N) Val=1.71, Plg=1, Azm=75; (P) Val=-6.95, Plg=33, Azm=166; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=259, Dip=12, Slip=94; NP2: Strike=75, Dip=78, Slip=89.
02	17	36	36.9&	35.890	N	3.820	W	0	G			20	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
02	17	58	18.7	55.994	S	27.854	W	135	?	5.0	0.8	32	SOUTH SANDWICH ISLANDS REGION
02	18	11	42.5*	31.805	S	70.058	W	130	?		0.6	14	CHILE-ARGENTINA BORDER REGION. MD 3.8 (GUC).
02	19	22	42.2&	16.780	N	95.137	W	113				5	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
02	19	24	59.0*	23.822	N	120.953	E	33	N		1.3	6	TAIWAN. Felt (IV JMA) in the epicentral area, (II JMA) at Tai-chung and (I JMA) at Chia-i.
02	19	27	19.5*	42.708	N	12.985	E	10	G		0.9	19	CENTRAL ITALY. ML 3.4 (LDG), 3.2 (TRI).
02	19	33	57.7&	31.768	S	70.199	W	138				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
02	19	43	14.4*	40.175	N	143.278	E	33	N	3.8	0.6	11	OFF EAST COAST OF HONSHU, JAPAN
02	19	58	18.9&	44.421	N	7.296	E	7				5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
02	20	59	11.8*	3.649	N	126.619	E	33	N	4.4	0.7	8	TALAUD ISLANDS, INDONESIA
02	21	01	01.5*	20.537	S	70.596	W	55	?	3.9	0.8	6	NEAR COAST OF NORTHERN CHILE
02	21	08	41.1	40.186	N	143.040	E	33	N	5.8 5.4	0.8	345	OFF EAST COAST OF HONSHU, JAPAN. Mw 5.7 (HRV), 5.6 (GS). Felt (II JMA) in eastern Aomori, northern Miyagi and parts of Iwate; (I JMA) in Akita and northwestern Yamagata Prefectures. Also felt (I JMA) in southern Hokkaido.

Moment Tensor (GS): Dep 19; Principal axes (scale 10**17 Nm): (T) Val=3.36, Plg=51, Azm=300; (N) Val=-0.93, Plg=2, Azm=33; (P) Val=-2.42, Plg=39, Azm=125; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=234, Dip=7, Slip=112; NP2: Strike=33, Dip=84, Slip=88.
Centroid, Moment Tensor (HRV): Centroid origin time 21:08:44.1; Lat 40.22 N; Lon 143.31 E; Dep 25.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.62, Plg=62, Azm=314; (N) Val=0.59, Plg=9, Azm=207; (P) Val=-4.20, Plg=26, Azm=112; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=180, Dip=20, Slip=62; NP2: Strike=30, Dip=72, Slip=100.

02	21	21	07.1*	14.195	S	72.219	W	96 *	3.9		0.7	13	CENTRAL PERU
02	21	25	37.2*	60.230	S	159.541	E	10 G	5.0		0.9	17	MACQUARIE ISLANDS REGION. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 21:25:41.5; Lat 60.31 S; Lon 159.07 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.43, Plg=16, Azm=124; (N) Val=-0.01, Plg=53, Azm=12; (P) Val=-1.42, Plg=33, Azm=225; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=260, Dip=55, Slip=-13; NP2: Strike=357, Dip=79, Slip=-144.

02	21	53	54.3?	7.87	N	126.71	E	33 N			1.0	7	MINDANAO, PHILIPPINE ISLANDS
02	22	14	32.1&	40.707	N	30.566	E	13				4	TURKEY. <ISK>. MD 2.8 (ISK).
02	22	17	03.4	22.222	N	120.950	E	33 N	4.9		0.9	53	TAIWAN
02	22	35	50.0	63.498	N	151.169	W	33 N			0.8	7	CENTRAL ALASKA. ML 2.9 (PMR).
02	23	00	09.0*	22.090	N	120.979	E	33 N	4.3		1.1	11	TAIWAN
02	23	00	39.7	29.070	N	142.522	E	33 N	4.6		1.2	35	SOUTH OF HONSHU, JAPAN
02	23	02	04.4&	40.770	N	30.682	E	9				7	TURKEY. <ISK>. MD 2.8 (ISK).
02	23	50	54.6&	40.950	S	174.620	E	52				8	COOK STRAIT, NEW ZEALAND. <WEL>.
03	00	16	23.3&	39.635	N	28.793	E	8				4	TURKEY. <ISK>. MD 2.7 (ISK).
03	00	29	45.4	7.321	S	120.440	E	515		4.7	0.9	39	FLORES SEA
03	00	35	01.8&	40.784	N	29.798	E	6				8	TURKEY. <ISK>. MD 2.7 (ISK).
03	00	46	27.9&	40.771	N	31.044	E	6				6	TURKEY. <ISK>. MD 2.7 (ISK).
03	01	38	52.6&	33.130	S	70.374	W	99				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
03	01	56	41.8*	9.757	N	78.638	W	33 N	4.4		1.2	21	PANAMA
03	02	04	27.4&	35.249	S	70.518	W	166				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
03	02	10	14.0*	13.357	S	111.314	W	10 G	4.9	5.5	0.8	30	CENTRAL EAST PACIFIC RISE. Mw 5.7 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 02:10:22.5; Lat 13.33 S Fix; Lon 111.18 W Fix; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.84, Plg=4, Azm=143; (N) Val=-0.08, Plg=68, Azm=244; (P) Val=-3.75, Plg=21, Azm=51; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=189, Dip=72, Slip=-168; NP2: Strike=95, Dip=78, Slip=-18.

03	02	21	32.4&	33.606	S	71.636	W	28				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
03	02	58	13.3&	62.971	N	149.894	W	87				13	CENTRAL ALASKA. <AEIC>.
03	04	06	45.9	35.680	N	135.133	E	378		4.5	0.8	109	WESTERN HONSHU, JAPAN
03	04	16	26.7&	40.867	N	31.106	E	8				5	TURKEY. <ISK>. MD 2.8 (ISK).
03	04	43	40.8	45.860	N	20.839	E	5	G		0.9	14	NORTHWESTERN BALKAN REGION
03	05	19	31.5	14.122	N	92.992	W	33 N		4.7	1.3	48	NEAR COAST OF CHIAPAS, MEXICO. MD 4.7 (UNM).
03	05	23	40.5*	21.985	N	121.543	E	33 N		4.7	1.4	19	TAIWAN REGION
03	05	48	41.8&	37.260	N	121.642	W	7				7	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
03	05	52	25.4&	23.560	N	120.880	E	9				6	TAIWAN. <TAP>. ML 4.9 (TAP). Felt (IV JMA) in the epicentral area and (III JMA) at Chia-i.
03	05	54	41.1&	37.760	N	2.210	W	15				13	SPAIN. <MDD>. mbLg 2.2 (MDD).
03	06	10	45.5&	38.800	S	177.450	E	71				9	NORTH ISLAND, NEW ZEALAND. <WEL>. Felt at Wairoa.
03	06	35	51.1&	16.596	N	94.755	W	81				12	OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).
03	06	36	08.8	7.138	S	124.987	E	516		4.8	1.0	39	BANDA SEA
03	06	38	41.9*	30.172	N	88.116	E	33 N		4.3	1.5	10	XIZANG
03	06	46	19.9&	32.932	S	70.985	W	62				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
03	07	22	36.9?	44.21	N	128.89	W	10 G			0.4	27	OFF COAST OF OREGON
03	09	15	08.2&	18.141	N	67.006	W	21				4	MONA PASSAGE. <MPR>. ML 2.9 (MPR).
03	09	33	39.9?	38.22	N	15.04	E	237 *		4.2	1.4	32	SICILY
03	10	50	29.0&	46.540	N	121.810	W	4				13	WASHINGTON. <SEA-P>. MD 2.5 (SEA).
03	11	30	19.8&	43.200	N	1.700	W	5				75	PYRENEES. <LDG>. ML 3.9 (STR), 3.8 (LDG). Felt (IV) in southwestern France. Felt (III) at Elizondo, Larrainzar, Lesaca, Mugaire de Oronoz, Santesteban and Vera de Bidasoa; (II) at Donostia-San Sebastian and Pamplona, Spain.
03	11	38	28.7&	61.193	N	146.196	W	13				15	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.8 (PMR).
03	11	48	37.1&	12.042	N	61.408	W	35				4	WINDWARD ISLANDS. <TRN>. MD 3.4 (TRN).
03	11	54	06.1&	33.049	N	115.902	W	1				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
03	11	56	24.9&	33.054	N	115.905	W	3				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
03	11	58	51.9*	23.211	N	123.473	E	33 N		3.8	1.4	11	SOUTHWESTERN RYUKYU ISLANDS
03	12	05	36.5?	23.36	S	176.28	W	33 N		4.6	0.9	9	SOUTH OF FIJI ISLANDS
03	12	23	45.4&	18.086	N	66.777	W	11				6	PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
03	12	57	46.6	63.367	N	151.586	W	33 N			0.9	10	CENTRAL ALASKA. ML 2.9 (PMR).
03	13	17	14.8	31.174	N	138.970	E	305		4.5	0.6	49	SOUTH OF HONSHU, JAPAN
03	13	19	17.7	38.910	N	48.673	E	71 *		4.5	1.2	40	ARMENIA-AZERBAIJAN-IRAN BORD REG
03	13	25	57.1&	33.050	N	115.900	W	3				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
03	13	30	22.5&	33.050	N	115.905	W	3				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
03	14	52	53.8&	37.180	N	3.620	W	0	G			19	SPAIN. <MDD>. mbLg 2.3 (MDD).
03	15	06	19.4*	27.714	S	65.637	E	10 G		4.9	1.2	27	SOUTH INDIAN OCEAN
03	15	48	51.7	36.184	N	30.503	E	77		4.1	0.8	31	TURKEY. MD 3.9 (ISK).
03	15	58	19.0&	33.068	S	70.346	W	95				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
03	15	58	44.8&	40.734	N	29.987	E	15				6	TURKEY. <ISK>. MD 2.7 (ISK).
03	16	06	58.0*	32.832	N	140.917	E	33 N			0.9	8	SOUTH OF HONSHU, JAPAN
03	16	07	25.8	43.195	N	126.794	W	10 G			0.7	47	OFF COAST OF OREGON
03	16	19	34.7&	40.774	N	29.898	E	13				7	TURKEY. <ISK>. MD 3.1 (ISK).
03	16	49	48.0&	37.505	N	118.827	W	8				6	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.0 (BRK).
03	17	03	37.5*	38.396	N	23.905	E	10 G			1.0	14	GREECE
03	17	19	18.2	10.971	N	62.484	W	90 D		4.2	1.2	31	NEAR COAST OF VENEZUELA. MD 4.5 (TRN). Felt (III) on Trinidad.

03	18	15	07.0&	16.429	N	94.197	W	102				8	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
03	18	17	34.4&	40.688	N	29.988	E	10				7	TURKEY. <ISK>. MD 3.1 (ISK).
03	18	38	46.9?	17.70	S	178.28	W	600	G	4.1	1.0	17	FIJI ISLANDS REGION
03	19	24	48.6&	40.609	N	29.040	E	9				8	TURKEY. <ISK>. MD 2.9 (ISK).
03	20	03	34.0&	47.100	N	1.200	E	2				44	FRANCE. <LDG>. ML 3.8 (LDG), 3.6 (STR).
03	21	13	20.2*	23.378	N	120.961	E	33	N		1.4	7	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i.
03	21	18	01.8&	31.452	S	71.327	W	38				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
03	22	01	49.4&	33.053	S	71.016	W	63				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
03	23	02	29.0&	43.210	N	0.570	W	2	G			4	PYRENEES. <STR>. ML 2.2 (STR).
03	23	43	14.4*	22.924	N	121.164	E	33	N		0.8	12	TAIWAN REGION. Felt (IV JMA) in the epicentral area, (II JMA) at Chia-i and (I JMA) at Cheng-kung.
04	00	08	19.6*	6.437	S	148.850	E	33	N	4.2	1.2	11	NEW BRITAIN REGION, P.N.G.
04	00	20	24.3&	33.161	N	115.651	W	1				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
04	00	32	53.7	2.632	N	127.361	E	33	N	5.4 4.7	1.1	99	NORTHERN MOLUCCA SEA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:32:57.6; Lat 3.04 N; Lon 127.04 E; Dep 47.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.67, Plg=50, Azm=176; (N) Val=-1.23, Plg=1, Azm=267; (P) Val=-8.44, Plg=40, Azm=359; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=105, Dip=5, Slip=107; NP2: Strike=267, Dip=85, Slip=89.
04	00	42	07.9*	56.015	S	27.347	W	100	G	4.5	0.7	17	SOUTH SANDWICH ISLANDS REGION
04	01	01	59.3*	17.722	N	145.575	E	463	*	4.1	1.0	22	MARIANA ISLANDS
04	01	17	59.3&	18.819	N	66.075	W	46				5	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
04	01	37	40.9	43.305	N	140.617	E	183	*	4.4	0.9	26	HOKKAIDO, JAPAN REGION
04	01	48	46.2&	16.016	N	97.403	W	39				7	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
04	03	07	10.7?	54.63	S	130.74	W	10	G	4.5	0.8	9	PACIFIC-ANTARCTIC RIDGE
04	03	07	22.1?	54.70	S	130.75	W	10	G	4.3	0.7	8	PACIFIC-ANTARCTIC RIDGE
04	04	13	39.3&	18.023	N	66.846	W	8				5	PUERTO RICO REGION. <MPR>. ML 2.6 (MPR).
04	04	35	20.5&	43.104	N	18.947	E	0	G			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
04	04	52	14.9?	7.85	S	74.35	W	146	?	4.0	1.1	8	PERU-BRAZIL BORDER REGION
04	05	35	35.1*	36.385	N	70.691	E	192	*	3.9	0.7	11	HINDU KUSH REGION, AFGHANISTAN
04	06	15	05.0&	43.800	N	7.400	E	2				12	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.5 (LDG), 2.5 (STR).
04	06	26	24.7?	54.58	S	130.86	W	10	G	4.9	1.2	12	PACIFIC-ANTARCTIC RIDGE. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:26:31.3; Lat 55.16 S; Lon 130.83 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.59, Plg=7, Azm=331; (N) Val=0.53, Plg=69, Azm=223; (P) Val=-8.12, Plg=19, Azm=63; Best double couple: Mo=7.9*10**16 Nm; NP1: Strike=105, Dip=72, Slip=-9; NP2: Strike=198, Dip=81, Slip=-161.
04	06	37	31.8*	31.650	S	69.369	W	100	G		0.9	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
04	06	43	06.9?	6.59	N	73.68	W	204	*	4.0	1.5	13	NORTHERN COLOMBIA
04	07	48	50.5&	34.624	S	70.749	W	103				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
04	09	05	59.8?	31.31	S	69.53	W	100	G		0.9	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
04	09	11	36.8&	43.305	N	17.871	E	13				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.6 (PDG).
04	09	58	35.5*	16.479	S	69.555	W	193	*	4.2	1.1	14	PERU-BOLIVIA BORDER REGION
04	10	37	54.5&	41.080	S	174.580	E	34				9	COOK STRAIT, NEW ZEALAND. <WEL>. Felt at Wellington on the North Island.
04	11	04	01.5&	41.140	S	174.820	E	28				6	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.5 (WEL).
04	11	10	26.9*	64.213	N	150.230	W	33	N		1.3	6	CENTRAL ALASKA. ML 2.7 (PMR).
04	11	47	54.1	45.962	N	15.093	E	10	G		0.2	7	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 1.8 (LJU).
04	12	18	48.8*	0.283	N	120.501	E	165	?	4.5	0.9	13	MINAHASSA PENINSULA, SULAWESI
04	12	26	15.8	23.611	N	120.987	E	33	N	4.9	1.0	44	TAIWAN. ML 5.2 (TAP). Felt (III JMA) in the epicentral area, (II JMA) at Hua-lien and (I JMA) at Cheng-kung and Tai-chung.
04	12	27	56.1&	32.110	S	71.734	W	27				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
04	12	52	24.6	8.703	S	110.285	E	101	*	3.7	0.9	15	JAWA, INDONESIA
04	13	57	38.9	10.685	S	75.635	W	33	N	5.5 5.0	1.1	156	CENTRAL PERU. Mw 5.6 (HRV). Felt (IV) at Oxapampa. Felt in the Cerro de Pasco area and as far south as Lima. Centroid, Moment Tensor (HRV): Centroid origin time 13:57:42.1; Lat 10.81 S; Lon 75.72 W; Dep 15.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.11, Plg=58, Azm=285; (N) Val=-0.09, Plg=7, Azm=185; (P) Val=-3.02, Plg=31, Azm=91; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=159, Dip=15, Slip=64; NP2: Strike=6, Dip=77, Slip=97.
04	14	10	52.6&	15.640	N	96.541	W	16				9	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
04	14	16	10.8*	10.544	S	113.075	E	33	N	4.3	1.4	15	SOUTH OF JAWA, INDONESIA
04	15	35	02.4&	42.780	N	1.820	E	2	G			5	PYRENEES. <STR>. ML 2.2 (STR).
04	15	36	39.8&	15.983	N	96.974	W	67				4	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.5 (UNM).
04	16	42	17.7&	32.544	S	71.208	W	77				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
04	18	10	51.3&	43.300	N	0.400	W	2				20	PYRENEES. <LDG>. ML 3.0 (LDG), 2.8 (STR). mbLg 2.4 (MDD).
04	18	14	26.5&	42.900	N	0.600	E	10		4.4		180	PYRENEES. <LDG>. ML 5.1 (LDG), 4.9 (STR). mbLg 4.5 (MDD). Felt (V) in the central Pyrenees and (II) at Pau, France. Felt (V) at Bosost; (IV) at Arres, Arties, Badain, Benasque, Canejan, Jaca, Les, Monzon, Viella and Vilamos; (III) at Badalona, Barbastro, Barcelona, Lerida, Molins de Rey, Mollerusa, Tarragona and Valls; (II) at Calafell, Cervera and Huesca, Spain.
04	19	10	21.9	11.429	S	166.450	E	115	D	5.1	0.9	61	SANTA CRUZ ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:10:24.6; Lat 11.43 S Fix; Lon 166.45 E Fix; Dep 105.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.71, Plg=77, Azm=143; (N) Val=-1.12, Plg=10, Azm=1; (P) Val=-4.59, Plg=8, Azm=270; Best double couple: Mo=5.2*10**16 Nm; NP1: Strike=348, Dip=38, Slip=73; NP2: Strike=189, Dip=54, Slip=103.
04	20	11	42.5&	15.974	N	97.095	W	51				7	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
04	20	20	20.3*	5.619	N	126.545	E	99	?	4.4	0.9	19	MINDANAO, PHILIPPINE ISLANDS
04	20	22	22.1	35.203	S	69.523	W	180		4.2	0.6	31	MENDOZA PROVINCE, ARGENTINA. MD 4.4 (GUC). Felt (II) at Valparaiso, Chile.

04	20	25	58.0*	23.929	N	121.455	E	33	N	3.9	0.8	10	TAIWAN. Felt (II JMA) in the epicentral area and (I JMA) at Chia-i, Hua-lien and Tai-chung.
04	20	34	46.4&	42.900	N	0.600	E	10				11	PYRENEES. <LDG>. ML 2.3 (LDG), 2.2 (STR).
04	20	57	53.3	37.566	S	176.374	E	242			0.9	23	NORTH ISLAND, NEW ZEALAND
04	20	59	15.3&	23.191	N	123.812	E	33	N		0.4	6	SOUTHWESTERN RYUKYU ISLANDS
04	21	09	35.5	41.407	N	142.384	E	33	N	4.7	1.4	38	HOKKAIDO, JAPAN REGION. Felt (II JMA) in eastern Aomori and northern Iwate Prefectures, Honshu. Also felt (I JMA) in south-central Hokkaido.
04	21	52	11.8?	5.54	S	146.78	E	189	*	4.3	1.0	9	EASTERN NEW GUINEA REG., P.N.G.
04	22	05	24.3&	45.700	N	6.900	E	2				7	FRANCE. <LDG>. ML 2.0 (LDG).
04	22	40	00.5	44.175	N	12.167	E	10	G		1.2	28	NORTHERN ITALY. ML 2.9 (LDG), 2.9 (TRI).
04	22	49	04.4&	35.796	N	1.469	W	10	G		1.1	19	NORTHERN ALGERIA. mbLg 2.4 (MDD).
04	22	51	34.4&	32.591	S	72.905	W	25				9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
04	23	10	40.9&	32.662	S	71.677	W	30				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC). Felt (II) at Valparaiso.
04	23	37	45.8*	31.047	S	177.482	W	33	N	4.6	1.0	18	KERMADEC ISLANDS REGION
05	00	00	06.9*	23.955	N	122.277	E	33	N		1.1	15	TAIWAN REGION
05	00	07	17.3&	40.772	N	19.386	E	13				10	ALBANIA. <PDG>. MD 2.9 (PDG).
05	00	36	19.9&	48.100	N	3.100	W	2				7	FRANCE. <LDG>. ML 2.0 (LDG).
05	00	38	38.7	37.356	N	142.493	E	33	N	5.3 4.4	0.8	177	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in eastern Fukushima, northern Miyagi and parts of Iwate; (I JMA) in southeastern Aomori, central Fukushima and parts of Ibaraki, Tochigi and Yamagata Prefectures. Also felt (I JMA) in the Kushiro area, Hokkaido.
05	00	53	28.9	36.730	N	28.240	E	33	N	4.9 4.6	1.2	232	DODECANESE ISLANDS. Mw 5.6 (CSEM), 5.2 (HRV). ML 4.9 (THE). At least 103 people injured in the Marmaris area, Turkey. Felt on Kos and Rhodes, Greece. Centroid, Moment Tensor (HRV): Centroid origin time 00:53:30.1; Lat 36.73 N Fix; Lon 28.24 E Fix; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.38, Plg=7, Azm=149; (N) Val=0.96, Plg=41, Azm=53; (P) Val=-7.34, Plg=49, Azm=247; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=275, Dip=52, Slip=-34; NP2: Strike=28, Dip=64, Slip=-137. Moment Tensor (CSEM): Dep 20; Principal axes: (T) Plg=4, Azm=174; (N) Plg=5, Azm=264; (P) Plg=84, Azm=49; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=89, Dip=49, Slip=-83; NP2: Strike=258, Dip=41, Slip=-98.
05	01	02	23.7?	46.26	N	14.36	E	10	G		0.8	4	NORTHWESTERN BALKAN REGION. ML 1.0 (LJU).
05	01	02	35.8?	46.31	N	14.39	E	10	G		1.0	4	NORTHWESTERN BALKAN REGION. ML 1.6 (LJU).
05	01	04	59.2	36.856	N	28.025	E	33	N	4.3	1.1	44	DODECANESE ISLANDS
05	01	13	48.5*	23.075	N	120.857	E	33	N	3.7	0.9	11	TAIWAN. Felt (IV JMA) in the epicentral area and (I JMA) at Chia-i.
05	01	20	24.0	9.845	N	125.300	E	191	?	4.8	0.8	51	MINDANAO, PHILIPPINE ISLANDS
05	02	54	16.0&	48.920	N	8.010	E	8				12	GERMANY. <FBB>. ML 2.2 (LDG), 1.8 (FBB).
05	02	59	59.0*	35.841	S	103.284	W	10	G	4.9 5.0	1.1	51	SOUTHERN PACIFIC OCEAN. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:00:05.8; Lat 35.71 S; Lon 103.27 W; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.55, Plg=1, Azm=232; (N) Val=0.00, Plg=75, Azm=138; (P) Val=-3.55, Plg=15, Azm=322; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=6, Dip=78, Slip=-10; NP2: Strike=98, Dip=80, Slip=-168.
05	03	51	37.5	6.299	N	124.161	E	503	?	4.4	0.8	22	MINDANAO, PHILIPPINE ISLANDS
05	05	01	35.9	51.207	N	157.610	E	77		5.4 4.8	0.9	305	NEAR EAST COAST OF KAMCHATKA. Mw 5.6 (GS), 5.5 (HRV). Felt (IV) at Severo-Kurilsk, Paramushir. Felt (III) at Petropavlovsk-Kamchatskiy. Moment Tensor (GS): Dep 55; Principal axes (scale 10**17 Nm): (T) Val=2.41, Plg=58, Azm=84; (N) Val=0.09, Plg=28, Azm=232; (P) Val=-2.50, Plg=14, Azm=330; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=92, Dip=39, Slip=138; NP2: Strike=218, Dip=65, Slip=59. Centroid, Moment Tensor (HRV): Centroid origin time 05:01:37.2; Lat 50.97 N; Lon 157.90 E; Dep 73.6; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.09, Plg=60, Azm=85; (N) Val=-0.12, Plg=21, Azm=215; (P) Val=-1.97, Plg=21, Azm=314; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=76, Dip=30, Slip=135; NP2: Strike=207, Dip=69, Slip=68.
05	05	44	33.9*	29.350	N	35.936	E	10	G	4.1	0.8	6	WESTERN ARABIAN PENINSULA
05	07	22	14.4?	30.71	S	177.47	W	33	N	4.4	1.0	10	KERMADEC ISLANDS, NEW ZEALAND
05	09	31	28.0*	1.226	N	122.824	E	55	D	4.5	1.1	18	MINAHASSA PENINSULA, SULAWESI
05	10	19	34.9&	33.935	S	70.905	W	61				6	CHILE-ARGENTINA BORDER REGION. <GUC>.
05	10	36	24.0&	42.610	N	7.330	W	9				5	SPAIN. <MDD>. mbLg 2.3 (MDD).
05	11	55	23.1&	40.440	S	173.510	E	168				15	COOK STRAIT, NEW ZEALAND. <WEL>.
05	12	18	17.6	23.698	N	121.103	E	33	N	4.8 4.3	1.1	38	TAIWAN. Felt (III JMA) at Hua-lien, (II JMA) at Chia-i and (I JMA) at Tai-chung.
05	14	40	22.4	21.084	S	179.173	W	600	G	4.8	1.0	60	FIJI ISLANDS REGION
05	15	20	31.8	21.532	S	68.928	W	121	D	4.9	1.3	76	CHILE-BOLIVIA BORDER REGION. Mw 5.2 (HRV). Felt (V) at Guatacondo; (IV) at Calama, Chuquicamata, Iquique, Maria Elena, Quillagua, Sierra Gorda and Tocopilla; (III) at Arica, Chile. Also felt (III) at Arequipa and Tacna, Peru. Centroid, Moment Tensor (HRV): Centroid origin time 15:20:37.9; Lat 21.18 S; Lon 68.91 W; Dep 141.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.27, Plg=29, Azm=101; (N) Val=0.46, Plg=5, Azm=194; (P) Val=-6.73, Plg=61, Azm=293; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=176, Dip=17, Slip=-108; NP2: Strike=15, Dip=74, Slip=-85.
05	17	04	44.8	26.260	N	91.926	E	33	N	5.3 4.5	0.8	201	NORTHEASTERN INDIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:04:50.8; Lat 25.88 N; Lon 91.89 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)

												Val=5.80, Plg=23, Azm=105; (N) Val=1.88, Plg=65, Azm=304; (P) Val=-7.69, Plg=7, Azm=198; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=244, Dip=68, Slip=12; NP2: Strike=149, Dip=79, Slip=158.
05	17	25	33.0&	40.777	N	30.973	E	9			7	TURKEY. <ISK>. MD 3.1 (ISK).
05	17	58	40.4	39.122	N	71.841	E	33 N	4.7	1.3	81	TAJIKISTAN
05	18	41	41.0*	22.885	N	121.122	E	33 N	3.4	1.3	10	TAIWAN REGION
05	19	31	20.1&	43.100	N	0.400	W	2			8	PYRENEES. <LDG>. ML 2.3 (STR), 2.0 (LDG).
05	20	17	54.0&	37.600	N	3.760	W	0 G			6	SPAIN. <MDD>. mbLg 1.3 (MDD).
05	20	24	58.7	5.068	S	152.223	E	88 D	4.8	0.8	39	NEW BRITAIN REGION, P.N.G.
05	21	07	31.8*	6.024	S	146.823	E	33 N	4.1	1.2	10	EASTERN NEW GUINEA REG., P.N.G.
05	21	12	18.0&	33.126	S	70.242	W	7			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
05	21	36	42.6&	37.510	S	177.210	E	5			8	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.2 (WEL).
05	22	54	05.3&	37.390	S	177.250	E	5			7	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.4 (WEL).
05	23	44	16.0&	41.198	N	19.601	E	16			10	ALBANIA. <PDG>. MD 2.8 (PDG).
06	00	13	13.1&	44.487	N	7.172	E	12			17	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.6 (LDG).
06	01	28	27.1?	26.51	S	27.77	E	5 G	4.1	1.3	6	REPUBLIC OF SOUTH AFRICA
06	03	45	30.5*	23.845	N	121.178	E	33 N	4.3	1.2	13	TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Hua-lien and (I JMA) at Chia-i and Tai-chung.
06	03	53	02.9&	41.837	N	19.374	E	15			12	ALBANIA. <PDG>. MD 2.4 (PDG).
06	04	05	16.0*	1.685	S	138.848	E	33 N	4.3	1.3	15	NEAR NORTH COAST OF IRIAN JAYA
06	04	09	02.3*	24.073	N	121.647	E	33 N	4.9	1.3	40	TAIWAN. Felt (IV JMA) in the epicentral area and (III JMA) at Hua-lien.
06	04	34	59.2&	45.500	N	6.600	E	2			5	FRANCE. <LDG>. ML 1.6 (LDG).
06	04	55	48.7*	14.328	N	93.942	E	33 N		1.0	16	ANDAMAN ISLANDS, INDIA
06	05	06	27.7&	36.108	N	120.301	W	10			4	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM).
06	06	04	58.7&	43.947	N	8.639	E	2			9	CORSICA. <GEN>. ML 2.1 (GEN).
06	07	27	40.4&	42.427	N	19.365	E	23			8	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.4 (PDG).
06	07	28	20.2&	44.953	N	6.628	E	5			7	FRANCE. <GEN>. ML 2.2 (GEN).
06	07	53	21.5&	33.301	S	70.878	W	76			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
06	08	14	27.8	3.390	N	128.167	E	33 N	4.4	0.7	13	NORTH OF HALMAHERA, INDONESIA
06	09	09	24.8*	29.627	N	51.002	E	33 N	4.0	1.1	8	SOUTHERN IRAN
06	09	51	36.5&	43.881	N	7.990	E	2			4	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.6 (GEN).
06	10	23	28.4*	23.751	N	94.759	E	127 ?	4.3	1.0	16	MYANMAR-INDIA BORDER REGION
06	12	21	53.2&	33.325	S	72.023	W	22			9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
06	12	56	48.6*	51.963	N	178.331	E	33 N		1.2	9	RAT ISLANDS, ALEUTIAN ISLANDS. ML 3.7 (PMR).
06	13	01	43.6	32.367	S	71.877	W	33 N	4.2	1.3	26	NEAR COAST OF CENTRAL CHILE. MD 4.7 (GUC). Felt (III) at Illapel, La Ligua, Limache, Los Vilos, Olmue, Puchuncavi, Quillota, Quilpue, Quintero, Salamanca, Valparaiso and Vina del Mar.
06	13	13	30.4*	45.643	N	14.226	E	10 G		0.2	5	NORTHWESTERN BALKAN REGION. ML 2.1 (LJU).
06	13	19	58.5&	32.494	S	71.660	W	15			14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (II) at Quintero.
06	14	21	23.6*	23.010	S	68.840	W	106 ?	4.4	1.5	15	NORTHERN CHILE
06	15	11	14.4*	45.652	N	14.216	E	10 G		0.4	5	NORTHWESTERN BALKAN REGION. ML 1.9 (LJU).
06	15	19	18.7&	41.700	S	174.330	E	32			11	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.7 (WEL).
06	16	12	13.4&	45.144	N	7.013	E	1			7	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
06	16	26	46.4&	50.060	N	0.270	E	1 G			85	UNITED KINGDOM. <STR>. ML 4.6 (STR).
06	16	45	30.7*	45.951	N	15.386	E	10 G		1.2	6	NORTHWESTERN BALKAN REGION. MD 2.7 (LJU). ML 2.5 (VIE). Felt (IV) at Raka, Slovenia.
06	17	34	27.2*	24.545	N	121.495	E	33 N	3.5	0.8	11	TAIWAN. Felt (IV JMA) in the epicentral area.
06	19	48	39.6&	33.842	S	70.103	W	5			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
06	20	15	58.2&	34.398	N	119.435	W	13			23	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
06	20	42	30.5*	51.642	N	177.661	W	63 *	4.4	1.1	13	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak.
06	20	51	59.5*	20.280	S	173.915	W	33 N	4.6	1.0	31	TONGA ISLANDS
06	21	50	18.4*	4.503	S	102.618	E	72 *	4.8	1.0	19	SOUTHERN SUMATERA, INDONESIA
06	22	26	16.8&	42.600	N	1.700	E	2			4	PYRENEES. <LDG>. ML 2.0 (LDG).
06	23	16	05.8*	17.807	S	172.105	W	33 N	4.7	1.1	40	TONGA ISLANDS REGION
06	23	40	06.6&	51.731	N	104.721	E	10 G		0.7	5	LAKE BAYKAL REGION, RUSSIA
06	23	51	39.5?	43.38	N	127.01	W	10 G		0.4	35	OFF COAST OF OREGON
06	23	55	00.4*	3.742	N	126.676	E	33 N	4.1	1.0	10	TALAUD ISLANDS, INDONESIA
07	00	09	18.9&	35.270	N	3.680	W	0 G			13	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
07	00	37	08.6	51.738	N	104.721	E	10 G		0.5	7	LAKE BAYKAL REGION, RUSSIA
07	01	34	02.7	39.462	N	71.483	E	33 N	4.5	1.2	45	TAJIKISTAN
07	01	38	46.0&	34.623	S	72.404	W	4			10	NEAR COAST OF CENTRAL CHILE. <GUC>.
07	02	43	35.8&	63.090	N	150.367	W	102			9	CENTRAL ALASKA. <AEIC>.
07	02	46	28.1&	34.080	S	70.212	W	9			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
07	03	01	29.0*	15.300	S	172.933	W	73 D	4.9	1.1	80	SAMOA ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:01:32.9; Lat 15.30 S Fix; Lon 172.93 W Fix; Dep 22.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.02, Plg=40, Azm=214; (N) Val=-1.20, Plg=49, Azm=47; (P) Val=-3.82, Plg=6, Azm=310; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=0, Dip=57, Slip=27; NP2: Strike=255, Dip=68, Slip=144.
07	03	40	11.8%	22.965	N	120.821	E	33 N		0.6	6	TAIWAN
07	03	43	35.0*	41.080	N	143.299	E	41 ?		1.0	10	HOKKAIDO, JAPAN REGION
07	04	22	39.0&	44.240	N	110.760	W	1			6	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 2.8 (SLC).
07	04	23	32.0&	44.240	N	110.760	W	1			10	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.2 (SLC), 2.8 (BUT).
07	04	50	17.0	52.243	N	177.720	W	149 D	5.2	0.9	292	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.5 (GS), 5.5 (HRV). Felt strongly on Adak. Moment Tensor (GS): Dep 146; Principal axes (scale 10**17 Nm): (T) Val=1.87, Plg=20, Azm=65; (N) Val=0.02, Plg=5, Azm=157; (P) Val=-1.90, Plg=69, Azm=259; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=147, Dip=25, Slip=-101; NP2: Strike=339, Dip=66, Slip=-85. Centroid, Moment Tensor (HRV): Centroid origin time 04:50:18.0; Lat 52.04 N; Lon 177.61 W; Dep 152.4; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.25, Plg=12, Azm=99; (N) Val=-0.35, Plg=23, Azm=3; (P) Val=-1.90, Plg=64, Azm=215; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=215, Dip=38, Slip=-52; NP2:

Strike=350, Dip=61, Slip=-116.

07	05	32	46.4&	61.311	N	146.466	W	21				5	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
07	06	16	51.3	28.284	S	67.283	W	149		3.9	1.1	23	LA RIOJA PROVINCE, ARGENTINA
07	06	45	42.9*	8.256	S	147.959	E	68	*		1.0	12	EASTERN NEW GUINEA REG., P.N.G.
07	08	31	09.7&	34.227	S	69.518	W	5				14	CHILE-ARGENTINA BORDER REGION. <GUC>.
07	08	57	40.9*	44.486	N	148.234	E	47	D	4.1	1.2	15	KURIL ISLANDS
07	09	33	15.7*	15.871	N	97.249	W	33	N		0.8	8	NEAR COAST OF OAXACA, MEXICO. MD 4.4 (UNM).
07	09	37	17.2&	42.388	N	19.452	E	21				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
07	10	04	06.5	5.112	N	94.389	E	33	N	4.8	1.1	38	NORTHERN SUMATERA, INDONESIA
07	10	33	11.9&	62.172	N	153.561	W	0				11	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 3.0 (PMR).
07	11	42	15.2	13.687	N	125.166	E	41	D	5.1 4.9	1.0	76	PHILIPPINE ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:42:12.7; Lat 13.90 N; Lon 125.31 E; Dep 15.5; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.96, Plg=10, Azm=221; (N) Val=0.16, Plg=69, Azm=338; (P) Val=-1.12, Plg=19, Azm=127; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=265, Dip=70, Slip=-174; NP2: Strike=173, Dip=84, Slip=-21.
07	12	17	38.0&	34.578	S	72.355	W	12				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
07	12	27	07.4	6.158	S	149.287	E	58	D	5.4	1.1	74	NEW BRITAIN REGION, P.N.G. Mw 5.7 (GS), 5.6 (HRV). Moment Tensor (GS): Dep 50; Principal axes (scale 10**17 Nm): (T) Val=3.42, Plg=5, Azm=40; (N) Val=0.01, Plg=64, Azm=140; (P) Val=-3.43, Plg=26, Azm=307; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=86, Dip=68, Slip=-165; NP2: Strike=350, Dip=76, Slip=-23. Centroid, Moment Tensor (HRV): Centroid origin time 12:27:12.7; Lat 6.14 S Fix; Lon 149.41 E Fix; Dep 63.8; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.03, Plg=17, Azm=194; (N) Val=0.13, Plg=63, Azm=68; (P) Val=-3.15, Plg=21, Azm=291; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=332, Dip=63, Slip=-3; NP2: Strike=63, Dip=88, Slip=-153.
07	15	25	35.2*	5.332	S	129.464	E	237	?	4.5	1.2	10	BANDA SEA
07	16	19	25.6&	30.604	S	72.022	W	22				11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
07	16	32	27.1?	23.12	S	169.99	E	33	N	4.5	1.2	20	LOYALTY ISLANDS REGION
07	16	32	50.0&	44.750	N	110.940	W	5				7	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.0 (SLC), 2.7 (BUT).
07	16	34	12.7*	24.438	N	121.270	E	33	N	4.1	1.1	13	TAIWAN. Felt (V JMA) in the epicentral area and (I JMA) at Taipei.
07	17	25	56.0&	32.621	S	71.693	W	27				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC). Felt (II) at Puchuncavi.
07	18	19	59.2	35.884	N	73.284	E	57	*	4.5	0.8	35	NORTHWESTERN KASHMIR
07	19	02	46.9&	44.020	N	4.890	E	2	G			23	FRANCE. <STR>. ML 2.7 (LDG), 2.6 (STR).
07	19	11	33.7&	43.088	N	18.951	E	4				13	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.5 (PDG).
07	19	54	18.5&	37.840	S	176.260	E	240				16	NORTH ISLAND, NEW ZEALAND. <WEL>.
07	19	58	48.1&	41.915	N	20.307	E	11				14	ALBANIA. <PDG>. ML 2.8 (PDG).
07	20	16	49.8&	19.776	N	100.874	W	29				6	MICHOACAN, MEXICO. <UNM>. MD 3.8 (UNM).
07	22	17	52.1&	38.450	N	0.810	W	4				8	SPAIN. <MDD>. mbLg 2.2 (MDD).
07	22	35	04.6*	10.218	S	75.480	W	33	N		0.8	7	CENTRAL PERU. Felt (III) at Oxapampa.
07	22	47	47.5*	13.095	S	167.509	E	69	D	4.9	1.3	72	VANUATU ISLANDS
07	23	15	24.7&	32.588	S	71.660	W	27				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC). Felt (II) at Papudo, Puchuncavi and Zapallar.
07	23	27	59.1&	47.300	N	0.900	W	8				12	FRANCE. <LDG>. ML 2.4 (LDG).
08	00	05	02.0&	40.930	S	175.750	E	31				8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).
08	01	51	45.2&	24.050	N	121.450	E	22		3.9		9	TAIWAN. <TAP>. Felt (III JMA) at Hua-lien.
08	01	52	31.6&	34.018	S	70.165	W	9				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
08	02	55	06.1?	55.63	N	162.11	E	33	N		1.2	5	NEAR EAST COAST OF KAMCHATKA
08	03	23	16.1	23.559	S	179.837	W	562	D	4.9	0.9	182	SOUTH OF FIJI ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:23:18.5; Lat 23.74 S; Lon 179.80 W; Dep 592.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.51, Plg=7, Azm=343; (N) Val=0.33, Plg=24, Azm=250; (P) Val=-9.84, Plg=65, Azm=87; Best double couple: Mo=9.7*10**16 Nm; NP1: Strike=98, Dip=44, Slip=-54; NP2: Strike=232, Dip=56, Slip=-120.
08	03	35	11.8&	33.835	S	70.591	W	94				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
08	04	24	46.3&	32.190	S	71.812	W	15				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
08	05	09	48.9	21.054	S	174.495	W	33	N	5.6 5.5	1.0	151	TONGA ISLANDS. Mw 5.9 (HRV), 5.7 (GS). Moment Tensor (GS): Dep 16; Principal axes (scale 10**17 Nm): (T) Val=3.53, Plg=63, Azm=286; (N) Val=0.12, Plg=19, Azm=60; (P) Val=-3.65, Plg=18, Azm=157; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=274, Dip=32, Slip=128; NP2: Strike=51, Dip=65, Slip=69. Centroid, Moment Tensor (HRV): Centroid origin time 05:09:53.0; Lat 21.27 S; Lon 173.80 W; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.45, Plg=69, Azm=304; (N) Val=0.62, Plg=5, Azm=200; (P) Val=-7.06, Plg=20, Azm=109; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=189, Dip=25, Slip=78; NP2: Strike=23, Dip=66, Slip=96.
08	05	40	43.2&	42.326	N	18.960	E	6				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
08	05	58	18.2	15.210	N	91.694	W	33	N	4.3	1.3	32	MEXICO-GUATEMALA BORDER REGION
08	07	11	39.8*	1.383	N	124.714	E	152		4.8	1.0	22	MINAHASSA PENINSULA, SULAWESI
08	08	20	50.0&	38.993	N	27.907	E	9				5	TURKEY. <ISK>. MD 3.1 (ISK).
08	09	59	13.6?	1.71	N	97.47	E	33	N	4.4	0.7	8	NORTHERN SUMATERA, INDONESIA
08	10	49	37.9	10.853	S	165.014	E	33	N	5.2 4.8	1.1	49	SANTA CRUZ ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:49:45.5; Lat 10.85 S Fix; Lon 165.01 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.89, Plg=42, Azm=109; (N) Val=-0.68, Plg=42, Azm=326; (P) Val=-6.20, Plg=20, Azm=217; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=262, Dip=45, Slip=19; NP2: Strike=158, Dip=77, Slip=133.

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08  11 22 43.3? 31.18  S   68.38  W  100 G          1.2   12  SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
08  11 31 39.8& 8.322 N   84.736 W   10              6   OFF COAST OF COSTA RICA. <UPA>. MD 4.1 (UPA).
08  11 43 26.8* 16.053 S  174.262 W  200 G  4.7  0.8   19  TONGA ISLANDS
08  12 17 17.0& 44.750 N  110.940 W    5              6   YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 2.9 (SLC).
08  12 36 51.4& 62.592 N  152.043 W    0             11   CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.9 (PMR).
08  12 43 07.7  21.786 S   68.804 W  109 D  4.5  1.1   30  CHILE-BOLIVIA BORDER REGION. Felt (III) at Calama,
                                                           Chuquicamata, Maria Elena and Quillagua, Chile.
08  12 59 25.0& 33.675 S   70.277 W  107              12   CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
08  13 01 52.7& 37.660 N    6.250 W    0 G            8   SPAIN. <MDD>. mbLg 2.2 (MDD).
08  14 27 30.9? 22.78  N  143.57  E  150 G          1.3   10  VOLCANO ISLANDS REGION
08  16 53 00.6& 42.160 N    8.150 W    0 G            4   SPAIN. <MDD>. mbLg 2.5 (MDD).
08  17 05 51.6& 32.926 S   70.321 W  100             10   CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
08  17 29 51.5* 23.297 N  121.066 E   33 N  3.9  1.1    9   TAIWAN. Felt (III JMA) in the epicentral area and (II JMA)
                                                           at Chia-i.
08  17 32 13.9*  1.915 S  101.054 E   71 *  4.4  0.7   20  SOUTHERN SUMATERA, INDONESIA
08  17 37 46.4  25.093 N  109.519 W   10 G  4.9 4.5 0.9   68  GULF OF CALIFORNIA. Mw 5.2 (HRV).
                                                           Centroid, Moment Tensor (HRV): Centroid origin time
                                                            17:37:50.1; Lat 25.42 N; Lon 109.47 W; Dep 15.0 Fix; Half-
                                                            duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                            Val=5.74, Plg=18, Azm=73; (N) Val=2.93, Plg=47, Azm=323;
                                                            (P) Val=-8.67, Plg=37, Azm=178; Best double couple:
                                                            Mo=7.2*10**16 Nm; NP1: Strike=209, Dip=50, Slip=-16; NP2:
                                                            Strike=310, Dip=78, Slip=-138.
08  17 40 06.8? 57.20  S   25.90  W   33 N  4.6  1.3   10  SOUTH SANDWICH ISLANDS REGION
08  17 58 11.0& 37.360 N  117.110 W    6             23   CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 4.1 (REN). ML
                                                            3.6 (PAS).
08  18 29 41.0& 37.360 N  117.100 W    5             25   CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.5 (REN). ML
                                                            3.5 (PAS).
08  20 12 03.2& 32.327 S   72.119 W   29              9   OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
08  20 29 44.9* 16.397 S  177.866 E   33 N  4.7 4.4 0.9   25  FIJI ISLANDS
08  20 39 20.4* 27.267 N  140.466 E  453 *  4.3  0.6   13  BONIN ISLANDS REGION
08  21 14 42.8* 20.114 N  144.932 E   33 N  4.6  1.0   18  MARIANA ISLANDS
08  21 25 04.3& 40.760 S  174.600 E   52              9   COOK STRAIT, NEW ZEALAND. <WEL>.
08  21 59 42.5& 40.820 S  174.600 E   42              7   COOK STRAIT, NEW ZEALAND. <WEL>.
08  22 13 16.6  21.890 S  176.717 W  184 D  5.4  0.9  154  FIJI ISLANDS REGION. Mw 5.6 (GS), 5.6 (HRV).
                                                           Moment Tensor (GS): Dep 182; Principal axes (scale 10**17
                                                            Nm): (T) Val=2.77, Plg=47, Azm=106; (N) Val=-0.19, Plg=3,
                                                            Azm=12; (P) Val=-2.57, Plg=42, Azm=280; Best double couple:
                                                            Mo=2.7*10**17 Nm; NP1: Strike=322, Dip=4, Slip=39; NP2:
                                                            Strike=192, Dip=88, Slip=93.
                                                           Centroid, Moment Tensor (HRV): Centroid origin time
                                                            22:13:19.4; Lat 21.77 S; Lon 176.35 W; Dep 184.0; Half-
                                                            duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
                                                            Val=2.53, Plg=49, Azm=120; (N) Val=0.05, Plg=17, Azm=9; (P)
                                                            Val=-2.59, Plg=36, Azm=267; Best double couple:
                                                            Mo=2.6*10**17 Nm; NP1: Strike=303, Dip=18, Slip=23; NP2:
                                                            Strike=191, Dip=83, Slip=107.
08  23 03 51.3*  6.770 N   73.299 W  176 *  3.8  1.4   17  NORTHERN COLOMBIA
08  23 07 05.9& 44.662 N    7.167 E   10             12   NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
08  23 07 37.6& 43.077 N   18.976 E    7              8   NORTHWESTERN BALKAN REGION. <PDG>. MD 1.8 (PDG).
09  00 48 43.0  23.906 N  121.648 E   33 N  4.1  0.7   15  TAIWAN. Felt (III JMA) at Hua-lien.
09  01 24 07.3  46.029 N   14.783 E   10 G       0.8   16  NORTHWESTERN BALKAN REGION. ML 3.0 (VIE), 2.6 (LJU), 2.5
                                                            (TRI). Felt (IV) at Gabrovka and Javorje, Slovenia.
09  01 39 45.1* 26.398 N   91.926 E   41 D  4.2  1.0   14  NORTHEASTERN INDIA
09  03 58 10.7  23.501 N  121.135 E   33 N  4.5  0.9   21  TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at
                                                            Hua-lien and (I JMA) at Chia-i.
09  04 00 45.2& 34.329 S   72.420 W   33             12   NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
09  05 36 19.4& 35.244 S   70.555 W  177             13   CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
09  06 09 46.5& 60.054 N  152.887 W  103    4.4      42   SOUTHERN ALASKA. <AEIC>. Felt at Anchorage, Eagle River,
                                                            Homer, Palmer and Seward.
09  06 57 21.0? 24.32  N  120.97  E   33 N  4.0  0.9    4   TAIWAN. Felt (IV JMA) in the epicentral area, (II JMA) at
                                                            Tai-chung and (I JMA) at Hua-lien.
09  07 31 24.9& 38.320 N    2.130 W    0 G            18   SPAIN. <MDD>. mbLg 2.6 (MDD).
09  08 04 50.8* 11.559 S  117.779 E   33 N  3.8  0.9    6   SOUTH OF SUMBAWA, INDONESIA
09  08 06 50.0   9.348 S   78.932 W   51 D  4.8  0.8   45   NEAR COAST OF NORTHERN PERU. Felt (III) at Casma and
                                                            Chimbote.
09  09 02 48.1* 33.836 S  179.044 W   33 N  4.8  1.0   24   SOUTH OF KERMADEC ISLANDS
09  09 19 26.3  18.925 N  121.284 E   33 N  4.4  1.1   27   LUZON, PHILIPPINE ISLANDS
09  09 45 54.1* 34.159 S  179.254 W   33 N  4.5  1.0   19   SOUTH OF KERMADEC ISLANDS
09  09 49 34.5* 33.963 S  179.142 W   33 N  4.8 4.2 1.4   20   SOUTH OF KERMADEC ISLANDS
09  09 54 45.4*  6.830 S   12.528 W   10 G  4.6 4.5 1.3   27   ASCENSION ISLAND REGION
09  10 31 11.0  38.234 N   22.415 E    5 G  4.1  1.2   40   GREECE
09  11 03 37.8% 45.601 N   26.566 E  100 G       0.8    7   ROMANIA
09  11 46 14.3& 43.030 N    0.620 W    2 G            4   PYRENEES. <STR>. ML 2.2 (STR).
09  12 02 52.0&  5.530 N   74.550 W   30             18   COLOMBIA. <RSNC>. ML 4.3 (RSNC).
09  13 57 48.6& 59.027 N  151.446 W   46             14   KENAI PENINSULA, ALASKA. <AEIC>. ML 3.9 (AEIC), 3.8 (PMR).
                                                            Felt at Homer and Seward.
09  14 03 30.9* 20.686 S  177.787 W  300 G  4.2  1.0   18   FIJI ISLANDS REGION
09  14 11 25.8? 56.38  S  144.22  W   10 G  4.5 4.7 1.1    9   PACIFIC-ANTARCTIC RIDGE. Mw 5.4 (HRV).
                                                           Centroid, Moment Tensor (HRV): Centroid origin time
                                                            14:11:31.3; Lat 56.25 S; Lon 143.36 W; Dep 15.0 Fix; Half-
                                                            duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                            Val=1.33, Plg=8, Azm=343; (N) Val=-0.03, Plg=75, Azm=221;
                                                            (P) Val=-1.30, Plg=13, Azm=75; Best double couple:
                                                            Mo=1.3*10**17 Nm; NP1: Strike=119, Dip=75, Slip=-3; NP2:
                                                            Strike=210, Dip=87, Slip=-165.
09  16 21 05.4& 33.244 S   72.194 W    8             14   OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
09  16 25 03.5*  6.998 S   12.842 W   10 G  4.6 4.3 1.0   26   ASCENSION ISLAND REGION
09  17 40 15.2* 37.299 N  117.298 W    5 G       1.3    6   CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
09  18 31 53.6*  5.896 S  153.728 E   33 N  4.4  0.8    7   NEW IRELAND REGION, P.N.G.
09  19 21 51.3  49.658 N  156.520 E   64    4.4  1.0   52   KURIL ISLANDS
09  19 25 27.8& 36.980 N    4.380 W   15             7   STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
09  21 04 47.9  49.999 N   18.452 E    5 G       0.9    8   CZECH AND SLOVAK REPUBLICS. ML 3.2 (VIE), 2.9 (CLL).
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09  21 08 59.6  29.340 N  112.983 W   10 G  4.9 4.7  1.2   57  GULF OF CALIFORNIA
09  22 24 04.2? 47.22  N  153.54  E  121 ?  4.0       1.4   20  KURIL ISLANDS
09  22 46 26.9& 42.972 N   20.407 E   11                     10  NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
09  22 54 15.4& 37.060 N    4.370 W   11                      5  SPAIN. <MDD>. mbLg 2.0 (MDD).
09  23 58 12.9  46.248 N   13.663 E   10 G          0.7     6  AUSTRIA. ML 2.6 (VIE).
10  01 28 04.9  15.459 S  173.233 W   33 N  5.0 4.8  0.9   119  TONGA ISLANDS. Mw 5.2 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                01:28:14.9; Lat 15.39 S; Lon 173.16 W; Dep 17.7; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=6.44, Plg=41, Azm=208; (N) Val=0.81, Plg=26, Azm=323;
                                                                (P) Val=-7.24, Plg=38, Azm=75; Best double couple:
                                                                Mo=6.8*10**16 Nm; NP1: Strike=229, Dip=26, Slip=177; NP2:
                                                                Strike=322, Dip=89, Slip=64.
10  01 43 15.0* 18.500 S  177.995 W  450 G          1.0    11  FIJI ISLANDS REGION
10  01 54 58.8?  6.18  S  130.63  E  130 ?  4.3     0.9     8  BANDA SEA
10  02 07 08.7& 42.800 N    1.200 E   13                      8  PYRENEES. <LDG>. ML 2.2 (STR), 1.6 (LDG).
10  02 33 40.6& 43.100 N    0.300 W    3                     24  PYRENEES. <LDG>. ML 2.7 (LDG), 2.4 (STR).
10  02 52 46.0& 48.780 N  129.650 W   10 G  4.4             53  VANCOUVER ISLAND REGION. <PGC-P>. ML 3.7 (PGC).
10  03 06 31.5& 62.794 N  148.956 W   55    4.2             25  CENTRAL ALASKA. <AEIC>. ML 3.6 (AEIC), 4.2 (PMR).
10  03 07 07.0& 37.400 N  117.070 W    6                      4  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
10  04 08 18.3  45.992 N   14.802 E   10 G          0.2     6  NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
10  05 20 18.6  27.538 N   97.399 E   72 *  4.5     0.8    43  MYANMAR-INDIA BORDER REGION
10  07 02 23.8* 10.528 S  164.782 E   33 N  4.9     0.8    17  SANTA CRUZ ISLANDS REGION
10  07 03 04.8   1.990 S  134.279 E   33 N  5.8 5.8  1.1   153  IRIAN JAYA REGION, INDONESIA. Mw 6.1 (HRV), 6.0 (GS). Me 6.2
                                                                (GS). Felt (IV) at Manokwari.
                                                               Broadband Source Parameters (GS): Dep 10; NP1: Strike=70,
                                                                Dip=70, Slip=-35; NP2: Strike=173, Dip=57, Slip=-156;
                                                                Radiated energy 4.0*10**13 Nm.
                                                               Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm):
                                                                (T) Val=9.68, Plg=24, Azm=143; (N) Val=0.10, Plg=2, Azm=52;
                                                                (P) Val=-9.78, Plg=66, Azm=318; Best double couple:
                                                                Mo=9.7*10**17 Nm; NP1: Strike=237, Dip=21, Slip=-85; NP2:
                                                                Strike=51, Dip=69, Slip=-92.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                07:03:08.4; Lat 1.89 S; Lon 134.24 E; Dep 15.0 Bdy; Half-
                                                                duration 2.5 sec; Principal axes (scale 10**18 Nm): (T)
                                                                Val=1.53, Plg=14, Azm=122; (N) Val=-0.13, Plg=11, Azm=215;
                                                                (P) Val=-1.41, Plg=73, Azm=342; Best double couple:
                                                                Mo=1.5*10**18 Nm; NP1: Strike=197, Dip=33, Slip=-110; NP2:
                                                                Strike=41, Dip=59, Slip=-78.
10  07 07 29.9*  2.080 S  134.290 E   33 N  5.2       1.1    32  IRIAN JAYA REGION, INDONESIA
10  07 21 16.3*  2.180 S  133.980 E   33 N  4.5       1.4    12  IRIAN JAYA REGION, INDONESIA
10  07 22 27.6* 56.565 S   24.069 W   33 N  5.2       0.8    36  SOUTH SANDWICH ISLANDS REGION
10  07 43 37.5*  2.008 S  134.182 E   33 N  4.4       1.2    17  IRIAN JAYA REGION, INDONESIA
10  07 46 37.8* 33.383 N   90.532 E   33 N  3.6       1.1     8  QINGHAI, CHINA
10  07 58 03.7& 43.000 N    0.200 E    2                      7  FRANCE. <LDG>. ML 2.1 (STR), 1.8 (LDG).
10  08 19 05.1   2.117 S  134.275 E   33 N  4.9       1.1    34  IRIAN JAYA REGION, INDONESIA
10  08 57 39.6? 11.45  S  165.41  E   33 N  4.6       0.9    10  SANTA CRUZ ISLANDS
10  09 15 40.3  36.450 N   70.642 E  195 *  4.5       1.2    29  HINDU KUSH REGION, AFGHANISTAN
10  10 33 59.0& 31.479 N  116.428 W    6 G                    8  BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 3.9 (PAS). MD 3.5 (ECX).
10  10 44 52.6& 32.039 S  119.895 E   10 G          0.5     5  WESTERN AUSTRALIA
10  10 53 12.2& 30.909 S  117.965 E   10 G          0.2     5  WESTERN AUSTRALIA
10  11 00 24.8& 40.676 N   29.063 E    6                      4  TURKEY. <ISK>. MD 2.7 (ISK).
10  11 39 14.7* 23.999 N  121.746 E   33 N  3.9       1.0     8  TAIWAN. Felt (III JMA) at Hua-lien.
10  12 04 11.8  26.535 N  128.611 E   33 N  4.8 5.0  1.2    51  RYUKYU ISLANDS. Felt (I JMA) in northern Okinawa.
10  12 29 10.7   4.471 S  144.615 E  171    4.5       0.9    24  NEAR N COAST OF NEW GUINEA, PNG.
10  13 10 55.0  35.643 N  141.836 E   52 *  4.5       0.9    38  NEAR EAST COAST OF HONSHU, JAPAN
10  13 36 26.5* 48.987 N  129.361 W   10 G  3.9       1.0    18  VANCOUVER ISLAND REGION
10  13 41 03.5& 62.188 N  151.098 W   88                     11  CENTRAL ALASKA. <AEIC>.
10  14 46 55.1& 40.579 N   28.963 E    5                      6  TURKEY. <ISK>. MD 2.7 (ISK).
10  15 35 51.0& 42.672 N   13.189 E   10 G  4.7             176  CENTRAL ITALY. <ROM>. ML 4.5 (VIE), 4.4 (TRI), 4.2 (PDG),
                                                                4.1 (FUR), 4.0 (LDG).
10  15 46 14.0& 37.360 N  117.110 W    4                      8  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.6 (REN).
10  15 56 14.4& 37.450 N    4.110 W   11                      5  SPAIN. <MDD>. mbLg 1.4 (MDD).
10  16 07 55.5  45.899 N  154.447 E   33 N  4.7       1.0    39  EAST OF KURIL ISLANDS
10  16 11 52.5   6.205 S  146.404 E  133    4.7       0.7    35  EASTERN NEW GUINEA REG., P.N.G.
10  16 44 04.0& 38.528 N  122.286 W    6                      7  NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).
10  16 54 02.7& 40.823 N   27.577 E    6                      9  TURKEY. <ISK>. MD 2.8 (ISK).
10  17 36 44.9& 40.641 N   29.101 E    6                      4  TURKEY. <ISK>. MD 2.5 (ISK).
10  17 48 42.4* 16.014 N   94.922 W   68 *  4.3       1.1    39  OAXACA, MEXICO. MD 4.6 (UNM).
10  17 51 38.1*  7.658 S  128.095 E   33 N  4.1       1.2    10  BANDA SEA
10  19 27 12.8   2.048 S  134.202 E   33 N  4.6       1.1    19  IRIAN JAYA REGION, INDONESIA
10  19 52 20.7  37.834 N   19.889 E   44 *  3.7       1.4    33  IONIAN SEA
10  19 53 48.0& 43.150 N  120.400 W    6                     23  OREGON. <SEA-P>. MD 2.6 (SEA).
10  20 54 08.1& 41.120 S  174.830 E   28                      9  COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
10  21 35 00.7  36.223 N  141.851 E   33 N  3.9       1.0    23  NEAR EAST COAST OF HONSHU, JAPAN
10  21 48 05.1& 60.983 N  150.952 W   26                      5  KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
11  00 37 41.9& 36.790 N    3.040 W   17                      9  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
11  01 35 39.2&  9.000 N   82.822 W   20 G                   16  PANAMA-COSTA RICA BORDER REGION. <CASC>. MD 4.2 (UPA), 4.0
                                                                (CASC).
11  01 42 16.5& 32.385 S   69.690 W  137                     10  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.7 (GUC).
11  01 54 53.5* 74.299 N   11.052 E   10 G  4.5       1.3    13  NORWEGIAN SEA
11  02 15 32.3  11.100 S  112.445 E   33 N  4.9       1.0    34  SOUTH OF JAWA, INDONESIA
11  02 47 47.1& 40.667 N   29.048 E    0                     24  TURKEY. <ISK>. MD 3.9 (ISK).
11  02 55 44.9& 43.094 N   18.952 E    7                     14  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.9 (PDG).
11  03 23 42.7& 40.380 S  174.350 E   19                      6  COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.3 (WEL).
11  03 57 07.1  11.831 N   86.443 W   97    4.1       1.0    41  NEAR COAST OF NICARAGUA. MD 4.6 (UPA), 4.2 (CASC).
11  04 00 47.9* 23.852 N  121.530 E   33 N  3.9       1.0     8  TAIWAN. Felt (III JMA) at Hua-lien.
11  04 05 25.2& 59.966 N  148.357 W   42                     10  KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC), 3.3 (PMR).
11  04 59 11.4& 40.773 N   31.091 E    2                      7  TURKEY. <ISK>. MD 3.1 (ISK).
11  05 18 15.8& 41.130 S  174.830 E   27                      9  COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.7 (WEL).
11  07 51 20.7& 37.120 N    4.160 W    0 G                    7  SPAIN. <MDD>. mbLg 2.0 (MDD).
11  08 23 07.2& 32.633 S   71.783 W   13                      9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
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11	08	55	35.5	5.540	S	154.253	E	170	D	5.0	0.9	90	SOLOMON ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:55:37.7; Lat 5.25 S; Lon 154.51 E; Dep 150.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=26, Azm=99; (N) Val=0.01, Plg=50, Azm=224; (P) Val=-1.21, Plg=28, Azm=354; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=137, Dip=50, Slip=-178; NP2: Strike=46, Dip=88, Slip=-40.
11	09	22	36.4	11.702	N	86.497	W	91	D	4.0	1.3	31	NEAR COAST OF NICARAGUA. MD 4.2 (CASC).
11	09	46	39.1&	34.010	S	70.346	W	112				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
11	10	25	20.7?	5.64	S	148.58	E	146	*	4.5	1.2	13	NEW BRITAIN REGION, P.N.G.
11	10	41	28.3&	36.690	N	2.660	W	3				11	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
11	10	55	47.4	63.509	N	151.313	W	10	G		0.8	8	CENTRAL ALASKA. ML 3.9 (PMR).
11	11	55	37.3*	11.815	S	166.435	E	33	N	4.5	0.9	15	SANTA CRUZ ISLANDS
11	12	27	08.6*	18.693	S	65.462	E	10	G	4.6	1.0	17	MAURITIUS-REUNION REGION
11	12	40	16.0&	33.537	S	71.317	W	57				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (III) at Curacavi and (II) at Melipilla, Santiago and Talagante.
11	12	54	40.4*	31.245	S	68.721	W	123	?		1.0	19	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
11	13	22	39.6*	18.577	S	65.570	E	10	G	4.4	1.0	19	MAURITIUS-REUNION REGION
11	13	31	47.1	30.949	S	177.310	W	33	N	4.7	0.8	25	KERMADEC ISLANDS, NEW ZEALAND
11	13	41	55.3&	43.045	N	17.556	E	5				15	NORTHWESTERN BALKAN REGION. <PDG>. ML 3.1 (PDG).
11	13	59	27.5&	43.100	N	0.300	E	2				7	FRANCE. <LDG>. ML 2.2 (STR), 2.1 (LDG).
11	14	24	20.4*	26.961	S	26.667	E	10	G	4.7	1.2	12	REPUBLIC OF SOUTH AFRICA
11	14	46	08.8&	43.000	N	0.300	E	2				4	FRANCE. <LDG>. ML 2.1 (LDG).
11	15	25	52.2?	30.85	S	177.31	W	33	N	4.0	0.6	8	KERMADEC ISLANDS, NEW ZEALAND
11	16	01	52.3&	46.000	N	2.500	E	2				12	FRANCE. <LDG>. ML 2.3 (LDG).
11	16	02	46.7*	15.018	S	178.718	W	400	G	4.3	0.7	12	FIJI ISLANDS REGION
11	16	45	42.1	43.594	N	127.843	W	10	G		0.6	45	OFF COAST OF OREGON
11	17	03	32.9&	39.150	S	174.750	E	12				8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL).
11	17	07	23.2*	3.937	N	128.111	E	140	?		1.0	10	NORTH OF HALMAHERA, INDONESIA
11	17	58	21.7&	39.160	S	175.690	E	82				9	NORTH ISLAND, NEW ZEALAND. <WEL>.
11	19	03	05.2*	28.336	N	142.554	E	33	N	4.6	1.0	10	BONIN ISLANDS REGION
11	19	10	15.7*	23.867	N	121.417	E	33	N	4.3	1.5	16	TAIWAN. ML 4.7 (TAP). Felt (IV JMA) in the epicentral area and (III JMA) at Hua-lien.
11	20	11	34.4*	15.315	N	92.947	W	76	D		1.3	18	MEXICO-GUATEMALA BORDER REGION. MD 4.4 (UNM).
11	20	24	09.6&	44.661	N	7.689	E	70				7	NORTHERN ITALY. <GEN>.
11	20	30	09.0*	14.924	S	167.625	E	33	N	5.2	1.1	82	VANUATU ISLANDS
11	20	39	31.1	28.604	N	31.567	E	10	G	4.5	1.0	61	EGYPT. ML 4.9 (GII). Felt in the Cairo area.
11	21	16	10.4*	2.188	S	134.284	E	33	N	3.7	0.8	8	IRIAN JAYA REGION, INDONESIA
11	21	18	27.3	10.854	S	164.801	E	33	N	5.0 4.5	1.1	39	SANTA CRUZ ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:18:31.9; Lat 11.09 S; Lon 164.81 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=5.27, Plg=28, Azm=111; (N) Val=2.31, Plg=62, Azm=306; (P) Val=-7.58, Plg=6, Azm=205; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=251, Dip=66, Slip=16; NP2: Strike=155, Dip=75, Slip=155.
11	21	30	56.3*	10.863	S	164.956	E	33	N	4.2	1.2	9	SANTA CRUZ ISLANDS REGION
11	21	43	04.0&	38.270	N	108.880	W	3				10	COLORADO. <SLC-P>. ML 2.9 (SLC).
11	22	14	19.0*	23.634	N	121.246	E	33	N		0.9	8	TAIWAN
11	22	43	15.0&	38.760	N	112.020	W	2				37	UTAH. <SLC-P>. ML 3.9 (SLC). Felt at Richfield.
11	22	46	41.5&	43.100	N	0.300	W	2				7	PYRENEES. <LDG>. ML 2.2 (STR), 1.7 (LDG).
11	23	46	38.3*	21.414	S	66.850	W	240			0.8	10	SOUTHERN BOLIVIA
11	23	47	18.7*	6.213	S	130.351	E	135	*	4.4	1.4	15	BANDA SEA
11	23	47	58.1*	6.690	S	129.632	E	134	?	4.2	0.5	9	BANDA SEA
12	00	17	05.8*	6.271	N	124.169	E	517	*	4.3	1.5	14	MINDANAO, PHILIPPINE ISLANDS
12	00	21	22.5	7.068	S	127.660	E	285		4.6	0.9	28	BANDA SEA
12	01	37	30.5	47.303	N	10.903	E	10	G		1.1	34	AUSTRIA. ML 2.6 (LDG), 2.6 (STR), 2.5 (FBB), 2.4 (VIE), 2.3 (FUR). Felt (IV) at Haiming.
12	01	38	30.2	47.239	N	10.918	E	10	G		0.5	7	AUSTRIA. ML 2.2 (FUR), 1.9 (VIE).
12	03	03	13.8	49.821	N	18.453	E	10	G		0.8	8	CZECH AND SLOVAK REPUBLICS. ML 2.8 (VIE).
12	03	38	39.4*	10.892	S	164.776	E	33	N	4.6	1.2	18	SANTA CRUZ ISLANDS REGION
12	04	38	30.3*	51.332	N	169.678	W	33	N	4.5	1.0	20	FOX ISLANDS, ALEUTIAN ISLANDS
12	04	51	49.4	11.122	N	139.092	E	33	N	5.2 4.5	1.1	92	WESTERN CAROLINE ISLANDS
12	05	06	43.0	10.810	S	164.889	E	33	N	5.0	1.0	49	SANTA CRUZ ISLANDS REGION
12	05	58	32.0&	58.122	N	154.622	W	88				6	ALASKA PENINSULA. <AEIC>.
12	06	00	29.8*	17.992	S	175.613	W	264	D	4.4	1.3	26	TONGA ISLANDS
12	06	24	22.7*	10.910	S	164.984	E	33	N	4.5	1.4	16	SANTA CRUZ ISLANDS REGION
12	08	38	42.7&	32.621	S	71.691	W	22				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
12	09	13	01.9&	37.820	N	2.520	W	0	G			12	SPAIN. <MDD>. mbLg 2.4 (MDD).
12	10	51	08.0?	21.71	S	68.82	E	10	G	4.6	1.4	7	MID-INDIAN RIDGE
12	11	31	02.6*	9.008	N	84.134	W	33	N	3.6	1.2	12	COSTA RICA
12	11	57	42.8*	21.696	S	68.883	E	10	G	4.3	0.8	9	MID-INDIAN RIDGE
12	13	09	10.8	3.597	S	79.455	W	78	D	4.9	1.0	45	NEAR COAST OF ECUADOR
12	13	23	23.7	43.099	N	18.964	E	10	G	4.0	1.0	52	NORTHWESTERN BALKAN REGION. MD 3.8 (PDG). ML 3.7 (ROM).
12	13	27	45.6	21.116	S	174.489	W	33	N	5.4 5.3	0.9	165	TONGA ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:27:49.4; Lat 21.35 S Fix; Lon 173.77 W Fix; Dep 15.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.20, Plg=72, Azm=298; (N) Val=0.39, Plg=0, Azm=206; (P) Val=-3.59, Plg=18, Azm=116; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=205, Dip=27, Slip=89; NP2: Strike=26, Dip=63, Slip=91.
12	13	31	04.8*	38.219	N	142.210	E	33	N		0.7	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in northeastern Miyagi Prefecture.
12	14	25	43.2&	37.850	N	3.390	W	4				8	SPAIN. <MDD>. mbLg 1.5 (MDD).
12	14	46	33.2&	37.487	N	118.840	W	4				6	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.2 (BRK).
12	14	49	16.2&	44.120	N	6.990	E	1	G			27	FRANCE. <STR>. ML 1.9 (STR), 1.9 (LDG).
12	15	14	05.0*	27.403	N	138.770	E	429	?	3.9	1.3	13	BONIN ISLANDS REGION
12	15	41	16.0	39.136	N	48.314	E	66		4.7	0.9	71	ARMENIA-AZERBAIJAN-IRAN BORD REG. Felt at Astara, Iran.
12	15	46	01.5	3.407	S	150.948	E	33	N	4.9 4.7	1.2	36	NEW IRELAND REGION, P.N.G. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

15:46:06.9; Lat 3.22 S; Lon 151.16 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.98, Plg=17, Azm=325; (N) Val=-0.12, Plg=72, Azm=123; (P) Val=-1.86, Plg=6, Azm=233; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=8, Dip=73, Slip=172; NP2: Strike=100, Dip=83, Slip=17.

12	17	13	45.3&	38.350	N	2.200	W	9				7	SPAIN. <MDD>. mbLg 1.7 (MDD).
12	19	10	55.5&	45.400	N	0.400	E	2				10	FRANCE. <LDG>. ML 2.3 (LDG).
12	23	06	25.0&	36.730	N	6.840	W	15				16	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
12	23	12	39.8&	36.730	N	6.810	W	15				32	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
12	23	48	33.6	45.541	N	26.416	E	150	G		0.5	22	ROMANIA
13	01	04	22.9&	37.875	N	122.238	W	10				6	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.9 (BRK). Felt at Berkeley, El Cerrito, Oakland and Richmond.
13	01	33	40.1	54.657	N	161.189	W	30	G	6.0 6.2	1.0	446	ALASKA PENINSULA. Mw 6.4 (HRV), 6.2 (GS). Me 5.9 (GS). ML 6.0 (PMR). Felt (IV) at Chignik Lagoon, Cold Bay, Ivanof Bay, Perryville, and Sand Point.

Broadband Source Parameters (GS): Dep 30; NP1: Strike=55, Dip=75, Slip=90; NP2: Strike=235, Dip=15, Slip=90; Radiated energy 1.5*10**13 Nm. Two events about 4 seconds apart. Depth based on first event.

Moment Tensor (GS): Dep 32; Principal axes (scale 10**18 Nm): (T) Val=2.59, Plg=64, Azm=318; (N) Val=-0.04, Plg=2, Azm=53; (P) Val=-2.55, Plg=26, Azm=144; Best double couple: Mo=2.6*10**18 Nm; NP1: Strike=240, Dip=19, Slip=97; NP2: Strike=52, Dip=71, Slip=87.

Centroid, Moment Tensor (HRV): Centroid origin time 01:33:48.2; Lat 54.48 N; Lon 160.75 W; Dep 34.0 Bdy; Half-duration 3.7 sec; Principal axes (scale 10**18 Nm): (T) Val=4.94, Plg=65, Azm=320; (N) Val=0.28, Plg=4, Azm=59; (P) Val=-5.22, Plg=25, Azm=151; Best double couple: Mo=5.1*10**18 Nm; NP1: Strike=249, Dip=20, Slip=101; NP2: Strike=57, Dip=70, Slip=86.

Scalar Moment (PPT): Mo=5.5*10**18 Nm.

13	01	39	50.7	23.870	N	121.364	E	33	N	5.3	0.8	120	TAIWAN. Felt (IV JMA) in southwestern I-lan County, (III JMA) at Hua-lien, (II JMA) at Taipei and (I JMA) at Chia-i, I-lan and Tai-chung.
13	02	48	38.0*	54.586	N	160.773	W	33	N	3.4	1.2	18	ALASKA PENINSULA. ML 4.0 (PMR).
13	03	06	12.5&	8.827	N	84.246	W	65				6	OFF COAST OF COSTA RICA. <UPA>. MD 4.3 (UPA).
13	03	18	35.0&	37.193	N	27.883	E	11		3.6		14	TURKEY. <ISK>. MD 3.9 (ISK).
13	03	19	30.6*	13.797	N	125.247	E	33	N		1.3	11	PHILIPPINE ISLANDS REGION
13	04	03	56.0	75.895	N	10.587	E	10	G	4.5	1.2	35	SVALBARD REGION
13	04	56	10.2&	33.211	N	115.981	W	10				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	05	10	00.3*	2.291	S	134.400	E	10	G	4.5	1.4	13	IRIAN JAYA REGION, INDONESIA
13	06	24	17.3&	59.761	N	150.866	W	38				5	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
13	06	38	57.1*	8.355	N	82.524	W	10	G	4.4	1.2	40	PANAMA-COSTA RICA BORDER REGION. MD 4.6 (CASC).
13	08	46	44.8*	36.330	N	71.011	E	200	?	4.4	0.6	14	AFGHANISTAN-TAJIKISTAN BORD REG.
13	08	52	00.7&	32.481	S	70.752	W	70				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
13	09	05	21.0&	44.750	N	110.940	W	6				5	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 2.9 (SLC).
13	09	21	09.0&	44.750	N	110.940	W	6				18	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.1 (SLC), 3.0 (BUT).
13	09	31	18.6	47.149	N	152.625	E	121	D	4.5	1.0	49	KURIL ISLANDS
13	09	58	45.0&	44.750	N	110.940	W	6				39	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.1 (SLC).
13	10	00	39.5	2.512	S	139.001	E	33	N	4.4	1.1	26	NEAR NORTH COAST OF IRIAN JAYA
13	10	09	00.0&	42.550	N	71.440	W	2				5	SOUTHERN NEW ENGLAND. <WES>. MD 2.7 (WES). Felt at Acton, Berlin, Bolton, Boxborough, Chelmsford, Hudson, Littleton, Lowell, Marlborough, Maynard, Northborough, Shrewsbury, Southborough, Sterling, Sudbury, Westborough and Westford, Massachusetts.
13	12	14	04.1*	17.028	S	174.455	W	150	G	4.1	0.9	28	TONGA ISLANDS
13	12	54	10.7&	8.290	N	82.787	W	10				5	PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 4.0 (UPA).
13	13	10	56.0&	4.310	N	75.710	W	30		3.8		18	COLOMBIA. <RSNC>. ML 4.1 (RSNC). Felt at Caicedonia, Genova and Pijao.
13	13	12	28.5?	40.50	N	125.67	W	10	G		1.2	9	OFF COAST OF NORTHERN CALIFORNIA. ML 3.6 (GS).
13	13	16	06.8	6.103	S	103.531	E	46	D	4.4	1.4	31	SOUTHWEST OF SUMATERA, INDONESIA
13	13	33	49.3&	44.414	N	7.263	E	14				31	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.6 (LDG), 2.3 (STR).
13	13	41	39.7*	33.333	S	57.109	E	10	G	4.5	0.9	15	SOUTHWEST INDIAN RIDGE
13	13	57	06.4*	57.720	S	149.802	W	10	G	4.8	0.8	19	PACIFIC-ANTARCTIC RIDGE
13	15	55	32.5*	30.305	S	178.313	W	233	?	4.5	0.9	24	KERMADEC ISLANDS, NEW ZEALAND
13	16	45	40.2*	16.582	S	73.890	W	44	*	4.9	0.9	25	NEAR COAST OF PERU
13	18	12	20.2	34.665	N	27.783	E	33	N	4.3	1.0	83	EASTERN MEDITERRANEAN SEA
13	19	35	56.3&	35.997	N	120.556	W	4				12	CENTRAL CALIFORNIA. <GM-P>. ML 3.3 (GM), 3.3 (BRK), 3.2 (PAS).
13	22	24	07.1&	60.220	N	151.767	W	86				5	KENAI PENINSULA, ALASKA. <AEIC>.
13	22	53	13.6?	7.34	S	123.92	E	559	?	4.7	0.5	7	BANDA SEA
14	00	02	15.7&	35.179	S	71.297	W	95				12	CENTRAL CHILE. <GUC>.
14	00	30	25.9&	38.480	N	0.390	W	16				10	SPAIN. <MDD>. mbLg 2.0 (MDD).
14	01	24	35.6?	34.17	S	179.35	W	51	D	4.5	1.1	11	SOUTH OF KERMADEC ISLANDS
14	01	28	18.9&	32.658	S	70.506	W	97				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
14	01	39	33.0&	44.144	N	7.843	E	6				18	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.2 (LDG).
14	02	16	35.8	34.177	N	25.719	E	77	?		0.8	18	CRETE
14	02	39	47.8	23.910	S	179.744	E	524	D	4.8	0.9	84	SOUTH OF FIJI ISLANDS
14	03	33	53.5&	58.200	N	155.926	W	153				5	ALASKA PENINSULA. <AEIC>.
14	04	16	23.2?	3.51	N	98.47	E	214	?		1.0	9	NORTHERN SUMATERA, INDONESIA
14	05	28	57.0&	60.178	N	153.038	W	113				7	SOUTHERN ALASKA. <AEIC>.
14	07	02	59.1	45.903	N	15.177	E	10	G		0.2	6	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE).
14	08	28	53.9&	39.995	N	27.894	E	0				7	TURKEY. <ISK>. MD 2.7 (ISK).
14	08	29	25.0&	50.470	N	130.210	W	10	G	3.6		64	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.6 (PGC).
14	08	39	47.3	42.956	N	7.777	E	10	G		0.9	21	WESTERN MEDITERRANEAN SEA. ML 2.9 (GEN).
14	09	33	43.9	47.341	N	10.014	E	10	G		1.3	42	AUSTRIA. ML 3.0 (LDG), 2.9 (VIE), 2.8 (FBB), 2.8 (STR), 2.6 (FUR). Felt (IV) at Au.
14	10	54	23.8*	19.250	S	169.562	E	294	*	4.2	0.9	24	VANUATU ISLANDS
14	11	00	49.0	14.281	S	70.484	W	202	D	5.0	1.0	195	CENTRAL PERU. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time

11:00:54.4; Lat 14.27 S; Lon 70.40 W; Dep 194.7; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.78, Plg=7, Azm=23; (N) Val=0.13, Plg=57, Azm=123; (P) Val=-1.91, Plg=32, Azm=289; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=71, Dip=63, Slip=-161; NP2: Strike=332, Dip=73, Slip=-28.

14	11	43	40.2	5.148	S	151.263	E	174		4.8	1.0	48	NEW BRITAIN REGION, P.N.G.
14	11	57	25.6&	36.270	N	4.700	W	9				7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
14	12	44	50.1	1.656	N	126.294	E	33	N	4.8	1.1	39	NORTHERN MOLUCCA SEA
14	12	46	30.5&	59.767	N	153.474	W	117				9	SOUTHERN ALASKA. <AEIC>.
14	12	47	03.4&	44.534	N	7.252	E	14				11	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
14	13	22	25.7*	7.291	S	122.128	E	33	N		1.3	9	FLORES SEA
14	13	36	18.8	5.303	S	145.659	E	63		5.1	1.0	54	EASTERN NEW GUINEA REG., P.N.G. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:36:21.0; Lat 5.40 S; Lon 145.97 E; Dep 64.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.11, Plg=82, Azm=75; (N) Val=0.21, Plg=3, Azm=327; (P) Val=-4.32, Plg=8, Azm=236; Best double couple: Mo=4.2*10**16 Nm; NP1: Strike=323, Dip=37, Slip=86; NP2: Strike=149, Dip=53, Slip=93.
14	13	58	37.4	6.777	S	130.949	E	38	*	4.5	1.0	18	BANDA SEA
14	14	20	33.5&	40.735	N	30.404	E	0				9	TURKEY. <ISK>. MD 3.6 (ISK).
14	15	40	49.0&	44.530	N	7.290	E	8				10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
14	15	45	39.7&	34.368	S	72.139	W	38				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
14	16	46	18.9	54.639	N	160.719	W	33	N	4.5	0.9	39	ALASKA PENINSULA. ML 4.5 (PMR), 4.2 (AEIC). Felt (III) at Sand Point. Also felt at King Cove.
14	17	26	02.4*	51.399	N	151.098	E	493	?	4.1	1.0	21	SEA OF OKHOTSK
14	17	35	12.1	51.410	N	151.144	E	482	D	4.7	0.7	194	SEA OF OKHOTSK
14	18	44	30.8	46.604	N	144.594	E	363		4.6	0.8	108	SEA OF OKHOTSK
14	19	42	48.7?	38.07	S	111.64	E	10	G	4.4	1.5	13	SOUTHWEST OF AUSTRALIA
14	23	00	59.8&	62.520	N	151.352	W	83				13	CENTRAL ALASKA. <AEIC>.
14	23	11	20.3&	34.414	S	70.276	W	8				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
14	23	16	08.8&	15.815	N	97.167	W	16				8	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
14	23	48	18.9&	44.620	N	7.678	E	72				8	NORTHERN ITALY. <GEN>.
15	03	49	49.3&	62.106	N	150.653	W	52				12	CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.7 (PMR).
15	04	00	33.9*	1.959	N	127.413	E	85	*	4.4	1.0	13	HALMAHERA, INDONESIA
15	04	02	29.6&	35.029	S	70.604	W	119				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
15	04	15	40.3&	36.864	N	121.595	W	7				8	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
15	04	16	58.5&	35.890	N	1.610	W	12				30	NORTHERN ALGERIA. <MDD>. mbLg 2.7 (MDD).
15	04	58	03.8	31.502	S	68.059	W	150	G		0.8	16	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
15	06	41	54.5&	33.053	S	70.102	W	7				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
15	06	48	53.9&	44.294	N	7.292	E	6				8	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
15	07	05	30.2	18.520	N	107.071	W	33	N	4.8	1.1	62	OFF COAST OF JALISCO, MEXICO
15	07	19	11.2&	43.000	N	0.130	E	10	G			24	FRANCE. <STR>. ML 2.9 (LDG), 2.6 (STR). mbLg 2.4 (MDD).
15	07	33	01.0*	29.608	N	90.061	E	33	N	4.7	0.8	9	XIZANG
15	07	36	59.2*	14.227	S	75.503	W	55	D	4.7	1.2	25	NEAR COAST OF PERU. Felt (IV) at Ica.
15	08	29	49.9*	36.445	N	71.201	E	132	D	4.4	1.2	16	AFGHANISTAN-TAJIKISTAN BORD REG.
15	11	41	39.3?	34.00	S	179.21	W	33	N	4.5	0.7	7	SOUTH OF KERMADEC ISLANDS
15	12	12	49.4*	33.384	S	66.129	W	33	N		0.8	5	SAN LUIS PROVINCE, ARGENTINA
15	12	38	40.7&	52.358	N	6.283	W	10	G		0.6	6	EIRE
15	12	39	34.7*	17.488	S	178.714	W	550	G	4.1	0.7	16	FIJI ISLANDS REGION
15	12	58	49.9?	20.43	S	177.56	W	450	G	4.4	1.2	16	FIJI ISLANDS REGION
15	13	44	48.1&	17.479	N	100.913	W	10				17	GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
15	13	49	47.2*	42.112	N	138.129	E	272	*	3.3	1.1	15	EASTERN SEA OF JAPAN
15	14	22	43.5&	34.590	N	116.274	W	0				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
15	14	48	35.3	7.577	S	121.577	E	274	*	3.9	0.9	16	FLORES SEA
15	14	58	37.5&	18.430	N	67.942	W	126				4	MONA PASSAGE. <MPR>. MD 3.1 (MPR).
15	15	00	16.7&	36.622	N	121.228	W	6				7	CENTRAL CALIFORNIA. <GM-P>. ML 3.1 (GM), 3.2 (BRK).
15	15	01	30.9	45.831	N	149.222	E	164	D	4.9	0.8	184	KURIL ISLANDS
15	15	22	02.9*	46.298	N	153.480	E	33	N	4.1	1.2	9	KURIL ISLANDS
15	15	23	10.7&	42.286	N	18.873	E	2				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
15	16	39	35.9*	16.186	N	120.534	E	45		4.5	1.3	22	LUZON, PHILIPPINE ISLANDS
15	16	48	41.4*	3.525	N	127.898	E	170	*	4.3	1.2	18	TALAUD ISLANDS, INDONESIA
15	17	54	13.2*	6.403	S	149.229	E	55	*	4.4	0.6	7	NEW BRITAIN REGION, P.N.G.
15	17	59	34.7&	33.157	S	70.979	W	69				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
15	18	48	18.8*	23.999	N	121.565	E	33	N	4.2	1.1	17	TAIWAN. Felt (III JMA) at Hua-lien.
15	19	36	46.0&	33.279	S	71.323	W	51				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
15	20	59	17.7&	8.760	S	115.400	E	33	N			4	BALI REGION, INDONESIA. <DJA>.
15	21	43	14.8*	31.928	N	137.858	E	383	*	4.0	1.0	28	SOUTH OF HONSHU, JAPAN
15	21	53	28.2&	47.000	N	1.300	W	2				7	FRANCE. <LDG>. ML 2.1 (LDG).
15	21	54	25.0&	43.105	N	18.945	E	5				8	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
15	22	34	07.7*	43.374	N	127.428	W	10	G		0.4	49	OFF COAST OF OREGON
15	23	14	34.7*	28.325	N	53.972	E	33	N	4.3	1.0	12	SOUTHERN IRAN
16	00	17	38.7&	39.020	N	123.067	W	2				11	NEAR COAST OF NORTHERN CALIF. <GM-P>. ML 3.4 (GM), 3.4 (BRK). Felt at Ukiah.
16	01	54	06.0&	61.291	N	146.748	W	13				7	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
16	02	06	17.6&	36.890	N	4.420	W	25				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
16	02	41	04.7&	34.594	N	116.273	W	0				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	02	54	35.9	44.234	N	10.957	E	10	G		0.8	25	NORTHERN ITALY. ML 2.8 (LDG).
16	03	00	43.8*	51.105	N	15.851	E	5	G		0.9	7	POLAND. ML 3.3 (VIE).
16	03	11	05.9&	44.525	N	7.300	E	6				6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
16	03	15	38.3	45.129	S	174.645	W	10	G	5.0 5.2	1.1	43	CHATHAM ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:15:47.0; Lat 44.82 S; Lon 174.60 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=65, Azm=177; (N) Val=-0.22, Plg=25, Azm=341; (P) Val=-0.93, Plg=6, Azm=74; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=189, Dip=45, Slip=126; NP2: Strike=323, Dip=56, Slip=60.
16	03	45	19.6&	8.600	S	115.400	E	124				4	BALI REGION, INDONESIA. <DJA>.
16	04	36	11.0*	51.537	N	16.096	E	5	G		1.1	8	POLAND. ML 3.3 (VIE).
16	04	40	25.5	28.181	S	177.118	W	150	G	4.6	0.9	36	KERMADEC ISLANDS REGION
16	04	50	54.8	63.481	N	151.146	W	33	N		0.7	9	CENTRAL ALASKA. ML 3.2 (PMR).

16	05	13	49.0?	36.38	N	70.89	E	185	?	3.5		0.3	9	HINDU KUSH REGION, AFGHANISTAN
16	05	45	03.5&	48.100	N	2.300	W	3					7	FRANCE. <LDG>. ML 2.5 (LDG).
16	05	52	24.6&	44.629	N	7.608	E	7					21	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.0 (LDG), 1.9 (STR).
16	05	54	26.3&	48.100	N	2.300	W	3					6	FRANCE. <LDG>. ML 1.9 (LDG).
16	06	13	22.1&	59.880	N	151.478	W	75					5	KENAI PENINSULA, ALASKA. <AEIC>.
16	06	14	42.6&	48.100	N	2.300	W	3					6	FRANCE. <LDG>. ML 2.0 (LDG).
16	06	16	48.9&	48.100	N	2.300	W	3					7	FRANCE. <LDG>. ML 2.3 (LDG).
16	06	35	26.6&	44.229	N	7.492	E	2					9	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
16	07	26	52.5&	33.626	S	70.732	W	74					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
16	08	14	21.9	36.463	N	141.404	E	33	N	5.1	4.4	0.8	141	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Felt (II JMA) in parts of Fukushima, Ibaraki, Miyagi and Tochigi Prefectures. Felt (I JMA) in east-central Honshu from Chiba to northern Miyagi Prefecture. Centroid, Moment Tensor (HRV): Centroid origin time 08:14:22.0; Lat 36.46 N Fix; Lon 141.40 E Fix; Dep 33.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.45, Plg=51, Azm=247; (N) Val=-1.44, Plg=9, Azm=348; (P) Val=-8.01, Plg=38, Azm=85; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=221, Dip=11, Slip=143; NP2: Strike=347, Dip=83, Slip=81.
16	08	40	22.7&	48.100	N	2.300	W	3					7	FRANCE. <LDG>. ML 2.9 (LDG).
16	09	24	08.2&	48.100	N	2.300	W	3					6	FRANCE. <LDG>. ML 1.7 (LDG).
16	09	33	16.9?	45.53	N	26.43	E	150	G			0.3	6	ROMANIA
16	09	46	44.1&	34.594	N	116.271	W	0		6.3	7.4		527	SOUTHERN CALIFORNIA. <PAS-P>. Mw 7.2 (HRV), 7.1 (GS), 7.0 (BRK), 7.0 (OBN). Me 7.3 (GS). ML 7.3 (BRK). Four people slightly injured when an Amtrak train derailed near Ludlow. Damage (VII) at Landers, Ludlow, Twentynine Palms and Twentynine Palms Marine Corps Base. Slight damage (VI) at Amboy, Apple Valley, Baker, Barstow, Big Bear Lake, Cima, Crest Park, Desert Center, Essex, Fawnskin, Fort Irwin, Hemet, Highland, Hinkley, Joshua Tree, Lucerne Valley, Newberry Springs, Olancha, Palm Springs, Phelan, Ridgecrest, Tecopa, Thousand Palms and Victorville. Also slight damage (VI) at Laughlin, Nevada. Felt (V) at many localities in southern California, southern Nevada and western Arizona. Also felt at Ensenada, Mexicali, Tecate and Tijuana, Baja California. Surface faulting observed along a 45-kilometer segment of the Lavic Lake Fault with as much as 2.8-4.7 meters of right-lateral displacement. Broadband Source Parameters (GS): Dep 15; NP1: Strike=338, Dip=85, Slip=174; NP2: Strike=69, Dip=84, Slip=5; Radiated energy 1.9*10**15 Nm. Complex earthquake begins with tiny precursor followed by major events about 4 and 7 seconds after the onset. Moment Tensor (GS): Dep 20; Principal axes (scale 10**19 Nm): (T) Val=5.69, Plg=1, Azm=289; (N) Val=-0.21, Plg=79, Azm=24; (P) Val=-5.48, Plg=11, Azm=199; Best double couple: Mo=5.6*10**19 Nm; NP1: Strike=335, Dip=81, Slip=-173; NP2: Strike=244, Dip=83, Slip=-9. Centroid, Moment Tensor (HRV): Centroid origin time 09:46:59.2; Lat 34.71 N; Lon 116.27 W; Dep 15.0 Bdy; Half-duration 10.1 sec; Principal axes (scale 10**19 Nm): (T) Val=6.13, Plg=11, Azm=292; (N) Val=-0.29, Plg=79, Azm=96; (P) Val=-5.84, Plg=3, Azm=201; Best double couple: Mo=6.0*10**19 Nm; NP1: Strike=336, Dip=80, Slip=174; NP2: Strike=67, Dip=85, Slip=10. Moment Tensor (BRK): Dep 8; Principal axes (scale 10**19 Nm): (T) Val=4.01, Plg=17, Azm=301; (N) Val=0.00, Plg=69, Azm=87; (P) Val=-4.01, Plg=11, Azm=207; Best double couple: Mo=4.0*10**19 Nm; NP1: Strike=75, Dip=85, Slip=20; NP2: Strike=343, Dip=70, Slip=175. Scalar Moment (OBN): Mo=3.0*10**19 Nm.
16	09	51	48.2&	34.439	N	116.262	W	0					7	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.9 (PAS).
16	09	59	35.0&	34.680	N	116.280	W	9		5.0			75	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.8 (PAS).
16	10	02	39.0&	34.590	N	116.260	W	0					16	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS).
16	10	07	28.0&	34.900	N	116.250	W	6					17	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.7 (PAS).
16	10	09	54.6&	34.671	N	116.292	W	2					22	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
16	10	10	42.4&	41.070	S	174.520	E	53					7	COOK STRAIT, NEW ZEALAND. <WEL>.
16	10	10	48.8&	34.629	N	116.277	W	0					4	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
16	10	20	52.6&	34.363	N	116.149	W	0					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.8 (PAS).
16	10	29	38.1	34.523	N	116.143	W	5	G			1.2	13	SOUTHERN CALIFORNIA. ML 4.3 (GS).
16	10	39	38.5&	18.039	N	66.631	W	16					6	PUERTO RICO REGION. <MPR>. ML 3.0 (MPR).
16	10	49	23.7*	30.632	N	128.259	E	323	*	4.5		1.3	21	NORTHWEST OF RYUKYU ISLANDS
16	10	49	50.4&	33.256	N	115.674	W	2					18	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	11	04	33.0&	34.370	N	116.210	W	6					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
16	11	06	38.3&	34.583	N	116.283	W	0					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
16	11	07	23.3&	34.603	N	116.294	W	0					4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
16	11	21	38.7&	34.495	N	116.253	W	0					21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
16	11	24	33.5&	34.605	N	116.277	W	6	G				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	11	26	04.8&	34.813	N	116.341	W	0					48	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.7 (PAS).
16	11	27	25.6&	46.000	N	2.900	E	2					4	FRANCE. <LDG>. ML 1.7 (LDG).
16	11	38	49.0&	34.530	N	116.300	W	6	G				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	11	47	43.9&	34.681	N	116.347	W	1					6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	11	49	58.5&	34.711	N	116.303	W	2					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
16	11	55	35.9	34.395	N	116.149	W	5	G			0.9	27	SOUTHERN CALIFORNIA. ML 3.9 (GS).
16	12	03	18.4&	34.719	N	116.298	W	0					41	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
16	12	03	35.0&	34.657	N	116.308	W	10					6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
16	12	14	11.7&	34.681	N	116.356	W	2					3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	12	15	08.8&	34.597	N	116.288	W	1					22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	12	32	01.2*	24.011	N	121.656	E	33	N	4.6		1.1	25	TAIWAN. Felt (IV JMA) at Hua-lien and (I JMA) at Chia-i and I-lan.
16	12	37	19.8&	34.527	N	116.308	W	0					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	12	47	20.9	0.454	N	124.222	E	215	*	4.7		1.2	34	MINAHASSA PENINSULA, SULAWESI

16	12	51	50.9&	34.369	N	116.132	W	0			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	12	55	09.6&	34.507	N	116.263	W	0			46	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS).
16	12	57	20.9&	34.442	N	116.248	W	2	5.2		197	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.7 (PAS).
16	12	57	45.7&	48.100	N	2.300	W	3			6	FRANCE. <LDG>. ML 1.9 (LDG).
16	13	09	09.0&	34.420	N	116.260	W	4			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	13	14	56.0&	34.450	N	116.230	W	1			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	13	22	10.5&	34.555	N	116.274	W	1			32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
16	13	23	55.0&	34.590	N	116.300	W	6	G		21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	13	26	11.7&	34.519	N	116.267	W	0			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	13	32	22.0&	34.350	N	116.220	W	0			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	13	34	56.5&	34.600	N	116.301	W	0			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	13	37	02.2&	33.788	N	116.117	W	11			18	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
16	13	42	49.9&	33.788	N	116.120	W	11			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	13	51	17.5&	34.451	N	116.230	W	0			38	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
16	13	56	42.7&	34.683	N	116.301	W	0			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
16	13	59	17.0&	34.829	N	116.345	W	0			45	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS).
16	14	01	56.6&	33.792	N	116.119	W	6			18	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	14	20	45.0&	34.700	N	116.320	W	6	G		20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	14	31	51.9&	34.478	N	116.259	W	0			11	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	14	38	06.9*	42.441	N	72.335	E	33	N	4.3	1.3	14 KYRGYZSTAN
16	14	43	11.0&	34.461	N	116.215	W	2				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	14	43	44.0&	34.450	N	116.240	W	0				28 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	14	44	24.3&	34.585	N	116.299	W	0				23 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	14	48	45.0&	34.470	N	116.280	W	3				18 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	14	52	35.0&	34.495	N	116.258	W	0				33 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	15	11	44.0&	34.610	N	116.310	W	6	G			25 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	15	18	55.0&	34.400	N	116.270	W	0				23 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	15	21	11.0&	34.410	N	116.240	W	4				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	15	22	17.3	51.545	N	16.182	E	5	G		0.5	18 POLAND. ML 3.7 (GRF), 3.5 (VIE), 3.1 (CLL).
16	15	23	50.0&	34.380	N	116.480	W	2				21 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	15	27	09.0&	34.530	N	116.260	W	0				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	15	31	45.8&	34.618	N	116.297	W	0				27 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	15	38	33.7&	34.363	N	116.132	W	18				34 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	15	41	40.6&	34.583	N	116.276	W	1				26 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
16	15	42	29.0&	34.480	N	116.270	W	2				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	15	47	09.9*	52.630	N	159.650	E	62	*	4.2	1.3	28 OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
16	15	49	42.4&	34.552	N	116.273	W	0				19 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	15	53	04.5&	34.664	N	116.300	W	0				16 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	15	54	20.1&	34.603	N	116.297	W	0				10 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	16	00	32.5&	34.602	N	116.292	W	6	G			25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
16	16	05	00.3	34.428	N	116.200	W	5	G		0.5	25 SOUTHERN CALIFORNIA. ML 3.1 (GS).
16	16	08	24.5&	34.680	N	116.308	W	1				34 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
16	16	12	08.6&	34.521	N	116.268	W	0				27 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	16	22	57.9&	34.678	N	116.301	W	0				19 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	16	31	29.7	34.652	N	116.341	W	5	G		0.9	15 SOUTHERN CALIFORNIA. ML 3.5 (GS).
16	16	35	21.9*	24.925	S	179.754	E	550	G	4.3	0.9	14 SOUTH OF FIJI ISLANDS
16	16	38	18.5	29.847	N	138.743	E	422		4.9	0.7	155 SOUTH OF HONSHU, JAPAN
16	16	38	59.8&	34.567	N	116.256	W	0				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	16	48	39.1&	34.698	N	116.285	W	1				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	16	50	10.4&	34.639	N	116.311	W	0				4 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	16	51	22.0&	34.422	N	116.212	W	0				12 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	16	54	26.2	34.564	N	116.226	W	5	G		0.6	24 SOUTHERN CALIFORNIA. ML 3.5 (GS).
16	16	55	58.5&	33.788	N	116.117	W	11				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	16	57	29.5&	34.576	N	116.271	W	1				23 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
16	17	02	46.0&	34.640	N	116.370	W	6	G			26 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	17	07	33.5*	31.740	S	70.008	W	100	G		0.8	13 CHILE-ARGENTINA BORDER REGION. MD 3.1 (GUC).
16	17	15	09.1*	30.751	N	110.749	W	5	G		1.5	18 SONORA, MEXICO. ML 4.5 (GS).
16	17	20	20.6&	34.680	N	116.361	W	1				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	17	21	01.0&	34.460	N	116.250	W	2				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	17	21	55.1&	34.605	N	116.251	W	0				23 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
16	17	25	31.0&	34.940	N	116.900	W	6				23 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	17	38	48.6&	34.430	N	116.251	W	0		4.9		77 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.9 (PAS).
16	17	46	34.0&	34.410	N	116.230	W	12				9 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	17	48	31.3&	33.268	N	115.717	W	1				28 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	17	55	16.5&	34.532	N	116.245	W	1				16 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	17	57	25.0	6.169	S	149.179	E	70		5.1	0.9	36 NEW BRITAIN REGION, P.N.G.
16	18	01	51.7&	34.681	N	116.304	W	3				37 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	18	01	57.5&	34.704	N	116.297	W	3				14 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
16	18	05	22.7&	34.568	N	116.265	W	0				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
16	18	10	16.0&	61.701	N	151.573	W	107				12 SOUTHERN ALASKA. <AEIC>.
16	18	10	20.4&	34.787	N	116.343	W	0				30 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	18	13	09.0&	34.540	N	116.280	W	6	G			25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	18	37	15.0&	38.370	S	175.810	E	206				10 NORTH ISLAND, NEW ZEALAND. <WEL>.
16	18	51	08.0&	34.720	N	116.370	W	2				5 SOUTHERN CALIFORNIA. <PAS-P>. MD 3.0 (PAS).
16	19	15	09.0&	34.600	N	116.280	W	0				30 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
16	19	25	01.0&	34.680	N	116.290	W	6	G			6 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	19	25	38.0&	34.360	N	116.150	W	2				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	19	39	55.0&	34.680	N	116.310	W	2				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Two events about eighteen seconds apart. The hypocenter is for the first and the magnitude is for the second and larger event.
16	19	46	43.0&	34.710	N	116.290	W	6	G			25 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	19	48	30.6	34.903	N	116.418	W	5	G		0.7	13 SOUTHERN CALIFORNIA. ML 3.5 (GS).
16	20	08	07.0&	34.480	N	116.270	W	6				25 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	20	13	37.0&	34.690	N	116.280	W	6	G			69 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.7 (PAS).
16	20	18	58.8&	34.581	N	116.270	W	0				5 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	20	22	17.8	17.014	N	17.013	W	10	G	4.4	0.8	58 NORTHWEST AFRICA
16	20	22	30.0&	34.600	N	116.230	W	6	G			29 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
16	20	23	42.6?	31.65	S	71.68	W	33	N		0.4	13 NEAR COAST OF CENTRAL CHILE. MD 4.0 (GUC).
16	20	39	16.0&	34.470	N	116.290	W	0				16 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	20	40	36.3	34.661	N	116.274	W	5	G		0.4	20 SOUTHERN CALIFORNIA. ML 2.9 (GS).
16	20	41	29.1*	30.787	S	178.255	W	250	G	4.2	1.2	20 KERMADEC ISLANDS, NEW ZEALAND
16	20	53	59.0&	34.700	N	116.370	W	6	G			23 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).

16	21	04	15.2&	34.566	N	116.258	W	0				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	21	10	50.0&	34.670	N	116.340	W	6	G			37	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
16	21	14	03.7&	32.947	S	70.037	W	114				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
16	21	14	43.3&	34.484	N	116.257	W	1				17	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	21	16	58.2&	49.000	N	0.900	E	2				5	FRANCE. <LDG>. ML 2.1 (LDG).
16	21	40	24.0&	34.720	N	116.280	W	2				18	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	21	46	15.0&	34.800	N	116.370	W	1				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	21	48	17.1	51.601	N	16.098	E	5	G		0.5	30	POLAND. ML 4.2 (GRF), 3.7 (VIE), 3.6 (FUR).
16	21	52	41.7	6.087	S	146.644	E	46		4.7	1.1	38	EASTERN NEW GUINEA REG., P.N.G.
16	21	53	56.7&	34.489	N	116.199	W	6	G			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16	21	55	44.0&	34.700	N	116.290	W	6				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
16	21	58	48.5&	34.595	N	116.352	W	0				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	21	59	17.4&	34.577	N	116.286	W	0				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	22	01	06.0&	34.831	N	116.400	W	0				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	22	13	00.0&	34.640	N	116.290	W	3				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS). Two events about thirteen seconds apart. The hypocenter is for the first and the magnitude is for the second and larger event.
16	22	16	07.0&	34.554	N	116.283	W	0				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	22	20	28.0&	34.630	N	116.340	W	6	G			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	22	25	28.2&	34.455	N	116.250	W	1				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	22	28	37.3&	43.089	N	18.968	E	8				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.5 (PDG).
16	22	29	00.0&	34.630	N	116.360	W	6	G			12	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	22	33	03.2?	19.14	N	108.05	W	10	G	4.0	1.3	12	REVILLA GIGEDO ISLANDS REGION
16	22	37	13.0&	34.430	N	116.250	W	6				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	22	42	55.2&	34.353	N	116.153	W	0				22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
16	22	53	41.0&	34.710	N	116.360	W	6	G			49	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.6 (PAS).
16	23	21	30.6&	34.510	N	116.272	W	0				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	23	33	40.8&	43.100	N	0.700	W	3				20	PYRENEES. <LDG>. ML 2.5 (LDG), 2.4 (STR). mbLg 2.1 (MDD).
16	23	36	13.4*	12.424	N	142.769	E	33	N	4.7	1.0	15	SOUTH OF MARIANA ISLANDS
16	23	49	32.8	34.558	N	116.291	W	5	G		0.6	25	SOUTHERN CALIFORNIA. ML 3.0 (GS).
16	23	51	39.0&	34.800	N	116.330	W	1				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	23	52	10.0&	34.670	N	116.330	W	3				16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16	23	58	43.2&	34.619	N	116.299	W	0				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	00	14	34.6&	34.419	N	116.180	W	3				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	00	22	37.2&	34.774	N	116.350	W	6	G			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	00	27	48.0&	34.490	N	116.240	W	2				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
17	00	36	17.0&	34.290	N	116.050	W	0				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
17	00	40	57.3&	34.840	N	116.337	W	4				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	00	44	50.0&	34.690	N	116.230	W	1				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
17	00	47	24.8&	34.610	N	116.236	W	0				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	01	37	53.3	8.137	S	124.924	E	33	N	4.7	1.3	30	TIMOR REGION, INDONESIA. Felt (III) on Pulau Alor.
17	01	47	49.0&	34.670	N	116.300	W	6				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	01	50	36.0&	34.670	N	116.300	W	6				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	01	57	14.0&	34.530	N	116.280	W	6				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
17	02	09	42.4	34.371	N	116.211	W	5	G		0.6	6	SOUTHERN CALIFORNIA. ML 3.2 (GS).
17	02	28	57.0&	34.540	N	116.250	W	6				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	02	42	01.0&	34.820	N	116.350	W	6	G			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	03	07	20.2&	47.400	N	0.300	E	2				12	FRANCE. <LDG>. ML 2.0 (LDG).
17	03	08	08.0&	34.800	N	116.290	W	6	G			33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
17	03	18	21.0&	34.820	N	116.390	W	3				25	SOUTHERN CALIFORNIA. <PAS-P>. MD 3.0 (PAS).
17	03	50	04.3&	34.690	N	116.354	W	2				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	03	51	26.1&	38.557	N	26.704	E	17				10	AEGEAN SEA. <ISK>. MD 3.5 (ISK).
17	03	59	11.0&	34.390	N	116.170	W	0				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
17	04	22	00.0&	34.630	N	116.220	W	6	G			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (GS).
17	04	22	48.0&	34.830	N	116.370	W	6	G			43	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
17	04	45	24.0&	34.490	N	116.280	W	0				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
17	04	53	32.0&	33.220	N	115.610	W	1				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	04	58	16.0&	34.620	N	116.300	W	6	G			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
17	05	06	58.0&	34.730	N	116.350	W	6	G			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	05	21	46.6&	36.490	N	4.420	W	80				10	STRAIT OF GIBRALTAR. <MDD>.
17	06	22	57.2*	21.197	S	174.594	W	33	N	4.7	4.7 1.2	23	TONGA ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:23:01.0; Lat 21.63 S; Lon 174.00 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.30, Plg=71, Azm=284; (N) Val=-0.95, Plg=6, Azm=31; (P) Val=-5.35, Plg=18, Azm=123; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=222, Dip=28, Slip=102; NP2: Strike=28, Dip=63, Slip=84.
17	06	24	26.0?	13.85	S	66.15	E	10	G	4.4	1.1	9	MID-INDIAN RIDGE
17	06	44	12.1&	31.746	S	71.879	W	15				16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
17	06	48	44.0&	34.850	N	116.320	W	3				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
17	07	03	14.0&	34.500	N	116.310	W	3				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
17	07	09	43.0&	34.550	N	116.290	W	0				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	07	11	16.4&	34.850	N	116.354	W	6				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
17	07	15	31.0	34.702	N	116.235	W	5	G		0.7	24	SOUTHERN CALIFORNIA. ML 3.4 (GS).
17	07	29	22.5&	34.701	N	116.300	W	4				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
17	07	34	04.2&	34.527	N	116.264	W	0				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	07	35	34.9*	20.043	S	168.961	E	33	N	4.7	1.3	24	LOYALTY ISLANDS
17	07	50	22.0&	34.670	N	116.300	W	0				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
17	07	59	44.2&	14.191	N	92.657	W	31				5	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
17	08	10	53.8*	6.140	S	148.803	E	67	*	4.6	0.5	11	NEW BRITAIN REGION, P.N.G.
17	08	14	46.4	34.822	N	116.386	W	5	G		0.8	27	SOUTHERN CALIFORNIA. ML 3.5 (GS).
17	08	22	11.0&	34.550	N	116.270	W	5				37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
17	08	24	59.6*	29.192	S	177.187	W	33	N	4.9	1.3	21	KERMADEC ISLANDS, NEW ZEALAND
17	08	44	54.0&	34.600	N	116.270	W	6	G			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
17	09	04	09.0&	34.610	N	116.290	W	6	G			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	09	09	24.4	34.416	N	116.188	W	5	G		0.6	25	SOUTHERN CALIFORNIA. ML 2.9 (GS).
17	09	18	20.0&	34.690	N	116.310	W	6	G			33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
17	09	43	35.5	34.589	N	116.292	W	5	G		0.8	24	SOUTHERN CALIFORNIA. ML 3.1 (GS).
17	09	45	57.0&	34.610	N	116.330	W	0				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
17	10	06	42.0&	34.420	N	116.200	W	1				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	10	15	23.0&	34.710	N	116.360	W	6	G			34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
17	10	23	33.7	34.844	N	116.337	W	5	G		0.6	12	SOUTHERN CALIFORNIA. ML 2.8 (GS).

17	10	37	45.0&	34.310	N	116.130	W	1				15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	10	39	04.0&	34.570	N	116.280	W	0				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	10	39	46.8&	40.810	N	30.191	E	10				7	TURKEY. <ISK>. MD 3.3 (ISK).
17	10	41	45.0&	34.670	N	116.300	W	4				42	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
17	10	43	49.4	34.682	N	116.290	W	5	G		0.5	22	SOUTHERN CALIFORNIA. ML 3.0 (GS).
17	11	12	13.4&	44.186	N	7.124	E	14				45	NORTHERN ITALY. <GEN>. ML 2.8 (GEN). 2.5 (LDG), 2.5 (STR).
17	11	21	41.1	34.836	N	116.349	W	5	G		0.7	21	SOUTHERN CALIFORNIA. ML 2.8 (GS).
17	11	29	42.4	34.318	N	116.152	W	5	G		0.9	22	SOUTHERN CALIFORNIA. ML 2.8 (GS).
17	11	43	24.0&	34.690	N	116.390	W	4				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	11	44	30.7&	40.252	N	124.304	W	26				4	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.9 (GM).
17	12	10	08.0&	34.574	N	116.265	W	0				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	12	13	58.0&	34.470	N	116.250	W	0				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
17	12	24	43.0&	34.700	N	116.300	W	6				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	12	44	16.3	34.700	N	116.290	W	5	G		0.5	24	SOUTHERN CALIFORNIA. ML 2.8 (GS).
17	12	59	48.0&	34.730	N	116.280	W	7				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	13	35	17.3?	65.89	N	150.22	W	10	G		0.3	4	NORTHERN ALASKA. ML 3.1 (PMR).
17	13	53	25.6?	12.49	N	142.49	E	33	N		1.5	8	SOUTH OF MARIANA ISLANDS
17	14	12	23.7&	34.411	N	116.195	W	3				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	14	14	36.0&	34.680	N	116.310	W	6				22	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (GS).
17	14	15	49.6	34.651	N	116.275	W	5	G		0.9	20	SOUTHERN CALIFORNIA. ML 3.8 (GS).
17	14	21	17.0&	34.080	N	116.860	W	3				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	14	37	32.6?	11.14	S	118.55	E	33	N	4.2	1.3	8	SOUTH OF SUMBAWA, INDONESIA
17	14	59	10.0&	34.530	N	116.290	W	6	G			30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
17	15	09	58.0&	34.790	N	116.360	W	6	G			31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
17	15	23	54.0&	34.450	N	116.240	W	6				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	15	50	36.0&	34.340	N	116.140	W	3				35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
17	16	00	57.0&	34.360	N	116.150	W	6				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	16	22	48.0&	34.350	N	116.140	W	1				43	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
17	16	32	40.7&	34.361	N	116.141	W	2				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
17	16	32	53.2&	34.362	N	116.138	W	0				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
17	16	39	11.0&	34.560	N	116.260	W	6				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	17	09	33.9	0.845	N	125.915	E	62	*	4.7	1.3	51	NORTHERN MOLUCCA SEA
17	17	19	11.5&	34.521	N	116.307	W	0				36	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
17	17	32	18.5&	17.437	N	95.738	W	134				6	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
17	18	02	56.0&	34.680	N	116.280	W	4				40	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
17	18	07	12.6	34.679	N	116.314	W	5	G		0.4	17	SOUTHERN CALIFORNIA. ML 2.8 (GS).
17	18	09	28.0	46.063	N	14.775	E	10	G		0.3	7	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
17	18	17	28.9	9.861	S	160.740	E	136	D	4.8	1.0	41	SOLOMON ISLANDS
17	19	05	22.0&	34.600	N	116.240	W	6	G			31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
17	19	06	44.1&	34.530	N	116.358	W	0				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
17	19	20	06.9&	44.790	S	167.920	E	79				6	SOUTH ISLAND, NEW ZEALAND. <WEL>. Felt in the Milford Sound area.
17	19	50	53.7*	32.228	N	115.150	W	5	G		1.0	13	CALIF.-BAJA CALIF. BORDER REGION. ML 3.1 (GS). MD 3.5 (ECX).
17	20	04	36.0&	34.440	N	116.200	W	5				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	20	10	22.0&	34.340	N	116.120	W	3				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	20	13	34.2	0.461	N	126.029	E	66	*	4.9	1.2	44	NORTHERN MOLUCCA SEA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:13:40.4; Lat 0.31 N; Lon 125.46 E; Dep 41.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.67, Plg=57, Azm=236; (N) Val=-0.51, Plg=22, Azm=4; (P) Val=-5.16, Plg=24, Azm=104; Best double couple: Mo=5.4*10**16 Nm; NP1: Strike=231, Dip=29, Slip=141; NP2: Strike=356, Dip=72, Slip=67.
17	20	14	05.4&	34.500	N	116.281	W	0				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	20	14	20.0&	34.471	N	116.229	W	0				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
17	20	14	57.8&	34.325	N	116.665	W	0				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	20	37	49.4&	34.819	N	116.328	W	4				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	20	43	14.4	34.442	N	116.236	W	5	G		0.7	21	SOUTHERN CALIFORNIA. ML 3.5 (GS).
17	20	56	00.3*	10.731	N	126.552	E	33	N	4.5	1.1	14	PHILIPPINE ISLANDS REGION
17	21	10	13.8	29.284	N	130.313	E	33	N	5.1 4.7	1.1	117	RYUKYU ISLANDS. Mw 5.1 (HRV). Felt (I JMA) on Amami-O-shima. Centroid, Moment Tensor (HRV): Centroid origin time 21:10:15.2; Lat 29.13 N; Lon 130.79 E; Dep 39.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.65, Plg=69, Azm=333; (N) Val=0.15, Plg=8, Azm=222; (P) Val=-5.81, Plg=19, Azm=129; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=206, Dip=27, Slip=72; NP2: Strike=45, Dip=65, Slip=99.
17	21	40	41.5&	38.500	S	176.030	E	5				6	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.0 (WEL). Felt at Taupo.
17	21	52	37.5&	34.669	N	116.346	W	3				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	21	59	34.9&	31.672	S	71.505	W	65				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
17	22	33	45.1	0.413	N	126.080	E	65	*	5.0	1.2	62	NORTHERN MOLUCCA SEA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:33:47.8; Lat 0.41 N Fix; Lon 126.08 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.43, Plg=54, Azm=218; (N) Val=0.15, Plg=36, Azm=38; (P) Val=-4.58, Plg=0, Azm=128; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=248, Dip=55, Slip=135; NP2: Strike=7, Dip=55, Slip=45.
17	22	56	19.9&	34.542	N	116.307	W	0				35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
17	23	29	16.0&	34.480	N	116.270	W	3				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17	23	34	04.5&	39.590	N	1.410	W	4				10	SPAIN. <MDD>. mbLg 2.3 (MDD).
17	23	54	46.0&	34.360	N	116.140	W	6				39	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
18	00	01	56.0&	34.550	N	116.270	W	2				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18	00	24	57.9	40.267	N	143.773	E	33	N	4.7	1.2	42	OFF EAST COAST OF HONSHU, JAPAN
18	00	44	52.8*	1.008	N	121.058	E	33	N	4.7	1.2	17	MINAHASSA PENINSULA, SULAWESI
18	00	47	23.0*	30.149	N	130.109	E	159	?	3.7	1.1	15	KYUSHU, JAPAN
18	00	50	09.2*	18.083	S	167.965	E	33	N	4.9	0.9	25	VANUATU ISLANDS
18	00	56	23.9	17.419	S	175.334	W	291	D	4.6	0.9	60	TONGA ISLANDS
18	01	29	52.7&	34.006	S	70.080	W	5				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
18	01	39	32.8?	7.00	S	155.41	E	33	N	4.3	1.1	8	SOLOMON ISLANDS
18	01	39	57.7	21.301	N	144.964	E	162	?	4.9	0.9	17	MARIANA ISLANDS REGION
18	01	53	31.3*	63.514	N	151.246	W	10	G		0.8	9	CENTRAL ALASKA. ML 2.8 (PMR).

18	02	42	20.3	41.766	N	89.248	E	33	N	4.7	5.0	1.0	72	SOUTHERN XINJIANG, CHINA
18	02	43	23.8	56.121	S	26.578	W	33	N	6.0	6.2	0.9	152	SOUTH SANDWICH ISLANDS REGION. Mw 6.3 (GS), 6.3 (HRV). Me 6.6 (GS). Broadband Source Parameters (GS): Dep 34; NP1: Strike=250, Dip=70, Slip=165; NP2: Strike=345, Dip=76, Slip=21; Radiated energy 1.9*10**14 Nm. Moment Tensor (GS): Dep 32; Principal axes (scale 10**18 Nm): (T) Val=3.50, Plg=36, Azm=215; (N) Val=-0.55, Plg=54, Azm=30; (P) Val=-2.94, Plg=3, Azm=123; Best double couple: Mo=3.2*10**18 Nm; NP1: Strike=253, Dip=63, Slip=155; NP2: Strike=355, Dip=67, Slip=29. Centroid, Moment Tensor (HRV): Centroid origin time 02:43:29.9; Lat 56.28 S; Lon 26.27 W; Dep 39.0 Bdy; Half-duration 3.6 sec; Principal axes (scale 10**18 Nm): (T) Val=3.66, Plg=37, Azm=221; (N) Val=-0.28, Plg=53, Azm=48; (P) Val=-3.39, Plg=3, Azm=314; Best double couple: Mo=3.5*10**18 Nm; NP1: Strike=4, Dip=62, Slip=26; NP2: Strike=261, Dip=67, Slip=149.
18	02	56	42.0&	34.670	N	116.280	W	0					35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
18	03	11	42.7&	32.850	S	69.040	W	20					13	MENDOZA PROVINCE, ARGENTINA. <GUC>.
18	04	03	07.0?	12.43	N	142.76	E	33	N	4.8		1.5	8	SOUTH OF MARIANA ISLANDS
18	04	33	31.0&	34.630	N	116.300	W	4					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
18	04	34	23.9	0.055	N	123.729	E	149	D	4.3		1.3	26	MINAHASSA PENINSULA, SULAWESI
18	04	42	02.0&	34.410	N	116.320	W	3					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
18	04	48	08.7*	12.472	N	142.679	E	33	N	4.8		1.1	14	SOUTH OF MARIANA ISLANDS
18	04	55	18.0&	32.703	S	71.723	W	21					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
18	05	16	27.7	24.033	N	122.366	E	33	N	4.9		1.1	40	TAIWAN REGION
18	05	40	16.2&	41.169	N	20.156	E	3					10	ALBANIA. <PDG>. MD 3.2 (PDG).
18	05	48	37.7&	44.284	N	7.336	E	16					10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
18	06	29	44.8	34.635	N	116.292	W	5	G			0.7	22	SOUTHERN CALIFORNIA. ML 2.9 (GS).
18	06	35	47.0&	34.350	N	116.150	W	1					58	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.6 (PAS).
18	06	55	05.2&	47.682	N	114.170	W	10	G				16	MONTANA. <BUT-P>. MD 2.6 (BUT). Felt in the Polson area.
18	06	56	21.8	34.743	N	116.355	W	5	G			0.7	25	SOUTHERN CALIFORNIA. ML 3.0 (GS).
18	06	58	28.0&	34.590	N	116.270	W	6	G				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
18	07	07	36.0&	34.510	N	116.260	W	0					31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
18	07	07	59.8&	17.948	N	67.074	W	10					4	MONA PASSAGE. <MPR>. ML 2.7 (MPR).
18	07	14	30.6*	34.090	S	117.990	E	10	G			0.8	8	WESTERN AUSTRALIA
18	07	54	59.0&	17.953	N	66.469	W	12					5	PUERTO RICO REGION. <MPR>. ML 2.9 (MPR).
18	08	00	28.4	63.513	N	151.076	W	10	G			0.7	14	CENTRAL ALASKA. ML 3.4 (PMR), 2.9 (AEIC).
18	08	04	55.9	34.629	N	116.217	W	5	G			0.6	25	SOUTHERN CALIFORNIA. ML 3.0 (GS).
18	08	30	31.0&	34.580	N	116.290	W	0					15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
18	08	52	37.0*	45.513	N	26.635	E	100	G			0.7	7	ROMANIA
18	09	25	02.5*	46.880	N	146.375	E	387	*	3.9		1.1	22	NORTHWEST OF KURIL ISLANDS
18	09	30	45.3*	3.848	S	130.789	E	33	N	4.1		1.5	9	SERAM, INDONESIA
18	10	17	41.0&	34.560	N	116.270	W	6	G				43	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
18	10	37	06.7*	22.178	S	170.274	E	33	N	4.3		1.1	21	LOYALTY ISLANDS REGION
18	11	02	20.0&	34.850	N	116.350	W	6	G				51	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS).
18	11	06	34.8*	54.118	N	165.021	W	64	*			1.1	10	FOX ISLANDS, ALEUTIAN ISLANDS
18	11	15	45.0&	34.700	N	116.280	W	6					40	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
18	11	32	36.2&	18.266	N	67.052	W	28					5	MONA PASSAGE. <MPR>. ML 3.1 (MPR).
18	11	40	46.0&	34.590	N	116.280	W	6	G				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
18	12	53	42.5*	7.056	S	154.771	E	33	N	4.3		1.0	11	SOLOMON ISLANDS
18	12	54	48.2*	6.305	S	103.831	E	33	N	4.8		1.2	16	SOUTHWEST OF SUMATERA, INDONESIA
18	13	05	00.1*	2.246	S	134.108	E	33	N	4.3		1.2	9	IRIAN JAYA REGION, INDONESIA
18	13	12	55.8	46.058	N	14.785	E	10	G			0.3	7	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
18	13	21	21.5	34.318	N	116.682	W	5	G			0.6	26	SOUTHERN CALIFORNIA. ML 3.0 (GS).
18	14	15	10.3*	2.229	S	134.187	E	33	N	4.2		1.3	14	IRIAN JAYA REGION, INDONESIA
18	14	26	55.0&	34.850	N	116.320	W	0					25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18	14	33	15.1&	34.248	S	70.360	W	116					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
18	14	40	25.0	60.502	N	150.535	W	33	N			0.9	14	KENAI PENINSULA, ALASKA. ML 3.0 (PMR).
18	15	09	45.3*	47.027	N	11.791	E	10	G			1.5	6	AUSTRIA. ML 1.3 (VIE).
18	15	31	32.0	24.139	N	121.318	E	33	N	4.9		1.1	62	TAIWAN. Felt (IV JMA) in the epicentral area, (III JMA) at Hua-lien and (I JMA) at Chia-i, Tai-chung and Taipei.
18	15	45	02.3*	47.033	N	11.810	E	10	G			1.3	7	AUSTRIA. ML 1.5 (VIE).
18	16	00	44.5	23.564	N	121.281	E	33	N	5.0		1.2	89	TAIWAN. Mw 5.4 (HRV). Felt (V JMA) in the epicentral area; (IV JMA) at Hua-lien; (III JMA) at Chia-i and Tai-chung; (II JMA) at Tai-nan; (I JMA) at I-lan and Taipei. Centroid, Moment Tensor (HRV): Centroid origin time 16:00:47.1; Lat 23.56 N Fix; Lon 121.28 E Fix; Dep 24.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=47, Azm=127; (N) Val=-0.07, Plg=3, Azm=220; (P) Val=-1.25, Plg=43, Azm=313; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=90, Dip=3, Slip=140; NP2: Strike=220, Dip=88, Slip=87.
18	16	01	56.8*	23.500	N	121.131	E	33	N	4.8		1.1	30	TAIWAN
18	16	05	11.0&	34.650	N	116.320	W	6					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
18	16	07	52.7&	33.412	S	72.229	W	3					12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
18	16	13	37.4*	40.402	N	69.396	E	33	N	4.6		1.4	17	TAJIKISTAN. Felt (II) at Toshkent, Uzbekistan.
18	16	30	38.0&	34.310	N	116.070	W	2					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18	16	44	50.0&	34.440	N	116.290	W	5					33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
18	16	53	29.8&	33.396	S	72.318	W	15					12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
18	17	10	32.0&	34.450	N	116.290	W	0					30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
18	17	17	38.0&	33.310	N	116.310	W	6	G				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
18	17	25	25.8*	46.889	N	11.622	E	10	G			1.1	7	NORTHERN ITALY. ML 2.2 (VIE).
18	17	49	02.3&	32.751	S	71.645	W	14					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
18	17	55	35.8*	23.525	N	121.391	E	33	N	4.5		1.1	15	TAIWAN. Felt (V JMA) in the epicentral area, (III JMA) at Chia-i and (I JMA) at Hua-lien and Tai-chung.
18	18	01	36.7&	42.800	N	2.000	E	8					7	PYRENEES. <LDG>. ML 2.2 (LDG).
18	18	33	04.8*	0.066	N	125.938	E	33	N	4.2		1.1	14	NORTHERN MOLUCCA SEA
18	19	02	02.0&	32.340	N	115.180	W	6	G	4.4			50	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 4.0 (PAS), 4.5 (GS). MD 4.5 (ECX). Felt at Yuma, Arizona and Calexico, California. Felt at Mexicali, Nuevo Leon and the Cerro Prieto Geothermal Plant, Baja California. Also felt at San

														Luis Rio Colorado, Sonora.
18	19	46	04.5	3.060	S	127.679	E	33	N	4.4		1.1	18	SERAM, INDONESIA
18	19	47	39.0&	34.810	N	116.290	W	4					25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
18	20	22	35.3*	16.011	N	98.260	W	33	N	4.4		1.2	28	NEAR COAST OF GUERRERO, MEXICO. MD 4.6 (UNM).
18	20	49	47.9	51.297	N	157.121	E	138		4.4		0.9	38	NEAR EAST COAST OF KAMCHATKA. Felt (II) at Severo-Kurilsk, Paramushir.
18	21	05	13.8&	43.058	N	18.802	E	7					8	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.1 (PDG).
18	21	24	22.6	34.793	N	116.302	W	5	G			1.1	27	SOUTHERN CALIFORNIA. ML 2.9 (GS).
18	21	27	16.0&	34.660	N	116.300	W	6	G				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
18	21	34	01.0&	34.800	N	116.360	W	6	G				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
18	22	00	13.4*	24.325	S	67.100	W	182	*	4.4		1.4	31	CHILE-ARGENTINA BORDER REGION
18	22	55	22.9	51.641	N	16.236	E	5	G			0.8	15	POLAND. ML 3.3 (VIE), 2.8 (CLL).
18	22	57	38.0&	33.050	N	115.580	W	5					25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
18	23	12	08.2	46.639	N	150.238	E	195	*	4.3		0.9	30	KURIL ISLANDS
18	23	53	43.3&	33.427	S	72.219	W	3					9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
19	00	00	48.0&	34.370	N	116.200	W	5					23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	00	27	05.3&	34.821	N	116.375	W	2					4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	00	28	05.1*	3.110	S	134.550	E	33	N	4.1		0.9	14	IRIAN JAYA REGION, INDONESIA
19	00	46	53.0&	37.360	N	117.110	W	8					11	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.7 (REN).
19	01	12	28.0&	34.610	N	116.300	W	6					24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	01	38	54.8&	33.136	S	70.263	W	94					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
19	01	52	20.0&	34.710	N	116.290	W	5					32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	02	14	42.0&	34.870	N	116.390	W	5					39	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
19	02	38	22.4&	34.776	N	116.312	W	0					25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
19	02	38	52.0&	34.370	N	116.190	W	0					39	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
19	03	52	01.6&	44.997	N	6.714	E	6					5	FRANCE. <GEN>. ML 1.9 (GEN).
19	04	03	44.9	9.242	S	124.000	E	33	N	4.7		0.9	23	TIMOR REGION, INDONESIA
19	04	43	25.0	12.911	S	169.135	E	645	*	4.5		0.9	68	SANTA CRUZ ISLANDS REGION
19	05	12	11.0&	34.830	N	116.390	W	6					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
19	05	39	22.9*	33.033	N	140.919	E	61	?	4.3		1.3	11	SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima.
19	05	49	00.0&	58.000	N	136.960	W	0	G	4.2			67	SOUTHEASTERN ALASKA. <PGC-P>. ML 4.5 (PGC), 4.7 (PMR). Felt strongly at Gustavus, Haines and Juneau. Also felt at Hoonah.
19	05	56	46.4*	23.632	N	121.400	E	72	*			0.7	10	TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Chia-i and (I JMA) at Hua-lien.
19	06	53	56.0*	4.692	N	127.560	E	109	*	4.4		1.1	16	TALAUD ISLANDS, INDONESIA
19	07	33	24.0&	34.860	N	116.360	W	7					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
19	08	15	44.3&	37.649	N	118.922	W	7					6	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
19	08	25	43.3	20.906	S	179.113	W	616	D	4.8		0.9	70	FIJI ISLANDS REGION
19	08	40	35.9&	34.436	N	116.249	W	1					29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
19	08	50	43.0&	66.720	N	135.660	W	20	G	4.4			10	NORTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 4.0 (PGC).
19	08	53	08.0&	34.700	N	116.370	W	6					24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
19	08	54	41.0&	34.500	N	116.250	W	2					24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
19	09	11	09.9?	7.40	N	73.26	W	149	*	4.1		1.4	10	NORTHERN COLOMBIA
19	09	54	13.4*	3.893	S	127.635	E	33	N	4.7		1.1	12	SERAM, INDONESIA
19	10	14	10.6*	57.753	S	25.233	W	33	N	4.5		1.2	19	SOUTH SANDWICH ISLANDS REGION
19	10	39	39.0&	34.740	N	116.270	W	14					35	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
19	11	29	58.5&	16.058	N	98.331	W	10					5	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
19	11	48	46.2&	44.385	N	7.306	E	5					6	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
19	12	12	54.9&	47.657	N	120.318	W	5					38	WASHINGTON. <SEA-P>. MD 2.8 (SEA).
19	12	16	39.6*	10.844	S	164.758	E	33	N	4.5		1.3	17	SANTA CRUZ ISLANDS REGION
19	12	20	44.0&	34.710	N	116.340	W	5					53	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.6 (PAS).
19	12	56	17.0&	33.048	N	115.572	W	5					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
19	13	02	28.0	30.084	N	57.609	E	33	N	4.7	4.4	1.1	63	NORTHERN IRAN
19	13	16	18.2	36.378	N	141.331	E	33	N	4.9	4.4	0.9	100	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in parts of Fukushima and Ibaraki Prefectures. Felt (I JMA) in east-central Honshu from Chiba to Miyagi Prefecture.
19	13	36	48.8	9.524	S	158.309	E	33	N	5.3	5.1	1.0	64	SOLOMON ISLANDS. Mw 5.4 (HRV). Felt at Honiara. Centroid, Moment Tensor (HRV): Centroid origin time 13:36:48.9; Lat 9.62 S; Lon 158.55 E; Dep 33.8; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.40, Plg=16, Azm=144; (N) Val=-0.15, Plg=74, Azm=330; (P) Val=-1.25, Plg=1, Azm=234; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=280, Dip=78, Slip=10; NP2: Strike=188, Dip=80, Slip=168.
19	14	19	47.2&	40.726	N	30.681	E	5					6	TURKEY. <ISK>. MD 2.8 (ISK).
19	14	22	27.4&	41.876	N	19.404	E	8					10	ALBANIA. <PDG>. MD 2.3 (PDG).
19	14	55	36.4*	9.089	S	116.183	E	108	?	3.9		1.1	10	SUMBAWA REGION, INDONESIA
19	15	17	33.0&	4.320	N	73.760	W	10					5	COLOMBIA. <RSNC>. ML 3.1 (RSNC).
19	15	45	12.4&	33.043	N	115.575	W	7					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	16	02	12.8&	18.943	N	67.093	W	27					5	MONA PASSAGE. <MPR>. ML 3.1 (MPR).
19	16	43	00.2*	43.894	N	148.291	E	33	N	4.3		1.4	12	EAST OF KURIL ISLANDS
19	16	50	24.2&	32.156	S	71.602	W	38					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
19	16	52	10.5&	41.826	N	19.402	E	9					10	ALBANIA. <PDG>. MD 2.2 (PDG).
19	16	56	47.2&	45.490	N	123.106	W	16					27	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.8 (SEA).
19	17	34	18.8*	24.797	N	95.239	E	145	?	4.3		0.9	13	MYANMAR
19	18	18	42.8*	44.988	N	42.649	E	10	G	4.4		1.5	43	NORTHWESTERN CAUCASUS. Felt (IV) at Gofitskoye, (III) at Stavropol and (II) at Pyatigorsk.
19	18	45	53.0&	34.860	N	116.350	W	5					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	18	48	41.0&	34.860	N	116.390	W	6	G				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	18	51	52.4&	44.657	N	7.159	E	11					20	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.0 (LDG).
19	19	03	40.0&	34.850	N	116.280	W	5					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	19	19	09.6?	51.47	N	16.18	E	5	G			0.4	7	POLAND. ML 3.1 (VIE).
19	19	27	10.5&	40.700	N	29.176	E	9					9	TURKEY. <ISK>. MD 2.9 (ISK).
19	19	50	44.0&	34.620	N	116.250	W	6	G				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (GS).
19	20	11	51.0	34.422	N	116.254	W	5	G			0.7	12	SOUTHERN CALIFORNIA. ML 3.3 (GS).
19	20	33	36.0&	40.730	N	30.935	E	13					5	TURKEY. <ISK>. MD 3.0 (ISK).
19	20	45	43.8&	41.590	N	19.546	E	14					11	ALBANIA. <PDG>. MD 2.2 (PDG).
19	20	48	42.0&	34.310	N	116.080	W	3					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	21	00	31.0&	34.580	N	116.270	W	6	G				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (GS).
19	21	08	50.8&	37.850	N	2.530	W	0	G				6	SPAIN. <MDD>. mbLg 1.9 (MDD).
19	21	28	04.9&	43.446	N	8.470	E	10					21	CORSICA. <GEN>. ML 2.6 (GEN), 2.5 (LDG).
19	22	29	00.4	32.341	N	115.168	W	5	G			1.0	15	CALIF.-BAJA CALIF. BORDER REGION. MD 3.8 (ECX). ML 3.2 (GS).

Felt at the Cerro Prieto Geothermal Plant and in the Mexicali Valley, Baja California. Double event. Hypocenter and magnitude are for the first and larger event.

19	22	43	27.7&	12.307	N	81.138	W	4				5	CARIBBEAN SEA. <UPA>. MD 4.4 (UPA).
19	23	09	07.6*	14.871	S	71.756	W	125	*		1.5	13	CENTRAL PERU
19	23	20	18.1&	40.501	N	27.124	E	11				9	TURKEY. <ISK>. MD 3.5 (ISK).
20	00	07	45.8	34.589	N	116.282	W	5	G		0.6	25	SOUTHERN CALIFORNIA. ML 3.0 (GS).
20	00	28	28.2&	18.015	N	100.362	W	45				10	GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
20	00	46	11.0&	39.230	N	117.340	W	12				10	NEVADA. <REN-P>. MD 2.8 (REN). ML 3.2 (GS).
20	00	48	39.0&	34.610	N	116.280	W	6	G			32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
20	01	10	41.0&	44.640	N	111.100	W	4				8	HEBGEN LAKE REGION. <SLC-P>. ML 2.9 (SLC).
20	01	50	29.0*	3.170	S	102.910	E	182	*	4.0	0.8	12	SOUTHERN SUMATERA, INDONESIA
20	01	51	31.0&	34.700	N	116.300	W	4				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (GS).
20	02	04	52.5*	34.495	N	116.210	W	5	G		0.8	5	SOUTHERN CALIFORNIA. ML 3.2 (GS).
20	02	09	27.0&	34.660	N	116.340	W	0				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
20	02	26	43.7	34.561	N	116.287	W	5	G		0.9	23	SOUTHERN CALIFORNIA. ML 3.0 (GS).
20	02	39	11.4	34.615	N	116.216	W	5	G		0.7	31	SOUTHERN CALIFORNIA. ML 3.5 (GS).
20	02	42	37.6	34.594	N	116.229	W	5	G		0.6	35	SOUTHERN CALIFORNIA. ML 3.8 (GS).
20	02	43	49.3	7.815	S	111.162	E	157		4.8	1.0	74	JAWA, INDONESIA
20	03	23	16.7&	39.800	S	177.240	E	33	N			4	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.8 (WEL).
20	03	28	16.5&	37.280	N	4.190	W	0	G			5	SPAIN. <MDD>. mbLg 2.1 (MDD).
20	03	56	24.6*	63.324	N	151.108	W	10	G		1.3	9	CENTRAL ALASKA. ML 2.4 (PMR).
20	04	22	45.0&	34.610	N	116.290	W	6	G			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (GS).
20	04	23	32.8*	0.636	N	120.374	E	90	*	4.7	0.6	22	MINAHASSA PENINSULA, SULAWESI
20	05	32	37.7	30.242	N	136.891	E	506		4.6	0.7	34	SOUTHEAST OF SHIKOKU, JAPAN
20	06	02	28.8&	37.300	N	1.980	W	0	G			6	SPAIN. <MDD>. mbLg 2.1 (MDD).
20	06	46	58.0	22.155	N	144.143	E	78	*	4.9	1.3	92	VOLCANO ISLANDS REGION. Mw 5.3 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 06:47:00.1; Lat 21.95 N; Lon 144.56 E; Dep 53.5; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.88, Plg=62, Azm=222; (N) Val=0.13, Plg=14, Azm=341; (P) Val=-1.01, Plg=24, Azm=77; Best double couple: Mo=9.5*10**16 Nm; NP1: Strike=194, Dip=25, Slip=126; NP2: Strike=335, Dip=70, Slip=75.
20	06	47	18.6*	21.585	N	121.671	E	104	*	4.5	1.3	22	TAIWAN REGION
20	06	48	32.6	4.872	S	144.659	E	92		4.5	0.8	32	NEAR N COAST OF NEW GUINEA, PNG.
20	06	48	39.6&	32.819	S	70.180	W	105				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
20	07	00	43.9&	43.857	N	7.753	E	6				12	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.4 (LDG), 2.3 (GEN).
20	07	27	39.0*	15.120	S	66.876	E	10	G	4.5	0.9	23	MID-INDIAN RIDGE
20	08	28	52.4	6.940	S	129.336	E	189	D	5.8 4.8	1.3	203	BANDA SEA. Mw 5.8 (GS), 5.7 (HRV). Me 5.2 (GS).
													Broadband Source Parameters (GS): Dep 175; NP1: Strike=65, Dip=65, Slip=75; NP2: Strike=277, Dip=29, Slip=119; Radiated energy 1.6*10**12 Nm.
													Moment Tensor (GS): Dep 183; Principal axes (scale 10**17 Nm): (T) Val=5.97, Plg=64, Azm=287; (N) Val=-0.46, Plg=22, Azm=76; (P) Val=-5.51, Plg=12, Azm=171; Best double couple: Mo=5.7*10**17 Nm; NP1: Strike=287, Dip=38, Slip=128; NP2: Strike=63, Dip=61, Slip=64.
													Centroid, Moment Tensor (HRV): Centroid origin time 08:28:57.2; Lat 6.86 S; Lon 129.60 E; Dep 196.6; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.90, Plg=60, Azm=285; (N) Val=-0.97, Plg=25, Azm=68; (P) Val=-3.93, Plg=16, Azm=166; Best double couple: Mo=4.4*10**17 Nm; NP1: Strike=287, Dip=36, Slip=135; NP2: Strike=56, Dip=65, Slip=63.
20	08	32	44.0&	34.570	N	116.250	W	0				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
20	08	36	02.0*	19.184	N	146.613	E	33	N	4.1	1.4	11	MARIANA ISLANDS REGION
20	08	47	45.2*	2.243	S	134.227	E	33	N	4.1	1.4	11	IRIAN JAYA REGION, INDONESIA
20	10	11	23.3&	34.627	S	71.224	W	86				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
20	10	15	04.0&	37.360	N	117.110	W	7				39	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. Mw 4.0 (BRK). MD 4.6 (REN). ML 4.5 (BRK), 4.4 (GS).
													Scalar Moment (BRK): Mo=1.1*10**15 Nm.
20	10	26	34.0&	34.570	N	116.300	W	0				23	SOUTHERN CALIFORNIA. <PAS-P>. MD 2.8 (PAS).
20	10	44	11.0&	34.810	N	116.270	W	6				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
20	10	44	37.0&	34.510	N	116.290	W	7				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
20	10	47	56.6	9.620	S	111.438	E	33	N	4.6	1.1	23	SOUTH OF JAWA, INDONESIA
20	11	06	53.7	52.371	N	162.242	E	33	N	4.8 4.1	0.9	95	OFF EAST COAST OF KAMCHATKA
20	11	07	02.2*	9.874	S	111.507	E	33	N	4.7	1.4	12	SOUTH OF JAWA, INDONESIA
20	11	09	53.0&	37.360	N	117.110	W	5				5	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
20	11	22	49.8	9.581	S	111.526	E	33	N	4.9 4.4	1.3	52	SOUTH OF JAWA, INDONESIA
20	12	34	39.0&	37.360	N	117.100	W	7				9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML 2.8 (GS).
20	13	38	43.3	57.197	S	24.012	W	33	N	5.3 5.1	1.1	57	SOUTH SANDWICH ISLANDS REGION. Mw 5.4 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 13:38:45.4; Lat 57.53 S; Lon 23.32 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.56, Plg=4, Azm=269; (N) Val=-0.54, Plg=38, Azm=175; (P) Val=-1.02, Plg=52, Azm=4; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=32, Dip=53, Slip=-39; NP2: Strike=148, Dip=60, Slip=-135.
20	14	21	16.0&	34.610	N	116.300	W	6	G			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
20	15	27	57.6	34.553	N	116.268	W	5	G		0.8	23	SOUTHERN CALIFORNIA. ML 2.8 (GS).
20	15	42	38.4*	42.120	N	142.322	E	103	*	4.2	0.7	11	HOKKAIDO, JAPAN REGION
20	15	45	43.6&	36.600	N	121.207	W	9				6	CENTRAL CALIFORNIA. <GM-P>. ML 3.2 (GM), 3.1 (BRK).
20	16	40	57.0&	34.680	N	116.360	W	8				39	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
20	16	43	45.4	9.092	S	117.746	E	112	*	4.7	1.4	21	SUMBAWA REGION, INDONESIA
20	16	55	33.4?	33.07	S	179.06	W	33	N	4.9	1.5	14	SOUTH OF KERMADEC ISLANDS
20	17	24	45.0&	62.792	N	151.951	W	0				12	CENTRAL ALASKA. <AEIC>. ML 2.9 (PMR).
20	18	13	40.0&	34.830	N	116.410	W	3				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
20	18	52	44.1	34.838	N	116.374	W	5	G		0.8	27	SOUTHERN CALIFORNIA. ML 2.9 (GS).
20	19	28	57.9&	23.700	N	121.050	E	26				5	TAIWAN. <TAP>. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i.
20	19	47	24.0&	34.600	N	116.300	W	6	G			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).

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20  20 00 42.9* 22.328 S   66.052 W  258 *  4.1      1.4   17  JUJUY PROVINCE, ARGENTINA
20  20 54 23.7* 10.902 S  164.742 E   33 N  4.8      1.2   15  SANTA CRUZ ISLANDS REGION
20  21 18 31.0& 34.800 N  116.290 W    5                    38  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
20  21 20 11.0& 44.100 N    6.900 E    2                     7  FRANCE. <LDG>. ML 1.7 (LDG).
20  21 58 56.5? 52.72  N  157.82  E  155              0.8   9  KAMCHATKA
20  22 17 45.0& 34.540 N  116.290 W    0                    29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
20  22 19 08.2& 37.066 N   15.953 E   10 G                   9  SICILY. <ROM>. ML 3.0 (ROM).
20  22 55 29.0& 34.770 N  116.350 W    2                    21  SOUTHERN CALIFORNIA. <PAS-P>. MD 2.9 (PAS).
20  23 08 19.5  40.770 N   29.087 E   10 G  4.6 4.4  1.3  125  TURKEY. MD 4.5 (ISK). Felt at Istanbul.
20  23 58 52.5   5.512 N  123.705 E  526    4.9       0.9   92  MINDANAO, PHILIPPINE ISLANDS. Mw 5.1 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                23:59:04.5; Lat 6.18 N; Lon 123.94 E; Dep 510.4; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=5.16, Plg=18, Azm=64; (N) Val=0.80, Plg=20, Azm=161;
                                                                (P) Val=-5.96, Plg=62, Azm=295; Best double couple:
                                                                Mo=5.6*10**16 Nm; NP1: Strike=126, Dip=32, Slip=-130; NP2:
                                                                Strike=350, Dip=66, Slip=-68.
21  00 01 24.0& 34.820 N  116.380 W    3                     5  SOUTHERN CALIFORNIA. <PAS-P>. MD 2.8 (PAS).
21  00 30 05.5& 23.980 N  120.670 E   12                     8  TAIWAN. <TAP>. ML 4.4 (TAP). Felt (III JMA) in the
                                                                epicentral area, (II JMA) at Tai-chung and (I JMA) at Chia-
                                                                i and Tai-nan.
21  00 46 19.0&  4.460 N   75.710 W   30                     8  COLOMBIA. <RSNC>. ML 3.7 (RSNC).
21  01 05 30.9  43.166 N    0.286 W   10 G           0.7   16  PYRENEES. ML 2.9 (LDG), 2.7 (STR). Felt (III) in the Ossau
                                                                Valley, France.
21  01 13 57.0& 34.820 N  116.380 W    6                    26  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
21  01 22 05.0  23.990 N  122.873 E   41 *  4.2       1.1   16  TAIWAN REGION
21  01 25 42.0& 34.860 N  116.400 W    4                    51  SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
21  01 52 01.0& 34.860 N  116.400 W    3                    28  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
21  01 54 06.0& 34.870 N  116.400 W    4                    28  SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS).
21  01 54 35.0& 34.800 N  116.410 W    2    4.7             59  SOUTHERN CALIFORNIA. <PAS-P>. ML 5.0 (PAS). Felt at Apple
                                                                Valley, Barstow, Newberry Springs and as far as the Los
                                                                Angeles area.
21  01 57 38.0& 34.860 N  116.390 W    4                    46  SOUTHERN CALIFORNIA. <PAS-P>. ML 5.0 (PAS). Felt at Apple
                                                                Valley, Barstow, Newberry Springs and as far as the Los
                                                                Angeles area.
21  02 01 48.0& 34.860 N  116.390 W    6 G                  18  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
21  02 33 19.1& 37.492 N  118.837 W    8                     7  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
21  03 34 18.0  24.005 N  122.760 E   47 D  4.4       1.2   24  TAIWAN REGION
21  03 37 58.0& 34.850 N  116.410 W    3                    27  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (GS).
21  03 47 01.4   5.895 N  125.870 E  158    4.7       1.1   40  MINDANAO, PHILIPPINE ISLANDS
21  03 56 59.0& 34.850 N  116.400 W    4                    37  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
21  04 04 27.0& 37.360 N  117.110 W    8                     4  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).
21  04 14 29.0& 34.640 N  116.310 W    1                    26  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
21  04 26 48.9  44.387 N  148.958 E   49 D  4.6       0.9   19  KURIL ISLANDS
21  05 12 02.0& 34.850 N  116.420 W    2                     5  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
21  05 12 13.4  51.632 N   16.139 E    5 G           0.6   10  POLAND. ML 3.4 (VIE).
21  05 14 37.2& 43.859 N    7.749 E    6                     8  NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN).
21  05 25 27.8  64.026 N  148.959 W   10 G           0.9   8  CENTRAL ALASKA. ML 2.7 (PMR).
21  05 33 39.0& 34.870 N  116.390 W    4                    27  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
21  05 47 38.0& 34.530 N  116.270 W    0                    37  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
21  06 36 16.0   1.606 S   78.082 W  166 D  4.8       0.9  126  ECUADOR
21  07 19 30.9  39.206 N   74.999 E   33 N  4.6       1.2   19  SOUTHERN XINJIANG, CHINA
21  08 14 37.0& 34.690 N  116.310 W    2                    31  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
21  08 18 00.0& 36.490 N   91.020 W   19    3.3             24  MISSOURI-ARKANSAS BORDER REGION. <TEIC>. mbLg 3.9 (GS). Felt
                                                                in Clay, Craighead, Fulton, Greene, Independence, Lawrence,
                                                                Randolph, Sharp and Stone Counties, Arkansas. Also felt in
                                                                parts of southeastern Missouri.
21  08 45 48.0& 38.210 N   21.780 E    5    4.3            113  GREECE. <ATH>. ML 4.4 (ATH), 4.1 (THE). Felt at Patrai.
21  08 49 48.4& 36.511 N   91.050 W   12                    10  MISSOURI-ARKANSAS BORDER REGION. <TEIC>. mbLg 3.1 (GS). Felt
                                                                in the epicentral area.
21  09 15 22.3  13.726 N  125.197 E   43 D  5.2 5.2  1.0  101  PHILIPPINE ISLANDS REGION. Mw 5.6 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                09:15:22.2; Lat 14.05 N; Lon 125.27 E; Dep 15.0 Fix; Half-
                                                                duration 1.6 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=3.13, Plg=3, Azm=30; (N) Val=-0.19, Plg=65, Azm=294;
                                                                (P) Val=-2.95, Plg=25, Azm=121; Best double couple:
                                                                Mo=3.0*10**17 Nm; NP1: Strike=163, Dip=71, Slip=-16; NP2:
                                                                Strike=258, Dip=75, Slip=-160.
21  09 46 10.0& 34.850 N  116.390 W    4                    35  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
21  09 48 38.8  49.803 N   18.493 E    5 G           1.0    8  CZECH AND SLOVAK REPUBLICS. ML 3.3 (CLL), 3.2 (VIE).
21  10 17 19.0& 34.860 N  116.410 W    3                    36  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
21  10 47 47.0  48.246 N    1.334 W   10 G           0.6   10  FRANCE. ML 2.7 (LDG).
21  11 30 35.9   9.867 S  119.336 E   33 N  3.6       1.4   13  SUMBA REGION, INDONESIA
21  11 41 26.0& 34.510 N  116.280 W    1                    27  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (GS).
21  12 02 31.0& 34.850 N  116.400 W    3                    35  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (GS).
21  12 14 53.0* 12.153 N  123.889 E   33 N           0.9    9  LUZON, PHILIPPINE ISLANDS
21  13 11 21.5& 34.418 S   72.304 W   33                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
21  13 40 02.1* 41.140 N  142.873 E   51 D  3.9       1.1   18  HOKKAIDO, JAPAN  REGION
21  13 41 42.0  41.271 N  142.822 E   33 N  5.0 4.2  0.8   82  HOKKAIDO, JAPAN  REGION. Mw 4.9 (HRV). Felt (I JMA) in
                                                                eastern Aomori and northern Iwate Prefectures, Honshu. Also
                                                                felt (I JMA) in southern Hokkaido.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                13:41:50.8; Lat 41.33 N; Lon 143.02 E; Dep 74.1; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=3.23, Plg=59, Azm=115; (N) Val=-0.60, Plg=31, Azm=306;
                                                                (P) Val=-2.62, Plg=5, Azm=213; Best double couple:
                                                                Mo=2.9*10**16 Nm; NP1: Strike=274, Dip=48, Slip=47; NP2:
                                                                Strike=149, Dip=57, Slip=127.
21  14 17 48.0& 34.690 N  116.300 W    6                    28  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
21  14 59 11.9& 34.654 N  116.292 W    2                    28  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
21  15 15 33.7  28.005 N  142.815 E   33 N  4.6       1.0   43  BONIN ISLANDS REGION
21  15 40 20.0& 40.355 N  124.262 W   31                     5  NEAR COAST OF NORTHERN CALIF. <GM-P>. ML 3.1 (GM).
21  15 50 43.0&  4.490 N   75.700 W   30                    10  COLOMBIA. <RSNC>. ML 3.7 (RSNC).
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21	16	22	17.0&	34.775	S	71.992	W	46				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
21	16	38	58.0&	5.090	N	76.410	W	100				11	COLOMBIA. <RSNC>. MD 4.2 (UPA).
21	17	14	35.7*	1.608	N	126.458	E	52	*	4.7	1.0	18	NORTHERN MOLUCCA SEA
21	17	18	58.5*	21.595	S	176.503	W	136	?	4.8	1.1	37	FIJI ISLANDS REGION
21	18	48	18.7&	32.727	S	70.942	W	70				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
21	19	14	32.3	34.905	N	23.923	E	34	*	4.2	1.1	34	CRETE
21	20	13	44.1&	36.880	N	1.570	W	0	G			6	WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.2 (MDD).
21	20	51	53.0	23.822	N	122.617	E	50	D	5.0	1.3	50	TAIWAN REGION. Mw 5.2 (HRV). Felt (I JMA) on Iriomote-jima, Ryukyu Islands. Centroid, Moment Tensor (HRV): Centroid origin time 20:51:52.8; Lat 23.52 N; Lon 123.23 E; Dep 38.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.04, Plg=58, Azm=296; (N) Val=2.13, Plg=18, Azm=57; (P) Val=-7.17, Plg=26, Azm=156; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=281, Dip=25, Slip=137; NP2: Strike=51, Dip=73, Slip=71.
21	21	23	39.6	50.645	N	172.773	W	33	N	4.2	0.8	31	ANDREANOF ISLANDS, ALEUTIAN IS.
21	21	29	49.0&	36.370	N	4.390	W	66				9	STRAIT OF GIBRALTAR. <MDD>.
21	21	44	38.0&	37.360	N	117.120	W	6				12	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN). ML 3.0 (GS).
21	22	07	31.2&	40.840	N	31.095	E	12				8	TURKEY. <ISK>. MD 3.2 (ISK).
21	22	57	10.0&	34.540	N	116.310	W	6	G			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (GS).
22	00	24	52.1?	24.35	S	179.94	E	500	G	4.3	1.3	14	SOUTH OF FIJI ISLANDS
22	00	46	19.0&	4.460	N	75.710	W	30				10	COLOMBIA. <RSNC>. ML 3.7 (RSNC).
22	00	56	50.1	27.544	N	141.798	E	110	*	4.5	0.9	38	BONIN ISLANDS REGION
22	01	17	44.0&	34.520	N	116.260	W	0				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
22	01	58	43.0&	34.560	N	116.260	W	0				39	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
22	02	18	58.5	23.445	N	120.506	E	33	N	5.7 5.6	1.0	299	TAIWAN. Mw 5.9 (GS), 5.9 (HRV). Me 5.7 (GS). One person killed, 254 people injured and 15 buildings collapsed in the Chia-i area. Maximum intensity (VI JMA) in eastern Chia-i, northern Tai-nan and southern Yun-lin Counties. Felt throughout Taiwan. Also felt (IV) in Hong Kong. Broadband Source Parameters (GS): Dep 14; NP1: Strike=50, Dip=55, Slip=130; NP2: Strike=174, Dip=51, Slip=47; Radiated energy 6.7*10**12 Nm. Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=7.27, Plg=76, Azm=336; (N) Val=-0.70, Plg=11, Azm=198; (P) Val=-6.57, Plg=9, Azm=107; Best double couple: Mo=6.9*10**17 Nm; NP1: Strike=184, Dip=37, Slip=72; NP2: Strike=26, Dip=55, Slip=103. Centroid, Moment Tensor (HRV): Centroid origin time 02:19:00.4; Lat 23.57 N Fix; Lon 120.20 E Fix; Dep 15.0 Bdy; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=7.19, Plg=63, Azm=20; (N) Val=-0.47, Plg=27, Azm=203; (P) Val=-6.72, Plg=1, Azm=113; Best double couple: Mo=6.9*10**17 Nm; NP1: Strike=178, Dip=49, Slip=54; NP2: Strike=46, Dip=52, Slip=125.
22	02	20	19.3&	39.328	N	27.867	E	9				8	TURKEY. <ISK>. MD 3.5 (ISK).
22	02	27	29.0*	23.469	N	120.685	E	33	N	4.0	1.2	17	TAIWAN. Felt (III JMA) at Chia-i and Tai-nan; (II JMA) at Kao-hsiung and Tai-chung.
22	02	35	16.3&	49.200	N	1.900	W	4				8	FRANCE. <LDG>. ML 2.6 (LDG).
22	02	43	27.9	23.824	N	120.602	E	33	N	4.6	0.8	14	TAIWAN. Felt (IV JMA) at Chia-i, (III JMA) at Tai-nan and (I JMA) at Kao-hsiung and Tai-chung.
22	03	10	19.0	23.433	N	120.508	E	33	N	5.2 5.3	1.0	147	TAIWAN. Mw 5.6 (HRV). Maximum intensity (VI JMA) at Chia-i. Felt (V JMA) at Tai-nan; (III JMA) at Hua-lien; (II JMA) at Kao-hsiung, Tai-chung and Tai-tung; (I JMA) at I-lan. Also felt (IV) in Hong Kong. Centroid, Moment Tensor (HRV): Centroid origin time 03:10:19.6; Lat 23.59 N; Lon 120.34 E; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.38, Plg=9, Azm=192; (N) Val=0.25, Plg=78, Azm=55; (P) Val=-2.63, Plg=8, Azm=283; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=327, Dip=78, Slip=0; NP2: Strike=237, Dip=90, Slip=168.
22	03	47	21.0&	34.860	N	116.410	W	4				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
22	03	49	33.0&	34.500	N	116.270	W	0				43	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
22	04	32	04.4&	37.519	N	118.825	W	4				10	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.1 (GM), 3.1 (BRK).
22	04	57	46.7*	23.972	S	179.714	E	550	G	4.3	1.0	27	SOUTH OF FIJI ISLANDS
22	05	50	02.0&	34.580	N	116.250	W	0				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
22	05	54	01.0&	34.700	N	116.360	W	3				14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
22	06	49	24.9	20.807	N	121.094	E	40	*	4.6	0.8	14	PHILIPPINE ISLANDS REGION
22	08	08	26.0&	34.850	N	116.430	W	2				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
22	08	34	15.9	23.442	N	120.505	E	33	N	4.7	1.3	37	TAIWAN. Felt (V JMA) at Chia-i, (III JMA) at Tai-nan, (II JMA) at Tai-chung and (I JMA) at Kao-hsiung.
22	09	48	52.8*	41.206	N	143.117	E	33	N		1.3	8	HOKKAIDO, JAPAN REGION
22	11	34	24.0&	34.600	N	116.290	W	6	G			46	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
22	11	43	30.2?	9.24	S	159.55	E	33	N		1.2	5	SOLOMON ISLANDS. Felt (III) at Honiara.
22	12	05	16.9	47.306	N	11.295	E	10	G		0.5	6	AUSTRIA. ML 2.3 (VIE).
22	12	40	52.0&	34.330	N	116.210	W	7				47	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
22	12	42	01.0	63.113	N	152.012	W	33	N		1.0	9	CENTRAL ALASKA. ML 2.8 (PMR).
22	13	43	14.0&	34.850	N	116.410	W	5				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
22	13	49	28.5	34.846	N	116.391	W	5	G		0.8	25	SOUTHERN CALIFORNIA. ML 3.0 (GS).
22	14	03	15.3*	6.020	N	126.191	E	78	*		0.9	9	MINDANAO, PHILIPPINE ISLANDS
22	14	10	48.2	11.322	N	139.195	E	10	G	4.8 4.5	1.2	53	WESTERN CAROLINE ISLANDS
22	15	07	06.0&	34.570	N	116.250	W	6	G			34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
22	15	18	53.7*	13.961	N	146.329	E	54	?	4.6 4.4	1.2	35	SOUTH OF MARIANA ISLANDS
22	15	22	34.8*	58.502	S	14.666	W	10	G	4.5	1.4	13	SOUTHWESTERN ATLANTIC OCEAN
22	16	08	48.0&	34.860	N	116.410	W	1		4.6		99	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.0 (PAS). Felt at Apple Valley, Hesperia and as far as the Los Angeles area.
22	16	24	04.0&	34.840	N	116.420	W	6	G			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
22	16	39	24.0&	34.820	N	116.380	W	5				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
22	16	48	23.0&	34.820	N	116.390	W	6	G			41	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).

22	16	51	36.0&	34.820	N	116.390	W	4				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
22	16	54	04.0&	34.850	N	116.390	W	5				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
22	16	54	11.7*	14.021	N	146.456	E	52 ?			1.0	16	MARIANA ISLANDS
22	17	27	05.7&	33.154	S	70.273	W	3				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
22	17	51	15.6&	38.077	N	112.727	W	5				45	UTAH. <SLC-P>. ML 4.2 (SLC). Felt at Minersville.
22	17	57	04.9	23.492	N	120.568	E	33 N	4.7		1.1	27	TAIWAN. Felt (V JMA) in the epicentral area; (IV JMA) at Chia-i; (II JMA) at Tai-chung and Tai-nan; (I JMA) at Hua-lien.
22	18	28	23.1*	42.209	N	143.846	E	44 D	4.5		1.0	22	HOKKAIDO, JAPAN REGION. Felt (I JMA) in the Hiroo and Kushiro areas.
22	18	44	26.4&	39.580	S	174.450	E	33 N				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.3 (WEL).
22	18	46	18.0&	31.789	S	69.811	W	155				9	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
22	19	06	05.0&	38.090	N	112.720	W	2				11	UTAH. <SLC-P>. ML 2.9 (SLC).
22	19	38	04.0&	34.820	N	116.400	W	2				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
22	19	57	44.2&	34.858	N	116.406	W	0				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
22	20	14	57.0&	34.860	N	116.420	W	1				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
22	20	16	01.0&	34.860	N	116.390	W	3				47	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
22	20	17	30.0&	34.860	N	116.390	W	3				38	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
22	20	38	44.0&	19.230	N	155.400	W	36				17	HAWAII. <HVO-P>. MD 4.1 (HVO).
22	20	48	29.1&	43.100	N	7.300	E	2				14	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.1 (LDG).
22	20	59	55.0&	34.860	N	116.360	W	0				39	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
22	21	00	44.9?	14.60	N	145.44	E	33 N			0.6	5	MARIANA ISLANDS
22	21	28	03.6	38.128	S	93.695	W	10 G	5.0	4.6	1.0	43	WEST CHILE RISE
22	22	02	36.5&	40.429	N	29.203	E	18				4	TURKEY. <ISK>. MD 2.5 (ISK).
22	22	07	35.1*	51.898	N	178.575	W	123 *	4.0		1.0	11	ANDREANOF ISLANDS, ALEUTIAN IS.
22	22	08	15.0&	34.850	N	116.420	W	4				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
22	22	14	32.0&	34.660	N	116.330	W	6				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
22	22	28	35.0&	59.289	N	152.040	W	51				6	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
22	23	03	45.9&	44.388	N	7.255	E	10				4	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
22	23	04	16.4?	16.79	S	173.45	W	33 N	4.6		1.4	10	TONGA ISLANDS
22	23	11	32.7&	34.663	N	116.284	W	1				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
22	23	27	52.7&	17.636	N	94.743	W	156	4.1			38	CHIAPAS, MEXICO. <UNM>. MD 4.4 (UNM).
22	23	45	47.3&	19.123	N	66.862	W	27				6	PUERTO RICO REGION. <MPR>. ML 3.5 (MPR).
22	23	55	19.0*	2.407	S	140.218	E	33 N	3.2		1.0	10	NEAR NORTH COAST OF IRIAN JAYA
23	00	17	49.8*	36.543	N	54.946	E	33 N	4.0		1.0	10	NORTHERN IRAN
23	00	33	27.6&	40.880	N	31.084	E	8				9	TURKEY. <ISK>. MD 3.5 (ISK).
23	01	09	29.7&	17.825	N	65.902	W	0				6	PUERTO RICO REGION. <MPR>. ML 3.2 (MPR).
23	01	50	25.0&	34.604	N	116.285	W	0				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
23	02	00	19.5&	39.249	N	27.699	E	10 G				13	TURKEY. <ISK>. MD 3.5 (ISK).
23	02	04	37.6&	40.640	N	29.104	E	17				6	TURKEY. <ISK>. MD 2.9 (ISK).
23	02	06	00.5	38.836	N	14.653	E	303	4.8		0.7	269	SICILY. MD 4.2 (PDG).
23	02	12	05.0	4.808	S	153.414	E	83 D	5.7	5.8	1.1	217	NEW IRELAND REGION, P.N.G. Mw 6.3 (HRV), 6.2 (GS). Me 5.9 (GS). Broadband Source Parameters (GS): Dep 58; NP1: Strike=170, Dip=85, Slip=90; NP2: Strike=350, Dip=5, Slip=90; Radiated energy 1.6*10**13 Nm. Moment Tensor (GS): Dep 58; Principal axes (scale 10**18 Nm): (T) Val=2.12, Plg=43, Azm=92; (N) Val=-0.05, Plg=19, Azm=342; (P) Val=-2.07, Plg=40, Azm=235; Best double couple: Mo=2.1*10**18 Nm; NP1: Strike=257, Dip=19, Slip=4; NP2: Strike=163, Dip=89, Slip=109. Centroid, Moment Tensor (HRV): Centroid origin time 02:12:07.8; Lat 4.83 S; Lon 153.34 E; Dep 42.5; Half-duration 3.2 sec; Principal axes (scale 10**18 Nm): (T) Val=2.80, Plg=52, Azm=86; (N) Val=0.20, Plg=9, Azm=344; (P) Val=-3.00, Plg=37, Azm=247; Best double couple: Mo=2.9*10**18 Nm; NP1: Strike=295, Dip=12, Slip=40; NP2: Strike=166, Dip=82, Slip=99.
23	02	25	01.1	38.112	N	23.179	E	33 N	4.6	4.4	0.8	88	GREECE
23	02	33	49.0&	41.250	N	125.140	W	24				28	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. ML 3.1 (GM).
23	02	49	52.1&	40.707	N	29.200	E	7				10	TURKEY. <ISK>. MD 3.1 (ISK).
23	02	51	52.2&	15.096	N	93.713	W	27	4.1			20	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.4 (UNM).
23	03	13	48.2*	18.019	S	178.546	W	600 G	4.4		1.0	38	FIJI ISLANDS REGION
23	03	23	22.4*	3.053	S	127.938	E	77 ?	3.9		1.4	9	SERAM, INDONESIA
23	03	29	07.6	34.822	N	116.375	W	5 G			0.6	22	SOUTHERN CALIFORNIA. ML 3.0 (GS).
23	03	52	27.8	34.524	N	116.269	W	5 G			0.8	23	SOUTHERN CALIFORNIA. ML 2.8 (GS).
23	04	07	38.1&	38.812	N	122.817	W	4				8	NORTHERN CALIFORNIA. <GM-P>. MD 2.7 (GM).
23	04	07	50.4?	31.04	S	69.27	W	150 G			0.7	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
23	04	54	19.2?	4.78	S	153.32	E	97 ?	4.4		1.0	6	NEW IRELAND REGION, P.N.G.
23	05	51	59.8*	56.073	S	25.767	W	33 N	4.6		0.9	12	SOUTH SANDWICH ISLANDS REGION
23	06	00	16.3&	37.507	N	118.820	W	2				7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
23	06	28	57.7	0.606	N	126.853	E	33 N	4.9		0.9	9	NORTHERN MOLUCCA SEA
23	09	43	44.7&	36.530	N	4.420	W	14				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
23	10	00	08.2*	33.343	N	140.456	E	100 *	4.7		1.2	30	SOUTH OF HONSHU, JAPAN. Felt (III JMA) on Hachijo-jima; (I JMA) on Miyake-jima and in southern Chiba Prefecture.
23	10	49	49.9	2.855	N	127.037	E	42 *	4.4		0.9	18	NORTHERN MOLUCCA SEA
23	10	56	54.5?	18.63	S	178.11	W	400 G	4.0		0.5	10	FIJI ISLANDS REGION
23	12	02	54.6*	24.146	N	120.938	E	33 N			0.7	9	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Tai-chung.
23	12	13	09.2	34.854	N	116.449	W	5 G			0.6	6	SOUTHERN CALIFORNIA. ML 3.0 (GS).
23	12	16	24.0&	34.360	N	116.130	W	1				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
23	12	31	34.6*	21.717	N	143.139	E	236 *	4.2		1.2	21	MARIANA ISLANDS REGION
23	12	33	33.7&	17.103	N	94.622	W	141				9	CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
23	13	02	44.0&	34.440	N	116.260	W	6				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
23	13	58	56.0&	34.850	N	116.400	W	3				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
23	14	29	22.7?	2.14	S	13.48	W	10 G			1.3	7	NORTH OF ASCENSION ISLAND
23	14	35	36.4&	40.633	N	122.416	W	23				9	NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).
23	15	05	48.8*	54.070	N	159.725	E	113 *	4.4		1.5	22	NEAR EAST COAST OF KAMCHATKA
23	15	19	36.0*	23.377	N	143.015	E	33 N	4.6		0.9	12	VOLCANO ISLANDS REGION
23	15	33	32.5&	43.000	N	1.700	E	5				5	FRANCE. <LDG>. ML 2.2 (LDG).
23	15	51	40.7*	47.027	N	11.908	E	10 G			0.2	6	AUSTRIA. ML 1.8 (VIE).
23	16	04	07.8*	12.067	N	95.287	E	33 N			1.4	9	ANDAMAN ISLANDS, INDIA
23	16	32	37.9*	26.120	N	91.988	E	41 D			0.8	9	NORTHEASTERN INDIA

23	16	52	26.3&	45.350	N	16.480	E	13				7	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.7 (VIE), 2.6 (ZAG), 2.2 (LJU).
23	16	59	55.6&	33.775	S	72.108	W	13				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
23	17	08	04.0	23.484	N	120.613	E	33	N	4.8	1.1	54	TAIWAN. Felt (V JMA) at Chia-i, (IV JMA) at Tai-nan and (II JMA) at Tai-chung.
23	18	18	55.3*	3.999	N	96.055	E	46	D	4.4	1.1	27	NORTHERN SUMATERA, INDONESIA
23	18	24	17.7&	34.457	S	70.086	W	3				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
23	18	29	51.5?	57.30	N	155.01	W	33	N		0.2	5	ALASKA PENINSULA. ML 3.0 (AEIC).
23	18	45	01.2&	62.079	N	147.993	W	37		4.0		29	CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC), 4.0 (PMR). Felt at Palmer and Sutton.
23	19	00	19.2*	5.130	S	145.007	E	84	*	4.4	1.0	13	EASTERN NEW GUINEA REG., P.N.G.
23	20	13	05.6?	25.44	S	179.50	E	500	G	4.3	0.6	10	SOUTH OF FIJI ISLANDS
23	20	13	47.2*	23.799	N	122.784	E	33	N	4.5	1.4	11	TAIWAN REGION
23	20	26	22.8?	29.18	N	142.48	E	33	N		0.8	8	SOUTH OF HONSHU, JAPAN
23	21	10	48.0	23.355	N	120.792	E	33	N	4.7	1.1	35	TAIWAN. Felt (IV JMA) in the epicentral area, (III JMA) at Chia-i and (II JMA) at Tai-nan.
23	21	31	49.7*	6.322	S	147.127	E	10	G		1.4	9	EASTERN NEW GUINEA REG., P.N.G.
23	21	53	02.3*	23.441	N	120.662	E	33	N		1.2	11	TAIWAN. Felt (IV JMA) at Chia-i and (I JMA) at Tai-chung.
23	22	06	51.8	23.345	N	120.704	E	33	N	4.1	1.2	18	TAIWAN. Felt (IV JMA) in the epicentral area and (III JMA) at Chia-i.
23	22	31	29.4*	17.969	S	178.013	W	400	G	3.7	0.9	14	FIJI ISLANDS REGION
23	22	35	46.1*	23.424	N	120.812	E	33	N	4.2	1.2	15	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i.
23	23	20	29.0	38.106	N	112.734	W	5	G		0.8	23	UTAH. ML 3.3 (GS).
24	00	08	29.2&	34.819	N	116.386	W	2				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
24	01	22	14.7	35.192	N	27.543	E	33	N	4.5	1.4	105	DODECANESE ISLANDS. MD 4.4 (ISK).
24	01	45	08.4&	16.940	N	101.089	W	20				21	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
24	01	48	54.0&	34.090	N	117.450	W	3				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt in the Fontana area.
24	02	21	59.0&	34.670	N	116.290	W	3				35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
24	02	34	47.8&	33.093	S	72.114	W	6				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
24	02	39	29.4*	23.789	N	121.271	E	33	N	4.2	1.3	16	TAIWAN. Felt (IV JMA) in the epicentral area; (II JMA) at Chia-i and Hua-lien; (I JMA) at Tai-chung.
24	04	11	18.0*	36.190	N	71.094	E	114	D	4.6	1.1	22	AFGHANISTAN-TAJIKISTAN BORD REG.
24	04	21	41.1	44.612	N	149.440	E	33	N	6.0 5.7	1.0	454	KURIL ISLANDS. Mw 6.4 (OBN), 6.0 (HRV), 5.8 (GS). Me 5.8 (GS). Felt (IV) at Kurilsk. Also felt (I JMA) in the Urakawa area, Hokkaido. Broadband Source Parameters (GS): Dep 25; NP1: Strike=350, Dip=60, Slip=65; NP2: Strike=213, Dip=38, Slip=126; Radiated energy 1.1*10**13 Nm. Moment Tensor (GS): Dep 29; Principal axes (scale 10**17 Nm): (T) Val=6.65, Plg=65, Azm=311; (N) Val=-0.02, Plg=10, Azm=198; (P) Val=-6.64, Plg=22, Azm=103; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=174, Dip=25, Slip=64; NP2: Strike=22, Dip=68, Slip=101. Centroid, Moment Tensor (HRV): Centroid origin time 04:21:46.4; Lat 44.70 N; Lon 149.54 E; Dep 32.0 Bdy; Half-duration 1.0 sec; Principal axes (scale 10**18 Nm): (T) Val=1.04, Plg=70, Azm=290; (N) Val=0.06, Plg=6, Azm=37; (P) Val=-1.10, Plg=19, Azm=129; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=229, Dip=27, Slip=103; NP2: Strike=34, Dip=64, Slip=83. Scalar Moment (OBN): Mo=4.8*10**18 Nm.
24	04	25	28.0&	34.360	N	116.190	W	3				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
24	04	28	39.3*	45.363	N	147.829	E	53	D	5.0	1.1	20	KURIL ISLANDS. Felt (I JMA) in the Nemuro area, Hokkaido.
24	04	28	43.0&	37.380	N	117.050	W	4				9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN).
24	04	31	20.0&	38.090	N	112.720	W	1				9	UTAH. <SLC-P>. ML 2.9 (SLC).
24	04	44	35.5?	37.61	S	177.68	E	196	*		1.5	21	OFF E. COAST OF N. ISLAND, N.Z.
24	04	57	38.9&	45.500	N	6.600	E	2				18	FRANCE. <LDG>. ML 2.3 (LDG).
24	06	44	31.7&	44.700	N	7.700	E	7				25	NORTHERN ITALY. <LDG>. ML 2.5 (GEN), 2.2 (STR), 2.0 (LDG).
24	07	13	35.4&	16.120	N	98.250	W	80				16	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
24	08	47	29.8*	19.861	N	145.833	E	122	D	4.5	1.3	30	MARIANA ISLANDS
24	08	59	46.4	34.841	S	112.032	W	10	G	5.3 5.4	0.9	63	SOUTHERN EAST PACIFIC RISE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:59:52.3; Lat 35.02 S; Lon 112.10 W; Dep 15.0 Fix; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=3.59, Plg=14, Azm=63; (N) Val=-0.61, Plg=76, Azm=226; (P) Val=-2.98, Plg=4, Azm=332; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=107, Dip=78, Slip=173; NP2: Strike=198, Dip=83, Slip=12.
24	09	02	53.9*	31.592	S	68.877	W	100	G		1.3	12	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
24	09	28	44.3*	1.953	S	100.852	E	33	N	4.4	1.0	16	SOUTHERN SUMATERA, INDONESIA
24	09	48	48.3*	42.669	N	144.874	E	33	N		1.3	8	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Kushiro area and (I JMA) in other parts of eastern Hokkaido.
24	10	39	06.0&	34.730	N	116.300	W	4				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
24	10	39	18.1&	39.790	S	177.130	E	45		4.5		33	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. Felt at Napier.
24	10	43	57.9&	61.675	N	150.583	W	46				12	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.5 (PMR).
24	11	42	02.8*	3.254	N	98.495	E	151	D	4.4	1.2	27	NORTHERN SUMATERA, INDONESIA
24	11	43	35.1	46.228	N	13.634	E	10	G		0.7	12	AUSTRIA. ML 3.1 (VIE), 2.4 (LJU). Felt (IV) at Bovec and Kobarid, Slovenia.
24	11	57	19.4&	46.000	N	1.900	W	2				9	FRANCE. <LDG>. ML 2.4 (LDG).
24	12	00	37.1*	11.333	N	139.468	E	33	N	4.4	0.9	10	WESTERN CAROLINE ISLANDS
24	12	13	24.0&	34.830	N	116.400	W	5				35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
24	12	14	00.5	46.359	N	153.301	E	33	N	5.1	1.0	162	KURIL ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:14:03.3; Lat 46.36 N Fix; Lon 153.30 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.36, Plg=67, Azm=287; (N) Val=-0.29, Plg=6, Azm=30; (P) Val=-5.07, Plg=22, Azm=123; Best double couple: Mo=5.2*10**16 Nm; NP1: Strike=223, Dip=24, Slip=104; NP2: Strike=28, Dip=67, Slip=84.
24	12	24	50.0	52.227	N	159.648	E	44		5.1 4.5	0.9	218	OFF EAST COAST OF KAMCHATKA. Mw 5.3 (HRV). Felt (II) at Petropavlovsk-Kamchatskiy.

Centroid, Moment Tensor (HRV): Centroid origin time 12:24:53.2; Lat 52.00 N; Lon 160.02 E; Dep 53.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.18, Plg=77, Azm=8; (N) Val=0.70, Plg=11, Azm=216; (P) Val=-8.88, Plg=6, Azm=125; Best double couple: Mo=8.5*10**16 Nm; NP1: Strike=202, Dip=40, Slip=72; NP2: Strike=45, Dip=52, Slip=105.

24 12 49 26.8 46.771 N 154.256 E 33 N 5.1 1.4 151 EAST OF KURIL ISLANDS. Mw 5.0 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 12:49:29.5; Lat 46.90 N; Lon 154.19 E; Dep 32.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.67, Plg=4, Azm=339; (N) Val=1.05, Plg=76, Azm=233; (P) Val=-4.72, Plg=13, Azm=70; Best double couple: Mo=4.2*10**16 Nm; NP1: Strike=114, Dip=78, Slip=-7; NP2: Strike=205, Dip=83, Slip=-168.

24 13 06 49.9* 17.558 N 119.629 E 33 N 4.3 1.3 13 PHILIPPINE ISLANDS REGION
24 13 37 57.2& 62.659 N 151.244 W 86 10 CENTRAL ALASKA. <AEIC>.
24 14 01 59.0* 5.546 S 125.623 E 545 * 4.5 0.9 15 BANDA SEA
24 14 24 33.9& 31.672 S 70.438 W 116 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
24 15 00 53.1& 40.963 N 29.445 E 17 6 TURKEY. <ISK>. MD 2.7 (ISK).
24 15 41 51.3 34.819 N 116.321 W 5 G 0.7 26 SOUTHERN CALIFORNIA. ML 3.4 (GS).
24 16 07 21.8* 3.141 S 127.872 E 33 N 4.1 1.3 11 SERAM, INDONESIA
24 16 14 12.3? 22.73 S 172.82 E 33 N 4.4 1.3 12 LOYALTY ISLANDS REGION
24 16 39 50.6* 8.566 S 73.778 W 178 ? 4.6 0.9 30 PERU-BRAZIL BORDER REGION
24 17 17 51.4& 44.206 N 7.091 E 6 4 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
24 17 18 11.7& 40.940 N 31.186 E 9 5 TURKEY. <ISK>. MD 2.9 (ISK).
24 18 00 28.9 34.694 N 116.273 W 5 G 0.8 23 SOUTHERN CALIFORNIA. ML 3.1 (GS).
24 18 01 44.4* 27.924 S 63.316 E 10 G 0.8 10 SOUTHWEST INDIAN RIDGE
24 18 16 52.8* 46.067 N 14.762 E 10 G 0.3 5 NORTHWESTERN BALKAN REGION. ML 1.9 (VIE).
24 18 19 12.0& 32.151 S 71.688 W 15 10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
24 18 19 37.2 34.380 N 116.115 W 5 G 0.6 25 SOUTHERN CALIFORNIA. ML 2.9 (GS).
24 18 58 23.6& 34.796 N 116.328 W 2 7 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
24 18 59 37.2* 13.912 N 125.222 E 33 N 4.2 1.4 12 PHILIPPINE ISLANDS REGION
24 19 29 29.7& 33.302 S 70.727 W 83 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).
24 20 36 58.4? 21.06 S 178.53 W 500 G 4.0 1.1 14 FIJI ISLANDS REGION
24 21 51 45.7& 39.077 N 40.252 E 12 6 TURKEY. <ISK>. MD 3.6 (ISK).
25 00 01 20.5 19.442 S 173.880 W 33 N 5.5 5.6 0.9 189 TONGA ISLANDS. Mw 5.9 (HRV), 5.8 (GS). Me 5.6 (GS).

Broadband Source Parameters (GS): Dep 14; NP1: Strike=170, Dip=30, Slip=80; NP2: Strike=2, Dip=61, Slip=96; Radiated energy 5.2*10**12 Nm.

Moment Tensor (GS): Dep 10; Principal axes (scale 10**17 Nm): (T) Val=6.38, Plg=64, Azm=306; (N) Val=0.11, Plg=14, Azm=184; (P) Val=-6.49, Plg=21, Azm=89; Best double couple: Mo=6.4*10**17 Nm; NP1: Strike=154, Dip=27, Slip=57; NP2: Strike=10, Dip=68, Slip=106.

Centroid, Moment Tensor (HRV): Centroid origin time 00:01:25.1; Lat 19.59 S; Lon 173.25 W; Dep 17.8 Fix; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=7.39, Plg=71, Azm=302; (N) Val=0.80, Plg=6, Azm=194; (P) Val=-8.19, Plg=18, Azm=102; Best double couple: Mo=7.8*10**17 Nm; NP1: Strike=182, Dip=27, Slip=77; NP2: Strike=17, Dip=63, Slip=97.

25 00 43 06.8 2.119 S 134.192 E 33 N 5.4 5.1 1.1 74 IRIAN JAYA REGION, INDONESIA. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 00:43:10.2; Lat 2.13 S; Lon 134.21 E; Dep 20.2 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.95, Plg=8, Azm=304; (N) Val=-0.31, Plg=2, Azm=34; (P) Val=-1.64, Plg=82, Azm=138; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=31, Dip=38, Slip=-93; NP2: Strike=215, Dip=53, Slip=-88.

25 01 50 43.7 2.150 S 134.136 E 33 N 4.8 1.3 28 IRIAN JAYA REGION, INDONESIA
25 02 03 16.5 15.916 N 147.590 E 33 N 4.8 1.0 33 MARIANA ISLANDS REGION
25 02 44 38.0 63.219 N 150.826 W 134 0.8 19 CENTRAL ALASKA
25 03 54 16.4& 32.259 S 71.810 W 28 10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
25 04 43 49.4& 8.912 N 82.840 W 14 5 PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 4.2 (UPA).
25 05 24 41.5 63.650 N 150.380 W 33 N 1.1 8 CENTRAL ALASKA. ML 2.5 (PMR).
25 06 22 48.0 42.117 N 25.179 E 10 G 1.0 10 BULGARIA
25 07 15 50.3? 12.25 N 143.33 E 33 N 1.3 6 SOUTH OF MARIANA ISLANDS
25 07 17 54.3? 12.20 N 143.30 E 33 N 1.2 9 SOUTH OF MARIANA ISLANDS
25 07 20 46.0& 34.610 N 116.290 W 9 28 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
25 07 28 30.7& 18.151 N 67.239 W 117 6 MONA PASSAGE. <MPR>. MD 2.5 (MPR).
25 07 29 55.5 31.971 N 142.251 E 33 N 5.7 5.5 1.0 356 SOUTH OF HONSHU, JAPAN. Mw 5.8 (HRV), 5.6 (GS). Me 5.7 (GS). Felt (I JMA) on Hachijo-jima and in the Tokyo area.

Broadband Source Parameters (GS): Dep 9; NP1: Strike=50, Dip=55, Slip=-45; NP2: Strike=170, Dip=55, Slip=-135; Radiated energy 7.3*10**12 Nm.

Moment Tensor (GS): Dep 17; Principal axes (scale 10**17 Nm): (T) Val=2.82, Plg=10, Azm=125; (N) Val=-0.10, Plg=5, Azm=216; (P) Val=-2.72, Plg=78, Azm=331; Best double couple: Mo=2.8*10**17 Nm; NP1: Strike=209, Dip=35, Slip=-99; NP2: Strike=39, Dip=56, Slip=-84.

Centroid, Moment Tensor (HRV): Centroid origin time 07:29:57.8; Lat 31.98 N Fix; Lon 142.30 E Fix; Dep 15.0 Bdy; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.19, Plg=0, Azm=280; (N) Val=-0.25, Plg=9, Azm=190; (P) Val=-4.94, Plg=81, Azm=11; Best double couple: Mo=5.1*10**17 Nm; NP1: Strike=19, Dip=46, Slip=-77; NP2: Strike=181, Dip=46, Slip=-103.

25 07 46 01.5 42.167 N 25.194 E 10 G 1.2 10 BULGARIA
25 08 04 45.6* 8.509 S 156.913 E 33 N 4.3 1.2 11 SOLOMON ISLANDS
25 08 50 11.6& 14.616 N 93.912 W 16 8 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
25 08 59 40.0& 44.860 N 115.940 W 10 G 10 WESTERN IDAHO. <BUT-P>. ML 2.8 (BUT).
25 09 21 32.6* 46.008 N 15.137 E 10 G 0.3 5 NORTHWESTERN BALKAN REGION. ML 1.4 (LJU).

25	09	40	44.9*	24.171	N	121.383	E	33	N	3.9	0.6	7	TAIWAN
25	10	07	40.2&	39.047	N	40.137	E	10	G			5	TURKEY. <ISK>. MD 3.5 (ISK).
25	10	14	22.7	12.693	N	88.423	W	57	D	4.2	1.4	62	OFF COAST OF CENTRAL AMERICA. MD 4.3 (CASC).
25	11	11	29.3*	34.515	N	136.864	E	341		4.1	0.9	21	WESTERN HONSHU, JAPAN
25	11	45	45.1*	8.482	S	156.611	E	33	N	4.4	0.7	13	SOLOMON ISLANDS
25	11	57	31.4	42.126	N	25.156	E	10	G		0.9	11	BULGARIA
25	12	03	23.8	4.488	S	144.003	E	102	*	4.3	1.3	25	NEAR N COAST OF NEW GUINEA, PNG.
25	12	53	08.0	21.006	N	120.890	E	33	N	4.2	1.1	14	TAIWAN REGION
25	13	03	26.8*	21.919	S	176.002	W	33	N	4.7	1.0	29	FIJI ISLANDS REGION
25	13	16	16.9*	54.057	S	7.263	E	10	G	4.9 4.5	1.1	17	BOUVET ISLAND REGION
25	13	46	01.3	21.026	N	121.095	E	33	N	4.4	1.1	30	TAIWAN REGION
25	13	47	01.4&	33.765	S	72.047	W	15				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
25	13	58	02.5*	8.593	S	106.104	E	33	N	4.8 4.3	1.1	17	SOUTH OF JAWA, INDONESIA
25	13	58	49.2	7.115	S	129.583	E	94	*	4.3	0.9	18	BANDA SEA
25	14	18	54.4*	57.914	S	25.505	W	33	N	4.4	1.0	11	SOUTH SANDWICH ISLANDS REGION
25	15	41	58.2&	45.062	N	7.519	E	20				47	NORTHERN ITALY. <GEN>. ML 3.0 (GEN), 2.7 (LDG), 2.5 (STR).
25	15	47	27.3&	34.804	N	116.259	W	4				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
25	16	06	34.9	63.416	N	151.374	W	33	N		1.3	8	CENTRAL ALASKA. ML 2.6 (PMR).
25	16	21	41.0?	32.00	S	178.17	W	33	N	4.5	0.9	11	KERMADEC ISLANDS REGION
25	16	32	22.0&	34.710	N	116.340	W	5				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
25	17	13	53.0&	37.160	N	117.810	W	11				7	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.7 (REN). ML 2.8 (GS).
25	17	17	57.5	34.643	N	116.284	W	5	G		0.6	23	SOUTHERN CALIFORNIA. ML 3.1 (GS).
25	17	26	35.2?	23.96	S	179.45	W	500	G	4.3	1.0	15	SOUTH OF FIJI ISLANDS
25	17	33	17.5*	10.176	N	93.673	E	33	N	4.0	1.3	13	ANDAMAN ISLANDS, INDIA
25	17	55	42.9&	40.880	S	176.210	E	55				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
25	18	24	45.0&	34.530	N	116.290	W	2				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
25	18	26	00.6&	34.616	N	116.242	W	0		4.6		66	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.6 (PAS).
25	18	32	39.9	30.013	N	69.410	E	33	N	4.9	1.1	52	PAKISTAN. Felt at Barkhan.
25	18	37	24.7	46.195	N	12.933	E	5	G		0.9	31	NORTHERN ITALY. ML 3.1 (FUR), 3.0 (VIE), 3.0 (LDG).
25	19	15	17.3	51.836	N	3.540	W	10	G		1.1	39	UNITED KINGDOM. ML 4.5 (STR), 3.8 (LDG). Felt at Brecon and throughout central Wales.
25	19	23	23.2	27.645	N	139.975	E	486	*	4.5	0.9	21	BONIN ISLANDS REGION
25	19	25	36.4	21.776	S	177.949	W	400	G	4.0	1.2	21	FIJI ISLANDS REGION
25	20	17	14.0&	34.859	N	116.399	W	1				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
25	20	31	42.3	38.699	S	175.803	E	159	D	5.5	1.1	266	NORTH ISLAND, NEW ZEALAND. Mw 6.2 (GS), 6.0 (HRV). Me 5.6 (GS). Felt throughout the North Island and as far south as Christchurch on the South Island. Broadband Source Parameters (GS): Dep 159; NP1: Strike=60, Dip=65, Slip=90; NP2: Strike=240, Dip=25, Slip=90; Radiated energy 6.4*10**12 Nm. Moment Tensor (GS): Dep 156; Principal axes (scale 10**18 Nm): (T) Val=2.38, Plg=33, Azm=360; (N) Val=-0.34, Plg=56, Azm=193; (P) Val=-2.04, Plg=6, Azm=93; Best double couple: Mo=2.2*10**18 Nm; NP1: Strike=142, Dip=63, Slip=20; NP2: Strike=42, Dip=72, Slip=151. Centroid, Moment Tensor (HRV): Centroid origin time 20:31:48.2; Lat 38.49 S; Lon 175.78 E; Dep 157.6; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=1.44, Plg=48, Azm=8; (N) Val=-0.48, Plg=41, Azm=198; (P) Val=-0.96, Plg=5, Azm=104; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=158, Dip=54, Slip=35; NP2: Strike=46, Dip=62, Slip=138.
25	21	38	12.7	16.759	N	98.423	W	33	N	4.2	1.2	40	NEAR COAST OF GUERRERO, MEXICO. MD 4.7 (UNM).
25	21	56	47.0&	37.880	N	117.280	W	8				11	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN).
25	22	38	40.6	43.382	N	147.639	E	33	N	4.8	1.0	28	KURIL ISLANDS
25	22	47	47.7&	18.616	N	66.769	W	23				6	PUERTO RICO REGION. <MPR>. ML 2.9 (MPR).
25	23	16	40.3	62.426	N	151.704	W	83	?		0.5	11	CENTRAL ALASKA
25	23	19	58.3&	36.846	N	99.659	W	26				5	OKLAHOMA. <TUL-P>. mbLg 3.0 (TUL). Felt at Harper.
26	00	22	34.0&	34.860	N	116.430	W	3				24	SOUTHERN CALIFORNIA. <PAS-P>. MD 2.9 (PAS).
26	01	36	37.7	49.360	N	129.124	W	10	G	4.4	0.8	84	VANCOUVER ISLAND REGION. ML 3.9 (PGC).
26	01	45	58.8&	38.836	N	122.772	W	3				16	NORTHERN CALIFORNIA. <GM-P>. ML 3.5 (GM), 3.5 (BRK).
26	02	19	04.5*	52.115	N	171.186	W	33	N		1.2	10	FOX ISLANDS, ALEUTIAN ISLANDS
26	02	19	12.9&	11.152	N	62.227	W	55				4	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
26	03	19	14.4	34.829	N	116.368	W	5	G		0.8	28	SOUTHERN CALIFORNIA. ML 3.2 (GS).
26	03	30	30.7	47.919	N	146.826	E	447	*	3.9	1.1	27	NORTHWEST OF KURIL ISLANDS
26	03	51	20.1	34.500	N	116.260	W	5	G		0.8	28	SOUTHERN CALIFORNIA. ML 3.3 (GS).
26	04	29	01.6	34.604	N	116.191	W	5	G		0.7	7	SOUTHERN CALIFORNIA. ML 3.1 (GS).
26	05	19	39.8	54.583	N	161.073	W	33	N	4.9 4.2	0.9	143	ALASKA PENINSULA. ML 4.9 (AEIC), 4.8 (PMR). Felt at King Cove and Sand Point.
26	07	18	41.4	44.798	N	10.679	E	10	G		1.3	63	NORTHERN ITALY. ML 3.9 (VIE), 3.4 (STR), 3.4 (LDG).
26	07	34	49.4&	18.302	N	64.741	W	143		4.1		27	VIRGIN ISLANDS. <MPR>. MD 4.3 (MPR).
26	08	17	42.5&	44.234	N	7.900	E	10				5	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
26	08	28	47.4&	40.746	N	27.563	E	5				9	TURKEY. <ISK>. MD 3.0 (ISK).
26	09	02	01.6&	61.602	N	148.054	W	19				10	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.0 (PMR).
26	09	35	53.8&	11.464	N	60.779	W	31		4.3		46	WINDWARD ISLANDS. <TRN>. MD 4.6 (FDF), 4.4 (TRN). Felt (III) on Trinidad and (II) on Tobago.
26	09	47	35.8	30.878	N	130.475	E	136		3.9	0.8	18	KYUSHU, JAPAN
26	11	10	48.4&	47.400	N	2.400	W	2				11	FRANCE. <LDG>. ML 2.6 (LDG).
26	11	25	04.8&	32.496	S	71.309	W	70				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
26	11	39	57.9&	47.908	N	114.893	W	12				36	MONTANA. <BUT-P>. ML 3.6 (BUT). Felt in the area 50 km west of Kalispell.
26	11	57	10.1*	30.185	N	51.816	E	33	N	4.5	1.4	12	NORTHERN IRAN
26	12	00	32.3&	64.989	N	149.069	W	17				9	CENTRAL ALASKA. <AEIC>. ML 3.4 (PMR).
26	12	22	44.3&	64.989	N	149.056	W	0				7	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).
26	12	28	56.0&	42.787	N	18.900	E	21				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).
26	13	03	14.1&	39.592	N	30.926	E	32				11	TURKEY. <ISK>. MD 3.6 (ISK).
26	13	46	38.7	37.937	N	21.196	E	10	G	4.4	1.3	57	SOUTHERN GREECE. Felt in the Killini area.
26	14	06	00.2*	8.692	S	106.331	E	33	N	3.9	1.2	11	SOUTH OF JAWA, INDONESIA
26	14	20	53.5*	6.286	S	146.824	E	100	*	4.1	1.4	18	EASTERN NEW GUINEA REG., P.N.G.
26	14	47	42.5&	64.962	N	149.077	W	21				5	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 2.9 (PMR).
26	15	10	58.0	46.256	N	13.729	E	5	G		1.2	20	AUSTRIA. ML 2.9 (VIE), 2.5 (TRI).
26	15	42	11.7&	18.124	N	67.260	W	29				4	MONA PASSAGE. <MPR>. ML 3.1 (MPR).

26	17	25	44.6*	27.705	N	56.635	E	33	N	4.0	1.1	9	SOUTHERN IRAN
26	17	32	23.9*	43.657	N	150.403	E	33	N	4.3	0.9	13	EAST OF KURIL ISLANDS
26	18	40	15.3	0.582	N	120.864	E	33	N	5.3 4.6	1.1	111	MINAHASSA PENINSULA, SULAWESI
26	18	48	08.6&	19.553	N	66.225	W	36				7	PUERTO RICO REGION. <MPR>. MD 3.6 (MPR).
26	18	53	04.2?	4.99	N	94.14	E	33	N	4.4	1.5	10	OFF W COAST OF NORTHERN SUMATERA
26	19	06	28.4*	14.079	N	91.875	W	33	N	4.2	1.3	22	GUATEMALA. MD 4.5 (UNM).
26	19	23	40.1*	28.998	N	142.566	E	6	?	4.5	1.2	18	BONIN ISLANDS REGION
26	19	42	53.6?	11.36	N	87.10	W	33	N	4.4	1.0	6	NEAR COAST OF NICARAGUA
26	19	45	28.3*	6.468	S	147.341	E	56	*	4.4	1.2	19	EASTERN NEW GUINEA REG., P.N.G.
26	19	50	59.5&	60.204	N	140.901	W	0		3.7		16	SOUTHEASTERN ALASKA. <AEIC>. ML 4.1 (AEIC), 4.1 (PGC), 4.3 (PMR). Felt at Yakutat.
26	20	14	19.6&	32.827	S	70.779	W	79				27	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.4 (GUC). Felt (III) at Calle Larga, Concon, Hijuelas, La Ligua, Limache, Olmue, Panquehue, Puchuncavi, Quintero, San Antonio, San Esteban and Santa Maria; (II) at La Serena, Quillota, Valparaiso and Vina del Mar.
26	20	18	28.2*	29.458	N	140.882	E	64	?	4.5	1.1	12	SOUTH OF HONSHU, JAPAN
26	20	27	34.6&	60.194	N	140.993	W	14		4.2		34	SOUTHEASTERN ALASKA. <AEIC>. ML 4.1 (AEIC), 4.1 (PGC), 4.2 (PMR). Felt at Yakutat.
26	20	44	20.3*	38.395	N	20.642	E	10	G		1.5	12	GREECE
26	20	58	58.8&	32.460	S	71.268	W	53				6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
26	21	08	56.0&	45.000	N	5.700	E	2				13	FRANCE. <LDG>. ML 1.9 (LDG).
26	21	54	07.1&	60.244	N	150.839	W	64				14	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (PMR).
26	22	16	19.0&	38.710	N	119.630	W	9				9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.3 (BRK).
26	22	49	18.8	45.674	N	142.370	E	306		4.4	0.8	138	HOKKAIDO, JAPAN REGION
26	22	52	13.0&	6.740	N	73.180	W	160		4.6		56	NORTHERN COLOMBIA. <RSNC>. Felt at Bucaramanga.
26	22	59	36.0&	36.450	N	117.920	W	11				39	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. Mw 4.1 (BRK). MD 4.2 (REN). Moment Tensor (BRK): Dep 8; Principal axes (scale 10**15 Nm): (T) Val=1.43, Plg=13, Azm=273; (N) Val=0.00, Plg=63, Azm=156; (P) Val=-1.43, Plg=23, Azm=8; Best double couple: Mo=1.4*10**15 Nm; NP1: Strike=142, Dip=83, Slip=-154; NP2: Strike=49, Dip=64, Slip=-8.
26	23	03	12.7&	62.599	N	151.519	W	99				11	CENTRAL ALASKA. <AEIC>.
26	23	18	57.6&	36.220	N	3.120	W	17				8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
26	23	34	38.5*	46.447	S	34.708	E	10	G	4.4 4.1	1.2	9	PRINCE EDWARD ISLANDS REGION
26	23	56	07.0*	1.170	N	126.251	E	33	N	4.0	0.1	6	NORTHERN MOLUCCA SEA
27	01	09	34.2	45.092	N	17.068	E	10	G		0.5	16	NORTHWESTERN BALKAN REGION. ML 3.2 (ZAG), 2.9 (TRI).
27	01	29	33.0*	51.399	N	178.473	E	33	N	4.3	1.3	15	RAT ISLANDS, ALEUTIAN ISLANDS
27	02	22	49.5*	23.843	S	112.039	W	10	G	4.3	0.8	14	EASTER ISLAND REGION
27	02	53	53.6&	17.072	N	99.677	W	12				17	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
27	03	26	44.0&	34.550	N	116.260	W	5				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
27	03	45	26.5&	17.029	N	98.760	W	30				16	GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
27	03	46	26.0&	34.670	N	116.310	W	3				6	SOUTHERN CALIFORNIA. <PAS-P>. MD 3.0 (PAS).
27	03	56	52.4&	43.200	N	0.900	W	8				21	PYRENEES. <LDG>. ML 2.6 (STR), 2.3 (LDG). mbLg 2.2 (MDD).
27	04	01	12.2*	21.670	N	121.576	E	33	N	4.1	1.2	11	TAIWAN REGION
27	04	09	30.1	23.681	S	111.615	W	10	G	5.3 5.2	0.8	116	EASTER ISLAND REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:09:37.9; Lat 23.69 S; Lon 111.76 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.87, Plg=2, Azm=63; (N) Val=0.37, Plg=25, Azm=154; (P) Val=-3.24, Plg=65, Azm=329; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=130, Dip=48, Slip=-124; NP2: Strike=355, Dip=52, Slip=-58.
27	04	27	33.2*	23.744	S	111.953	W	10	G	4.4	0.6	10	EASTER ISLAND REGION
27	05	00	18.6*	38.085	N	23.600	E	33	N	3.9	1.1	18	GREECE
27	05	05	07.1	79.221	N	124.397	E	10	G	4.8 4.5	1.0	121	EAST OF SEVERNAYA ZEMLYA, RUSSIA
27	05	32	38.0&	40.535	N	29.245	E	6				9	TURKEY. <ISK>. MD 3.0 (ISK).
27	05	45	27.9&	44.699	N	6.846	E	12				10	FRANCE. <GEN>. ML 2.3 (GEN).
27	06	34	46.1*	52.273	N	173.705	W	33	N		1.2	11	ANDREANOF ISLANDS, ALEUTIAN IS.
27	06	37	43.1*	51.377	N	16.285	E	5	G		0.9	9	POLAND. ML 3.6 (VIE).
27	08	22	38.0&	34.620	N	116.240	W	0				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
27	08	38	52.0*	52.092	N	171.261	W	33	N		0.9	17	FOX ISLANDS, ALEUTIAN ISLANDS
27	08	54	45.6&	33.648	S	70.533	W	97				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).
27	09	30	29.5&	19.682	N	66.350	W	41				8	PUERTO RICO REGION. <MPR>. MD 3.7 (MPR).
27	10	19	34.2	53.302	N	159.728	E	33	N	4.5	0.9	38	NEAR EAST COAST OF KAMCHATKA
27	12	04	02.3&	36.880	N	4.380	W	0	G			5	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
27	12	42	25.0&	34.820	N	116.390	W	3				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
27	13	24	40.1	31.865	N	142.092	E	33	N	5.2 4.8	0.9	107	SOUTH OF HONSHU, JAPAN
27	13	28	13.6	31.841	N	142.092	E	33	N	5.2	0.8	98	SOUTH OF HONSHU, JAPAN
27	14	01	52.3*	8.606	N	126.995	E	33	N		1.4	13	MINDANAO, PHILIPPINE ISLANDS
27	14	24	26.8&	17.663	N	98.467	W	68				17	GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
27	15	02	52.6	41.610	N	142.019	E	91	*	4.3	0.7	15	HOKKAIDO, JAPAN REGION
27	15	06	26.1&	15.952	N	96.804	W	68				10	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
27	15	40	57.4	11.337	N	126.186	E	33	N	4.3	1.3	21	PHILIPPINE ISLANDS REGION
27	15	49	50.1	41.679	N	142.000	E	74	D	4.1	0.7	23	HOKKAIDO, JAPAN REGION
27	15	56	25.1	38.146	N	74.225	E	165		4.4	0.9	46	TAJIKISTAN-XINJIANG BORDER REG.
27	17	21	12.0&	61.525	N	147.831	W	17				5	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
27	19	47	06.0&	34.620	N	116.260	W	15				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
27	20	02	13.7*	33.804	N	91.090	E	77	?	4.7	1.5	19	QINGHAI, CHINA
27	20	18	42.0&	34.530	N	116.280	W	8				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
27	21	02	31.0&	34.860	N	116.420	W	3				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
27	21	07	54.1&	59.809	N	152.787	W	85				6	SOUTHERN ALASKA. <AEIC>.
27	21	12	25.3	51.461	N	172.250	W	56	D	4.6	0.8	27	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.2 (PMR).
27	21	22	14.5	7.433	S	128.042	E	115	*	4.3	1.1	24	BANDA SEA
27	22	35	38.0&	34.480	N	116.220	W	2				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
27	23	05	15.4&	60.760	N	149.529	W	39				11	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC), 3.0 (PMR).
28	00	08	28.5*	3.668	N	126.595	E	56	?	4.8	1.1	22	TALAUD ISLANDS, INDONESIA
28	00	33	02.0&	34.610	N	116.280	W	3				22	SOUTHERN CALIFORNIA. <PAS-P>. MD 2.9 (PAS).
28	00	37	21.7*	54.199	S	6.802	E	33	N	4.5	0.9	10	BOUVET ISLAND REGION
28	00	42	37.0&	34.680	N	116.360	W	1				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
28	02	03	52.0&	49.360	N	6.900	E	1	G			7	GERMANY. <FBB>. ML 2.0 (FBB). Mining induced event in the

													Lorraine region, France.
28	02	27	25.6&	32.887	S	69.848	W	121				13	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
28	02	29	58.0&	34.870	N	116.380	W	7				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
28	03	03	10.2&	36.850	N	4.580	W	53				39	STRAIT OF GIBRALTAR. <MDD>.
28	03	15	54.2	51.599	N	16.131	E	5	G		1.0	53	POLAND. ML 4.4 (GRF), 3.9 (VIE), 3.8 (FUR).
28	03	29	00.3&	42.410	N	19.805	E	15				8	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
28	03	50	38.2?	53.88	N	158.23	E	150	*	4.4	1.4	14	NEAR EAST COAST OF KAMCHATKA
28	04	08	12.6	53.379	N	167.393	W	33	N	4.4	1.1	26	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
28	04	54	24.8	47.371	N	9.979	E	10	G		1.2	65	GERMANY. ML 3.5 (GRF), 3.2 (FBB), 3.2 (VIE), 3.2 (STR), 3.2 (LDG). Felt (V) at Schnepfau, Austria.
28	05	04	22.4&	43.070	N	1.350	W	2	G			4	PYRENEES. <STR>. ML 2.1 (STR).
28	06	06	49.3*	14.447	S	167.881	E	33	N	4.2	1.3	45	VANUATU ISLANDS
28	06	16	32.7?	8.35	S	159.07	E	58	?	4.0	1.2	9	SOLOMON ISLANDS
28	06	44	57.7&	62.668	N	151.235	W	87				8	CENTRAL ALASKA. <AEIC>.
28	06	58	40.9	39.463	N	144.682	E	33	N	5.3 4.7	0.8	190	OFF EAST COAST OF HONSHU, JAPAN. Mw 5.5 (HRV). Felt (I JMA) in southern Iwate Prefecture. Also felt (I JMA) in the Kushiro and Urakawa areas, Hokkaido. Centroid, Moment Tensor (HRV): Centroid origin time 06:58:42.6; Lat 39.46 N Fix; Lon 144.68 E Fix; Dep 24.5; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.65, Plg=35, Azm=299; (N) Val=0.04, Plg=9, Azm=203; (P) Val=-1.69, Plg=54, Azm=101; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=63, Dip=13, Slip=-49; NP2: Strike=201, Dip=80, Slip=-99.
28	07	07	24.0&	47.470	N	115.810	W	2				16	MONTANA. <BUT-P>. MD 3.0 (BUT). Felt at Mullan and Silverton, Idaho.
28	07	28	52.0&	44.490	N	8.575	E	3				25	NORTHERN ITALY. <GEN>. ML 2.6 (LDG), 2.5 (GEN), 2.3 (STR).
28	07	44	56.5*	3.598	N	126.624	E	81	*		0.7	10	TALAUD ISLANDS, INDONESIA
28	07	55	29.0&	42.450	S	175.050	E	12				11	OFF E. COAST OF S. ISLAND, N.Z. <WEL>. ML 3.9 (WEL).
28	08	18	56.4&	35.872	S	71.383	W	163				8	CENTRAL CHILE. <GUC>.
28	10	16	13.5	45.251	N	11.453	E	10	G		1.0	16	NORTHERN ITALY. ML 3.1 (VIE).
28	10	31	28.0	2.736	S	134.316	E	33	N	4.4	0.9	40	IRIAN JAYA REGION, INDONESIA
28	10	39	39.0*	52.481	N	172.707	E	33	N	4.4	1.1	24	NEAR ISLANDS, ALEUTIAN ISLANDS
28	10	53	58.3&	44.386	N	6.763	E	1				29	FRANCE. <GEN>. ML 2.3 (GEN), 2.1 (LDG), 1.9 (STR).
28	11	01	59.2*	45.363	N	25.328	E	10	G		1.4	7	ROMANIA
28	11	16	16.0*	2.812	N	126.366	E	93	*	4.4	0.8	13	NORTHERN MOLUCCA SEA
28	11	34	02.3*	46.169	N	15.943	E	10	G		0.9	6	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
28	12	00	43.1	33.217	N	139.365	E	33	N	4.3	0.6	16	SOUTH OF HONSHU, JAPAN
28	12	20	01.6&	42.920	N	0.310	E	8				13	PYRENEES. <STR>. ML 2.4 (STR), 2.3 (LDG).
28	12	38	55.1	18.720	N	67.245	W	33	N	4.1	0.4	13	MONA PASSAGE. MD 4.1 (MPR). Felt in western Puerto Rico.
28	12	44	38.9&	18.812	N	67.354	W	15				8	MONA PASSAGE. <MPR>. ML 3.5 (MPR).
28	13	35	08.1&	44.400	N	7.430	E	2	G			10	NORTHERN ITALY. <STR>. ML 2.5 (LDG), 1.9 (STR).
28	14	04	07.1*	48.848	N	15.043	E	10	G		0.5	5	AUSTRIA. ML 2.3 (VIE).
28	14	05	40.9&	37.730	S	176.640	E	182				19	NORTH ISLAND, NEW ZEALAND. <WEL>.
28	14	44	30.6&	31.597	S	71.454	W	66				4	NEAR COAST OF CENTRAL CHILE. <GUC>.
28	15	02	03.2&	56.994	N	155.787	W	46		4.5		80	ALASKA PENINSULA. <AEIC>. ML 4.4 (AEIC), 4.5 (PMR).
28	15	06	38.9	46.629	N	15.197	E	10	G		1.3	8	NORTHWESTERN BALKAN REGION. ML 2.3 (LJU), 2.2 (VIE).
28	15	13	14.2&	32.468	S	71.498	W	54				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
28	15	39	13.4	30.414	N	35.136	E	10	G	4.3	0.9	17	DEAD SEA REGION. Felt at Rehovot, Israel.
28	16	06	48.1	48.422	N	19.064	E	5	G		1.3	9	CZECH AND SLOVAK REPUBLICS. MG 3.1 (WAR).
28	16	39	20.0&	34.620	N	116.270	W	1				25	SOUTHERN CALIFORNIA. <PAS-P>. MD 3.2 (PAS).
28	16	45	59.4&	38.510	S	176.510	E	5				5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
28	17	06	24.4*	16.517	N	95.988	E	98	?	4.6	0.6	12	NEAR SOUTH COAST OF MYANMAR
28	17	10	45.0&	34.540	N	116.290	W	1				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
28	20	03	22.0	5.122	N	123.915	E	488		4.5	1.0	49	MINDANAO, PHILIPPINE ISLANDS
28	20	10	01.1*	40.511	N	72.708	E	33	N	3.8	0.7	9	KYRGYZSTAN
28	21	18	20.4&	62.858	N	151.086	W	7				15	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.8 (PMR).
28	21	20	11.2&	44.339	N	7.325	E	18				6	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
28	22	29	20.9*	10.575	N	124.899	E	33	N		1.1	6	LEYTE, PHILIPPINE ISLANDS
28	23	26	01.7?	10.37	N	62.88	W	72	*		1.1	15	NEAR COAST OF VENEZUELA. MD 4.0 (TRN).
28	23	39	38.2	36.242	N	71.033	E	230	*	4.0	0.9	71	AFGHANISTAN-TAJIKISTAN BORD REG.
29	00	37	48.1?	45.74	N	26.58	E	100	G		0.4	5	ROMANIA
29	03	56	52.8*	23.917	N	122.368	E	62	*	4.0	1.4	14	TAIWAN REGION. Felt (I JMA) on Iriomote-jima, Ryukyu Islands.
29	04	49	50.1*	50.045	N	18.466	E	5	G		0.6	6	POLAND. MG 2.7 (WAR).
29	05	30	46.0&	34.360	N	116.140	W	4				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
29	09	13	55.2&	43.930	N	8.720	E	5	G			6	CORSICA. <STR>. ML 2.2 (STR).
29	09	33	03.7	13.877	N	91.704	W	33	N	4.5	1.0	73	NEAR COAST OF GUATEMALA
29	10	03	41.4&	40.487	N	29.332	E	15				10	TURKEY. <ISK>. MD 2.9 (ISK).
29	10	07	56.9&	39.688	N	30.415	E	0				9	TURKEY. <ISK>. MD 3.0 (ISK).
29	11	20	27.6&	60.113	N	153.196	W	121				8	SOUTHERN ALASKA. <AEIC>.
29	12	09	16.0&	9.150	S	113.400	E	60				5	SOUTH OF JAWA, INDONESIA. <DJA>.
29	12	36	37.0&	34.520	N	116.270	W	0				51	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS).
29	13	13	48.0&	34.520	N	116.290	W	0				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
29	13	31	10.5&	40.121	N	29.399	E	8				8	TURKEY. <ISK>. MD 3.0 (ISK).
29	13	39	25.6&	33.443	S	71.864	W	54				8	NEAR COAST OF CENTRAL CHILE. <GUC>.
29	13	45	58.9	52.191	N	171.234	W	33	N	4.6	0.9	64	FOX ISLANDS, ALEUTIAN ISLANDS
29	13	46	32.1&	18.258	N	99.342	W	12				17	GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
29	14	05	48.0	3.560	N	75.805	W	200		4.2	0.8	43	COLOMBIA
29	15	22	19.2	34.301	N	25.185	E	33	N	3.9	1.0	18	CRETE
29	15	25	29.8	20.293	S	176.350	W	265	D	4.9	0.7	150	FIJI ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:25:33.5; Lat 20.57 S; Lon 175.76 W; Dep 275.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=60, Azm=305; (N) Val=-0.13, Plg=1, Azm=36; (P) Val=-0.95, Plg=30, Azm=127; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=221, Dip=15, Slip=94; NP2: Strike=36, Dip=75, Slip=89.
29	16	05	59.0&	34.520	N	116.240	W	7				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
29	16	22	51.0&	34.560	N	116.260	W	1				12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
29	17	13	37.7*	22.961	S	70.116	W	102	?	4.3	1.1	30	NEAR COAST OF NORTHERN CHILE
29	17	43	16.0&	34.800	N	116.330	W	4				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
29	17	50	01.7	43.226	N	10.684	E	10	G		0.5	22	CENTRAL ITALY. ML 3.1 (LDG).
29	18	30	51.9&	43.000	N	0.300	E	10				39	FRANCE. <LDG>. ML 3.1 (LDG), 2.7 (STR). mbLg 3.0 (MDD).

29	18	37	05.8*	48.352	N	19.172	E	33	N		0.7	6	CZECH AND SLOVAK REPUBLICS. MG 2.6 (WAR).
29	19	22	15.5*	44.407	N	147.238	E	95	*	3.5	1.1	13	KURIL ISLANDS
29	20	06	42.3&	63.355	N	149.159	W	92				12	CENTRAL ALASKA. <AEIC>.
29	20	08	24.4&	33.131	S	70.278	W	6				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
29	20	48	41.8&	15.621	N	99.061	W	30				7	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
29	20	57	46.4	34.548	N	116.244	W	5	G		1.0	22	SOUTHERN CALIFORNIA. ML 2.9 (PAS).
29	21	14	33.9&	40.380	N	122.006	W	19				7	NORTHERN CALIFORNIA. <GM-P>. MD 2.7 (GM).
29	21	25	52.6	34.027	N	133.424	E	38	*	4.5	1.2	18	NEAR S. COAST OF WESTERN HONSHU. Felt (IV JMA) in western Kagawa Prefecture and (II JMA) in other parts of northern Shikoku. Also felt (II JMA) in southeastern Hiroshima and southwestern Okayama Prefectures, Honshu. Felt in much of Shikoku and western Honshu.
29	21	41	36.8&	44.600	N	6.200	E	2				7	FRANCE. <LDG>. ML 1.8 (LDG).
29	21	50	34.1	46.282	N	13.581	E	10	G		0.7	10	AUSTRIA. ML 2.7 (VIE), 2.3 (TRI).
29	22	10	02.4	37.855	N	31.947	E	10	G	4.1	1.3	29	TURKEY
29	22	18	16.7&	17.145	N	96.050	W	24				8	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
29	22	33	57.6&	45.800	N	7.000	E	2				7	NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
29	23	45	00.2*	24.048	N	122.728	E	10	G	4.3	1.1	16	TAIWAN REGION. Felt (I JMA) on Iriomote-jima, Ryukyu Islands.
30	00	48	37.6	34.659	N	141.626	E	34		5.1 4.9	0.8	138	OFF EAST COAST OF HONSHU, JAPAN. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:48:39.7; Lat 34.66 N Fix; Lon 141.63 E Fix; Dep 48.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.63, Plg=18, Azm=336; (N) Val=0.52, Plg=54, Azm=219; (P) Val=-7.15, Plg=30, Azm=77; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=113, Dip=55, Slip=-9; NP2: Strike=209, Dip=82, Slip=-145.
30	01	03	38.5*	51.711	N	16.233	E	5	G		0.8	7	POLAND. MG 2.7 (WAR).
30	01	53	59.9&	38.190	N	23.520	E	5		4.2		11	GREECE. <ATH>. ML 3.7 (ROM). Felt at Athens.
30	02	36	01.1&	43.000	N	0.600	W	3				30	PYRENEES. <LDG>. ML 2.9 (LDG), 2.5 (STR). mbLg 2.7 (MDD).
30	02	55	40.2&	43.030	N	0.620	W	10	G			8	PYRENEES. <STR>. ML 2.2 (STR), 1.7 (LDG).
30	03	03	05.8*	2.114	N	127.995	E	33	N	4.6	1.3	15	NORTHERN MOLUCCA SEA
30	03	03	55.1*	18.143	S	168.171	E	33	N	4.6 3.8	0.9	29	VANUATU ISLANDS
30	03	08	52.0&	44.770	N	111.200	W	8				24	HEBGEN LAKE REGION. <SLC-P>. ML 2.4 (SLC), 3.0 (BUT). Felt in the Hebgen Lake area.
30	03	32	59.0&	34.850	N	116.360	W	6	G			41	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS). Felt at Twentynine Palms.
30	03	36	05.2	46.100	N	14.688	E	10	G		0.4	11	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 2.1 (LJU).
30	03	36	40.8&	46.108	N	14.674	E	10	G		0.5	6	NORTHWESTERN BALKAN REGION. ML 1.6 (LJU).
30	03	44	06.7&	36.770	N	5.730	W	0	G			6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
30	04	04	18.0&	36.760	N	5.730	W	0				7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
30	04	07	36.1&	36.770	N	5.730	W	10				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.6 (MDD).
30	04	29	59.3&	36.780	N	5.790	W	0	G			6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.6 (MDD).
30	05	02	46.1&	12.654	N	122.802	E	33	N		1.5	7	LUZON, PHILIPPINE ISLANDS
30	05	07	49.0&	36.770	N	5.780	W	1				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
30	05	30	13.3&	44.132	N	7.141	E	6				4	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
30	05	48	55.5&	43.346	N	18.421	E	8				11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).
30	07	02	48.0*	24.041	N	121.495	E	33	N	4.3	1.3	12	TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Hua-lien and (I JMA) at Taipei.
30	07	09	09.5	37.765	N	19.982	E	5	G	4.7	0.7	72	IONIAN SEA. MD 4.6 (PDG). ML 4.4 (THE).
30	07	32	48.7*	24.021	N	121.649	E	33	N	4.6	1.2	12	TAIWAN. Felt (III JMA) at Hua-lien.
30	07	40	28.5&	33.100	S	71.786	W	19				6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
30	08	27	53.8	24.009	N	121.557	E	33	N	5.1 4.6	1.2	79	TAIWAN. Mw 5.4 (HRV). Felt (IV JMA) at Hua-lien and (I JMA) at Chia-i, I-lan, Tai-chung and Taipei. Felt throughout northern and central Taiwan. Centroid, Moment Tensor (HRV): Centroid origin time 08:27:55.9; Lat 23.38 N; Lon 121.94 E; Dep 56.2; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=27, Azm=22; (N) Val=0.29, Plg=62, Azm=224; (P) Val=-1.48, Plg=9, Azm=116; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=162, Dip=64, Slip=13; NP2: Strike=66, Dip=78, Slip=154.
30	08	30	38.0&	24.040	N	121.300	E	14		4.3		7	TAIWAN. <TAP>. Felt (III JMA) at Hua-lien.
30	08	52	59.0*	31.308	S	179.470	E	450	G	4.7	1.1	30	KERMADEC ISLANDS REGION
30	08	57	27.0&	34.900	N	82.300	W	5	G			3	SOUTH CAROLINA. <MACRO>. mbLg 2.3 (GS). Felt near Taylors.
30	09	10	20.1&	34.900	N	82.300	W	5	G			3	SOUTH CAROLINA. <MACRO>. mbLg 2.2 (GS). Felt near Taylors.
30	09	20	16.0&	35.502	S	71.640	W	92				11	CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
30	09	22	12.0?	36.95	N	11.76	W	10	G		0.7	20	NORTH ATLANTIC OCEAN. mbLg 4.5 (MDD).
30	09	33	56.0	34.857	N	116.416	W	5	G		0.8	24	SOUTHERN CALIFORNIA. ML 3.3 (PAS).
30	09	43	21.7	15.838	S	173.728	W	33	N	5.2 4.9	0.9	189	TONGA ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:43:32.0; Lat 15.78 S; Lon 173.39 W; Dep 72.1; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.63, Plg=56, Azm=91; (N) Val=0.45, Plg=21, Azm=217; (P) Val=-4.08, Plg=25, Azm=318; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=85, Dip=28, Slip=141; NP2: Strike=210, Dip=73, Slip=68.
30	11	18	57.0&	34.700	N	116.300	W	6	G			37	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
30	11	26	50.7*	21.095	S	67.763	W	195	*	4.1	1.2	19	CHILE-BOLIVIA BORDER REGION
30	11	56	07.9&	36.730	N	5.740	W	21				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
30	11	59	36.2&	36.750	N	5.760	W	0	G			9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
30	12	13	50.8&	36.760	N	5.740	W	10				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
30	12	21	23.8&	37.630	N	6.260	W	0	G			6	SPAIN. <MDD>. mbLg 2.0 (MDD).
30	12	48	45.4&	36.760	N	5.750	W	8				11	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
30	13	01	06.5	24.041	N	121.396	E	33	N	4.8	1.3	31	TAIWAN. Felt (III JMA) at Hua-lien and in southern I-lan County; (I JMA) at I-lan.
30	13	17	11.5	53.659	N	169.792	E	32	*	4.5	0.8	59	KOMANDORSKY ISLANDS REGION
30	13	18	49.1	51.427	N	16.172	E	5	G		0.5	10	POLAND. ML 3.4 (VIE).
30	13	33	35.6&	10.593	N	62.570	W	3				10	NEAR COAST OF VENEZUELA. <TRN>. MD 3.9 (TRN).
30	13	43	47.0&	36.800	N	5.670	W	27				5	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.5 (MDD).
30	14	58	32.6?	23.07	N	143.91	E	33	N		1.4	7	VOLCANO ISLANDS REGION
30	15	12	17.6*	4.768	S	152.826	E	89	*	4.6	1.1	18	NEW BRITAIN REGION, P.N.G.
30	15	55	51.2&	39.438	N	26.910	E	9				6	TURKEY. <ISK>. MD 3.2 (ISK).
30	16	36	12.3&	14.049	N	60.945	W	17				8	WINDWARD ISLANDS. <TRN>. MD 3.1 (TRN), 2.7 (FDF).

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30  17 02 25.9& 36.770 N    5.740 W    7                        6  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
30  17 14 40.7* 30.222 S   67.433 W  124 *          1.3        8  SAN JUAN PROVINCE, ARGENTINA
30  17 35 31.8  20.564 S   68.713 W  121 *  4.1     0.9       30  CHILE-BOLIVIA BORDER REGION
30  17 48 46.5& 40.990 S  174.600 E   38                       8  COOK STRAIT, NEW ZEALAND. <WEL>. Felt along the Kapiti Coast
                                                                   of the North Island.
30  18 00 37.8& 60.196 N  152.760 W  127                       5  SOUTHERN ALASKA. <AEIC>.
30  18 42 38.2% 5.169 N    72.970 W   10 G        0.8        9  COLOMBIA. ML 4.4 (RSNC).
30  18 49 47.3& 59.190 N  153.553 W   94                      14  SOUTHERN ALASKA. <AEIC>.
30  18 55 24.6?  2.21  S   133.73  E   33 N  4.2     1.1       8  IRIAN JAYA REGION, INDONESIA
30  18 56 18.3* 23.705 N  123.463 E   33 N  3.5     0.9       8  SOUTHWESTERN RYUKYU ISLANDS
30  19 06 58.2*  1.563 N  127.338 E   33 N  4.2     1.1      14  HALMAHERA, INDONESIA
30  19 09 29.6& 34.235 S   70.527 W    9                       8  CHILE-ARGENTINA BORDER REGION. <GUC>.
30  19 32 33.0& 34.700 N  116.300 W    4                       5  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
30  20 17 29.5& 47.400 N    7.150 E    2 G                    12  SWITZERLAND. <STR>. ML 2.0 (STR), 2.0 (LDG).
30  20 44 42.8& 32.834 S   70.768 W   77                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
30  21 16 40.5  33.057 S  179.540 W   33 N  5.6 5.1  1.0    151  SOUTH OF KERMADEC ISLANDS. Mw 5.6 (HRV), 5.5 (GS).
                                                                   Moment Tensor (GS): Dep 32; Principal axes (scale 10**17
                                                                    Nm): (T) Val=2.11, Plg=72, Azm=294; (N) Val=-0.42, Plg=11,
                                                                    Azm=167; (P) Val=-1.69, Plg=14, Azm=75; Best double couple:
                                                                    Mo=1.9*10**17 Nm; NP1: Strike=150, Dip=33, Slip=70; NP2:
                                                                    Strike=354, Dip=60, Slip=103.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    21:16:47.7; Lat 32.94 S Fix; Lon 179.05 W Fix; Dep 58.6
                                                                    Fix; Half-duration 1.4 sec; Principal axes (scale 10**17
                                                                    Nm): (T) Val=2.05, Plg=76, Azm=301; (N) Val=0.65, Plg=4,
                                                                    Azm=196; (P) Val=-2.70, Plg=13, Azm=105; Best double
                                                                    couple: Mo=2.4*10**17 Nm; NP1: Strike=190, Dip=32, Slip=83;
                                                                    NP2: Strike=18, Dip=59, Slip=94.
30  22 14 47.1*  3.068 S  119.394 E   33 N  4.0     0.8       11  SULAWESI, INDONESIA
30  22 45 04.9& 60.116 N  152.859 W  103                       8  SOUTHERN ALASKA. <AEIC>.
30  23 11 28.0& 40.677 N   30.719 E   16                       5  TURKEY. <ISK>. MD 2.6 (ISK).
30  23 47 57.3& 34.919 S   70.346 W  157                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
31  00 00 07.2& 40.762 N   27.535 E    4                       5  TURKEY. <ISK>. MD 2.8 (ISK).
31  00 11 22.2& 40.759 N   31.005 E    2                       8  TURKEY. <ISK>. MD 2.9 (ISK).
31  00 34 23.5  31.251 N  130.611 E  116     3.7      0.9      17  KYUSHU, JAPAN
31  00 35 25.2& 16.471 N   94.801 W   14                      17  OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).
31  01 19 42.3& 43.400 N    0.600 W    3                      16  PYRENEES. <LDG>. ML 2.6 (LDG), 2.4 (STR). mbLg 2.4 (MDD).
31  01 35 53.8? 24.21  S  179.96  W  500 G  4.4      0.9      15  SOUTH OF FIJI ISLANDS
31  02 23 04.8&  8.290 S  115.200 E   27                       4  BALI REGION, INDONESIA. <DJA>. ML 3.7 (DJA).
31  03 42 08.3& 32.256 S   71.723 W   24                      12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
31  03 43 21.2* 55.985 N  162.857 E   33 N  4.2      1.3      14  NEAR EAST COAST OF KAMCHATKA
31  03 55 35.5? 34.88  N    3.63  W   10 G         1.2      17  MOROCCO. mbLg 2.8 (MDD).
31  04 11 30.4& 40.637 N   29.096 E   19                       7  TURKEY. <ISK>. MD 2.7 (ISK).
31  04 19 05.1& 36.250 N    4.500 W  101                      38  STRAIT OF GIBRALTAR. <MDD>.
31  04 31 29.5  11.041 N  125.743 E   53 D  4.6      1.1      39  SAMAR, PHILIPPINE ISLANDS
31  05 03 06.0* 22.699 S  175.932 W   33 N  4.7      0.4      10  TONGA ISLANDS REGION
31  05 12 27.1& 38.395 N  122.627 W    2                       5  NORTHERN CALIFORNIA. <GM-P>. MD 2.3 (GM). Felt in the
                                                                   Penngrove and Rohnert Park areas.
31  05 33 42.2   2.664 N  128.547 E  223 *  4.5      1.0      28  HALMAHERA, INDONESIA
31  06 00 18.9& 34.522 S   71.063 W   85                       9  NEAR COAST OF CENTRAL CHILE. <GUC>.
31  06 48 21.3& 59.828 N  146.681 W   32                      16  GULF OF ALASKA. <AEIC>. ML 3.6 (AEIC), 3.7 (PMR).
31  07 00 56.0& 34.580 N  116.290 W    1                      26  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
31  07 07 20.8*  8.488 S  115.951 E   33 N         0.9       6  BALI REGION, INDONESIA
31  07 09 59.7& 31.843 S   71.801 W   28                      11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
31  07 43 55.1* 16.389 S   68.221 E   10 G  4.5      1.2      18  MID-INDIAN RIDGE
31  08 50 38.2* 53.365 N  168.619 W  109 ?  3.9      0.8      11  FOX ISLANDS, ALEUTIAN ISLANDS
31  09 08 52.0& 37.350 N  117.110 W    8                       7  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
31  09 33 04.9? 32.65  S  178.42  W   33 N         0.8       7  SOUTH OF KERMADEC ISLANDS
31  10 03 34.2? 39.81  N   72.79  E   33 N  3.9      1.4      12  KYRGYZSTAN
31  10 06 20.5& 15.910 N   97.154 W   15                       6  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
31  10 21 04.2  19.581 S  178.217 W  600 G  3.9      0.8      25  FIJI ISLANDS REGION
31  11 15 00.4& 36.840 N    4.510 W   11                       6  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
31  11 56 52.5  34.884 N  116.395 W    5 G         0.8      24  SOUTHERN CALIFORNIA. ML 3.2 (PAS).
31  12 03 57.1  45.620 N   10.281 E   10 G         1.1     115  NORTHERN ITALY. ML 4.1 (GRF), 3.9 (VIE), 3.7 (LDG), 3.6
                                                                   (FBB), 3.4 (FUR). MD 3.6 (ROM).
31  12 54 53.2* 24.146 S  179.939 W  500 G  4.3      1.0      22  SOUTH OF FIJI ISLANDS
31  13 27 42.4? 13.64  S   74.43  W   62 D  4.4      1.3      21  CENTRAL PERU. Thirty people injured, 210 adobe houses
                                                                   destroyed and 1,100 damaged (VI) in the Chuschi area. Felt
                                                                   (II) at Cangallo and Huancapi.
31  14 07 16.5* 32.860 N  130.663 E   10 G  3.8      1.5       6  KYUSHU, JAPAN. Felt (II JMA) in the epicentral area and (I
                                                                   JMA) in other parts of central Kyushu.
31  14 13 43.0* 20.720 S  178.505 W  600 G  4.4      1.0      18  FIJI ISLANDS REGION
31  14 26 31.1? 30.80  S  178.54  W   33 N  4.7      1.5      12  KERMADEC ISLANDS, NEW ZEALAND
31  15 09 39.8  29.413 N   51.807 E   33 N  5.0 4.9  1.3     196  SOUTHERN IRAN. Mw 5.2 (HRV). Thirty people injured, some
                                                                   buildings damaged and power outages in the Kazerun area.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    15:09:44.0; Lat 29.36 N; Lon 51.48 E; Dep 33.0 Fix; Half-
                                                                    duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                    Val=6.90, Plg=72, Azm=270; (N) Val=-0.04, Plg=13, Azm=136;
                                                                    (P) Val=-6.86, Plg=12, Azm=44; Best double couple:
                                                                    Mo=6.9*10**16 Nm; NP1: Strike=117, Dip=34, Slip=67; NP2:
                                                                    Strike=324, Dip=58, Slip=105.
31  15 19 43.5* 29.352 N   51.642 E   33 N  4.4      1.2      18  SOUTHERN IRAN
31  16 01 18.3& 16.599 N   61.778 W  111                      15  LEEWARD ISLANDS. <TRN>. MD 3.2 (FDF), 3.2 (TRN).
31  16 06 09.4* 13.478 N  120.345 E   59 *  3.9      1.4      12  MINDORO, PHILIPPINE ISLANDS
31  16 21 53.7* 38.707 N   41.311 E    5 G         1.4       6  TURKEY. MD 3.8 (ISK).
31  17 01 12.0* 11.661 N  126.373 E   33 N         1.3       9  PHILIPPINE ISLANDS REGION
31  17 07 50.2* 47.254 S   13.033 W   10 G  4.4      1.5      12  SOUTHERN MID-ATLANTIC RIDGE
31  17 09 10.7  38.722 N   66.412 E   33 N  5.2 4.6  0.9     211  SOUTHEASTERN UZBEKISTAN. Mw 5.0 (HRV). Felt (IV) at Bukhara,
                                                                   Karshi and Samarqand. Also felt (III) at Chardzhev,
                                                                   Turkmenistan.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    17:09:14.2; Lat 38.94 N; Lon 66.44 E; Dep 55.0; Half-
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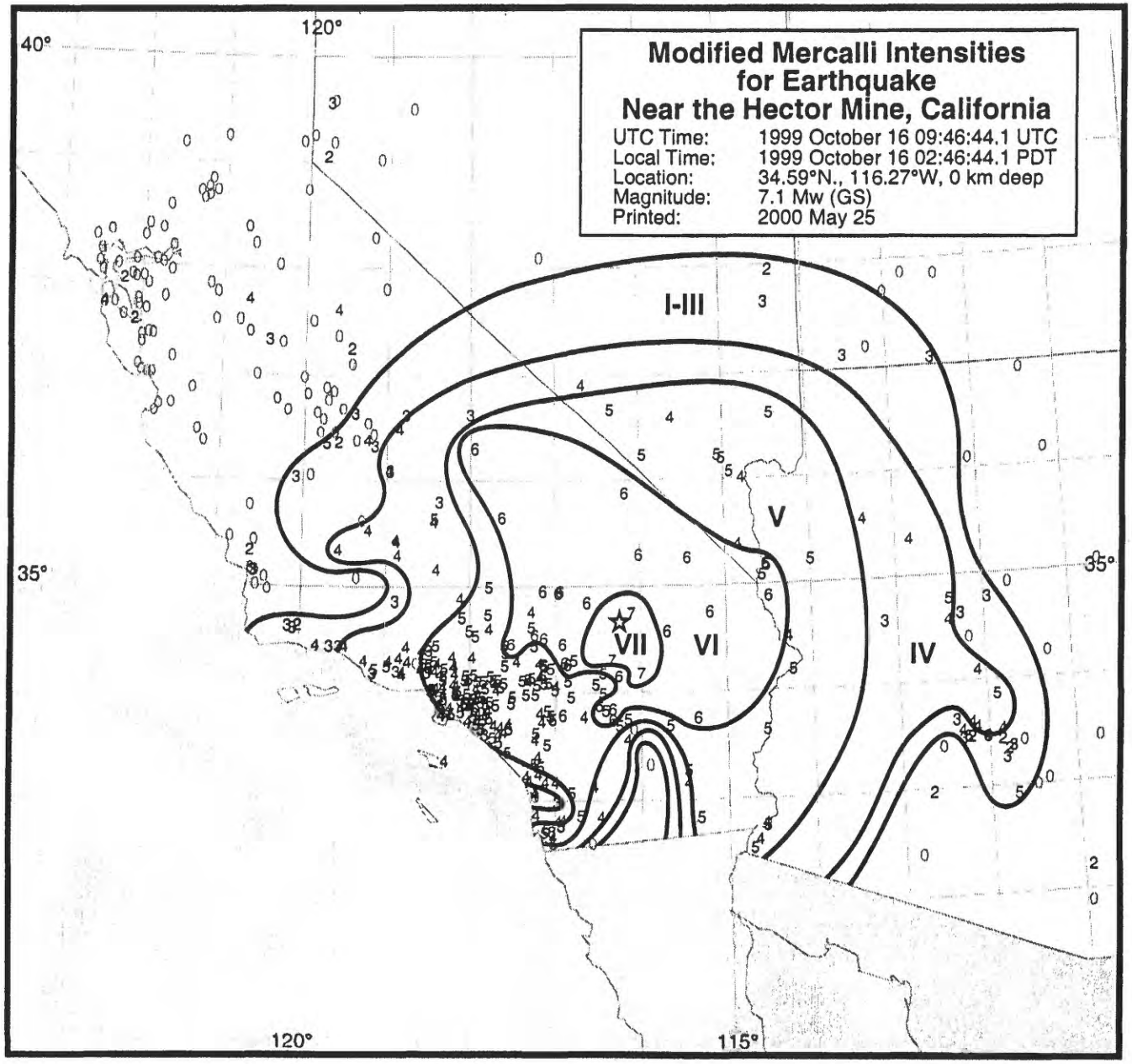
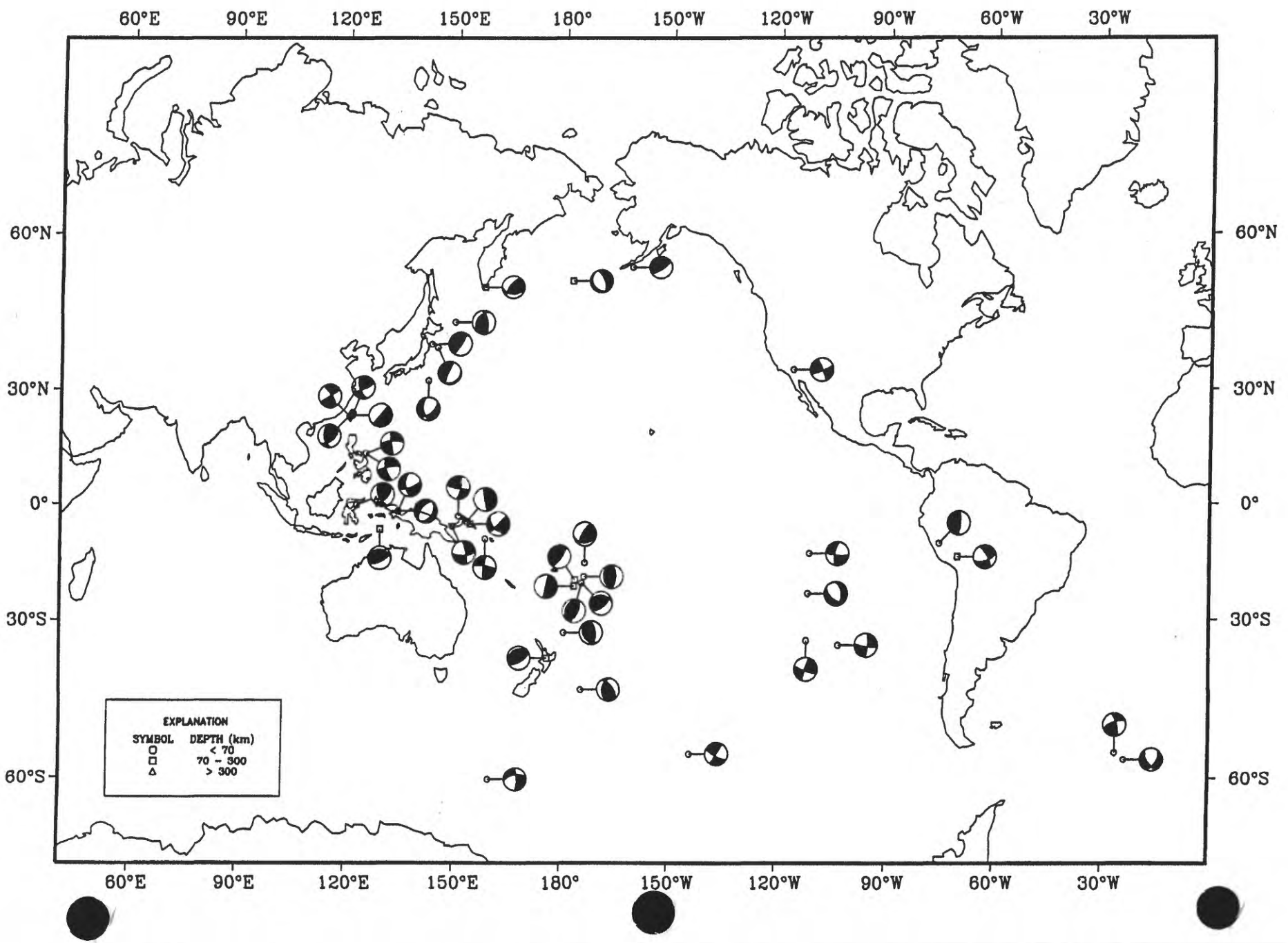
												duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.50, Plg=38, Azm=0; (N) Val=0.88, Plg=51, Azm=164; (P) Val=-4.38, Plg=8, Azm=264; Best double couple: Mo=3.9*10**16 Nm; NP1: Strike=35, Dip=58, Slip=156; NP2: Strike=138, Dip=70, Slip=35.
31	17	42	13.7&	60.582	N	148.865	W	0			12	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC), 3.1 (PMR).
31	18	02	47.1&	32.067	S	71.655	W	23			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
31	18	47	02.7	21.808	N	123.839	E	33	N	4.6	1.3	34 SOUTHEAST OF TAIWAN
31	18	59	25.0&	34.430	N	116.180	W	4				29 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
31	19	00	05.4&	37.680	S	176.280	E	328				14 NORTH ISLAND, NEW ZEALAND. <WEL>.
31	19	03	05.9*	34.987	N	72.925	E	33	N	4.2	0.4	13 PAKISTAN
31	19	44	34.7	7.311	N	126.756	E	76	*	4.8	1.1	48 MINDANAO, PHILIPPINE ISLANDS
31	20	05	18.6&	61.942	N	150.501	W	54				12 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC), 2.8 (PMR).
31	20	14	10.0&	45.850	N	74.320	W	18	G			10 SOUTHERN ONTARIO, CANADA. <OTT-P>. mbLg 4.2 (OTT), 3.7 (GS). Felt from Sainte-Adele to Montreal, Quebec.
31	20	25	57.7*	54.746	N	162.056	W	33	N	4.2	1.3	26 ALASKA PENINSULA. ML 4.0 (PMR), 3.9 (AEIC).
31	20	28	35.3*	20.154	S	68.790	W	132	?		0.9	8 CHILE-BOLIVIA BORDER REGION
31	22	11	03.4&	37.890	N	4.130	W	15				13 SPAIN. <MDD>. mbLg 2.2 (MDD).
31	22	14	55.1&	40.521	N	29.253	E	11				7 TURKEY. <ISK>. MD 2.7 (ISK).
31	22	16	49.4&	34.828	N	116.344	W	5				24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
31	22	56	15.0&	39.286	N	27.933	E	9				11 TURKEY. <ISK>. MD 3.5 (ISK).
31	23	25	14.0&	36.040	N	117.870	W	4				36 CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS).
31	23	59	53.5&	36.900	N	5.440	W	6				7 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).

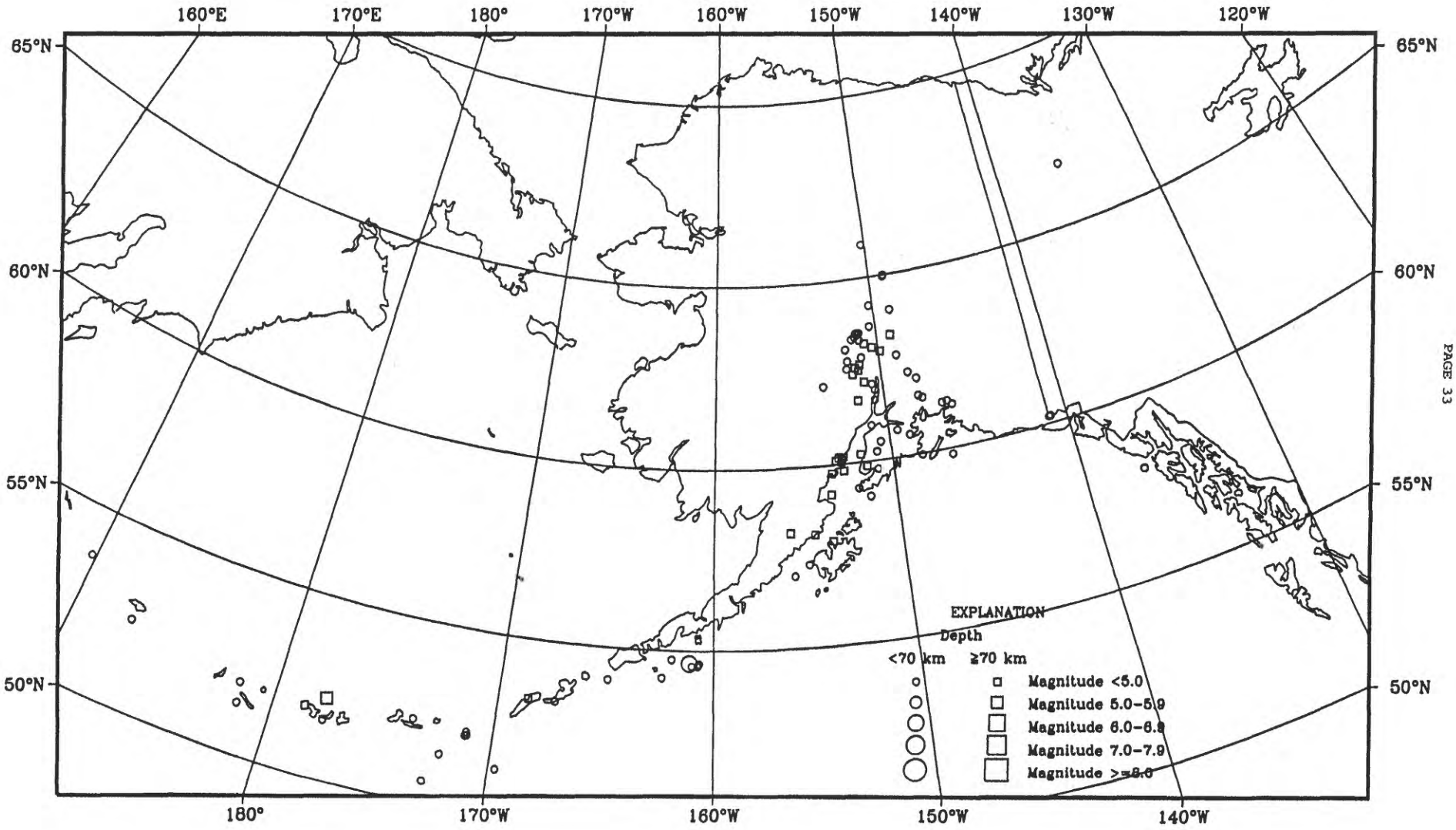
Compiled by John J. Bellini, Pamela J. Benfield, Don L. Blakeman, Charles G. Bufe, George L. Choy, Stuart K. Koyanagi, Brian C. Lassige, Alena L. Leeds, John H. Minsch, Waverly J. Person, Bruce W. Presgrave, Stuart A. Sipkin, William K. Smith, Trina F. Vithayathil and Madeleine D. Zirbes.


Modified Mercalli Intensities
for Earthquake
Near the Hector Mine, California
UTC Time: 1999 October 16 09:46:44.1 UTC
Local Time: 1999 October 16 02:46:44.1 PDT
Location: 34.59°N., 116.27°W, 0 km deep
Magnitude: 7.1 Mw (GS)
Printed: 2000 May 25
I-III
IV
V
VI
VII
40°
35°
120°
115°

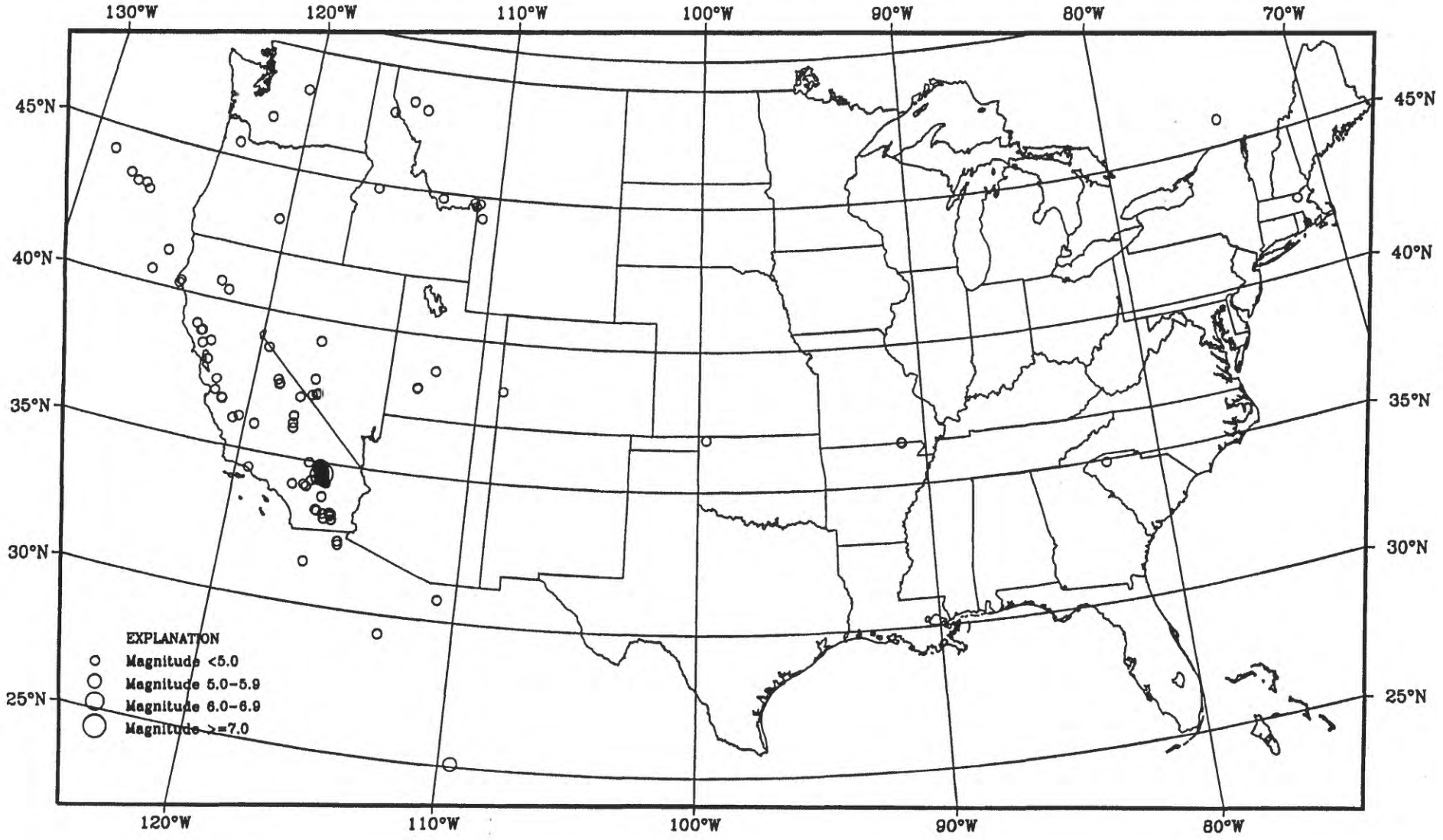
Earthquake Focal Mechanisms for October 1999



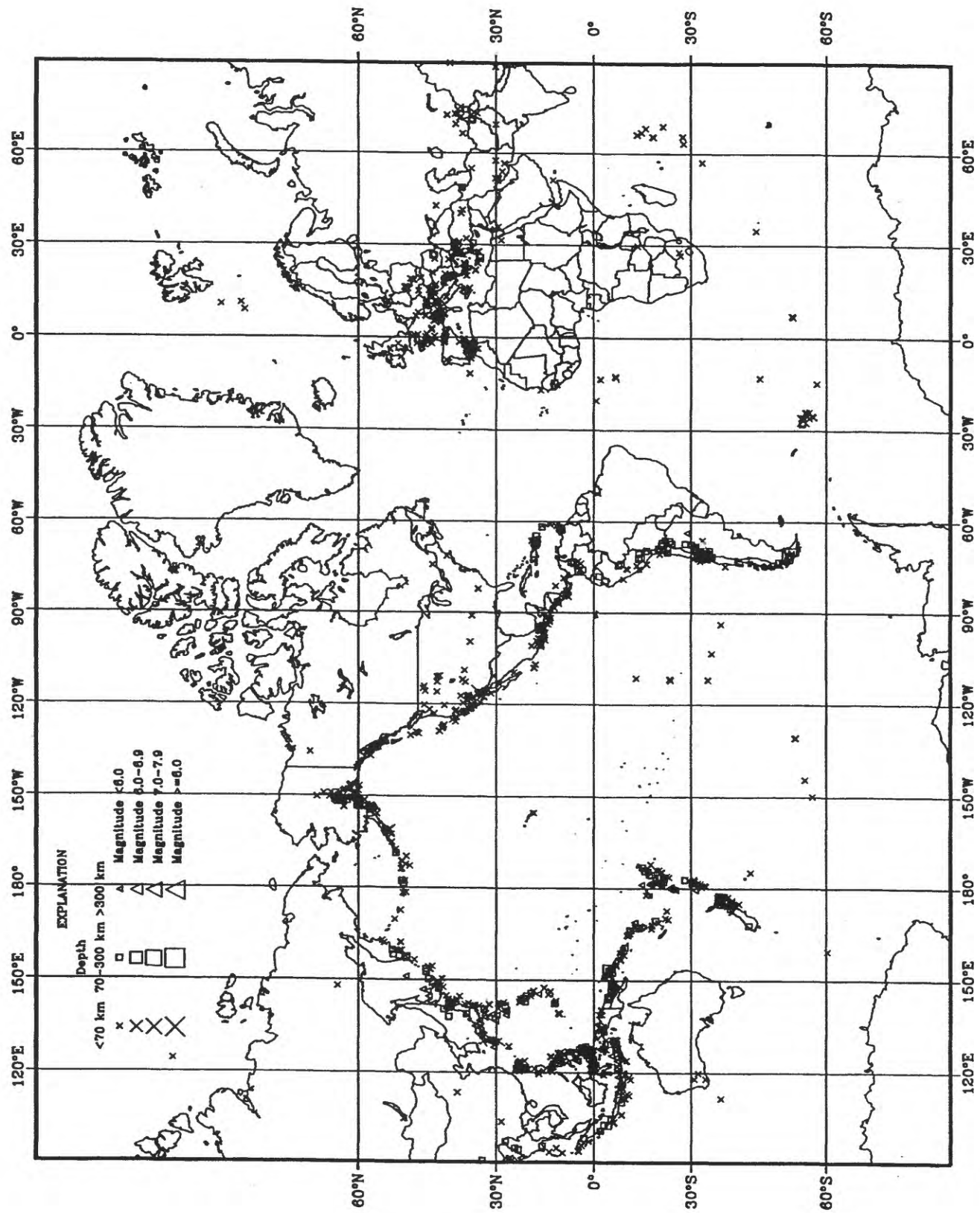
Earthquake epicenters in Alaska and adjacent regions for October 1999



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



Earthquakes located worldwide in October 1999



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

USGS
science for a changing world

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

NOVEMBER 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	29	59.5&	36.059	N	117.875	W	3					25	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
01	00	34	52.2*	59.774	S	26.008	W	33	N	4.4		0.4	15	SOUTH SANDWICH ISLANDS REGION
01	01	15	12.7&	33.938	S	71.628	W	43					14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
01	01	32	27.0	9.909	S	114.031	E	33	N	4.5		1.3	15	SOUTH OF BALI, INDONESIA
01	01	44	59.3&	33.071	S	70.316	W	102					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
01	01	45	10.6*	46.322	N	13.276	E	5	G			1.3	5	AUSTRIA. ML 2.0 (VIE), 1.7 (LJU).
01	01	53	46.4&	34.306	N	116.851	W	0					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
01	01	54	16.0&	10.555	N	61.890	W	11					9	TRINIDAD. <TRN>. MD 3.6 (TRN).
01	01	56	45.9*	46.943	N	11.673	E	5	G			0.9	5	NORTHERN ITALY. ML 1.4 (VIE).
01	02	00	28.5&	34.323	N	116.118	W	0					16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
01	02	06	00.5&	44.438	N	7.276	E	8					14	NORTHERN ITALY. <GEN>. ML 1.9 (GEN), 1.5 (LDG).
01	02	12	13.0&	33.018	S	68.394	W	8					15	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.0 (GUC).
01	02	20	52.0&	36.860	N	5.290	W	0	G				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
01	02	34	41.7*	9.995	S	114.212	E	33	N	4.3		1.4	14	SOUTH OF BALI, INDONESIA
01	03	38	22.4&	39.431	N	27.841	E	9					14	TURKEY. <ISK>. MD 3.6 (ISK).
01	03	40	34.4&	34.377	N	119.775	W	3					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Carpinteria and Santa Barbara.
01	03	56	45.7*	11.009	S	114.877	E	33	N	3.3		0.7	6	SOUTH OF BALI, INDONESIA
01	03	59	26.6*	37.046	N	69.951	E	33	N	3.8		0.5	7	AFGHANISTAN-TAJIKISTAN BORD REG.
01	04	25	26.9&	7.213	N	81.820	W	14					4	PANAMA. <UPA>. MD 4.0 (UPA).
01	04	43	36.0&	34.322	N	116.121	W	3					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
01	05	12	13.3?	43.23	N	146.68	E	48	D	4.7		1.1	14	KURIL ISLANDS
01	05	19	57.2&	34.095	S	72.085	W	28					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
01	05	36	43.9&	33.626	S	70.082	W	9					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
01	06	25	37.0&	33.540	S	70.443	W	97					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.4 (GUC).
01	06	50	14.8*	35.736	N	26.564	E	33	N	3.8		1.0	17	CRETE
01	06	52	55.0	13.496	N	120.774	E	207		4.7		1.0	50	MINDORO, PHILIPPINE ISLANDS
01	07	04	22.0&	34.570	N	116.260	W	2					26	SOUTHERN CALIFORNIA. <PAS-P>. MD 2.9 (PAS).
01	07	17	25.5&	34.675	N	116.287	W	4					25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
01	07	25	24.4&	17.722	N	102.835	W	23					21	NEAR COAST OF MICHOACAN, MEXICO. <UNM>. MD 4.3 (UNM).
01	07	33	48.1&	44.127	N	7.136	E	8					25	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.1 (STR), 2.0 (LDG).
01	07	52	40.1*	27.389	N	60.850	E	33	N	3.8		1.1	10	SOUTHERN IRAN
01	07	57	31.7	23.851	N	122.675	E	33	N	4.8	4.1	1.0	50	TAIWAN REGION
01	08	21	47.0&	34.560	N	116.260	W	4					32	SOUTHERN CALIFORNIA. <PAS-P>. MD 3.2 (PAS).
01	09	24	36.6*	31.203	S	68.013	W	10	G			1.3	18	SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
01	09	43	35.4&	47.100	N	6.800	E	10					13	FRANCE. <LDG>. ML 1.9 (LDG), 1.9 (STR).
01	10	35	38.8&	44.506	N	7.218	E	5					6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
01	10	37	34.7?	14.10	N	93.59	W	10	G	4.1		1.1	7	NEAR COAST OF CHIAPAS, MEXICO. MD 3.9 (UNM).
01	11	04	47.1?	19.31	S	169.40	E	229	*	4.3		1.1	20	VANUATU ISLANDS
01	11	18	59.1&	41.962	N	20.198	E	10					12	ALBANIA. <PDG>. MD 2.8 (PDG).
01	11	31	54.5&	15.385	N	93.810	W	16					5	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
01	11	39	08.1*	5.379	S	151.860	E	33	N	4.6		0.7	12	NEW BRITAIN REGION, P.N.G.
01	12	30	59.0&	37.430	N	117.090	W	5					9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN).
01	13	25	16.5	39.899	N	113.983	E	10	G	5.1	5.3	1.2	120	NORTHEASTERN CHINA. Mw 5.3 (HRV). ML 5.5 (BJI). Four people injured and 6,000 houses damaged in Shanxi Province. Some damage in Hebei Province. Felt at Hohhot and Tianjin. Centroid, Moment Tensor (HRV): Centroid origin time 13:25:18.5; Lat 39.85 N; Lon 113.74 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.09, Plg=8, Azm=347; (N) Val=-0.35, Plg=70, Azm=232; (P) Val=-0.74, Plg=18, Azm=79; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=122, Dip=72, Slip=-7; NP2: Strike=214, Dip=84, Slip=-161.
01	14	11	59.3	42.413	N	80.672	E	33	N	4.3		0.6	17	KYRGYZSTAN-XINJIANG BORDER REG.
01	15	55	17.5&	47.700	N	7.700	E	2					12	SWITZERLAND. <LDG>. ML 1.9 (FBB), 1.8 (LDG), 1.8 (STR).
01	16	08	51.4*	31.895	N	142.219	E	33	N	4.4		1.0	14	SOUTH OF HONSHU, JAPAN
01	16	15	35.0%	31.656	S	117.056	E	10	G			0.5	5	WESTERN AUSTRALIA
01	17	06	43.5*	11.453	N	126.096	E	33	N			1.5	9	PHILIPPINE ISLANDS REGION
01	17	22	32.8&	43.720	N	7.313	E	1					64	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 3.6 (GEN), 3.4 (LDG), 3.2 (STR). Felt in Monaco.
01	17	34	54.2&	43.770	N	7.400	E	2	G				5	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.7 (STR).

01	17	48	40.0&	44.635	N	112.090	W	4				27	EASTERN IDAHO. <BUT-P>. ML 3.2 (BUT).
01	17	53	00.1	23.378	N	121.520	E	33	N	6.1	6.1 1.0	415	TAIWAN. Mw 6.3 (GS), 6.3 (HRV). Me 6.3 (GS). Felt (V JMA) at Hua-lien; (IV JMA) at I-lan and Tai-chung; (III JMA) at Chia-i, Kao-hsiung, Taipei and Tai-tung; (II JMA) on Peng-hu Tao. Also felt (II JMA) on Iriomote-jima, Ishigaki-jima and Yonaguni-jima, Ryukyu Islands. Broadband Source Parameters (GS): Radiated energy 6.0*10**13 Nm. Moment Tensor (GS): Dep 31; Principal axes (scale 10**18 Nm): (T) Val=2.81, Plg=80, Azm=184; (N) Val=0.07, Plg=10, Azm=6; (P) Val=-2.88, Plg=0, Azm=276; Best double couple: Mo=2.8*10**18 Nm; NP1: Strike=357, Dip=45, Slip=76; NP2: Strike=196, Dip=46, Slip=104. Centroid, Moment Tensor (HRV): Centroid origin time 17:53:04.9; Lat 23.38 N; Lon 121.59 E; Dep 46.0 Bdy; Half-duration 3.6 sec; Principal axes (scale 10**18 Nm): (T) Val=3.22, Plg=76, Azm=241; (N) Val=0.15, Plg=11, Azm=23; (P) Val=-3.37, Plg=8, Azm=115; Best double couple: Mo=3.3*10**18 Nm; NP1: Strike=218, Dip=38, Slip=108; NP2: Strike=15, Dip=54, Slip=76.
01	18	11	37.4&	43.800	N	7.500	E	14				10	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.1 (LDG), 2.0 (STR).
01	18	11	54.5*	36.540	N	71.571	E	123	?	4.1	0.6	12	AFGHANISTAN-TAJIKISTAN BORD REG.
01	19	08	45.6&	42.537	N	19.277	E	17				7	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.1 (PDG).
01	19	11	55.0&	34.420	N	116.190	W	5				23	SOUTHERN CALIFORNIA. <PAS-P>. MD 3.0 (PAS).
01	19	31	49.8&	44.498	N	7.209	E	12				15	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.9 (STR).
01	20	05	03.8	32.103	N	137.618	E	397		4.3	0.7	41	SOUTH OF HONSHU, JAPAN
01	20	19	10.4&	33.159	N	116.012	W	4				22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
01	20	43	48.3*	2.800	S	139.567	E	33	N	4.7	1.2	21	NEAR NORTH COAST OF IRIAN JAYA
01	22	47	49.5&	43.760	N	7.360	E	6				10	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.7 (STR).
01	23	13	16.9&	36.750	N	5.270	W	5				8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
01	23	13	48.3	7.662	S	127.495	E	166	D	4.9	1.0	102	BANDA SEA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:13:41.7; Lat 8.39 S; Lon 128.39 E; Dep 183.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.17, Plg=45, Azm=322; (N) Val=-1.74, Plg=39, Azm=106; (P) Val=-7.44, Plg=19, Azm=212; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=345, Dip=43, Slip=157; NP2: Strike=93, Dip=74, Slip=49.
02	00	29	44.8?	13.25	S	167.11	E	213	?	4.4	0.9	35	VANUATU ISLANDS
02	01	44	39.0&	47.900	N	7.310	E	3				32	SWITZERLAND. <FBB>. ML 2.9 (VIE), 2.5 (LDG), 2.3 (STR), 2.2 (FBB).
02	01	59	31.0&	47.900	N	7.300	E	3				26	SWITZERLAND. <FBB>. ML 2.6 (VIE), 2.3 (LDG), 2.2 (STR), 2.1 (FBB).
02	02	03	06.4&	40.260	S	174.710	E	23				11	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
02	02	05	54.8&	43.770	N	7.380	E	2	G			10	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.9 (STR), 1.8 (LDG).
02	02	35	20.3&	33.328	S	70.571	W	86				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
02	02	42	00.8&	32.912	S	71.181	W	54				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
02	02	55	16.5	11.381	N	125.989	E	33	N	4.1	1.2	17	SAMAR, PHILIPPINE ISLANDS
02	03	42	48.7	39.756	N	20.638	E	33	N	4.8	3.9 1.4	93	GREECE-ALBANIA BORDER REGION. ML 4.2 (PDG).
02	04	08	37.5&	34.571	N	116.271	W	1				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
02	04	27	27.6*	40.271	N	126.950	W	10	G		0.9	26	OFF COAST OF NORTHERN CALIFORNIA. ML 3.8 (GS).
02	05	54	30.8&	34.797	N	116.309	W	3				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
02	05	58	33.7	5.433	N	126.743	E	65		4.9	1.0	39	MINDANAO, PHILIPPINE ISLANDS
02	07	03	43.5&	33.128	S	70.699	W	93				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
02	08	45	17.7*	45.314	N	55.894	W	10	G	3.9	1.0	22	NORTH ATLANTIC OCEAN
02	09	06	30.5*	3.094	S	134.817	E	33	N	3.7	1.1	8	IRIAN JAYA REGION, INDONESIA
02	09	08	15.5	29.195	N	139.152	E	458	*	4.0	0.7	24	SOUTH OF HONSHU, JAPAN
02	09	08	51.0&	34.680	N	116.300	W	2				39	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
02	10	00	13.0&	34.700	N	116.300	W	6				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
02	10	52	26.0&	44.330	N	7.500	E	2	G			10	NORTHERN ITALY. <STR>. ML 2.2 (LDG), 2.1 (STR).
02	11	11	15.1&	16.199	N	98.095	W	9				5	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
02	11	30	54.2	29.160	N	142.391	E	33	N	4.5	0.8	36	SOUTH OF HONSHU, JAPAN
02	11	47	46.1*	59.816	S	26.193	W	33	N	4.4	0.6	20	SOUTH SANDWICH ISLANDS REGION
02	12	18	52.3?	37.20	N	71.86	E	135	?	4.4	1.4	12	AFGHANISTAN-TAJIKISTAN BORD REG.
02	12	50	36.1&	31.765	S	69.849	W	147				10	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.0 (GUC).
02	13	12	50.6*	13.265	N	144.252	E	131		4.6	0.9	21	MARIANA ISLANDS
02	13	14	59.7	30.070	N	69.412	E	33	N	5.1	1.0	134	PAKISTAN
02	14	16	22.3&	32.995	S	70.241	W	107				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
02	14	40	00.4*	46.906	N	11.960	E	10	G		1.3	5	NORTHERN ITALY. ML 1.6 (VIE).
02	14	47	52.2&	10.863	N	62.456	W	67				5	NEAR COAST OF VENEZUELA. <TRN>. MD 2.7 (TRN).
02	15	10	44.3*	2.721	N	90.031	E	33	N	4.5	0.9	13	OFF W COAST OF NORTHERN SUMATERA
02	15	16	51.1&	59.734	N	148.564	W	2				7	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
02	15	18	14.7*	7.938	N	74.154	W	63	?	4.4	1.2	21	NORTHERN COLOMBIA. MD 4.9 (UPA).
02	16	54	14.1&	42.300	N	6.900	E	15				31	WESTERN MEDITERRANEAN SEA. <LDG>. ML 3.0 (LDG), 2.6 (STR).
02	16	58	05.1&	34.826	N	116.338	W	6				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
02	17	01	49.8*	33.236	S	77.751	E	10	G	4.6	1.0	8	MID-INDIAN RIDGE
02	17	11	39.1*	45.790	N	142.005	E	315		3.8	0.8	17	HOKKAIDO, JAPAN REGION
02	17	38	21.9	0.376	S	132.704	E	33	N	4.6	0.9	17	IRIAN JAYA REGION, INDONESIA
02	17	57	23.1&	34.651	N	116.295	W	3				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
02	18	38	11.9&	45.000	N	7.400	E	2				4	NORTHERN ITALY. <LDG>. ML 1.5 (LDG).
02	19	12	18.6?	37.76	N	72.79	E	104	?	4.1	0.9	10	TAJIKISTAN
02	19	56	45.9?	1.13	S	137.11	E	33	N	4.0	0.7	6	NEAR NORTH COAST OF IRIAN JAYA
02	19	58	40.5	37.630	N	21.174	E	10	G	4.1	1.4	24	SOUTHERN GREECE
02	20	22	23.7&	37.240	N	4.310	W	4				6	SPAIN. <MDD>. mbLg 1.7 (MDD).
02	20	24	34.0&	37.260	N	4.300	W	0	G			12	SPAIN. <MDD>. mbLg 2.0 (MDD).
02	20	50	44.2?	36.41	N	71.36	E	130	?	3.9	0.8	9	AFGHANISTAN-TAJIKISTAN BORD REG.
02	22	48	16.5&	47.910	N	7.500	E	2	G			27	SWITZERLAND. <STR>. ML 2.5 (LDG), 2.4 (STR), 2.1 (FBB).
02	23	18	18.8*	52.967	S	25.805	E	10	G	5.0	5.1 1.3	23	SOUTH OF AFRICA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:18:22.9; Lat 52.85 S; Lon 25.87 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.39, Plg=4, Azm=157; (N) Val=-0.05, Plg=86, Azm=329; (P) Val=-1.33, Plg=1, Azm=67; Best double couple:

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                                                                                                  Mo=1.4*10**17 Nm; NP1: Strike=202, Dip=87, Slip=178; NP2:
                                                                                                  Strike=292, Dip=88, Slip=3.
02  23 29 19.2& 44.125 N    7.118 E   10                          4  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
03  00 19 28.8  39.048 N   71.994 E   19 D  4.6       0.8      54  TAJIKISTAN
03  00 32 46.8& 34.644 N  116.290 W    4                          7  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
03  00 35 02.0  46.157 N   12.511 E   10 G             1.1      16  NORTHERN ITALY. ML 2.5 (VIE), 2.0 (TRI), 1.9 (LJU).
03  00 43 00.6& 44.002 N    7.617 E    6                         20  NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.2 (LDG).
03  00 46 35.2? 19.30  S  173.87  W   33 N  4.6       1.0      15  TONGA ISLANDS
03  01 28 07.2& 34.527 N  116.295 W    1                          7  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
03  01 30 36.9* 12.947 S  169.211 E  658 *  4.1       0.9      44  SANTA CRUZ ISLANDS REGION
03  01 36 39.8  12.756 S  169.110 E  637 *  4.5       0.8      83  SANTA CRUZ ISLANDS REGION
03  02 38 13.4& 41.270 N    7.090 W    0 G                        9  PORTUGAL. <MDD>. mbLg 2.6 (MDD).
03  02 52 22.6& 34.798 N  116.284 W    4                         48  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
03  02 55 05.6& 34.801 N  116.282 W    4                         74  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
03  02 56 45.5* 51.252 N  157.404 E   76 *  3.9       1.0      12  NEAR EAST COAST OF KAMCHATKA
03  03 15 37.3& 14.968 N   94.464 W   16                          5  OFF COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
03  03 27 56.9& 34.844 N  116.357 W    7                         55  SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
03  03 30 00.8& 34.851 N  116.356 W    6                         33  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
03  04 08 34.0& 34.840 N  116.380 W    4                         28  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
03  04 08 54.5* 46.246 N   12.369 E    5 G             0.5       5  NORTHERN ITALY. MD 2.4 (LJU). ML 1.9 (VIE).
03  04 16 19.4& 19.316 N   98.611 W   11                         13  CENTRAL MEXICO. <UNM>. MD 3.3 (UNM).
03  04 20 12.4& 16.131 N   98.766 W   31                         19  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
03  04 27 11.1  19.446 N  122.065 E   33 N  5.0 4.2  1.0      82  PHILIPPINE ISLANDS REGION. Mw 5.1 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   04:27:16.0; Lat 19.79 N; Lon 121.83 E; Dep 15.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=5.23, Plg=16, Azm=29; (N) Val=0.85, Plg=72, Azm=234;
                                                                   (P) Val=-6.08, Plg=7, Azm=121; Best double couple:
                                                                   Mo=5.7*10**16 Nm; NP1: Strike=166, Dip=74, Slip=7; NP2:
                                                                   Strike=74, Dip=84, Slip=164.
03  04 37 45.0& 34.680 N  116.370 W    3                         30  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
03  04 52 03.5  41.743 N   20.961 E   10 G             1.3      12  ALBANIA. MD 2.2 (PDG).
03  05 33 42.8& 36.590 N    2.540 W    0 G                       15  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
03  07 13 59.0* 35.975 N  139.221 E  153 *  3.8       1.2      18  NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) in southern
                                                                   Chiba, eastern Gumma, northern Saitama and western Tochigi
                                                                   Prefectures.
03  07 26 17.9  17.618 S  173.947 W   87 D  4.9       0.9      88  TONGA ISLANDS. Mw 5.3 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   07:26:21.2; Lat 17.53 S; Lon 173.49 W; Dep 76.9; Half-
                                                                   duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=8.36, Plg=28, Azm=275; (N) Val=1.13, Plg=8, Azm=9; (P)
                                                                   Val=-9.49, Plg=61, Azm=114; Best double couple:
                                                                   Mo=8.9*10**16 Nm; NP1: Strike=343, Dip=19, Slip=-117; NP2:
                                                                   Strike=192, Dip=74, Slip=-81.
03  08 18 55.4& 32.947 S   72.831 W   21                         12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
03  08 22 57.9& 15.710 N   98.906 W    8                         22  OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
03  08 30 04.7& 43.995 N    7.609 E    1                         16  NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.2 (LDG), 2.1 (GEN).
03  08 43 51.4*  0.590 S  135.624 E   33 N  5.0 4.2  1.3      24  IRIAN JAYA REGION, INDONESIA. Mw 5.3 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   08:43:50.7; Lat 0.90 S; Lon 135.95 E; Dep 33.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=8.92, Plg=50, Azm=185; (N) Val=-0.59, Plg=8, Azm=286;
                                                                   (P) Val=-8.33, Plg=39, Azm=22; Best double couple:
                                                                   Mo=8.6*10**16 Nm; NP1: Strike=160, Dip=10, Slip=145; NP2:
                                                                   Strike=285, Dip=84, Slip=82.
03  08 58 25.7& 17.411 N   94.920 W  214                          4  CHIAPAS, MEXICO. <UNM>. MD 3.9 (UNM).
03  10 21 44.3& 31.779 S   70.251 W  124                         14  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
03  10 45 12.2& 62.212 N  150.255 W   12                         11  CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).
03  11 11 43.7& 46.130 N    3.450 E    2 G                       4  FRANCE. <STR>. ML 2.2 (STR).
03  12 21 15.3? 16.53  S  174.27  W   33 N  4.2       1.2      16  TONGA ISLANDS
03  12 30 00.6& 45.100 N    3.300 E    2                         14  FRANCE. <LDG>. ML 2.2 (LDG), 2.2 (STR).
03  12 30 01.8& 61.515 N  147.191 W   16                          9  SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC), 3.0 (PMR).
03  12 46 57.9* 34.083 N  136.443 E  384 *  3.9       1.0      18  WESTERN HONSHU, JAPAN
03  13 13 07.6*  5.367 S  146.927 E  233     4.6       0.8      20  EASTERN NEW GUINEA REG., P.N.G.
03  13 28 52.0& 45.512 N  105.467 W   10 G                       18  MONTANA. <PGC-P>. ML 3.5 (GS).
03  13 37 12.3& 34.831 N  116.317 W    4                          9  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
03  13 42 40.5& 44.462 N    7.207 E   13                         10  NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
03  13 59 21.1  38.025 S   73.376 W   33 N  4.9 4.8  1.0      42  NEAR COAST OF CENTRAL CHILE. Mw 5.4 (HRV). Felt (IV) at
                                                                   Contulmo; (III) at Canete, Curanilahue, Los Alamos and
                                                                   Tirua; (II) at Angol, Carahue, Puerto Saavedra and Temuco.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   13:59:23.0; Lat 37.70 S; Lon 73.93 W; Dep 15.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=1.31, Plg=50, Azm=71; (N) Val=-0.08, Plg=5, Azm=167;
                                                                   (P) Val=-1.22, Plg=39, Azm=261; Best double couple:
                                                                   Mo=1.3*10**17 Nm; NP1: Strike=28, Dip=7, Slip=132; NP2:
                                                                   Strike=166, Dip=85, Slip=85.
03  14 16 50.5  43.569 N   17.117 E   10 G             1.3      29  NORTHWESTERN BALKAN REGION. MD 3.3 (PDG).
03  14 42 06.5* 37.909 S   72.772 W   33 N             0.9      12  CENTRAL CHILE
03  15 16 57.9* 38.082 S   73.588 W   33 N  4.1        0.6      10  NEAR COAST OF CENTRAL CHILE
03  15 19 20.5  38.075 S   73.530 W   33 N  5.0 4.4  1.2      53  NEAR COAST OF CENTRAL CHILE. Mw 5.2 (HRV). Felt (IV) at
                                                                   Angol, Carahue and Puerto Saavedra; (III) at Canete, Temuco
                                                                   and Tirua; (II) at Curacautin, Curanilahue, Lebu and
                                                                   Villarrica.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   15:19:22.3; Lat 37.70 S; Lon 73.64 W; Dep 33.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=9.01, Plg=25, Azm=57; (N) Val=-1.62, Plg=55, Azm=188;
                                                                   (P) Val=-7.39, Plg=24, Azm=316; Best double couple:
                                                                   Mo=8.2*10**16 Nm; NP1: Strike=96, Dip=55, Slip=179; NP2:
                                                                   Strike=187, Dip=89, Slip=35.
03  15 39 44.3* 37.990 S   73.488 W   33 N  3.6        1.1      16  NEAR COAST OF CENTRAL CHILE
03  16 08 55.7  19.836 N  147.583 E   33 N  4.7        0.9      43  MARIANA ISLANDS REGION
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03	16	30	12.4&	34.907	S	71.113	W	99				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
03	16	45	27.8	37.999	S	73.525	W	33	N	4.9	1.0	38	NEAR COAST OF CENTRAL CHILE
03	17	07	02.6*	37.979	S	73.538	W	33	N	3.7	1.3	12	NEAR COAST OF CENTRAL CHILE
03	18	03	27.5*	47.180	N	154.064	E	33	N	4.2	0.9	12	KURIL ISLANDS
03	18	34	39.4*	47.140	N	14.120	E	10	G		1.2	5	AUSTRIA. ML 2.5 (VIE).
03	18	52	23.2&	34.708	N	116.279	W	3				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
03	19	10	24.5&	47.100	N	4.300	E	8				5	FRANCE. <LDG>. ML 1.4 (LDG).
03	19	19	36.5&	60.301	N	153.677	W	195				8	SOUTHERN ALASKA. <AEIC>.
03	20	13	10.4*	9.172	S	124.097	E	33	N	4.6	0.9	11	TIMOR REGION, INDONESIA
03	21	34	12.5*	23.312	N	120.840	E	33	N	4.5	1.4	11	TAIWAN. Felt (IV JMA) at Chia-i and (I JMA) at Kao-hsiung and Tai-chung. Felt in much of western Taiwan.
03	21	38	07.5	45.473	S	96.567	E	10	G	5.2 5.6	1.0	44	SOUTHEAST INDIAN RIDGE. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 18; Principal axes (scale 10**17 Nm): (T) Val=3.94, Plg=6, Azm=93; (N) Val=0.29, Plg=83, Azm=239; (P) Val=-4.23, Plg=4, Azm=2; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=137, Dip=83, Slip=179; NP2: Strike=227, Dip=89, Slip=7. Centroid, Moment Tensor (HRV): Centroid origin time 21:38:14.4; Lat 45.31 S; Lon 96.07 E; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.24, Plg=6, Azm=81; (N) Val=-0.60, Plg=80, Azm=210; (P) Val=-3.64, Plg=8, Azm=350; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=126, Dip=80, Slip=-179; NP2: Strike=36, Dip=89, Slip=-10.
03	21	55	48.9&	32.716	S	71.684	W	23				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
03	22	16	22.7&	33.467	S	70.423	W	97				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
03	22	17	55.9&	38.030	N	3.870	W	0	G			14	SPAIN. <MDD>. mbLg 2.2 (MDD).
03	22	24	35.4*	37.992	S	73.447	W	33	N	3.8	1.3	17	NEAR COAST OF CENTRAL CHILE
03	22	49	00.5*	27.122	N	143.020	E	33	N	4.6	1.3	18	BONIN ISLANDS REGION
03	23	50	24.9	15.761	S	172.538	W	33	N	5.3 5.4	1.0	132	SAMOA ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:50:29.6; Lat 15.67 S; Lon 172.20 W; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.37, Plg=69, Azm=282; (N) Val=1.70, Plg=2, Azm=187; (P) Val=-4.07, Plg=21, Azm=96; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=182, Dip=24, Slip=85; NP2: Strike=8, Dip=66, Slip=92.
04	02	08	09.9	37.471	N	21.581	E	33	N	4.6 4.6	1.4	174	SOUTHERN GREECE. ML 4.6 (ROM).
04	02	31	42.0*	4.711	N	94.023	E	33	N	4.3 4.1	1.0	20	OFF W COAST OF NORTHERN SUMATERA
04	02	32	04.4*	4.687	N	94.074	E	33	N		1.3	14	OFF W COAST OF NORTHERN SUMATERA
04	02	57	15.1&	40.870	S	174.850	E	21				9	COOK STRAIT, NEW ZEALAND. <WEL>. ML 4.1 (WEL). Felt at Wellington on the North Island.
04	03	08	41.5&	47.800	N	2.100	E	8				7	FRANCE. <LDG>. ML 1.8 (LDG).
04	04	30	17.0&	61.582	N	150.506	W	50				15	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR).
04	04	47	11.0*	7.079	N	127.165	E	33	N	4.2	1.0	12	PHILIPPINE ISLANDS REGION
04	05	00	01.0&	34.710	N	116.300	W	4				41	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
04	05	38	57.7&	32.689	S	71.715	W	30		4.6		60	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.7 (GUC). Felt (IV) at Quintero, Valparaiso and Vina del Mar; (III) at Cabildo, La Ligua, Papudo, Petorca, Quillota, San Antonio, Santiago and Zapallar; (II) at Los Andes and San Felipe.
04	05	49	39.0&	47.900	N	7.510	E	9				73	SWITZERLAND. <FBB>. ML 3.3 (LDG), 3.3 (VIE), 3.3 (GRF), 3.1 (STR), 2.9 (FBB).
04	06	10	27.1?	12.35	N	143.07	E	33	N		1.4	5	SOUTH OF MARIANA ISLANDS
04	06	15	05.2&	32.695	S	71.698	W	22				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
04	06	31	55.1	5.661	N	126.357	E	79	*	5.0	1.2	43	MINDANAO, PHILIPPINE ISLANDS. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:31:56.5; Lat 5.85 N; Lon 126.54 E; Dep 79.1 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.18, Plg=22, Azm=215; (N) Val=-0.01, Plg=68, Azm=41; (P) Val=-3.17, Plg=2, Azm=306; Best double couple: Mo=3.2*10**16 Nm; NP1: Strike=353, Dip=73, Slip=15; NP2: Strike=259, Dip=76, Slip=162.
04	06	53	51.3*	1.377	N	126.372	E	33	N	4.4	1.0	6	NORTHERN MOLUCCA SEA
04	07	27	57.1*	31.718	S	71.761	W	52	?	4.2	1.3	24	NEAR COAST OF CENTRAL CHILE. MD 4.3 (GUC).
04	08	07	29.3*	57.884	S	25.497	W	33	N	4.3	1.2	13	SOUTH SANDWICH ISLANDS REGION
04	08	10	58.9*	14.636	S	176.982	W	33	N	4.7 4.8	1.0	23	FIJI ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:11:00.8; Lat 14.76 S; Lon 176.40 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.05, Plg=12, Azm=188; (N) Val=-0.05, Plg=57, Azm=296; (P) Val=-1.00, Plg=31, Azm=91; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=234, Dip=60, Slip=-165; NP2: Strike=136, Dip=77, Slip=-31.
04	09	04	49.4&	32.176	S	71.711	W	19				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
04	09	17	44.2&	32.621	S	71.786	W	30				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
04	10	23	25.9&	33.131	S	70.371	W	110				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
04	10	35	23.7*	17.878	N	101.392	W	128	?		1.4	18	NEAR COAST OF GUERRERO, MEXICO. MD 4.3 (UNM).
04	10	43	36.7*	23.672	N	125.720	E	33	N	4.3	1.3	17	SOUTHWESTERN RYUKYU ISLANDS
04	11	00	18.0&	38.240	N	108.810	W	6				8	COLORADO. <SLC-P>. ML 2.9 (SLC).
04	11	06	22.6*	24.268	N	121.258	E	33	N	4.3	1.3	12	TAIWAN. Felt (III JMA) in the epicentral area.
04	11	18	11.5&	39.094	N	27.053	E	25				8	TURKEY. <ISK>. MD 3.2 (ISK).
04	11	27	22.5&	62.084	N	151.493	W	78				13	CENTRAL ALASKA. <AEIC>.
04	12	37	17.3	15.155	N	94.585	W	33	N	4.6	1.3	56	NEAR COAST OF OAXACA, MEXICO. MD 4.5 (UNM).
04	13	50	46.9&	44.339	N	7.291	E	12				6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
04	14	03	31.0&	34.296	N	116.075	W	0				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
04	14	24	27.5?	6.43	S	130.13	E	132	?	4.3	0.6	8	BANDA SEA
04	15	44	09.3&	31.906	S	69.491	W	152				11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.0 (GUC).
04	15	52	03.0*	19.901	N	37.181	E	10	G	4.2	1.3	13	SUDAN
04	17	06	16.3&	32.857	S	71.246	W	53				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
04	17	12	20.4?	17.88	N	94.32	E	33	N		0.9	5	MYANMAR
04	17	26	17.1&	59.385	N	150.664	W	36				20	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.4 (AEIC), 3.7 (PMR).
04	17	43	19.3?	5.67	S	68.29	E	10	G	4.5	1.3	23	CHAGOS ARCHIPELAGO REGION
04	17	53	52.9*	36.843	N	11.312	W	10	G		0.9	38	NORTH ATLANTIC OCEAN. mbLg 3.1 (MDD).

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04  17 59 30.3* 23.337 N  121.178 E   61 *  3.9       1.1   14  TAIWAN
04  18 05 47.5& 39.050 S  173.860 E    5                      9  OFF W. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.0 (WEL).
04  19 10 56.0& 34.840 N  116.400 W    2                     34  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
04  19 22 11.3& 34.838 N  116.388 W    4                      7  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
04  19 55 19.5& 33.018 S   70.997 W   68                     12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
04  20 41 42.4& 40.140 S  174.840 E   12                      8  COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
04  20 56 43.1* 10.471 S  116.463 E   51 *  4.2       1.3   13  SOUTH OF SUMBAWA, INDONESIA
04  21 54 56.4& 32.689 S   71.686 W   29                     10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
04  23 08 57.1  37.290 N   21.028 E   33 N  4.3       1.2   62  SOUTHERN GREECE. MD 4.2 (PDG).
04  23 37 26.3  52.021 N   98.323 E   10 G  4.6 4.4    1.1   79  RUSSIA-MONGOLIA BORDER REGION. Felt (III) at Irkutsk and
                                                                  Orlik, Russia.
04  23 42 08.9& 41.865 N   20.325 E    6                     11  ALBANIA. <PDG>. MD 2.1 (PDG).
04  23 49 59.5& 34.847 N  116.349 W    1                      4  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
04  23 56 18.5& 31.823 S   71.861 W   32                      8  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
05  00 11 18.5? 19.40  N  109.16  W   10 G  4.0       0.6   11  REVILLA GIGEDO ISLANDS REGION
05  01 18 40.7  15.742 S  173.225 W   33 N  4.5       0.7   35  TONGA ISLANDS
05  02 00 54.8& 35.428 S   71.035 W   76                     10  CENTRAL CHILE. <GUC>.
05  02 11 04.3& 43.080 N    0.590 W    2 G                    5  PYRENEES. <STR>. ML 2.2 (STR).
05  02 25 59.9& 43.030 N    0.590 W    2 G                    4  PYRENEES. <STR>. ML 2.2 (STR).
05  02 31 17.4*  3.215 S  145.464 E   33 N  4.7       1.4   13  NEAR N COAST OF NEW GUINEA, PNG.
05  03 27 33.7%  2.982 S  119.490 E   10 G                0.4    5  SULAWESI, INDONESIA
05  03 30 59.6& 44.318 N    7.397 E    8                      6  NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
05  03 38 08.5* 45.322 N   14.776 E   10 G                0.9    9  NORTHWESTERN BALKAN REGION. ML 3.0 (VIE).
05  04 24 04.6& 16.119 N   97.449 W   10                      6  OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
05  04 26 54.9* 45.340 N   14.780 E   10 G                0.9    9  NORTHWESTERN BALKAN REGION. ML 3.0 (VIE).
05  05 14 37.2? 45.56  N   15.00  E   10 G                1.4    4  NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
05  06 00 56.7* 29.385 N   51.769 E   33 N  4.4       1.1   32  SOUTHERN IRAN
05  06 21 47.8?  6.05  S  153.05  E   33 N  4.5       1.1    8  NEW BRITAIN REGION, P.N.G.
05  07 20 17.9*  6.924 S  130.882 E   33 N  4.7       0.9    8  BANDA SEA
05  07 55 16.9& 40.478 N   29.012 E    8                      7  TURKEY. <ISK>. MD 2.7 (ISK).
05  08 18 23.8* 58.010 S   25.266 W   33 N                1.0   17  SOUTH SANDWICH ISLANDS REGION
05  08 35 13.5& 40.709 N   29.131 E    8                     10  TURKEY. <ISK>. MD 3.2 (ISK).
05  08 52 27.8  21.612 S   68.228 W  129 *  4.3       1.0   38  CHILE-BOLIVIA BORDER REGION
05  09 05 59.8* 51.568 N   16.100 E    5 G                0.8    5  POLAND. ML 2.3 (CLL).
05  10 30 41.4* 38.767 N   70.261 E   33 N  3.6       1.3    9  AFGHANISTAN-TAJIKISTAN BORD REG.
05  10 48 03.5? 11.70  N  143.06  E   33 N                1.1    8  SOUTH OF MARIANA ISLANDS
05  10 48 15.2& 44.800 N    6.600 E    2                      9  FRANCE. <LDG>. ML 2.2 (LDG).
05  10 51 30.7  21.930 N   94.602 E  119 D  4.5       1.0   44  MYANMAR
05  12 00 10.0  28.766 N   43.518 W   10 G  5.1 4.7    0.9   90  NORTHERN MID-ATLANTIC RIDGE. Mw 5.3 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   12:00:15.2; Lat 28.40 N; Lon 43.51 W; Dep 15.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=0.92, Plg=26, Azm=80; (N) Val=0.31, Plg=25, Azm=337;
                                                                   (P) Val=-1.23, Plg=52, Azm=210; Best double couple:
                                                                   Mo=1.1*10**17 Nm; NP1: Strike=213, Dip=30, Slip=-30; NP2:
                                                                   Strike=330, Dip=75, Slip=-116.
05  13 19 25.6& 44.328 N    7.378 E    6                      9  NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
05  13 31 45.2? 33.35  N  136.91  E  402 *                0.8    6  NEAR S. COAST OF WESTERN HONSHU
05  14 03 55.3& 43.090 N    0.160 W    2 G                    5  PYRENEES. <STR>. ML 2.3 (STR).
05  14 30 32.8& 46.200 N    7.600 E    3                     36  SWITZERLAND. <LDG>. ML 2.8 (LDG), 2.7 (STR), 2.5 (FBB).
05  14 54 10.1& 62.983 N  149.531 W   81                     20  CENTRAL ALASKA. <AEIC>.
05  15 09 21.7* 49.345 S  127.423 E   10 G                0.6    7  SOUTH OF AUSTRALIA
05  16 14 49.6? 14.98  S  172.93  W   33 N  4.1       0.8    9  SAMOA ISLANDS
05  16 59 32.4& 45.100 N    3.340 E    6 G                   11  FRANCE. <STR>. ML 2.1 (STR), 2.0 (LDG).
05  17 04 02.0  11.294 S  114.305 E   33 N  5.3 4.8    1.2   87  SOUTH OF BALI, INDONESIA. Mw 5.1 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   17:04:04.1; Lat 11.48 S; Lon 115.17 E; Dep 57.0; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=5.65, Plg=7, Azm=168; (N) Val=-0.38, Plg=63, Azm=273;
                                                                   (P) Val=-5.27, Plg=26, Azm=75; Best double couple:
                                                                   Mo=5.5*10**16 Nm; NP1: Strike=214, Dip=67, Slip=-166; NP2:
                                                                   Strike=119, Dip=78, Slip=-24.
05  17 21 28.0& 34.800 N  116.310 W    4                     30  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
05  17 37 15.5& 33.245 S   72.114 W   35                     10  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
05  17 42 29.6& 33.179 S   72.153 W   15                     11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
05  18 02 57.0& 34.610 N  116.290 W    3                     35  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
05  18 31 43.0%  5.950 S  154.708 E   33 N                0.8   10  SOLOMON ISLANDS
05  19 13 49.6   4.445 S  152.873 E   33 N  5.2       0.9   41  NEW BRITAIN REGION, P.N.G.
05  20 13 24.7? 32.84  N   60.34  E   33 N  4.1       1.1    8  NORTHERN IRAN
05  21 32 04.2  15.623 S  172.770 W   33 N  5.0 4.8    0.9   56  SAMOA ISLANDS REGION. Mw 5.1 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   21:32:07.2; Lat 15.98 S; Lon 172.15 W; Dep 15.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=3.97, Plg=64, Azm=230; (N) Val=0.85, Plg=15, Azm=353;
                                                                   (P) Val=-4.82, Plg=21, Azm=89; Best double couple:
                                                                   Mo=4.4*10**16 Nm; NP1: Strike=204, Dip=27, Slip=124; NP2:
                                                                   Strike=347, Dip=68, Slip=74.
05  21 45 16.9& 33.677 S   71.954 W   40                     13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
05  21 47 46.4& 63.520 N  149.124 W    7                     10  CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.8 (PMR).
05  22 21 07.9   3.007 N  122.434 E  569     4.9       0.9   40  CELEBES SEA
05  23 36 03.4& 37.619 N  118.849 W    8                     10  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
05  23 50 35.3& 63.294 N  150.747 W  145                     11  CENTRAL ALASKA. <AEIC>.
05  23 52 38.1*  5.497 S  146.945 E  154     4.4       0.7   13  EASTERN NEW GUINEA REG., P.N.G.
06  00 12 16.6& 34.503 N  116.252 W    2                     10  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
06  00 18 37.3* 18.558 N   93.705 E   33 N                1.0    8  MYANMAR
06  00 44 46.3* 22.902 N  121.060 E   33 N  3.3       0.9   11  TAIWAN REGION
06  00 51 09.3* 39.492 N   20.556 E   33 N                1.0   12  GREECE-ALBANIA BORDER REGION. MD 3.2 (PDG).
06  00 57 04.8  29.953 S   71.576 W   55     5.1 4.9    0.9  118  NEAR COAST OF CENTRAL CHILE. Mw 5.3 (HRV). MD 5.1 (GUC).
                                                                   Felt (IV) at Coquimbo and La Serena; (III) at Copiapo; (II)
                                                                   at Vallenar and Vicuna.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   00:57:09.7; Lat 29.63 S; Lon 71.60 W; Dep 32.9; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
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Val=7.95, Plg=54, Azm=177; (N) Val=1.36, Plg=20, Azm=57; (P) Val=-9.31, Plg=28, Azm=315; Best double couple: Mo=8.6*10**16 Nm; NP1: Strike=4, Dip=25, Slip=34; NP2: Strike=242, Dip=76, Slip=111.

06	01	05	19.2&	30.067	S	71.916	W	35			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
06	01	27	47.0&	34.520	N	116.270	W	1			29	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
06	01	48	20.7%	55.727	N	110.149	E	10 G		1.1	6	LAKE BAYKAL REGION, RUSSIA
06	02	29	59.0	29.955	S	71.645	W	61 *	4.3	1.2	37	NEAR COAST OF CENTRAL CHILE. MD 4.5 (GUC). Felt (III) at Coquimbo and La Serena; (II) at Vicuna.
06	03	46	29.5	51.566	N	16.131	E	5 G		0.8	18	POLAND. ML 3.4 (VIE), 2.9 (CLL).
06	03	47	34.1&	34.830	N	116.383	W	4			44	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
06	04	14	01.2&	44.285	N	7.378	E	13			5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
06	04	17	30.3	57.367	S	25.960	W	33 N	5.0 4.3	0.8	64	SOUTH SANDWICH ISLANDS REGION. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:17:36.4; Lat 58.03 S; Lon 25.35 W; Dep 59.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.23, Plg=66, Azm=263; (N) Val=-1.29, Plg=13, Azm=140; (P) Val=-2.94, Plg=19, Azm=45; Best double couple: Mo=3.6*10**16 Nm; NP1: Strike=114, Dip=29, Slip=61; NP2: Strike=326, Dip=65, Slip=105.
06	04	21	19.2*	23.237	N	121.340	E	33 N	4.4	1.4	18	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Cheng-kung and Chia-i.
06	04	24	38.8&	33.055	S	70.592	W	93			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
06	04	31	57.4&	42.580	N	1.340	E	2 G			58	PYRENEES. <STR>. ML 3.1 (STR), 3.1 (LDG). mbLg 2.7 (MDD). Felt (IV) at Alins and Areo; (III) at Llavorsi and Ribera de Cardos; (II) at Farga de Moles; (I) at Lladorre and Sort, Spain.
06	05	09	19.7?	5.68	N	124.04	E	498 *		1.1	9	MINDANAO, PHILIPPINE ISLANDS
06	05	34	35.7*	50.955	N	5.840	E	10 G		1.0	10	BELGIUM. ML 3.0 (LDG), 2.6 (STR).
06	05	43	54.3*	35.271	N	22.991	E	33 N		0.9	9	CENTRAL MEDITERRANEAN SEA
06	06	10	07.9&	31.854	S	71.909	W	28			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
06	06	17	35.7&	34.512	S	70.473	W	113			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
06	07	14	16.5?	15.48	S	172.99	W	33 N	4.3	0.9	14	SAMOA ISLANDS REGION
06	07	27	08.1?	32.77	S	68.94	W	10 G		0.6	11	MENDOZA PROVINCE, ARGENTINA. MD 3.3 (GUC).
06	08	53	49.6&	34.626	S	70.200	W	2			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
06	09	18	28.7	9.687	N	78.626	W	48	4.7	0.7	92	PANAMA. MD 4.7 (UPA), 4.3 (CASC). Felt at Panama City.
06	09	27	56.5&	59.135	N	151.626	W	53			6	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
06	11	52	37.6&	36.920	N	5.260	W	5			6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
06	12	26	53.0&	32.656	S	71.638	W	34			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
06	13	07	32.1*	2.722	S	138.383	E	33 N	4.3	1.0	10	IRIAN JAYA, INDONESIA
06	13	50	13.7*	65.067	N	150.594	W	10 G		1.1	9	NORTHERN ALASKA. ML 3.2 (PMR).
06	13	55	30.8	46.146	N	13.609	E	10 G		0.8	10	AUSTRIA. ML 2.3 (VIE), 1.7 (LJU).
06	14	35	00.2*	1.039	S	127.387	E	33 N	4.3	0.7	7	HALMAHERA, INDONESIA
06	15	03	40.1&	17.557	N	96.707	W	83	4.2		43	OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).
06	15	38	09.3	39.297	N	20.504	E	33 N		1.1	20	GREECE-ALBANIA BORDER REGION. MD 3.2 (PDG).
06	15	56	01.3	43.120	N	141.568	E	145 *	4.3	0.8	19	HOKKAIDO, JAPAN REGION
06	16	43	05.9&	41.818	N	20.744	E	3			12	ALBANIA. <PDG>. MD 2.8 (PDG).
06	16	46	00.9	5.070	S	80.651	W	45 D	4.8	0.6	46	NEAR COAST OF NORTHERN PERU. Felt (IV) at Piura and Sullana; (III) at Paita; (II) at Chiclayo.
06	17	10	49.0?	5.61	S	150.98	E	111 ?	4.3	0.8	11	NEW BRITAIN REGION, P.N.G.
06	17	29	58.1&	40.070	S	174.900	E	15			19	COOK STRAIT, NEW ZEALAND. <WEL>. ML 4.4 (WEL). Felt at Wanganui on the North Island.
06	17	57	23.2&	34.833	N	116.334	W	6			31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
06	18	05	14.3&	60.338	N	152.448	W	108			6	SOUTHERN ALASKA. <AEIC>.
06	18	16	39.8*	11.697	S	115.977	E	33 N	4.7	1.0	13	SOUTH OF BALI, INDONESIA
06	18	29	15.2*	14.903	S	167.345	E	135 *	4.3	0.7	29	VANUATU ISLANDS
06	18	34	01.2*	35.638	N	135.745	E	10 G	4.7	1.1	23	WESTERN HONSHU, JAPAN. Felt (IV JMA) in central Fukui; (III JMA) in northern Fukui, southern Ishikawa and parts of Mie and Shiga Prefectures. Felt from Hiroshima to southern Shizuoka Prefectures.
06	19	01	53.0&	34.724	S	70.957	W	94			15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
06	20	06	34.7*	72.378	N	153.520	W	10 G		1.2	16	BEAUFORT SEA. ML 4.1 (PMR).
06	21	08	29.3&	63.523	N	151.153	W	40			9	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).
06	21	21	16.9&	15.806	N	95.444	W	19			9	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
06	21	21	31.8&	16.394	N	99.777	W	0			10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
06	21	23	40.2%	9.778	N	126.391	E	33 N		0.8	6	MINDANAO, PHILIPPINE ISLANDS
06	22	15	48.0&	34.570	N	116.260	W	2			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
06	22	52	11.5	46.565	N	152.281	E	58 D	4.6	0.9	30	KURIL ISLANDS
06	23	29	19.0	41.090	N	116.844	W	10 G		0.8	13	NEVADA. ML 3.1 (GS).
07	00	53	00.9?	21.61	S	178.47	W	400 G	3.9	1.0	10	FIJI ISLANDS REGION
07	03	39	59.8	53.549	N	158.751	E	129	4.2	1.1	37	NEAR EAST COAST OF KAMCHATKA
07	04	17	31.2*	9.083	S	108.084	E	33 N	3.8	1.3	10	SOUTH OF JAWA, INDONESIA
07	04	59	43.9&	34.771	S	71.027	W	89			8	NEAR COAST OF CENTRAL CHILE. <GUC>.
07	05	45	33.5&	64.297	N	145.883	W	0			5	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC).
07	06	02	45.6&	34.373	S	72.242	W	36			9	NEAR COAST OF CENTRAL CHILE. <GUC>.
07	06	26	24.3*	31.455	S	72.326	W	33 N		0.9	19	OFF COAST OF CENTRAL CHILE. MD 4.3 (GUC).
07	06	33	18.0&	32.740	N	117.300	W	6 G			22	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS).
07	06	47	49.7&	34.790	N	116.292	W	5			59	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
07	06	53	10.5	10.426	N	62.614	W	47	4.7	1.0	59	NEAR COAST OF VENEZUELA. MD 4.5 (TRN).
07	07	58	09.7&	34.865	N	116.400	W	3			8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
07	08	49	39.3&	9.453	N	83.384	W	10			5	COSTA RICA. <UPA>. MD 4.1 (UPA).
07	08	53	50.9	1.414	S	123.650	E	70 *	4.5	1.3	26	SULAWESI, INDONESIA
07	09	07	52.9&	7.196	N	80.078	W	0			5	PANAMA. <UPA>. MD 4.0 (UPA).
07	09	20	52.4&	34.605	N	116.307	W	1			15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
07	10	13	45.0	51.594	N	177.682	W	65	4.2	0.8	45	ANDREANOF ISLANDS, ALEUTIAN IS.
07	10	18	37.3&	45.900	N	2.800	E	5			8	FRANCE. <LDG>. ML 1.7 (LDG).
07	10	23	40.0&	34.840	N	116.380	W	0			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
07	10	45	21.6&	47.300	N	6.000	E	5			24	FRANCE. <LDG>. ML 2.4 (LDG), 2.1 (STR).
07	10	47	54.7&	47.300	N	6.000	E	8			18	FRANCE. <LDG>. ML 2.2 (LDG), 2.0 (STR).
07	10	47	55.3%	22.230	N	143.765	E	33 N		0.6	8	VOLCANO ISLANDS REGION
07	11	02	32.0	58.070	N	152.190	W	54		0.8	23	KODIAK ISLAND REGION. ML 4.2 (PMR), 3.7 (AEIC). Felt (IV) at Kodiak. Also felt at Old Harbor, Ouzinkie and Port Lions.
07	11	15	36.4*	40.745	N	30.227	E	10 G	3.8	0.8	7	TURKEY

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07  11 23 29.7& 47.900 N    3.500 W    2                      5  FRANCE. <LDG>. ML 2.2 (LDG).
07  11 36 02.2* 16.631 S   67.109 E   10 G  4.6       0.6    12  MID-INDIAN RIDGE
07  11 36 49.2& 34.600 N  116.218 W    7                     29  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
07  11 46 32.5& 32.856 S   70.809 W   72                     10  CHILE-ARGENTINA BORDER REGION. <GUC>.
07  11 56 50.2* 32.327 S  177.497 W   33 N            1.2    13  SOUTH OF KERMADEC ISLANDS
07  11 57 23.5  20.904 S  174.319 W   33 N  5.0 4.9  1.0    63  TONGA ISLANDS. Mw 5.3 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  11:57:26.4; Lat 21.23 S; Lon 173.60 W; Dep 15.0 Bdy; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=9.78, Plg=67, Azm=320; (N) Val=-1.51, Plg=9, Azm=208;
                                                                  (P) Val=-8.27, Plg=21, Azm=115; Best double couple:
                                                                  Mo=9.0*10**16 Nm; NP1: Strike=188, Dip=25, Slip=68; NP2:
                                                                  Strike=32, Dip=67, Slip=100.
07  12 24 52.1  31.732 S   71.816 W   59 *  3.6       1.1    30  NEAR COAST OF CENTRAL CHILE. MD 4.4 (GUC).
07  12 53 36.4  37.487 N  140.747 E   76 D  4.5       0.9    62  EASTERN HONSHU, JAPAN. Felt (III JMA) in eastern Fukushima
                                                                  and southern Miyagi Prefectures. Felt (I JMA) as far as
                                                                  southern Iwate and Ibaraki Prefectures.
07  13 29 17.1   7.929 S  117.774 E   33 N  4.9       1.2    30  BALI SEA
07  14 43 35.3  32.607 N   21.178 E   10 G  4.1       1.3    82  NEAR COAST OF LIBYA
07  16 11 01.6   5.900 S  146.466 E   33 N  4.8       1.1    24  EASTERN NEW GUINEA REG., P.N.G. ML 4.7 (PMG).
07  16 17 21.8& 34.846 N  116.356 W    5                     10  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
07  16 25 55.5* 13.515 N  125.131 E   33 N            1.4     8  PHILIPPINE ISLANDS REGION
07  16 54 41.7  40.693 N   30.725 E   10 G  4.9 4.2  1.1   186  TURKEY. Mw 5.0 (HRV). MD 5.0 (ISK). One person died from a
                                                                  heart attack at Hendek. Felt at Bursa, Eskisehir, Istanbul,
                                                                  Izmit and Sakarya.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  16:54:43.8; Lat 40.57 N; Lon 31.36 E; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=3.19, Plg=61, Azm=203; (N) Val=0.08, Plg=15, Azm=83;
                                                                  (P) Val=-3.27, Plg=24, Azm=346; Best double couple:
                                                                  Mo=3.2*10**16 Nm; NP1: Strike=47, Dip=25, Slip=51; NP2:
                                                                  Strike=269, Dip=71, Slip=106.
07  17 06 06.0  40.738 N   30.751 E   10 G  4.2       1.2    48  TURKEY. MD 4.3 (ISK).
07  17 09 50.4? 5.85  S   146.47  E   33 N            1.2     7  EASTERN NEW GUINEA REG., P.N.G.
07  17 16 27.5* 5.904 S   146.424 E   46 *  4.0       0.9    11  EASTERN NEW GUINEA REG., P.N.G.
07  17 36 34.3& 34.784 N  116.291 W    6                     11  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
07  17 49 01.7? 5.86  S   146.49  E   33 N            1.5     7  EASTERN NEW GUINEA REG., P.N.G.
07  18 28 33.9& 60.255 N  152.051 W   76                      8  SOUTHERN ALASKA. <AEIC>.
07  18 59 11.0&  7.950 S  115.000 E   80                      4  BALI SEA. <DJA>.
07  19 34 08.9* 38.579 S  175.652 E  183            0.9     20  NORTH ISLAND, NEW ZEALAND
07  20 55 43.4* 52.232 N  179.980 E  199 *  4.3       1.0    14  RAT ISLANDS, ALEUTIAN ISLANDS
07  20 56 18.9& 17.009 N   99.658 W   30                     14  GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
07  21 10 46.5*  3.686 N  122.366 E  619 *  4.7       1.1    25  CELEBES SEA
07  21 13 08.9   8.703 S  159.439 E  125 D  4.9       0.8    46  SOLOMON ISLANDS
07  21 28 47.7& 36.560 N    3.050 W    0 G                     10  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
07  21 41 28.5* 65.719 N  152.310 W   33 N            0.6     6  NORTHERN ALASKA. ML 3.0 (PMR).
07  23 02 32.1& 38.080 N    4.100 W    0 G                     8  SPAIN. <MDD>. mbLg 2.3 (MDD).
08  00 04 23.1& 44.500 N    7.400 E    2                      9  NORTHERN ITALY. <LDG>. ML 2.1 (STR), 1.9 (LDG).
08  01 05 38.6? 22.83  S  169.62  E   33 N  4.9       1.4    15  LOYALTY ISLANDS REGION
08  01 23 45.5  44.551 N  148.072 E   69     4.2       0.9    31  KURIL ISLANDS
08  01 53 12.4& 37.357 N  118.582 W    9     3.6              57  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. Mw 3.9 (BRK). ML
                                                                  4.4 (GM), 4.4 (BRK). Felt at Bishop, Orange Cove and Three
                                                                  Rivers, California.
                                                                 Moment Tensor (BRK): Dep 10; Principal axes (scale 10**14
                                                                  Nm): (T) Val=7.10, Plg=0, Azm=70; (N) Val=0.00, Plg=61,
                                                                  Azm=161; (P) Val=-7.10, Plg=29, Azm=340; Best double
                                                                  couple: Mo=7.1*10**14 Nm; NP1: Strike=21, Dip=70, Slip=-22;
                                                                  NP2: Strike=119, Dip=69, Slip=-159.
08  02 27 35.9& 34.849 S   70.865 W  110                     14  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
08  02 36 48.1  17.397 N  100.540 W   52     4.7 4.1  1.1   111  GUERRERO, MEXICO. MD 4.6 (UNM).
08  02 43 11.7& 44.400 N    7.300 E    2                     12  NORTHERN ITALY. <LDG>. ML 2.0 (STR), 1.8 (LDG).
08  03 37 05.0& 37.354 N  118.578 W   10                     18  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.1 (GM), 3.2
                                                                  (BRK).
08  03 44 58.2& 37.355 N  118.576 W   11                      8  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.7 (GM). ML 3.0
                                                                  (BRK).
08  03 50 15.8& 32.681 S   71.790 W   15                     15  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
08  04 20 49.5& 59.629 N  152.630 W   78                      7  SOUTHERN ALASKA. <AEIC>.
08  04 52 24.0& 34.670 N  116.297 W    4                      7  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
08  05 51 19.9   6.751 N   72.892 W  164     5.1       1.0   304  NORTHERN COLOMBIA. Mw 5.4 (GS), 5.4 (HRV). Felt in much of
                                                                  central Colombia, including Bogota, Bucaramanga and Tunja.
                                                                 Moment Tensor (GS): Dep 154; Principal axes (scale 10**17
                                                                  Nm): (T) Val=1.55, Plg=49, Azm=18; (N) Val=0.07, Plg=39,
                                                                  Azm=175; (P) Val=-1.62, Plg=11, Azm=275; Best double
                                                                  couple: Mo=1.6*10**17 Nm; NP1: Strike=42, Dip=48, Slip=148;
                                                                  NP2: Strike=155, Dip=67, Slip=47.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  05:51:23.8; Lat 6.90 N; Lon 73.15 W; Dep 160.2; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.50, Plg=49, Azm=38; (N) Val=0.21, Plg=33, Azm=178;
                                                                  (P) Val=-1.71, Plg=20, Azm=282; Best double couple:
                                                                  Mo=1.6*10**17 Nm; NP1: Strike=54, Dip=38, Slip=152; NP2:
                                                                  Strike=167, Dip=73, Slip=55.
08  06 58 59.0& 48.330 N    9.080 E   13                      5  GERMANY. <FBB>. ML 1.8 (FBB).
08  07 24 19.6&  8.280 S  115.200 E  133                      4  BALI REGION, INDONESIA. <DJA>.
08  07 44 40.1& 34.778 N  116.350 W    3                     29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
08  08 07 34.8* 51.917 N  175.213 W   76 *  4.3       0.8    26  ANDREANOF ISLANDS, ALEUTIAN IS.
08  08 51 03.5& 32.043 S   71.237 W   46                     10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
08  09 01 22.6& 33.869 S   70.487 W   13                      6  CHILE-ARGENTINA BORDER REGION. <GUC>.
08  09 52 32.4* 46.787 N   11.006 E   10 G            0.1     6  NORTHERN ITALY. ML 2.2 (VIE).
08  10 36 56.9  12.977 S  169.217 E  651 *  4.5       0.8    96  SANTA CRUZ ISLANDS REGION
08  10 42 39.7* 40.316 N  127.539 W   10 G  3.9       0.9    33  OFF COAST OF NORTHERN CALIFORNIA
08  10 57 22.2  54.490 N  161.003 W   34 D  4.9 4.9  0.9   160  ALASKA PENINSULA. Mw 5.4 (HRV). ML 5.2 (PMR), 4.7 (AEIC).
                                                                  Felt strongly at Cold Bay, King Cove and Sand Point.
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Centroid, Moment Tensor (HRV): Centroid origin time 10:57:24.8; Lat 54.19 N; Lon 160.40 W; Dep 32.0 Bdy; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.27, Plg=67, Azm=313; (N) Val=0.07, Plg=7, Azm=59; (P) Val=-1.34, Plg=22, Azm=152; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=254, Dip=24, Slip=106; NP2: Strike=57, Dip=67, Slip=83.

08	13	12	17.3*	13.497	N	120.249	E	117 *	4.3	0.9	16	MINDORO, PHILIPPINE ISLANDS
08	13	54	59.8*	3.365	N	123.071	E	497 *	4.0	0.9	15	CELEBES SEA
08	14	19	32.2	54.645	N	168.208	E	33 N	4.7	1.0	41	KOMANDORSKY ISLANDS REGION
08	14	25	39.9&	46.200	N	6.200	E	2			6	SWITZERLAND. <LDG>. ML 2.6 (LDG).
08	14	58	45.7*	11.551	N	125.836	E	33 N		1.1	10	SAMAR, PHILIPPINE ISLANDS
08	16	31	19.9&	34.601	N	116.275	W	0			30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
08	16	45	43.0	36.522	N	71.240	E	228 D	6.2	1.0	436	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 6.5 (GS), 6.5 (HRV). Me 6.2 (GS). One person injured at Kabul; felt throughout eastern Afghanistan. Felt (VI) at Dushanbe, Tajikistan. Felt (V) at Samarqand and Toshkent; (IV) at Farghona; (III) at Andijon and Namangan, Uzbekistan. Felt (III) at Chardzhev, Turkmenistan. Felt in much of Pakistan from North West Frontier Province to parts of Sindh Province. Felt at Srinagar, Jammu and Kashmir. Also felt in many parts of northern India as far south as Delhi.

Broadband Source Parameters (GS): Dep 228; NP1: Strike=10, Dip=65, Slip=90; NP2: Strike=190, Dip=25, Slip=90; Radiated energy 4.6*10**13 Nm.

Moment Tensor (GS): Dep 226; Principal axes (scale 10**18 Nm): (T) Val=6.24, Plg=76, Azm=285; (N) Val=0.81, Plg=1, Azm=21; (P) Val=-7.05, Plg=14, Azm=111; Best double couple: Mo=6.7*10**18 Nm; NP1: Strike=203, Dip=31, Slip=93; NP2: Strike=20, Dip=59, Slip=88.

Centroid, Moment Tensor (HRV): Centroid origin time 16:45:46.2; Lat 36.48 N; Lon 70.81 E; Dep 237.2; Half-duration 4.1 sec; Principal axes (scale 10**18 Nm): (T) Val=6.36, Plg=71, Azm=278; (N) Val=0.01, Plg=3, Azm=17; (P) Val=-6.37, Plg=19, Azm=108; Best double couple: Mo=6.4*10**18 Nm; NP1: Strike=203, Dip=27, Slip=97; NP2: Strike=16, Dip=64, Slip=87.

08	17	54	03.4	54.692	N	168.218	E	33 N	4.5	0.6	17	KOMANDORSKY ISLANDS REGION
08	18	28	46.9	54.609	N	161.951	E	33 N	4.5	1.2	58	NEAR EAST COAST OF KAMCHATKA
08	19	19	18.4	14.458	S	166.639	E	33 N	4.9	1.2	96	VANUATU ISLANDS
08	19	22	52.5	45.604	N	26.380	E	138	4.4	1.4	103	ROMANIA. Felt (III) at Chisinau, Moldova.
08	19	34	07.2*	38.320	N	121.502	E	33 N		0.8	5	NORTHEASTERN CHINA. ML 3.6 (BJI).
08	19	41	37.4	6.175	S	147.504	E	67	5.0	0.9	42	EASTERN NEW GUINEA REG., P.N.G.
08	19	45	09.2*	54.572	N	161.716	E	58 *	4.5	1.0	16	NEAR EAST COAST OF KAMCHATKA
08	20	13	33.6?	11.36	S	162.46	E	33 N		1.5	8	SOLOMON ISLANDS
08	20	28	42.6*	44.177	S	39.196	E	10 G	4.7	1.0	10	PRINCE EDWARD ISLANDS REGION
08	20	39	16.4	54.530	N	168.276	E	33 N	4.7	1.1	35	KOMANDORSKY ISLANDS REGION
08	21	10	48.9?	7.49	S	127.44	E	136 ?	4.0	1.1	10	BANDA SEA
08	21	11	28.8&	31.975	S	71.236	W	39			15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
08	21	19	59.1	54.633	N	168.374	E	33 N	4.5	1.0	27	KOMANDORSKY ISLANDS REGION
08	21	37	23.2	35.726	N	61.205	E	26	5.5 5.2	0.9	261	TURKMENISTAN-AFGHANISTAN BRD REG. Mw 5.5 (GS), 5.5 (HRV), 5.5 (CSEM). Many houses destroyed in villages near Sarakhs and Torbat-e Jam, Iran. Felt at Mashhad and in much of northeastern Khorasan Province, Iran. Felt (III) at Gushgy, Mary and Saragt, Turkmenistan.

Moment Tensor (GS): Dep 17; Principal axes (scale 10**17 Nm): (T) Val=1.63, Plg=85, Azm=349; (N) Val=0.16, Plg=5, Azm=156; (P) Val=-1.80, Plg=1, Azm=246; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=342, Dip=44, Slip=97; NP2: Strike=152, Dip=46, Slip=83.

Centroid, Moment Tensor (HRV): Centroid origin time 21:37:27.0; Lat 36.04 N; Lon 61.38 E; Dep 44.5; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.03, Plg=88, Azm=74; (N) Val=-0.03, Plg=1, Azm=305; (P) Val=-2.00, Plg=2, Azm=215; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=304, Dip=43, Slip=88; NP2: Strike=126, Dip=47, Slip=92.

Moment Tensor (CSEM): Dep 10; Principal axes: (T) Plg=62, Azm=207; (N) Plg=28, Azm=28; (P) Plg=1, Azm=298; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=233, Dip=52, Slip=127; NP2: Strike=2, Dip=51, Slip=52.

08	21	45	15.6*	31.309	N	77.294	E	33 N	4.4	1.3	30	NORTHERN INDIA
08	21	55	01.5&	54.733	N	168.369	E	33 N		0.6	7	KOMANDORSKY ISLANDS REGION
08	22	06	44.3*	54.670	N	168.343	E	33 N	4.2	0.7	11	KOMANDORSKY ISLANDS REGION
08	22	38	40.3	21.154	N	121.891	E	135	5.0	0.9	53	TAIWAN REGION
08	22	43	47.7*	54.616	N	168.359	E	33 N	4.3	1.1	13	KOMANDORSKY ISLANDS REGION
08	22	52	31.9*	54.677	N	168.227	E	33 N	4.4	0.7	16	KOMANDORSKY ISLANDS REGION
08	23	37	01.6?	52.60	N	170.69	E	33 N	4.4	1.4	18	NEAR ISLANDS, ALEUTIAN ISLANDS
09	00	07	56.9&	34.760	S	70.943	W	90			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
09	01	11	30.9?	52.62	N	162.59	E	33 N		1.4	6	OFF EAST COAST OF KAMCHATKA
09	03	20	37.3&	34.817	N	116.283	W	3			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
09	04	11	11.8*	35.679	N	61.314	E	10 G	4.2	1.2	23	TURKMENISTAN-AFGHANISTAN BRD REG. Felt at Torbat-e Jam, Iran.
09	04	15	26.7*	54.477	N	168.685	E	33 N	4.1	0.9	9	KOMANDORSKY ISLANDS REGION
09	05	20	54.1	35.785	N	61.286	E	10 G	5.1	0.9	119	TURKMENISTAN-AFGHANISTAN BRD REG. Mw 5.4 (HRV). Felt at Torbat-e Jam, Iran.

Centroid, Moment Tensor (HRV): Centroid origin time 05:20:54.3; Lat 35.78 N Fix; Lon 61.29 E Fix; Dep 24.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.40, Plg=50, Azm=252; (N) Val=-0.14, Plg=0, Azm=162; (P) Val=-1.26, Plg=40, Azm=72; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=160, Dip=5, Slip=89; NP2: Strike=342, Dip=85, Slip=90.

09	05	33	26.5&	17.694	N	97.195	W	76			4	OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).

09	05	38	49.7	43.736	N	148.453	E	33	N	5.1	4.5	0.8	153	EAST OF KURIL ISLANDS
09	08	17	41.1	43.479	N	107.477	W	5	G			0.7	12	WYOMING. ML 3.1 (GS).
09	08	20	56.0*	58.248	S	9.465	W	10	G	4.5		1.2	9	SOUTHWESTERN ATLANTIC OCEAN
09	09	33	31.0	45.336	N	153.850	E	33	N	5.0		0.9	42	EAST OF KURIL ISLANDS
09	09	38	32.7&	34.670	N	116.292	W	2					9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
09	10	14	12.0&	35.006	S	70.979	W	85					8	CHILE-ARGENTINA BORDER REGION. <GUC>.
09	10	57	20.9&	44.360	N	7.500	E	2	G				12	NORTHERN ITALY. <STR>. ML 2.2 (LDG), 2.1 (STR).
09	11	02	51.2&	34.671	N	116.288	W	3					6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
09	11	05	37.3*	37.792	N	20.543	E	33	N	3.7		0.8	12	IONIAN SEA
09	11	49	20.1	35.683	N	61.238	E	10	G	5.2	4.2	0.8	151	TURKMENISTAN-AFGHANISTAN BRD REG. Mw 4.9 (HRV). Felt at Torbat-e Jam, Iran. Centroid, Moment Tensor (HRV): Centroid origin time 11:49:23.2; Lat 35.90 N; Lon 61.19 E; Dep 22.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.71, Plg=74, Azm=345; (N) Val=-1.56, Plg=16, Azm=180; (P) Val=-2.15, Plg=4, Azm=89; Best double couple: Mo=2.9*10**16 Nm; NP1: Strike=162, Dip=43, Slip=67; NP2: Strike=13, Dip=51, Slip=110.
09	11	59	04.9	18.359	N	145.143	E	463	D	4.8		0.8	94	MARIANA ISLANDS
09	12	04	19.9&	34.294	N	116.078	W	0					34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
09	12	04	22.0*	54.782	N	168.373	E	33	N	4.1		0.6	7	KOMANDORSKY ISLANDS REGION
09	12	40	36.7	31.600	N	130.546	E	150		4.6		1.0	21	KYUSHU, JAPAN. Felt (I JMA) in southern Kyushu.
09	12	46	31.7	2.188	N	127.984	E	33	N			0.8	8	NORTHERN MOLUCCA SEA
09	14	04	01.1	46.018	N	14.794	E	10	G			1.0	11	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 2.2 (LJU). Felt (IV) in the Litija area, Slovenia.
09	14	08	12.5*	46.062	N	14.779	E	10	G			0.3	5	NORTHWESTERN BALKAN REGION. ML 1.4 (LJU).
09	14	29	56.3*	10.060	N	138.552	E	33	N			1.4	14	WESTERN CAROLINE ISLANDS
09	15	31	21.8*	4.348	N	75.728	W	10	G			1.1	7	COLOMBIA. ML 3.7 (RSNC).
09	16	25	39.8	47.303	N	82.281	E	33	N	4.7		1.3	47	KAZAKHSTAN-XINJIANG BORDER REG. Felt (III) at Ust-Kamenogorsk, Kazakhstan.
09	16	27	52.7&	33.163	S	71.015	W	66					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.4 (GUC).
09	16	35	35.3	13.111	N	92.265	E	33	N	5.0		0.9	84	ANDAMAN ISLANDS, INDIA
09	17	09	12.4	10.599	N	86.896	W	33	N	5.0	4.3	0.9	102	OFF COAST OF COSTA RICA. Mw 5.2 (HRV). MD 4.5 (UPA). Centroid, Moment Tensor (HRV): Centroid origin time 17:09:14.5; Lat 10.77 N; Lon 87.42 W; Dep 32.7; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=7.77, Plg=21, Azm=220; (N) Val=0.29, Plg=5, Azm=128; (P) Val=-8.06, Plg=68, Azm=25; Best double couple: Mo=7.9*10**16 Nm; NP1: Strike=320, Dip=25, Slip=-77; NP2: Strike=126, Dip=66, Slip=-96.
09	17	26	48.4*	39.094	N	21.119	E	66	*	3.5		1.2	25	GREECE
09	17	54	26.4&	34.531	N	116.264	W	5					7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
09	18	23	25.0&	16.247	N	99.030	W	25					9	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
09	18	41	01.4&	32.710	S	71.760	W	15					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
09	18	45	16.6&	31.699	S	71.981	W	13					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
09	18	57	03.3?	51.39	N	16.07	E	5	G			1.2	6	POLAND. ML 3.2 (VIE).
09	20	05	54.0*	39.177	N	70.833	E	99	*	4.2		0.6	14	TAJIKISTAN
09	20	25	19.8&	34.556	N	116.261	W	5					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
09	20	33	23.1&	44.562	N	7.249	E	13					23	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.2 (LDG), 2.0 (STR).
09	22	50	53.9&	32.011	S	71.274	W	70					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
09	22	58	57.4&	42.580	N	0.030	E	5	G				4	PYRENEES. <STR>. ML 2.2 (STR).
09	23	50	15.3&	34.299	S	70.549	W	104					9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
09	23	59	08.6	32.162	N	71.407	E	33	N	4.8		0.8	73	PAKISTAN
10	00	01	34.7&	36.960	N	5.520	W	0	G				5	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
10	00	30	59.7*	24.075	N	120.736	E	33	N	3.9		1.2	11	TAIWAN. Felt (III JMA) at Tai-chung.
10	01	07	48.9&	16.540	N	98.441	W	16					17	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
10	01	19	31.3&	16.235	N	96.770	W	92					17	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
10	01	41	15.1	34.560	N	115.921	W	5	G			1.0	9	SOUTHERN CALIFORNIA. ML 3.1 (GS).
10	01	43	35.4&	34.503	N	115.938	W	2					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
10	02	21	41.1*	37.058	N	22.210	E	33	N	3.8		1.1	12	SOUTHERN GREECE
10	02	25	38.8*	6.410	S	107.233	W	10	G	5.1	5.2	1.0	63	CENTRAL EAST PACIFIC RISE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:25:45.8; Lat 6.16 S; Lon 107.16 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.54, Plg=17, Azm=321; (N) Val=-0.35, Plg=73, Azm=152; (P) Val=-2.20, Plg=3, Azm=52; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=98, Dip=76, Slip=10; NP2: Strike=5, Dip=80, Slip=166.
10	04	15	26.4&	34.524	N	116.287	W	1					38	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
10	05	14	06.5*	5.291	N	125.872	E	33	N			1.1	10	MINDANAO, PHILIPPINE ISLANDS
10	05	23	59.4*	33.573	S	68.386	W	10	G			0.7	9	MENDOZA PROVINCE, ARGENTINA
10	06	31	10.2*	0.789	S	123.394	E	65	*			0.9	7	MINAHASSA PENINSULA, SULAWESI
10	08	46	54.5&	63.143	N	150.374	W	110					6	CENTRAL ALASKA. <AEIC>.
10	09	37	40.0&	36.004	N	117.803	W	1					13	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
10	11	24	28.1*	60.847	S	25.436	W	33	N			1.2	18	SOUTH SANDWICH ISLANDS REGION
10	13	04	05.6*	33.250	N	138.182	E	319	*			0.2	7	SOUTH OF HONSHU, JAPAN
10	13	10	12.2	35.680	N	4.634	W	110		4.7		1.0	83	STRAIT OF GIBRALTAR. Felt widely in Andalusia, Spain. Maximum intensity V.
10	13	19	42.7&	32.555	S	71.143	W	61					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
10	13	30	28.3	8.620	N	82.463	W	10	G	4.6		1.2	52	PANAMA-COSTA RICA BORDER REGION. MD 4.7 (UPA).
10	13	57	32.7*	17.714	S	69.348	W	151	*	4.9		1.0	20	PERU-BOLIVIA BORDER REGION. Felt (II) at Arica, Chile.
10	13	59	26.3&	37.467	N	118.844	W	5					14	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
10	14	45	26.2?	24.92	N	125.64	E	150	?	3.8		1.4	10	SOUTHWESTERN RYUKYU ISLANDS
10	14	55	07.1&	34.827	N	116.388	W	1					16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Small precursor about five seconds prior to this event.
10	16	07	16.9&	45.300	N	2.100	E	2					12	FRANCE. <LDG>. ML 2.7 (LDG).
10	17	33	02.2&	33.299	S	72.206	W	8					12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
10	19	00	09.2&	34.728	S	71.006	W	98					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.5 (GUC).
10	19	12	13.6&	32.255	S	71.776	W	15					7	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
10	19	44	07.4*	39.194	N	72.700	E	33	N	4.1		1.3	12	KYRGYZSTAN
10	22	05	54.8&	34.326	S	70.527	W	108					9	CHILE-ARGENTINA BORDER REGION. <GUC>.
10	22	49	45.5&	34.851	N	116.405	W	1					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
10	23	07	22.9?	29.50	N	51.60	E	33	N	4.3		1.2	13	SOUTHERN IRAN

11	00	25	11.7	41.172	N	20.258	E	10	G		1.0	37	ALBANIA. ML 3.7 (PDG), 3.4 (ROM).
11	00	39	18.3&	34.352	N	116.464	W	8				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
11	01	02	51.8&	10.922	N	62.203	W	77				5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).
11	01	15	40.2&	34.652	N	116.288	W	5				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
11	02	00	15.5&	44.381	N	7.407	E	11				7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
11	02	19	05.1	25.243	N	124.011	E	33	N	4.6	1.3	27	NORTHEAST OF TAIWAN
11	02	41	05.0	49.315	N	155.633	E	33	N	5.8 5.7	1.0	499	KURIL ISLANDS. Mw 6.4 (OBN), 6.1 (HRV), 6.0 (GS). Me 5.5 (GS). Felt (III) at Petropavlovsk-Kamchatskiy. Also felt (III) at Severo-Kurilsk, Paramushir. Broadband Source Parameters (GS): Dep 30; NP1: Strike=30, Dip=65, Slip=80; NP2: Strike=233, Dip=27, Slip=110; Radiated energy 4.3*10**12 Nm. Moment Tensor (GS): Dep 34; Principal axes (scale 10**18 Nm): (T) Val=1.09, Plg=74, Azm=280; (N) Val=-0.08, Plg=5, Azm=27; (P) Val=-1.01, Plg=15, Azm=118; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=215, Dip=31, Slip=99; NP2: Strike=24, Dip=60, Slip=85. Centroid, Moment Tensor (HRV): Centroid origin time 02:41:12.4; Lat 49.33 N; Lon 156.10 E; Dep 42.0 Bdy; Half-duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val=1.69, Plg=75, Azm=294; (N) Val=0.22, Plg=2, Azm=33; (P) Val=-1.91, Plg=15, Azm=123; Best double couple: Mo=1.8*10**18 Nm; NP1: Strike=217, Dip=31, Slip=95; NP2: Strike=31, Dip=60, Slip=87. Scalar Moment (OBN): Mo=4.3*10**18 Nm.
11	04	21	39.8?	23.58	N	122.01	E	33	N		1.4	6	TAIWAN REGION
11	04	28	17.8	45.757	N	15.041	E	10	G		0.0	6	NORTHWESTERN BALKAN REGION. ML 1.3 (LJU).
11	04	38	37.9&	44.380	N	7.387	E	11				7	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
11	04	39	21.0*	41.104	N	20.275	E	10	G		0.6	11	ALBANIA. MD 2.5 (PDG).
11	05	20	15.9	13.421	N	89.862	W	33	N	4.1	1.0	37	EL SALVADOR. MD 4.6 (UNM).
11	05	48	43.7&	14.816	N	61.066	W	4				4	WINDWARD ISLANDS. <TRN>. MD 2.8 (TRN).
11	05	57	57.8	7.031	N	34.535	W	10	G	4.8 4.5	1.1	77	CENTRAL MID-ATLANTIC RIDGE
11	06	04	48.4*	36.714	N	22.413	E	77	*	3.9	0.5	12	SOUTHERN GREECE
11	06	07	12.3&	34.849	N	116.347	W	6				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
11	06	58	45.5*	12.401	N	143.893	E	33	N	4.3	1.2	17	SOUTH OF MARIANA ISLANDS
11	07	14	42.7&	8.770	S	117.100	E	174				4	SUMBAWA REGION, INDONESIA. <DJA>.
11	07	56	39.4*	16.106	N	97.197	W	10	G		0.1	5	OAXACA, MEXICO. MD 3.9 (UNM).
11	08	21	36.9&	32.085	S	71.826	W	22				8	NEAR COAST OF CENTRAL CHILE. <GUC>.
11	08	22	43.6&	32.102	S	71.785	W	21				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
11	08	24	07.6&	32.146	S	71.776	W	14				12	NEAR COAST OF CENTRAL CHILE. <GUC>.
11	08	42	35.4&	44.060	N	8.770	E	2				20	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.3 (LDG).
11	10	00	58.6	41.636	N	141.939	E	70	D	4.1	0.6	17	HOKKAIDO, JAPAN REGION
11	10	21	57.8*	38.813	N	66.617	E	33	N	4.2	1.4	21	SOUTHEASTERN UZBEKISTAN
11	11	07	43.3&	39.120	S	176.720	E	23				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).
11	12	24	19.1&	32.294	S	71.660	W	6				9	NEAR COAST OF CENTRAL CHILE. <GUC>.
11	13	01	42.2*	47.289	N	10.604	E	5	G		1.3	7	AUSTRIA. ML 2.1 (VIE).
11	13	18	06.2*	20.739	S	68.555	E	10	G	4.8 4.5	0.9	19	MID-INDIAN RIDGE
11	13	44	24.6?	21.02	S	174.34	W	33	N	4.7	1.4	16	TONGA ISLANDS
11	13	46	02.4*	11.527	S	118.131	E	33	N	4.4	1.0	6	SOUTH OF SUMBAWA, INDONESIA
11	14	06	38.7&	44.400	N	7.500	E	2				6	NORTHERN ITALY. <LDG>. ML 2.3 (LDG).
11	14	41	25.6&	40.744	N	30.266	E	22		5.5 5.5		472	TURKEY. <ISK>. Mw 5.7 (GS), 5.7 (HRV), 5.7 (CSEM). MD 5.7 (ISK). ML 5.2 (THE). One person killed, one died of a heart attack and 156 injured at Sakarya. Thirteen people injured at Kocaeli and two injured at Golcuk. Felt at Istanbul and Sapanca. Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=3.39, Plg=32, Azm=257; (N) Val=0.24, Plg=45, Azm=26; (P) Val=-3.63, Plg=27, Azm=148; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=290, Dip=45, Slip=176; NP2: Strike=23, Dip=87, Slip=45. Centroid, Moment Tensor (HRV): Centroid origin time 14:41:30.5; Lat 40.95 N; Lon 30.10 E; Dep 15.2 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.95, Plg=24, Azm=262; (N) Val=1.22, Plg=49, Azm=23; (P) Val=-4.17, Plg=31, Azm=156; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=301, Dip=50, Slip=-175; NP2: Strike=208, Dip=86, Slip=-41. Moment Tensor (CSEM): Dep 10; Principal axes: (T) Plg=20, Azm=258; (N) Plg=68, Azm=49; (P) Plg=10, Azm=165; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=300, Dip=69, Slip=173; NP2: Strike=33, Dip=83, Slip=21.
11	14	43	41.6&	34.301	S	72.047	W	46				7	NEAR COAST OF CENTRAL CHILE. <GUC>.
11	14	49	19.5&	40.824	N	30.229	E	9				6	TURKEY. <ISK>. MD 3.3 (ISK).
11	14	55	24.3*	40.784	N	30.448	E	10	G	4.1	1.3	30	TURKEY
11	15	25	58.9&	23.130	N	120.500	E	13				5	TAIWAN. <TAP>. ML 4.5 (TAP). Felt (IV JMA) in the epicentral area and (II JMA) at Chia-i.
11	15	29	42.4&	35.124	N	118.658	W	10				27	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
11	16	13	57.1?	14.70	S	167.55	E	98	?		1.2	8	VANUATU ISLANDS
11	16	23	17.1&	33.140	S	70.296	W	3				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
11	16	35	21.0&	44.421	N	7.215	E	15				11	NORTHERN ITALY. <GEN>. ML 2.5 (GEN).
11	16	59	25.7*	11.111	S	119.780	E	33	N	3.6	0.1	5	SOUTH OF SUMBA, INDONESIA
11	17	11	18.0&	59.341	N	153.568	W	114				16	SOUTHERN ALASKA. <AEIC>.
11	17	22	39.0&	42.128	N	20.152	E	15				13	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).
11	18	05	43.5	1.276	N	100.322	E	211	D	6.0	0.9	508	NORTHERN SUMATERA, INDONESIA. Mw 6.2 (HRV), 6.1 (GS). Me 5.9 (GS). Broadband Source Parameters (GS): Dep 211; NP1: Strike=188, Dip=72, Slip=50; NP2: Strike=78, Dip=43, Slip=153; Radiated energy 1.7*10**13 Nm. Moment Tensor (GS): Dep 212; Principal axes (scale 10**18 Nm): (T) Val=1.88, Plg=39, Azm=62; (N) Val=-0.13, Plg=43, Azm=201; (P) Val=-1.76, Plg=22, Azm=313; Best double couple: Mo=1.8*10**18 Nm; NP1: Strike=91, Dip=45, Slip=165; NP2: Strike=191, Dip=80, Slip=46.

Centroid, Moment Tensor (HRV): Centroid origin time 18:05:46.5; Lat 1.15 N; Lon 100.03 E; Dep 217.6; Half-duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val=1.97, Plg=37, Azm=62; (N) Val=-0.18, Plg=43, Azm=198; (P) Val=-1.79, Plg=24, Azm=312; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=92, Dip=44, Slip=168; NP2: Strike=190, Dip=82, Slip=46.

11	18	08	33.4?	51.58	N	175.27	E	33	N	4.8	1.2	16	RAT ISLANDS, ALEUTIAN ISLANDS
11	19	48	54.3	52.140	N	173.385	W	54	D	4.3	1.0	25	ANDREANOF ISLANDS, ALEUTIAN IS.
11	20	13	52.1&	34.667	S	72.469	W	19				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
11	21	40	10.2*	58.068	N	10.256	E	10	G		1.2	5	SWEDEN
11	22	15	04.2&	32.666	S	71.692	W	32				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
11	22	45	52.5&	32.678	S	71.488	W	24				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
11	22	54	36.3&	34.859	N	116.424	W	2				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
11	23	26	53.1&	32.721	S	71.686	W	29				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
11	23	33	42.8	15.713	N	92.974	W	112		4.5	1.0	75	MEXICO-GUATEMALA BORDER REGION. MD 4.5 (UNM).
12	00	30	16.8*	7.950	S	75.640	W	113	?	3.9	1.0	14	NORTHERN PERU
12	01	09	50.5	23.382	N	120.543	E	33	N	4.3	1.1	24	TAIWAN. Felt (V JMA) at Chia-i. Felt in much of western Taiwan. Also felt (I JMA) on Peng-hu Tao.
12	02	00	14.4&	16.079	N	97.602	W	16				18	OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
12	02	43	06.2*	3.639	S	133.706	E	33	N	4.1	1.0	13	IRIAN JAYA REGION, INDONESIA
12	03	28	07.8&	35.675	N	118.106	W	12				34	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
12	04	42	45.8*	11.573	S	166.509	E	33	N	4.9	0.9	21	SANTA CRUZ ISLANDS. Mw 5.0 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 04:42:47.8; Lat 11.60 S; Lon 166.34 E; Dep 47.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.24, Plg=69, Azm=57; (N) Val=-0.22, Plg=13, Azm=289; (P) Val=-3.02, Plg=16, Azm=195; Best double couple: Mo=3.1*10**16 Nm; NP1: Strike=266, Dip=31, Slip=63; NP2: Strike=116, Dip=62, Slip=105.

12	04	50	50.2&	36.530	N	3.140	W	0	G			10	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
12	05	14	05.1&	31.330	S	71.789	W	15				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
12	05	22	12.0*	53.741	N	163.634	W	33	N	4.6	0.9	23	UNIMAK ISLAND REGION
12	05	41	22.9&	34.048	N	117.265	W	13				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt at Moreno Valley and San Bernardino.
12	07	41	19.5*	17.694	S	167.449	E	10	G	4.3	1.1	9	VANUATU ISLANDS
12	07	44	19.7&	33.418	S	71.564	W	61				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.7 (GUC).
12	07	58	01.5&	12.841	S	130.926	E	10	G	3.9	0.9	7	NORTHERN TERRITORY, AUSTRALIA. Felt at Kakadu National Park.
12	08	26	34.7&	40.639	N	29.146	E	22				5	TURKEY. <ISK>. MD 2.6 (ISK).
12	08	42	09.5*	9.702	S	108.669	E	33	N	4.3	1.4	9	SOUTH OF JAWA, INDONESIA
12	09	15	14.9&	40.852	N	28.688	E	5				6	TURKEY. <ISK>. MD 2.9 (ISK).
12	09	19	07.6&	46.299	N	4.494	W	10	G		0.3	11	BAY OF BISCAY. ML 2.6 (LDG).
12	09	31	39.5	46.323	N	5.013	W	10	G		0.6	14	NORTH ATLANTIC OCEAN. ML 3.6 (LDG).
12	09	48	07.4?	14.12	N	91.85	W	33	N	3.6	0.6	13	GUATEMALA
12	10	37	45.1*	34.338	S	178.992	E	200	G	4.2	0.9	17	SOUTH OF KERMADEC ISLANDS
12	10	43	45.2&	62.408	N	151.182	W	98				14	CENTRAL ALASKA. <AEIC>.
12	11	13	24.5&	32.296	S	70.355	W	100				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
12	11	16	31.8&	61.683	N	151.631	W	110				8	SOUTHERN ALASKA. <AEIC>.
12	11	32	02.3	17.428	S	179.166	W	550	G	4.3	0.7	36	FIJI ISLANDS REGION
12	11	44	20.3	5.251	S	103.232	E	46	*	4.6	0.9	25	SOUTHERN SUMATERA, INDONESIA
12	12	48	19.9	7.709	S	108.043	E	80	*	5.0	1.2	47	JAWA, INDONESIA
12	14	07	04.6?	0.97	N	100.00	E	140	?		0.7	7	NORTHERN SUMATERA, INDONESIA
12	14	29	24.4	28.395	N	105.035	E	33	N	4.3	1.0	18	SICHUAN, CHINA. ML 4.1 (BJI).
12	14	51	32.7	51.197	N	175.348	W	33	N	4.4	0.9	38	ANDREANOF ISLANDS, ALEUTIAN IS.
12	14	52	15.0&	44.591	N	7.003	E	11				8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
12	15	07	50.7&	32.487	N	115.413	W	6	G			20	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS). MD 3.4 (ECX). Felt at Mexicali and in the Mexicali Valley, Baja California.
12	15	13	57.2&	47.000	N	6.900	E	2				5	FRANCE. <LDG>. ML 2.3 (LDG).
12	15	50	54.0&	38.130	N	118.410	W	11				25	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.5 (GS).
12	16	29	25.6	6.283	S	154.384	E	64		5.0	1.0	69	SOLOMON ISLANDS
12	16	35	34.4&	33.955	S	70.676	W	79				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
12	16	49	13.6&	32.722	S	71.835	W	34				13	NEAR COAST OF CENTRAL CHILE. <GUC>.
12	16	57	19.5	40.758	N	31.161	E	10	G	6.3 7.5	1.1	484	TURKEY. Mw 7.3 (OBN), 7.2 (HRV), 7.1 (GS), 7.0 (CSEM). Me 7.0 (GS). ML 6.6 (THE). At least 894 people killed and 4,948 injured, mostly in the Bolu-Duzce area. Casualties occurred as far as Eskisehir, Yalova and Zonguldak. Extensive damage occurred in the Bolu-Duzce area. Landslides in the Bolu Pass blocked the Ankara-Istanbul highway. Felt as far as Ankara, Istanbul and Izmir. Also felt (III) at Chisinau, Moldova and (III) at Sevastopol and Simferopol, Ukraine.

Broadband Source Parameters (GS): Dep 11; NP1: Strike=178, Dip=90, Slip=-60; NP2: Strike=268, Dip=30, Slip=180; Radiated energy 7.4*10**14 Nm. Two events about 2 seconds apart. Depths 11 and 14 km, respectively.

Moment Tensor (GS): Dep 19; Principal axes (scale 10**19 Nm): (T) Val=5.80, Plg=14, Azm=225; (N) Val=-0.37, Plg=73, Azm=7; (P) Val=-5.43, Plg=10, Azm=133; Best double couple: Mo=5.6*10**19 Nm; NP1: Strike=269, Dip=73, Slip=177; NP2: Strike=359, Dip=88, Slip=17.

Centroid, Moment Tensor (HRV): Centroid origin time 16:57:27.6; Lat 40.93 N; Lon 31.25 E; Dep 18.0 Bdy; Half-duration 10.5 sec; Principal axes (scale 10**19 Nm): (T) Val=6.88, Plg=17, Azm=224; (N) Val=-0.46, Plg=52, Azm=337; (P) Val=-6.42, Plg=33, Azm=123; Best double couple: Mo=6.7*10**19 Nm; NP1: Strike=268, Dip=54, Slip=-167; NP2: Strike=170, Dip=80, Slip=-36.

Moment Tensor (CSEM): Dep 15; Principal axes: (T) Plg=18, Azm=239; (N) Plg=71, Azm=45; (P) Plg=4, Azm=148; Best double couple: Mo=4.1*10**19 Nm; NP1: Strike=282, Dip=74, Slip=170; NP2: Strike=15, Dip=80, Slip=16.

												Moment Tensor (OBN); Principal axes: (T) Plg=22, Azm=219; (N) Plg=53, Azm=342; (P) Plg=28, Azm=117; Best double couple: Mo=9.1*10**19 Nm; NP1: Strike=260, Dip=53, Slip=-175; NP2: Strike=167, Dip=86, Slip=-37.
12	17	06	10.5*	40.743	N	31.355	E	10	G		1.0	12 TURKEY
12	17	09	18.3%	40.760	N	31.598	E	10	G		1.3	9 TURKEY
12	17	13	42.1*	40.868	N	31.101	E	10	G	4.3	1.2	16 TURKEY
12	17	16	50.1	40.755	N	31.022	E	10	G	4.8	1.0	85 TURKEY
12	17	17	56.7	40.785	N	31.120	E	10	G	5.5	1.1	174 TURKEY
12	17	22	54.3	40.793	N	31.116	E	10	G	4.6	0.9	49 TURKEY
12	17	26	14.6	40.697	N	31.515	E	10	G	4.5	1.0	60 TURKEY
12	17	29	31.5	40.742	N	31.471	E	10	G	5.2	1.3	121 TURKEY
12	17	46	56.8	40.732	N	30.953	E	10	G	4.5	1.2	78 TURKEY
12	17	52	25.5	40.759	N	31.093	E	10	G		0.8	11 TURKEY
12	17	54	24.0*	40.690	N	31.592	E	10	G		1.3	10 TURKEY
12	17	57	03.1*	40.877	N	31.720	E	10	G	4.1	1.1	15 TURKEY
12	18	01	44.7&	32.363	N	115.303	W	6	G			20 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.6 (PAS). MD 3.6 (ECX). Felt in the Mexicali Valley, Baja California.
12	18	07	51.9*	40.762	N	31.302	E	10	G	4.0	0.9	9 TURKEY
12	18	08	14.0&	32.420	N	115.310	W	6	G			18 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.6 (PAS). MD 3.8 (ECX). Felt in the Mexicali Valley, Baja California.
12	18	10	11.7*	40.851	N	31.607	E	10	G	4.1	1.2	23 TURKEY
12	18	14	31.1	40.738	N	31.339	E	10	G	4.8	1.0	107 TURKEY
12	18	23	52.0	40.770	N	31.037	E	10	G	4.2	1.2	24 TURKEY
12	18	24	15.6&	60.071	N	152.660	W	95				5 SOUTHERN ALASKA. <AEIC>.
12	18	24	31.9%	40.501	N	31.508	E	10	G		1.3	9 TURKEY
12	18	25	11.8&	32.369	N	115.310	W	6	G			19 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.3 (PAS). MD 3.5 (ECX). Felt in the Mexicali Valley, Baja California.
12	18	59	12.4?	40.73	N	31.04	E	10	G	3.8	0.6	9 TURKEY
12	19	00	20.0&	33.960	S	70.140	W	8				10 CHILE-ARGENTINA BORDER REGION. <GUC>.
12	19	05	49.8*	40.576	N	31.608	E	10	G	4.1	1.1	7 TURKEY
12	19	06	30.1	40.781	N	31.179	E	10	G	4.1	1.2	33 TURKEY
12	19	09	31.8?	40.91	N	31.61	E	10	G	3.8	0.4	7 TURKEY
12	19	14	45.5*	40.670	N	31.167	E	10	G	3.9	1.3	8 TURKEY
12	19	15	34.0	40.770	N	31.442	E	10	G	4.4	1.1	50 TURKEY
12	19	25	38.6&	44.238	N	7.903	E	11				7 NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
12	20	04	44.9	40.758	N	31.219	E	10	G	4.5	1.2	74 TURKEY
12	20	41	45.1&	38.430	N	0.830	W	5				46 SPAIN. <MDD>. ML 3.7 (LDG). mbLg 3.4 (MDD). Felt (IV) at Aspe, Elda, Monovar, Novelda, Petrer and Sax; (III) at Agost, Castalla, Elche, La Romana, Monforte del Cid and Tibi; (II) at Alguena, Alicante, Salinas and San Vicente del Raspeig; (I) at Culebron, Gandia, Hondon de las Nieves and Hondon de los Frailes.
12	20	44	35.6*	40.803	N	31.270	E	10	G	4.0	1.2	14 TURKEY
12	20	51	39.5*	15.373	N	91.812	W	207		4.4	1.2	42 MEXICO-GUATEMALA BORDER REGION. MD 4.5 (UNM).
12	20	53	53.2	40.724	N	31.596	E	10	G	4.1	1.2	38 TURKEY
12	20	54	23.1%	40.971	N	31.386	E	10	G		0.6	8 TURKEY
12	21	02	07.3&	44.594	N	6.985	E	10				34 FRANCE. <GEN>. ML 2.7 (GEN), 2.4 (LDG), 2.4 (STR).
12	21	02	34.8&	44.560	N	7.060	E	2	G			6 NORTHERN ITALY. <STR>. ML 2.4 (STR).
12	21	07	18.2&	44.591	N	6.961	E	8				7 FRANCE. <GEN>. ML 2.1 (GEN).
12	21	19	45.3&	44.584	N	6.984	E	9				5 FRANCE. <GEN>. ML 2.3 (GEN).
12	21	25	58.4&	38.380	N	0.800	W	2				7 SPAIN. <MDD>. mbLg 2.1 (MDD). Felt (II) at Aspe and Monovar.
12	21	29	03.7&	44.586	N	6.963	E	7				9 FRANCE. <GEN>. ML 2.2 (GEN).
12	21	31	24.9&	44.587	N	6.995	E	11				5 FRANCE. <GEN>. ML 1.9 (GEN).
12	21	31	56.7&	44.588	N	6.982	E	9				10 FRANCE. <GEN>. ML 2.2 (GEN).
12	21	38	32.7	40.809	N	31.105	E	10	G	4.4	0.9	68 TURKEY
12	21	42	25.5*	40.831	N	31.279	E	10	G	4.2	0.9	13 TURKEY
12	21	44	34.2&	44.588	N	6.973	E	5				18 FRANCE. <GEN>. ML 2.4 (GEN), 2.0 (LDG).
12	21	51	17.3*	40.715	N	31.593	E	10	G	3.4	1.0	9 TURKEY
12	22	01	12.1	40.794	N	31.394	E	10	G	4.0	0.9	36 TURKEY
12	22	07	10.0&	40.650	N	124.890	W	17				4 NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.9 (GM). ML 3.0 (BRK).
12	22	20	53.5	40.757	N	31.339	E	10	G	4.4	1.0	74 TURKEY
12	22	38	02.9*	40.648	N	30.994	E	10	G	3.6	1.4	15 TURKEY
12	22	43	20.2*	40.807	N	31.054	E	10	G	3.5	0.6	9 TURKEY
12	22	49	29.8	40.684	N	30.871	E	10	G	4.1	1.1	23 TURKEY
12	22	52	15.2	52.218	N	159.542	E	54	*	4.4	1.0	28 OFF EAST COAST OF KAMCHATKA
12	22	52	15.8&	38.400	N	0.810	W	7				19 SPAIN. <MDD>. mbLg 2.5 (MDD). Felt (III) at Aspe and Monovar; (II) at Elda and Novelda.
12	23	11	02.4?	40.92	N	31.84	E	10	G		0.7	10 TURKEY
13	00	14	48.4	40.820	N	31.496	E	10	G	4.4	1.2	51 TURKEY
13	00	43	42.6&	10.108	N	63.918	W	5				9 NEAR COAST OF VENEZUELA. <TRN>. MD 4.3 (TRN).
13	00	54	55.3	40.768	N	31.050	E	10	G	4.8 4.4	1.1	130 TURKEY
13	01	03	03.9*	40.857	N	31.291	E	10	G		0.5	8 TURKEY
13	01	13	58.2	64.043	N	148.936	W	10	G		0.8	7 CENTRAL ALASKA. ML 2.9 (PMR).
13	01	22	25.1	1.603	S	126.507	E	33	N	4.3	1.1	16 SOUTHERN MOLUCCA SEA
13	01	28	33.9%	33.379	S	116.760	E	10	G		1.0	5 WESTERN AUSTRALIA
13	01	57	23.1*	40.744	N	31.304	E	10	G		0.5	8 TURKEY
13	03	11	10.3&	15.538	N	60.658	W	30				8 LEEWARD ISLANDS. <FDF>. MD 2.7 (FDF).
13	03	40	07.9*	3.267	S	134.039	E	33	N	4.2	1.4	15 IRIAN JAYA REGION, INDONESIA
13	03	57	32.8	40.733	N	31.505	E	10	G	4.3	1.0	28 TURKEY
13	04	02	40.7*	2.695	N	79.710	W	33	N	4.3	1.0	17 SOUTH OF PANAMA
13	04	10	20.8*	40.627	N	31.508	E	10	G	4.0	1.1	12 TURKEY
13	04	32	27.5	12.935	N	123.892	E	110	D	4.8	0.8	33 LUZON, PHILIPPINE ISLANDS
13	05	28	32.2	11.784	N	86.858	W	33	N	4.8	1.1	79 NEAR COAST OF NICARAGUA
13	06	01	34.4&	15.486	N	60.831	W	63				7 LEEWARD ISLANDS. <FDF>. MD 2.6 (FDF).
13	06	03	53.4*	23.831	S	179.039	E	550	G	4.5	0.9	15 SOUTH OF FIJI ISLANDS
13	06	09	12.3&	34.680	N	116.304	W	6				28 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	06	33	36.9&	34.638	N	116.288	W	3				26 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	06	37	22.6&	40.816	N	31.294	E	5				5 TURKEY. <ISK>. MD 3.2 (ISK).
13	06	38	19.7&	40.722	N	31.201	E	0				5 TURKEY. <ISK>. MD 3.3 (ISK).
13	06	44	37.7&	32.139	S	70.268	W	119				14 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
13	08	14	37.2	40.776	N	31.047	E	10	G	4.0	1.2	29 TURKEY

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13  08 19 46.0& 16.284 N   98.493 W   24                          8  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
13  08 33 43.3  40.781 N   31.374 E   10 G  4.2       0.5      13  TURKEY
13  08 36 14.5? 40.65  N   31.91  E   10 G  3.5       1.0       7  TURKEY
13  08 41 53.9& 33.713 S   70.785 W   71                         11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
13  09 57 00.8   5.664 S  130.465 E   33 N  5.0 4.4   1.1      62  BANDA SEA. Mw 5.4 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     09:57:03.6; Lat 5.46 S; Lon 130.09 E; Dep 20.7; Half-
                                                                     duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.13, Plg=45, Azm=281; (N) Val=0.27, Plg=42, Azm=73;
                                                                     (P) Val=-1.40, Plg=14, Azm=176; Best double couple:
                                                                     Mo=1.3*10**17 Nm; NP1: Strike=307, Dip=48, Slip=154; NP2:
                                                                     Strike=55, Dip=71, Slip=45.
13  09 58 21.1& 11.554 N   61.201 W   77                          6  WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).
13  09 59 23.0  40.784 N   30.962 E   10 G  4.1       0.8      23  TURKEY
13  10 10 34.0  40.762 N   31.530 E   10 G  4.0       0.9      23  TURKEY
13  10 24 17.1  25.348 N  123.896 E   33 N  5.0       0.8      75  NORTHEAST OF TAIWAN
13  11 06 42.5? 41.03  N   30.96  E   10 G              1.0       9  TURKEY
13  12 04 41.3& 44.593 N    6.948 E   10                          5  FRANCE. <GEN>. ML 2.2 (GEN).
13  12 18 06.3* 23.956 N  120.811 E   33 N              0.5      10  TAIWAN. Felt (IV JMA) in the epicentral area and (III JMA)
                                                                     at Tai-chung.
13  12 39 20.7*  3.100 S  130.611 E   33 N  4.2         1.1      17  SERAM, INDONESIA
13  14 03 16.0  52.529 N  175.930 W  158     4.5       0.8      52  ANDREANOF ISLANDS, ALEUTIAN IS.
13  14 19 49.0& 34.160 N  116.820 W    6                         28  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
13  15 16 35.1& 40.708 N   29.153 E    6                          8  TURKEY. <ISK>. MD 3.3 (ISK).
13  15 21 02.9& 16.982 N   98.401 W   13                          5  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
13  15 35 58.3& 40.842 N   31.373 E    0                         13  TURKEY. <ISK>. MD 3.4 (ISK).
13  16 04 36.9*  7.169 S  129.805 E   33 N  4.4         0.9      17  BANDA SEA
13  16 11 18.7* 46.283 S   34.228 E   10 G  4.4         1.2      11  PRINCE EDWARD ISLANDS REGION
13  16 43 09.3*  3.433 S  134.488 E   33 N              0.9       9  IRIAN JAYA REGION, INDONESIA
13  17 00 04.3& 36.680 S  177.410 E  338     4.1                37  OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
13  17 03 24.5  11.025 S  112.394 E   33 N  4.1         0.7      18  SOUTH OF JAWA, INDONESIA
13  17 43 20.8& 19.400 N   98.899 W   17                          9  CENTRAL MEXICO. <UNM>. MD 3.4 (UNM).
13  18 16 49.9? 40.81  N   31.77  E   10 G              0.9       8  TURKEY
13  18 31 12.8& 16.472 N   99.644 W    5                          8  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
13  18 43 42.4& 40.850 N   31.498 E    0     4.0                 42  TURKEY. <ISK>. MD 3.9 (ISK).
13  19 19 53.6& 44.000 N    6.300 E    2                          5  FRANCE. <LDG>. ML 2.0 (LDG).
13  19 21 11.0& 41.420 N  112.880 W    7                         12  UTAH. <SLC-P>. ML 3.0 (SLC).
13  19 25 46.3   7.230 N   76.127 W   85 *  4.2         1.0      21  NORTHERN COLOMBIA
13  19 31 12.2  53.357 N  171.423 E   33 N  5.5 5.5    0.9     352  NEAR ISLANDS, ALEUTIAN ISLANDS. Mw 5.9 (GS), 5.9 (HRV).
                                                                    Moment Tensor (GS): Dep 28; Principal axes (scale 10**17
                                                                     Nm): (T) Val=7.62, Plg=21, Azm=98; (N) Val=-0.04, Plg=68,
                                                                     Azm=264; (P) Val=-7.58, Plg=5, Azm=6; Best double couple:
                                                                     Mo=7.6*10**17 Nm; NP1: Strike=140, Dip=72, Slip=168; NP2:
                                                                     Strike=234, Dip=79, Slip=19.
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     19:31:13.9; Lat 53.49 N; Lon 171.29 E; Dep 29.6; Half-
                                                                     duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=8.33, Plg=19, Azm=76; (N) Val=-0.80, Plg=62, Azm=208;
                                                                     (P) Val=-7.54, Plg=19, Azm=339; Best double couple:
                                                                     Mo=7.9*10**17 Nm; NP1: Strike=118, Dip=62, Slip=180; NP2:
                                                                     Strike=208, Dip=90, Slip=28.
13  19 47 02.1  24.024 N  122.599 E   33 N  4.3         1.0      24  TAIWAN REGION
13  19 53 54.3  24.013 N  122.601 E   33 N  5.0         1.0      46  TAIWAN REGION
13  20 21 27.4   7.208 S  129.250 E   33 N  4.8         0.9      23  BANDA SEA
13  20 37 26.6& 36.567 N  121.157 W    3                         10  CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
13  20 40 51.3* 40.847 N   30.900 E   10 G              0.9      13  TURKEY
13  20 43 43.8* 25.297 N  123.908 E   33 N  4.2         0.9       8  NORTHEAST OF TAIWAN
13  20 44 50.1& 33.400 S   71.666 W   32                         14  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
13  21 19 40.0& 32.022 S   70.144 W   93                         10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
13  21 23 19.0& 41.430 N  112.880 W    8                         12  UTAH. <SLC-P>. ML 2.9 (SLC).
13  21 24 45.9  52.513 N  160.062 E   39 D  5.1 4.6    1.0     166  OFF EAST COAST OF KAMCHATKA. Mw 5.4 (HRV). Felt (III) at
                                                                     Petropavlovsk-Kamchatskiy.
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     21:24:48.3; Lat 51.85 N; Lon 160.20 E; Dep 35.7; Half-
                                                                     duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.17, Plg=58, Azm=0; (N) Val=0.01, Plg=25, Azm=223; (P)
                                                                     Val=-1.18, Plg=20, Azm=124; Best double couple:
                                                                     Mo=1.2*10**17 Nm; NP1: Strike=179, Dip=34, Slip=41; NP2:
                                                                     Strike=54, Dip=69, Slip=117.
13  21 33 17.1& 40.638 N   29.174 E    5                          7  TURKEY. <ISK>. MD 3.3 (ISK).
13  21 45 56.3& 10.724 N   61.659 W   30                          4  TRINIDAD. <TRN>.
13  21 52 54.7& 40.363 N   28.945 E   10                          6  TURKEY. <ISK>. MD 3.2 (ISK).
13  21 53 02.9* 52.696 N  159.805 E   58 *  4.2         1.4      18  OFF EAST COAST OF KAMCHATKA
13  21 57 16.5* 37.261 N  138.385 E   33 N  3.2         0.9      10  NEAR WEST COAST OF HONSHU, JAPAN. Felt (II JMA) in central
                                                                     Niigata Prefecture.
13  21 58 01.9& 44.487 N  112.663 W    4                         26  EASTERN IDAHO. <BUT-P>. ML 3.6 (BUT).
13  22 27 45.7& 17.929 N   66.951 W    7                          9  PUERTO RICO REGION. <MPR>. MD 4.1 (MPR).
13  22 27 46.0& 40.810 N   31.377 E    4                          6  TURKEY. <ISK>. MD 3.2 (ISK).
13  22 28 10.1& 60.509 N  153.016 W  148                          7  SOUTHERN ALASKA. <AEIC>.
13  22 32 40.8& 40.798 N   31.421 E    2                          9  TURKEY. <ISK>. MD 3.2 (ISK).
13  22 33 21.2* 19.833 S  175.406 W  150 G              1.1      15  TONGA ISLANDS
13  22 33 58.0& 44.470 N  112.650 W    5                         13  EASTERN IDAHO. <BUT-P>. ML 2.8 (BUT).
13  23 54 52.4& 19.388 N   98.899 W    1                          8  CENTRAL MEXICO. <UNM>. MD 2.7 (UNM).
14  00 02 15.8& 34.654 S   72.303 W   17                         13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
14  00 13 40.4* 40.865 N   31.115 E   10 G  3.6         1.2      15  TURKEY
14  00 55 00.0& 34.430 N  116.240 W    8                         33  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
14  01 02 35.0& 19.413 N   98.911 W    5                          8  CENTRAL MEXICO. <UNM>. MD 3.1 (UNM).
14  01 15 01.7& 14.708 N   60.348 W   36                         25  WINDWARD ISLANDS. <TRN>. MD 4.0 (TRN). Felt (II) on
                                                                     Martinique.
14  01 17 38.7& 38.518 N  122.306 W    0                         15  NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
14  02 11 11.0& 37.726 N   36.009 E    0                          5  TURKEY. <ISK>. MD 3.9 (ISK).
14  02 23 40.0& 31.851 S   70.023 W  132                         12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
14  02 24 44.0& 44.480 N  112.630 W    9                         14  EASTERN IDAHO. <BUT-P>. ML 3.0 (BUT).
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14	02	34	41.1&	37.750	N	2.150	W	20				7	SPAIN. <MDD>. mbLg 1.9 (MDD).
14	03	06	12.7&	38.110	N	1.320	W	7				7	SPAIN. <MDD>. mbLg 2.1 (MDD).
14	03	15	00.8	17.868	S	178.738	W	600	G	4.4	0.7	50	FIJI ISLANDS REGION
14	03	23	08.9&	40.780	N	31.303	E	0				5	TURKEY. <ISK>. MD 2.9 (ISK).
14	03	24	31.0&	40.663	N	29.184	E	3				6	TURKEY. <ISK>. MD 2.7 (ISK).
14	03	54	04.0&	49.170	N	6.840	E	1	G			6	GERMANY. <FBB>. ML 2.1 (FBB).
14	04	00	58.9&	40.719	N	31.303	E	8				8	TURKEY. <ISK>. MD 3.3 (ISK).
14	04	53	15.3&	30.924	S	71.891	W	10				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
14	04	55	58.2	45.032	N	123.485	W	5	G		0.5	18	WASHINGTON-OREGON BORDER REGION. MD 2.0 (SEA).
14	05	17	34.4&	40.630	N	29.185	E	17				7	TURKEY. <ISK>. MD 3.4 (ISK).
14	05	43	20.9&	40.655	N	29.189	E	3				8	TURKEY. <ISK>. MD 2.8 (ISK).
14	05	57	40.4&	16.180	N	98.870	W	15		4.2		34	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.4 (UNM).
14	06	04	08.0&	16.139	N	98.886	W	16		3.8		26	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
14	07	49	13.5*	81.483	N	4.713	W	10	G		1.0	9	NORTH OF SVALBARD
14	08	33	16.6&	34.083	S	70.407	W	1				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
14	09	05	58.9	45.540	N	26.244	E	136		4.6	1.1	140	ROMANIA. Felt at Bucharest. Also felt (III) at Chisinau, Moldova.
14	09	31	39.3&	44.592	N	6.988	E	9				19	FRANCE. <GEN>. ML 2.6 (GEN), 2.4 (LDG).
14	09	32	06.6&	44.583	N	6.903	E	10				5	FRANCE. <GEN>. ML 1.5 (GEN).
14	09	32	21.3&	44.593	N	6.949	E	9				4	FRANCE. <GEN>. ML 1.4 (GEN).
14	09	32	47.7&	44.595	N	6.966	E	9				4	FRANCE. <GEN>. ML 1.2 (GEN).
14	09	34	06.4&	44.590	N	6.980	E	11				9	FRANCE. <GEN>. ML 2.0 (GEN).
14	09	35	21.5&	44.594	N	7.005	E	11				20	NORTHERN ITALY. <GEN>. ML 2.6 (GEN), 2.2 (LDG).
14	09	35	55.4&	44.588	N	6.970	E	11				11	FRANCE. <GEN>. ML 2.2 (STR), 2.0 (GEN).
14	09	36	17.1&	44.587	N	6.974	E	10				5	FRANCE. <GEN>. ML 1.7 (GEN).
14	09	38	12.8&	44.581	N	6.992	E	10				5	FRANCE. <GEN>. ML 1.8 (GEN).
14	09	38	38.2&	44.587	N	6.984	E	10				6	FRANCE. <GEN>. ML 1.9 (GEN).
14	09	39	00.4&	44.585	N	6.982	E	10				10	FRANCE. <GEN>. ML 2.2 (GEN).
14	09	43	46.7&	44.588	N	6.995	E	10				19	FRANCE. <GEN>. ML 2.4 (GEN), 2.2 (LDG).
14	09	44	29.3&	44.584	N	6.963	E	10				5	FRANCE. <GEN>. ML 1.7 (GEN).
14	09	48	53.7&	44.597	N	7.005	E	9				19	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.3 (LDG).
14	10	02	29.8&	44.583	N	7.005	E	10				6	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
14	10	09	58.7&	44.383	N	7.395	E	10				7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
14	10	10	32.0&	44.604	N	6.932	E	10				4	FRANCE. <GEN>. ML 1.4 (GEN).
14	10	11	40.6&	44.574	N	6.984	E	16				9	FRANCE. <GEN>. ML 2.3 (GEN).
14	10	11	58.4&	44.596	N	6.967	E	10				4	FRANCE. <GEN>. ML 1.6 (GEN).
14	10	16	50.6&	44.348	N	7.416	E	24				4	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
14	10	19	27.9*	41.675	N	71.494	E	50	*	4.2	1.1	13	KYRGYZSTAN
14	10	20	36.8&	44.586	N	6.992	E	10				11	FRANCE. <GEN>. ML 2.1 (GEN).
14	10	22	02.6&	44.582	N	6.867	E	10				4	FRANCE. <GEN>. ML 1.5 (GEN).
14	10	34	51.5&	44.587	N	6.983	E	9				4	FRANCE. <GEN>. ML 1.8 (GEN).
14	10	42	14.8*	6.147	N	126.383	E	33	N	4.2	0.8	18	MINDANAO, PHILIPPINE ISLANDS
14	10	59	30.1&	44.586	N	6.963	E	8				10	FRANCE. <GEN>. ML 2.2 (GEN).
14	11	02	09.7*	5.167	S	152.370	E	52	D	4.7	1.0	23	NEW BRITAIN REGION, P.N.G.
14	11	25	06.8&	44.593	N	7.015	E	10				4	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
14	11	58	39.7*	11.692	S	117.751	E	33	N		1.3	5	SOUTH OF SUMBAWA, INDONESIA
14	12	33	40.6&	44.022	N	8.628	E	3				16	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.2 (LDG).
14	12	58	46.0&	33.175	S	70.334	W	98				15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
14	13	28	07.2&	38.527	N	122.298	W	0				16	NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
14	14	05	09.7&	34.011	S	71.731	W	33				10	NEAR COAST OF CENTRAL CHILE. <GUC>.
14	14	20	09.4&	34.836	N	116.405	W	6				62	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS), 4.4 (BRK). Felt at Apple Valley, Barstow, Big Bear City, Fort Irwin, Helendale, Hesperia, Lucerne Valley, Newberry Springs, Twentynine Palms, Victorville, Yucca Valley and Wrightwood.
14	14	37	15.3&	16.599	N	96.444	W	42				4	OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
14	15	29	32.7?	59.43	S	27.02	W	33	N	3.9	0.7	7	SOUTH SANDWICH ISLANDS REGION
14	15	51	37.7*	54.871	N	160.279	W	33	N		1.3	9	ALASKA PENINSULA
14	15	54	19.3	17.969	S	178.342	W	600	G	4.4	0.8	70	FIJI ISLANDS REGION
14	16	14	49.2&	44.588	N	6.985	E	11				5	FRANCE. <GEN>. ML 1.9 (GEN).
14	16	21	08.4&	44.595	N	6.994	E	10				6	FRANCE. <GEN>. ML 1.9 (GEN).
14	16	21	23.4&	44.588	N	6.968	E	9				14	FRANCE. <GEN>. ML 2.1 (GEN), 1.9 (LDG).
14	16	54	55.2&	32.101	S	70.985	W	66				11	CHILE-ARGENTINA BORDER REGION. <GUC>.
14	16	54	55.7&	44.591	N	6.994	E	10				18	FRANCE. <GEN>. ML 2.8 (GEN), 2.5 (LDG).
14	17	14	21.9*	1.453	S	77.672	W	176	?	4.2	1.2	21	ECUADOR
14	18	52	03.0&	34.490	N	116.260	W	3				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
14	19	05	25.1&	34.489	N	116.265	W	2				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
14	20	14	22.2&	44.584	N	6.973	E	10				9	FRANCE. <GEN>. ML 2.3 (GEN).
14	20	26	40.7*	36.777	S	179.445	E	33	N		1.3	18	OFF E. COAST OF N. ISLAND, N.Z. ML 4.5 (WEL).
14	20	39	32.8*	38.123	N	20.714	E	33	N	3.7	1.3	15	GREECE
14	20	59	28.8&	34.529	N	116.278	W	1				30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
14	21	12	07.8*	5.378	S	141.081	E	33	N	4.0	1.0	10	NEW GUINEA, PAPUA NEW GUINEA
14	21	22	41.4&	34.743	S	71.876	W	29				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
14	21	32	48.8	43.900	N	15.295	E	10	G		1.3	39	ADRIATIC SEA. ML 3.3 (ZAG), 3.1 (VIE), 2.8 (LJU).
14	22	25	59.7&	44.587	N	6.997	E	10				9	FRANCE. <GEN>. ML 2.2 (GEN).
14	22	47	19.5&	31.844	S	70.021	W	135				17	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
14	22	55	15.9*	40.736	N	31.559	E	10	G	4.1	1.2	16	TURKEY
15	00	11	11.0&	38.760	S	176.160	E	163				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
15	00	58	55.1&	33.962	S	70.103	W	13				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
15	01	23	56.6*	12.507	N	125.375	E	33	N	5.0	1.1	21	SAMAR, PHILIPPINE ISLANDS
15	01	34	35.8	38.304	N	142.309	E	51		5.7 5.2	0.7	389	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.7 (HRV), 5.6 (GS). Felt (III JMA) in central Fukushima, southern Iwate and much of Miyagi Prefectures. Felt in much of northern and eastern Honshu as far south as Chiba and Shizuoka Prefectures. Also felt (I JMA) in the Kushiro area, Hokkaido.

Moment Tensor (GS): Dep 36; Principal axes (scale 10**17 Nm): (T) Val=3.42, Plg=67, Azm=252; (N) Val=-0.30, Plg=17, Azm=26; (P) Val=-3.12, Plg=16, Azm=121; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=234, Dip=32, Slip=122; NP2: Strike=17, Dip=63, Slip=71.

Centroid, Moment Tensor (HRV): Centroid origin time 01:34:39.5; Lat 38.39 N; Lon 142.51 E; Dep 48.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)

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                                                                                                  Val=3.62, Plg=69, Azm=219; (N) Val=0.47, Plg=20, Azm=15;
                                                                                                  (P) Val=-4.08, Plg=8, Azm=108; Best double couple:
                                                                                                  Mo=3.8*10**17 Nm; NP1: Strike=219, Dip=41, Slip=121; NP2:
                                                                                                  Strike=1, Dip=56, Slip=66.
15  01 39 27.1  21.054 S  169.807 E   74 D  5.1          0.9   74  LOYALTY ISLANDS REGION
15  02 05 53.2? 41.83  N  125.80  W   10 G                0.4   20  OFF COAST OF NORTHERN CALIFORNIA
15  02 20 40.4* 24.943 S  178.283 W  394 ?  4.2          1.1   33  SOUTH OF FIJI ISLANDS
15  02 27 11.0  57.900 S   25.470 W   33 N  4.4          0.9   25  SOUTH SANDWICH ISLANDS REGION
15  04 01 44.1  38.082 S   72.317 W   65 D  4.8          0.9   75  CENTRAL CHILE. MD 4.9 (GUC). Felt (V) at Angol and Renaico;
                                                                   (IV) at Curacautin, Licanray, Melipueco, Mulchen, Temuco,
                                                                   Victoria and Villarrica; (III) at Cauquenes, Chillan,
                                                                   Concepcion, Los Angeles, Talca and Talcahuano.
15  04 22 38.2* 36.337 N   71.389 E   87 ?  4.5          1.0   15  AFGHANISTAN-TAJIKISTAN BORD REG.
15  04 51 06.7& 44.589 N    6.947 E    8                          9  FRANCE. <GEN>. ML 2.0 (GEN).
15  05 09 33.7* 19.059 S  169.498 E  246 *  4.0          1.2   16  VANUATU ISLANDS
15  05 24 54.4& 44.589 N    6.997 E   10                          6  FRANCE. <GEN>. ML 1.9 (GEN).
15  05 37 48.3  16.607 S   67.012 E   10 G                1.2   17  MID-INDIAN RIDGE
15  05 42 43.2   1.339 S   88.976 E   10 G  6.3 6.9       1.0  457  SOUTH INDIAN OCEAN. Mw 7.0 (HRV), 6.8 (GS), 6.7 (OBN). Me
                                                                   7.7 (GS). Felt in the Colombo area, Sri Lanka. Also felt
                                                                   (II) at Banda Aceh, Indonesia.
                                                                  Broadband Source Parameters (GS): Dep 22; NP1: Strike=16,
                                                                   Dip=81, Slip=0; NP2: Strike=106, Dip=90, Slip=-171;
                                                                   Radiated energy 7.0*10**15 Nm. Complex earthquake. A small
                                                                   event is followed by a larger one about 3 seconds later.
                                                                   Depth based on second event.
                                                                  Moment Tensor (GS): Dep 23; Principal axes (scale 10**19
                                                                   Nm): (T) Val=1.60, Plg=17, Azm=234; (N) Val=0.00, Plg=71,
                                                                   Azm=78; (P) Val=-1.60, Plg=7, Azm=326; Best double couple:
                                                                   Mo=1.6*10**19 Nm; NP1: Strike=11, Dip=73, Slip=7; NP2:
                                                                   Strike=279, Dip=83, Slip=163.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   05:42:52.0; Lat 1.21 S; Lon 88.89 E; Dep 15.0 Bdy; Half-
                                                                   duration 7.4 sec; Principal axes (scale 10**19 Nm): (T)
                                                                   Val=3.21, Plg=2, Azm=238; (N) Val=0.17, Plg=73, Azm=140;
                                                                   (P) Val=-3.38, Plg=17, Azm=329; Best double couple:
                                                                   Mo=3.3*10**19 Nm; NP1: Strike=12, Dip=76, Slip=-11; NP2:
                                                                   Strike=105, Dip=80, Slip=-166.
                                                                  Scalar Moment (OBN): Mo=1.2*10**19 Nm.
15  05 57 00.6& 44.590 N    6.619 E    1                          4  FRANCE. <GEN>. ML 1.7 (GEN).
15  06 19 15.6*  7.563 S  128.055 E  152 ?  4.7          1.2   11  BANDA SEA
15  06 33 19.7& 35.154 S   71.105 W  100                         10  CENTRAL CHILE. <GUC>.
15  07 06 21.6& 39.250 S  174.790 E  235                         14  NORTH ISLAND, NEW ZEALAND. <WEL>.
15  07 06 45.3& 34.708 N  116.304 W    4                          7  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
15  07 25 23.9  23.418 N  120.654 E   33 N  4.7          0.9   32  TAIWAN. Felt (V JMA) at Chia-i. Felt in west-central Taiwan.
15  07 51 44.0&  5.200 N   73.000 W   10                          7  COLOMBIA. <RSNC>. ML 3.8 (RSNC).
15  08 34 08.1& 16.046 N   98.186 W    6                          9  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
15  10 56 09.2* 23.412 N  120.631 E   33 N  4.1          1.1    7  TAIWAN. Felt (IV JMA) at Chia-i.
15  11 02 24.7& 34.420 N  116.183 W    6                         29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
15  11 36 34.6& 40.602 N   31.247 E    0                          8  TURKEY. <ISK>. MD 3.3 (ISK).
15  12 18 27.3   8.509 N  126.843 E   33 N  5.1 4.4       1.1   82  MINDANAO, PHILIPPINE ISLANDS
15  14 33 59.9& 16.229 N   98.125 W    5                          6  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
15  16 26 58.6* 40.771 N   30.851 E   10 G  4.0          1.3   16  TURKEY
15  17 41 08.6   2.414 N  126.135 E   91 *  4.7          1.0   40  NORTHERN MOLUCCA SEA
15  18 10 52.2* 23.445 N  120.871 E   33 N  4.0          1.3    9  TAIWAN. Felt (IV JMA) at Chia-i. Felt in west-central
                                                                   Taiwan. Also felt (I JMA) on Peng-hu Tao.
15  18 36 59.6& 46.800 N    1.300 E    8                         26  FRANCE. <LDG>. ML 3.2 (LDG), 2.8 (STR).
15  19 05 04.3  36.870 N   69.929 E   33 N  4.8 4.0       0.9   78  HINDU KUSH REGION, AFGHANISTAN
15  20 02 59.1* 24.834 S  175.822 W   33 N  4.7          0.8   25  SOUTH OF TONGA ISLANDS
15  20 29 50.2* 22.726 S  176.589 W   33 N  4.8          1.1   17  SOUTH OF FIJI ISLANDS
15  21 22 27.0* 22.526 S   66.179 W  268 *  3.9          1.5   10  JUJUY PROVINCE, ARGENTINA
15  22 30 39.2  83.026 N    6.004 W   10 G  4.4          1.3   25  NORTH OF SVALBARD
15  23 50 44.0& 47.790 N  114.270 W    5                          8  MONTANA. <BUT-P>. ML 2.9 (BUT). Felt in the epicentral area.
16  00 12 56.8? 13.78  N  146.71  E   33 N                1.1   10  SOUTH OF MARIANA ISLANDS
16  00 50 14.0& 62.584 N  149.869 W   47                         10  CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
16  01 15 50.8   8.585 S  125.036 E   33 N  4.7          1.4   27  TIMOR REGION, INDONESIA
16  01 30 48.8? 22.54  S  175.15  W   33 N  4.2          0.9    8  TONGA ISLANDS REGION
16  01 31 04.0& 38.130 N  118.400 W   11                         19  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML
                                                                   3.2 (GS).
16  04 20 02.3& 37.370 S  177.660 E  100                         15  OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
16  04 36 42.9* 21.305 S   68.219 W  128 ?  3.8          0.4    6  CHILE-BOLIVIA BORDER REGION
16  05 04 07.9& 45.700 N    5.100 E    2                         37  FRANCE. <LDG>. ML 2.8 (LDG), 2.7 (STR).
16  05 18 06.3* 23.353 N  120.806 E   33 N  4.3          1.5    6  TAIWAN. Felt (IV JMA) at Chia-i.
16  05 22 42.9& 33.925 S   70.080 W    8                          8  CHILE-ARGENTINA BORDER REGION. <GUC>.
16  05 41 59.2& 33.236 S   71.990 W   20                         13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
16  05 52 20.6& 34.813 N  116.430 W    5                         28  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
16  05 52 41.0& 34.549 N  116.306 W    2                          8  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
16  09 25 22.0& 33.567 S   73.008 W   27                         12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
16  09 33 30.0  41.487 N   19.432 E   10 G                1.3   45  ALBANIA. ML 3.9 (ROM), 3.6 (PDG).
16  10 36 44.7* 45.908 N  150.612 E  119 *  4.6          1.2   46  KURIL ISLANDS
16  10 50 54.6& 59.014 N  152.689 W   71                          7  SOUTHERN ALASKA. <AEIC>.
16  11 40 20.8?  9.27  S  108.61  W   10 G  4.1 4.1       1.0   19  CENTRAL EAST PACIFIC RISE
16  11 41 33.6  30.385 N   82.773 E   33 N  4.6          1.1   23  XIZANG
16  11 53 19.4& 55.259 N  151.762 W    0                          5  SOUTH OF ALASKA. <AEIC>. ML 3.3 (AEIC).
16  13 13 48.0& 33.369 S   71.018 W   71                         13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
16  13 34 23.6   8.797 S  157.185 E   33 N  5.3 5.1       1.1   66  SOLOMON ISLANDS. Mw 5.4 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   13:34:23.6; Lat 8.88 S; Lon 157.32 E; Dep 67.1; Half-
                                                                   duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=1.23, Plg=30, Azm=300; (N) Val=0.18, Plg=60, Azm=112;
                                                                   (P) Val=-1.41, Plg=3, Azm=208; Best double couple:
                                                                   Mo=1.3*10**17 Nm; NP1: Strike=340, Dip=67, Slip=160; NP2:
                                                                   Strike=78, Dip=72, Slip=24.
16  13 44 18.3* 55.823 S  125.134 W   10 G  4.8 5.5       1.1   19  SOUTHERN EAST PACIFIC RISE. Mw 6.1 (HRV).
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Centroid, Moment Tensor (HRV): Centroid origin time 13:44:23.3; Lat 55.82 S; Lon 124.35 W; Dep 15.0 Fix; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=1.42, Plg=10, Azm=330; (N) Val=-0.11, Plg=80, Azm=172; (P) Val=-1.31, Plg=4, Azm=61; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=106, Dip=81, Slip=4; NP2: Strike=15, Dip=86, Slip=171.

16	15	30	52.7&	34.436	S	70.124	W	5				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
16	15	32	19.3*	46.130	N	15.707	E	10	G		0.4	5	NORTHWESTERN BALKAN REGION. ML 2.7 (VIE).
16	15	43	40.0&	44.585	N	7.014	E	10				4	NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
16	15	44	05.2&	44.593	N	6.999	E	8				10	FRANCE. <GEN>. ML 2.3 (GEN).
16	16	06	01.1*	29.932	S	75.554	E	10	G	4.5	0.6	11	MID-INDIAN RIDGE
16	16	37	25.6?	16.69	N	120.56	E	33	N	4.3	1.3	8	LUZON, PHILIPPINE ISLANDS
16	16	44	55.4&	36.526	S	73.602	W	7				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC). Felt (IV) at Concepcion.
16	17	28	16.7	34.508	N	24.299	E	33	N	4.4	1.3	128	CRETE
16	17	40	07.3*	28.283	N	60.409	E	33	N		1.2	8	SOUTHERN IRAN
16	17	51	18.1	40.717	N	31.608	E	10	G	5.1 4.7	1.2	255	TURKEY. Additonal damage at Bolu.
16	18	01	22.0&	33.428	S	70.229	W	108				13	CHILE-ARGENTINA BORDER REGION. <GUC>.
16	18	14	25.5&	44.488	N	112.643	W	6				35	EASTERN IDAHO. <BUT-P>. ML 3.7 (BUT).
16	18	21	05.0&	44.470	N	112.630	W	8				9	EASTERN IDAHO. <BUT-P>. ML 2.8 (BUT).
16	18	21	23.2	25.187	N	124.583	E	117	*	4.5	1.0	32	NORTHEAST OF TAIWAN
16	19	06	54.5*	81.111	N	3.281	W	10	G	4.2	1.4	12	NORTH OF SVALBARD
16	19	52	37.9?	51.30	N	176.65	W	33	N	3.9	1.1	10	ANDREANOF ISLANDS, ALEUTIAN IS.
16	20	37	30.5	4.674	S	103.143	E	74		4.6	0.7	26	SOUTHERN SUMATERA, INDONESIA
16	20	51	16.0&	47.870	N	122.000	W	20				11	WASHINGTON. <SEA-P>. MD 2.5 (SEA). ML 2.5 (PGC). Felt in the Seattle area.
16	20	55	46.1&	43.100	N	0.000	E	3				13	FRANCE. <LDG>. ML 2.3 (STR), 2.1 (LDG).
16	21	21	43.7&	39.270	N	123.126	W	3				12	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.9 (GM).
16	21	22	06.1&	46.800	N	2.200	E	12				14	FRANCE. <LDG>. ML 2.5 (LDG), 2.2 (STR).
16	21	37	43.2	43.339	N	110.347	W	5	G		0.8	29	WYOMING. ML 3.1 (GS), 3.1 (BUT).
16	21	56	31.2*	62.446	S	158.711	W	10	G	4.6	0.9	10	PACIFIC-ANTARCTIC RIDGE
16	22	14	58.3*	19.957	S	174.251	W	33	N	4.5	1.1	18	TONGA ISLANDS
16	22	54	15.4	42.186	N	142.325	E	68		5.0	0.8	161	HOKKAIDO, JAPAN REGION. Felt (III JMA) in the Shizunai-Urakawa area. Felt in much of southern Hokkaido. Also felt (II JMA) in eastern Aomori and northern Iwate Prefectures, Honshu.
16	23	21	59.6	17.978	S	178.665	W	610	?	4.3	0.9	52	FIJI ISLANDS REGION
16	23	46	29.8?	62.73	S	158.72	W	10	G	4.4	1.2	9	PACIFIC-ANTARCTIC RIDGE
17	00	15	49.4*	40.906	N	31.232	E	10	G	3.7	1.0	10	TURKEY
17	00	18	00.1*	54.799	N	161.368	E	45	D	4.3	0.9	15	NEAR EAST COAST OF KAMCHATKA
17	01	10	36.6	36.890	N	69.836	E	33	N	4.6	1.0	37	HINDU KUSH REGION, AFGHANISTAN
17	01	31	30.5&	14.596	N	93.000	W	79				8	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.6 (UNM).
17	01	43	38.9*	37.025	N	69.644	E	33	N	4.1	0.9	12	AFGHANISTAN-TAJIKISTAN BORD REG.
17	02	12	44.4&	44.587	N	6.990	E	10				10	FRANCE. <GEN>. ML 2.1 (GEN).
17	02	31	25.2&	57.957	N	150.967	W	8				6	GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).
17	02	44	31.9*	37.766	N	141.689	E	98	*	4.1	0.8	18	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in Miyagi and northeastern Fukushima Prefectures.
17	03	22	26.1&	15.807	N	60.931	W	30				5	LEEWARD ISLANDS. <FDF>. MD 2.6 (FDF).
17	03	27	42.0	5.978	S	148.820	E	48		5.9 7.0	0.9	336	NEW BRITAIN REGION, P.N.G. Mw 6.9 (GS), 6.9 (HRV). Me 6.3 (GS). Felt at Kimbe and in western New Britain.

Broadband Source Parameters (GS): Dep 46; NP1: Strike=280, Dip=35, Slip=95; NP2: Strike=94, Dip=55, Slip=87; Radiated energy 6.4*10**13 Nm. Two events about 8 seconds apart. Depth based on first event.

Moment Tensor (GS): Dep 37; Principal axes (scale 10**19 Nm): (T) Val=2.79, Plg=87, Azm=308; (N) Val=-0.01, Plg=3, Azm=92; (P) Val=-2.79, Plg=2, Azm=182; Best double couple: Mo=2.8*10**19 Nm; NP1: Strike=275, Dip=43, Slip=94; NP2: Strike=89, Dip=47, Slip=87.

Centroid, Moment Tensor (HRV): Centroid origin time 03:27:56.7; Lat 6.27 S; Lon 149.03 E; Dep 38.0 Bdy; Half-duration 7.6 sec; Principal axes (scale 10**19 Nm): (T) Val=2.74, Plg=77, Azm=325; (N) Val=0.35, Plg=7, Azm=88; (P) Val=-3.09, Plg=11, Azm=180; Best double couple: Mo=2.9*10**19 Nm; NP1: Strike=279, Dip=35, Slip=103; NP2: Strike=83, Dip=56, Slip=81.

Scalar Moment (PPT): Mo=2.6*10**19 Nm.

17	03	36	00.4*	40.717	N	31.420	E	10	G	4.2	1.5	18	TURKEY
17	03	48	59.1*	6.033	S	148.873	E	33	N	4.4	0.6	10	NEW BRITAIN REGION, P.N.G.
17	04	10	43.6	44.197	N	12.398	E	10	G		1.0	25	NORTHERN ITALY. ML 3.4 (VIE), 3.1 (TRI), 3.0 (LDG).
17	04	36	36.2&	44.789	N	6.675	E	7				4	FRANCE. <GEN>. ML 1.9 (GEN).
17	05	19	23.2	17.859	S	178.706	W	566	?	4.7	0.9	110	FIJI ISLANDS REGION
17	05	24	28.4&	31.025	S	71.642	W	22				12	NEAR COAST OF CENTRAL CHILE. <GUC>.
17	05	50	32.0	2.157	N	128.441	E	249	*	4.6	1.1	29	HALMAHERA, INDONESIA
17	06	02	38.0*	55.712	N	164.117	E	33	N	4.2	1.0	14	KOMANDORSKY ISLANDS REGION
17	06	41	40.0&	16.075	N	99.008	W	16				17	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
17	06	56	27.1&	34.709	N	116.302	W	5				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	07	08	07.9&	44.409	N	7.294	E	11				5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
17	07	14	37.8&	34.519	N	116.258	W	2				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	07	35	11.7	23.801	N	120.706	E	33	N	4.7 4.2	1.2	43	TAIWAN. ML 5.2 (TAP). Felt (IV JMA) at Tai-chung; (III JMA) at Chia-i; (I JMA) at Hua-lien and Taipei. Felt in much of northern and central Taiwan. Also felt (I JMA) on Peng-hu Tao.
17	08	02	45.4	16.397	N	98.659	W	33	N	4.3	1.0	62	NEAR COAST OF GUERRERO, MEXICO. MD 4.7 (UNM).
17	08	15	26.2&	40.807	N	31.467	E	9		4.8 4.3		187	TURKEY. <ISK>. MD 5.0 (ISK). ML 4.8 (THE). Felt at Bolu, Duzce and Yigilca.
17	08	21	44.5	29.482	N	142.031	E	33	N	4.9	1.1	87	SOUTH OF HONSHU, JAPAN
17	08	24	13.6&	44.584	N	6.999	E	11				5	FRANCE. <GEN>. ML 1.8 (GEN).
17	08	24	25.2&	44.585	N	6.969	E	11				7	FRANCE. <GEN>. ML 1.9 (GEN).
17	08	27	01.9&	44.589	N	6.975	E	10				8	FRANCE. <GEN>. ML 2.1 (GEN).
17	08	49	04.1&	48.460	N	8.810	E	2	G			5	GERMANY. <STR>. ML 2.1 (STR).
17	09	22	44.0&	63.105	N	150.152	W	108				10	CENTRAL ALASKA. <AEIC>.

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17  09 44 10.0   1.075 S  127.347 E   45 *  4.9       1.2   40  HALMAHERA, INDONESIA
17  10 00 15.0& 45.850 N    2.660 E    2 G                  4  FRANCE. <STR>. ML 2.1 (STR).
17  10 10 33.7   1.084 S  127.242 E   33 N  4.6       1.1   24  HALMAHERA, INDONESIA
17  11 21 31.8& 39.410 N   27.910 E   15                     6  TURKEY. <ISK>. MD 3.0 (ISK).
17  11 36 34.9   6.004 S  148.803 E   45 D  5.7 6.1   0.9  199  NEW BRITAIN REGION, P.N.G. Mw 6.3 (HRV), 6.2 (GS). Me 5.7
                                                                 (GS).
                                                                Broadband Source Parameters (GS): Dep 44; NP1: Strike=280,
                                                                 Dip=35, Slip=90; NP2: Strike=100, Dip=55, Slip=90; Radiated
                                                                 energy 8.5*10**12 Nm.
                                                                Moment Tensor (GS): Dep 42; Principal axes (scale 10**18
                                                                 Nm): (T) Val=2.89, Plg=84, Azm=11; (N) Val=-0.52, Plg=2,
                                                                 Azm=263; (P) Val=-2.37, Plg=5, Azm=173; Best double couple:
                                                                 Mo=2.6*10**18 Nm; NP1: Strike=261, Dip=40, Slip=87; NP2:
                                                                 Strike=84, Dip=51, Slip=92.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 11:36:43.3; Lat 6.29 S; Lon 148.98 E; Dep 47.0 Bdy; Half-
                                                                 duration 3.4 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=2.47, Plg=80, Azm=354; (N) Val=0.52, Plg=0, Azm=87; (P)
                                                                 Val=-2.99, Plg=10, Azm=177; Best double couple:
                                                                 Mo=2.7*10**18 Nm; NP1: Strike=268, Dip=35, Slip=91; NP2:
                                                                 Strike=87, Dip=55, Slip=89.
17  12 11 47.7& 32.793 S   70.331 W  100                      15  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
17  13 09 34.8* 28.319 S   12.540 W   10 G  4.3       1.1    8  SOUTHERN MID-ATLANTIC RIDGE
17  13 23 34.7? 27.82  S   12.08  W   10 G  4.4       1.3    7  SOUTHERN MID-ATLANTIC RIDGE
17  13 33 27.0? 36.95  N  140.86  E   33 N               1.0    5  NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in northern
                                                                 Ibaraki and central Tochigi; (I JMA) in other parts of
                                                                 Ibaraki, eastern Fukushima and eastern Gumma Prefectures.
17  13 38 11.0& 41.420 N  112.880 W    7                      18  UTAH. <SLC-P>. ML 2.8 (SLC).
17  14 04 03.5   6.380 S  130.586 E   50 *  4.3       0.9   17  BANDA SEA
17  15 02 14.8& 34.575 N  116.250 W    5                      28  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
17  15 19 16.5? 17.72  S  178.59  W  550 G  4.9       0.9   21  FIJI ISLANDS REGION
17  16 41 36.2* 28.554 S   12.347 W   10 G  4.6       1.4   22  SOUTHERN MID-ATLANTIC RIDGE
17  16 42 11.2& 32.707 S   71.794 W   27                     28  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.8 (GUC). Felt (IV)
                                                                 at Papudo; (III) at Valparaiso and Vina del Mar; (II) at
                                                                 Quillota.
17  16 57 59.1& 32.702 S   71.770 W   24                     13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
17  17 00 14.0& 48.510 N    9.430 E   13                     10  GERMANY. <FBB>. ML 2.1 (STR), 1.9 (FBB).
17  17 12 34.8& 32.712 S   71.790 W   26     4.5            32  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.5 (GUC). Felt (IV)
                                                                 at La Ligua, Papudo, Quintero, Valparaiso, Vina del Mar and
                                                                 Zapallar; (III) at Quilpue and Villa Alemana.
17  18 41 37.5* 22.239 S  179.377 W  538 ?  4.4       0.9   33  SOUTH OF FIJI ISLANDS
17  21 21 45.6*  6.578 S  149.345 E   33 N  4.0       1.2    8  NEW BRITAIN REGION, P.N.G. ML 4.4 (PMG).
17  21 23 10.4& 38.490 S  175.560 E  189                     19  NORTH ISLAND, NEW ZEALAND. <WEL>.
18  00 52 04.6& 31.224 S   69.339 W  177                     13  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
18  01 00 58.9& 63.272 N  149.800 W  108                     12  CENTRAL ALASKA. <AEIC>.
18  01 03 49.7& 34.803 N  116.361 W    3                      8  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
18  02 25 06.9& 14.651 N   61.004 W  130                      5  WINDWARD ISLANDS. <FDF>.
18  02 53 43.5   5.987 S  148.900 E   58 D  4.9       1.0   54  NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 02:53:43.9; Lat 6.28 S; Lon 149.33 E; Dep 51.2; Half-
                                                                 duration 1.2 sec; Principal axes (scale 10**16 Nm): (T)
                                                                 Val=9.85, Plg=65, Azm=320; (N) Val=-3.00, Plg=7, Azm=66;
                                                                 (P) Val=-6.86, Plg=24, Azm=159; Best double couple:
                                                                 Mo=8.4*10**16 Nm; NP1: Strike=264, Dip=22, Slip=109; NP2:
                                                                 Strike=63, Dip=69, Slip=82.
18  03 02 36.7& 31.973 S   69.855 W  142                     13  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.0 (GUC).
18  03 17 42.4& 61.345 N  151.060 W   69                      7  SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
18  03 20 22.9   6.576 S  148.672 E   55     5.0 5.4   1.2   67  NEW BRITAIN REGION, P.N.G. Mw 5.7 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 03:20:30.5; Lat 6.86 S; Lon 148.81 E; Dep 18.5; Half-
                                                                 duration 2.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=4.54, Plg=69, Azm=356; (N) Val=0.28, Plg=1, Azm=263;
                                                                 (P) Val=-4.82, Plg=21, Azm=172; Best double couple:
                                                                 Mo=4.7*10**17 Nm; NP1: Strike=260, Dip=24, Slip=87; NP2:
                                                                 Strike=83, Dip=66, Slip=91.
18  03 34 41.0*  6.455 S  148.545 E   56 ?  4.5       1.2   18  NEW BRITAIN REGION, P.N.G.
18  03 42 33.1*  7.425 S  128.305 E  163 *  4.1       1.1   10  BANDA SEA
18  03 50 10.3& 34.771 N  116.402 W    3                      9  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
18  04 01 26.1& 34.535 N  118.119 W   11                     30  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18  04 21 36.1& 34.686 N  116.296 W   10                     30  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18  04 56 42.2& 34.727 S   70.919 W   98                     10  CHILE-ARGENTINA BORDER REGION. <GUC>.
18  05 44 10.3  25.499 S   70.202 W   53 D  5.1       1.1  107  NEAR COAST OF NORTHERN CHILE. Mw 5.3 (HRV). Felt (IV) at
                                                                 Caldera, Chanaral, Copiapo, Paipote, Salvador and Taltal.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 05:44:15.7; Lat 25.22 S; Lon 69.94 W; Dep 69.2; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                 Val=9.90, Plg=35, Azm=59; (N) Val=-0.16, Plg=3, Azm=326;
                                                                 (P) Val=-9.74, Plg=54, Azm=232; Best double couple:
                                                                 Mo=9.8*10**16 Nm; NP1: Strike=166, Dip=10, Slip=-70; NP2:
                                                                 Strike=326, Dip=80, Slip=-93.
18  06 32 38.0& 61.771 N  150.102 W   42                     13  SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.2 (PMR).
18  06 41 42.0* 68.699 N  147.981 W   10 G                   11  NORTHERN ALASKA. ML 3.6 (PMR).
18  07 09 04.0& 34.870 N  116.398 W    0                     38  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
18  08 45 59.1* 21.210 S  174.347 W   33 N  4.6       0.9   28  TONGA ISLANDS
18  09 24 13.4& 33.067 S   72.121 W   33                      8  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
18  10 10 07.9   3.914 S  153.642 E  284 D  5.0       0.9   82  NEW IRELAND REGION, P.N.G. Mw 5.3 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 10:10:13.5; Lat 3.58 S; Lon 153.75 E; Dep 281.0; Half-
                                                                 duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=1.01, Plg=20, Azm=0; (N) Val=-0.15, Plg=5, Azm=92; (P)
                                                                 Val=-0.86, Plg=69, Azm=196; Best double couple:
                                                                 Mo=9.3*10**16 Nm; NP1: Strike=80, Dip=25, Slip=-103; NP2:
                                                                 Strike=274, Dip=65, Slip=-84.
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18	10	29	55.6&	33.173	N	115.599	W	3				35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
18	10	46	21.5*	12.542	S	166.530	E	131 ?	4.7		1.2	43	SANTA CRUZ ISLANDS
18	11	22	17.8?	51.40	N	179.55	W	33 N			1.0	9	ANDREANOF ISLANDS, ALEUTIAN IS.
18	12	05	57.5*	17.587	S	179.052	W	613 ?	3.9		0.9	17	FIJI ISLANDS REGION
18	13	59	01.6*	47.425	N	154.016	E	44 *	4.4		1.3	19	KURIL ISLANDS
18	14	27	42.8	0.523	N	126.066	E	33 N	5.9	5.6	1.0	202	NORTHERN MOLUCCA SEA. Mw 6.0 (HRV), 5.9 (GS). Moment Tensor (GS): Dep 41; Principal axes (scale 10**17 Nm): (T) Val=6.99, Plg=85, Azm=133; (N) Val=2.22, Plg=3, Azm=7; (P) Val=-9.21, Plg=4, Azm=276; Best double couple: Mo=8.1*10**17 Nm; NP1: Strike=3, Dip=41, Slip=85; NP2: Strike=189, Dip=49, Slip=94. Centroid, Moment Tensor (HRV): Centroid origin time 14:27:50.2; Lat 0.75 N; Lon 125.96 E; Dep 42.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.05, Plg=81, Azm=77; (N) Val=0.10, Plg=4, Azm=192; (P) Val=-1.15, Plg=8, Azm=282; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=17, Dip=37, Slip=96; NP2: Strike=189, Dip=53, Slip=85.
18	14	44	37.7&	16.574	N	97.992	W	20				5	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
18	15	54	56.9?	29.39	N	51.66	E	68 ?	4.7		1.5	20	SOUTHERN IRAN
18	16	38	19.5	53.257	N	159.297	E	79	4.4		0.9	46	NEAR EAST COAST OF KAMCHATKA. Felt (II) at Petropavlovsk-Kamchatskiy.
18	17	54	15.5*	2.263	S	120.731	E	33 N	4.5	4.2	1.4	17	SULAWESI, INDONESIA
18	18	12	07.2*	1.201	N	125.852	E	104 ?	4.5		0.8	19	NORTHERN MOLUCCA SEA
18	18	19	32.9*	40.681	N	31.308	E	10 G	3.8		0.9	10	TURKEY
18	18	23	18.6&	16.719	N	94.476	W	105				12	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
18	18	23	26.3*	22.419	S	170.137	E	33 N	4.7		1.3	32	LOYALTY ISLANDS REGION
18	18	30	34.5	37.022	S	72.654	W	33 N	4.5		0.9	19	CENTRAL CHILE. MD 4.5 (GUC). Felt (V) at Cabrero, Cobquecura and Concepcion; (IV) at Canete and Renaico; (III) at Angol, Cauquenes, Curanilahue, Longavi and Los Angeles; (II) at Collipulli and Traiguen.
18	18	40	20.8*	2.375	S	120.428	E	52 *	3.8		0.6	9	SULAWESI, INDONESIA
18	19	15	34.6&	34.625	N	116.648	W	7				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18	20	07	31.4&	36.829	S	73.544	W	10				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
18	20	45	46.6&	32.739	S	71.679	W	7				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
18	20	57	13.5*	6.180	S	106.665	E	165 ?	4.4		0.9	21	JAWA, INDONESIA
18	21	05	30.3*	34.756	N	23.919	E	10 G	3.9		1.2	14	CRETE
18	21	15	32.0&	31.603	S	71.953	W	11				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
18	22	06	50.4	51.586	N	16.498	E	5 G			1.0	12	POLAND. ML 3.3 (VIE).
18	22	13	20.9*	42.612	N	7.854	E	10 G			0.3	5	WESTERN MEDITERRANEAN SEA. ML 2.5 (LDG).
18	23	08	44.0?	28.12	N	142.43	E	33 N			1.3	6	BONIN ISLANDS REGION
19	00	43	09.0&	34.380	S	70.327	W	8				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
19	02	27	30.1&	43.185	N	18.852	E	13				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).
19	03	56	56.2*	3.824	N	126.816	E	33 N	4.5		0.9	13	TALAUD ISLANDS, INDONESIA
19	04	40	24.6	37.339	N	54.402	E	32 D	5.3	5.1	1.0	260	TURKMENISTAN-IRAN BORDER REGION. Mw 5.4 (GS), 5.4 (HRV). Moment Tensor (GS): Dep 20; Principal axes (scale 10**17 Nm): (T) Val=1.58, Plg=58, Azm=194; (N) Val=0.09, Plg=13, Azm=82; (P) Val=-1.68, Plg=29, Azm=344; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=42, Dip=20, Slip=48; NP2: Strike=265, Dip=75, Slip=104. Centroid, Moment Tensor (HRV): Centroid origin time 04:40:27.0; Lat 37.47 N; Lon 54.52 E; Dep 29.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.39, Plg=63, Azm=229; (N) Val=0.00, Plg=21, Azm=90; (P) Val=-1.39, Plg=16, Azm=354; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=57, Dip=34, Slip=51; NP2: Strike=281, Dip=64, Slip=113.
19	04	56	29.2&	16.534	N	99.695	W	14				18	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.4 (UNM).
19	05	57	31.0&	34.540	N	116.300	W	4				44	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
19	06	36	41.6	34.461	N	140.070	E	115 D	4.4		0.6	58	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in southern Chiba and (I JMA) in eastern Kanagawa and eastern Shizuoka Prefectures. Also felt (I JMA) on Hachijo-jima and Miyake-jima.
19	08	37	20.5&	31.967	S	69.936	W	117				7	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.5 (GUC).
19	08	54	54.8&	33.027	S	70.326	W	107				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
19	09	09	38.2	45.877	N	10.462	E	10 G			0.4	11	NORTHERN ITALY. ML 2.9 (VIE). Felt in the Lago di Garda area.
19	10	27	59.1	40.785	N	31.071	E	10 G	4.1		1.0	34	TURKEY
19	10	43	50.8	30.870	S	71.388	W	68 D	5.0		0.7	53	NEAR COAST OF CENTRAL CHILE. MD 4.9 (GUC). Felt (V) at Ovalle; (IV) at Combarbala, Coquimbo, Hurtado, La Serena, Monte Patria and Punitaqui; (III) at Canela, Coiron, Illapel and Salamanca.
19	11	21	28.4	6.429	S	148.533	E	33 N	5.2	5.9	1.0	81	NEW BRITAIN REGION, P.N.G. Mw 5.9 (HRV), 5.8 (GS). ML 5.5 (PMG). Moment Tensor (GS): Dep 31; Principal axes (scale 10**17 Nm): (T) Val=5.05, Plg=67, Azm=12; (N) Val=-0.04, Plg=2, Azm=107; (P) Val=-5.01, Plg=23, Azm=198; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=292, Dip=22, Slip=95; NP2: Strike=106, Dip=68, Slip=88. Centroid, Moment Tensor (HRV): Centroid origin time 11:21:35.9; Lat 6.86 S; Lon 148.83 E; Dep 20.8; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=7.70, Plg=71, Azm=17; (N) Val=0.73, Plg=7, Azm=266; (P) Val=-8.43, Plg=18, Azm=173; Best double couple: Mo=8.1*10**17 Nm; NP1: Strike=251, Dip=28, Slip=74; NP2: Strike=90, Dip=63, Slip=98.
19	11	55	33.6&	45.437	N	7.434	E	14				19	NORTHERN ITALY. <GEN>. ML 2.4 (LDG), 2.2 (GEN).
19	12	10	32.4	11.915	N	143.326	E	33 N	5.3	4.6	1.1	122	SOUTH OF MARIANA ISLANDS
19	12	20	36.4*	4.946	N	126.743	E	33 N	4.5		1.0	18	TALAUD ISLANDS, INDONESIA
19	13	13	36.9*	6.331	S	148.463	E	33 N	4.5		1.3	19	NEW BRITAIN REGION, P.N.G.
19	13	19	12.3*	55.299	N	161.639	W	33 N	3.9		1.1	12	ALASKA PENINSULA
19	13	56	46.4	6.351	S	148.763	E	33 N	5.9	7.0	1.1	268	NEW BRITAIN REGION, P.N.G. Mw 7.0 (HRV), 6.8 (GS). Me 6.3 (GS). ML 6.3 (PMG). Broadband Source Parameters (GS): Dep 32; NP1: Strike=105,

Dip=70, Slip=90; NP2: Strike=285, Dip=20, Slip=90; Radiated energy 6.6*10**13 Nm.
Moment Tensor (GS): Dep 35; Principal axes (scale 10**19 Nm): (T) Val=1.77, Plg=76, Azm=348; (N) Val=0.10, Plg=4, Azm=94; (P) Val=-1.87, Plg=14, Azm=185; Best double couple: Mo=1.8*10**19 Nm; NP1: Strike=280, Dip=32, Slip=97; NP2: Strike=91, Dip=59, Slip=86.
Centroid, Moment Tensor (HRV): Centroid origin time 13:57:02.3; Lat 6.49 S; Lon 148.98 E; Dep 33.0 Bdy; Half-duration 8.1 sec; Principal axes (scale 10**19 Nm): (T) Val=3.84, Plg=69, Azm=344; (N) Val=0.30, Plg=4, Azm=85; (P) Val=-4.14, Plg=20, Azm=177; Best double couple: Mo=4.0*10**19 Nm; NP1: Strike=275, Dip=25, Slip=100; NP2: Strike=84, Dip=66, Slip=85.

19	14	01	14.6	40.797	N	30.734	E	10	G	4.1	0.7	22	TURKEY
19	14	03	39.7*	6.304	S	148.642	E	33	N	5.2	0.8	22	NEW BRITAIN REGION, P.N.G.
19	14	24	26.9*	6.156	S	148.906	E	33	N	4.4	1.1	17	NEW BRITAIN REGION, P.N.G.
19	14	32	20.8	6.437	S	148.485	E	33	N	5.4	0.9	109	NEW BRITAIN REGION, P.N.G.
19	15	26	41.9	0.376	N	122.041	E	155		4.9	1.2	46	MINAHASSA PENINSULA, SULAWESI
19	15	27	21.5&	43.430	N	5.430	E	2	G			8	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.4 (STR).
19	16	18	54.2?	6.35	S	148.80	E	33	N	4.1	0.6	6	NEW BRITAIN REGION, P.N.G.
19	16	44	54.6?	9.31	S	157.68	E	33	N	4.4	1.3	9	SOLOMON ISLANDS
19	16	47	50.5*	7.318	S	146.662	E	49	*	4.4	1.3	12	EASTERN NEW GUINEA REG., P.N.G.
19	17	11	57.3*	30.489	S	72.079	W	33	N		1.0	18	OFF COAST OF CENTRAL CHILE. MD 4.3 (GUC).
19	18	05	26.3	0.595	N	126.309	E	33	N	4.5	0.9	17	NORTHERN MOLUCCA SEA
19	18	10	42.6&	49.340	N	6.930	E	2	G			5	GERMANY. <STR>. ML 2.1 (STR).
19	18	14	20.2&	35.336	S	71.078	W	114				12	CENTRAL CHILE. <GUC>.
19	18	23	09.0&	37.990	N	118.660	W	7				16	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.5 (REN). ML 3.0 (GS).
19	18	58	28.2&	36.863	N	121.596	W	7				12	CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM). ML 3.0 (BRK).
19	19	50	01.6&	32.287	S	70.096	W	128				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
19	19	59	07.9&	40.809	N	30.967	E	7		4.8 4.3		174	TURKEY. <ISK>. MD 5.0 (ISK). ML 4.8 (THE). Felt at Ankara, Duzce and Istanbul.
19	20	05	41.3*	19.654	S	177.895	W	400	G	3.8	0.7	9	FIJI ISLANDS REGION
19	20	24	30.5&	61.501	N	150.633	W	48				12	SOUTHERN ALASKA. <AEIC>. ML 2.3 (AEIC), 2.8 (PMR).
19	20	51	29.2&	15.625	N	60.944	W	31				5	LEEWARD ISLANDS. <FDF>. MD 2.2 (FDF).
19	20	57	19.9*	8.209	S	119.175	E	33	N	3.7	1.3	10	FLORES REGION, INDONESIA
19	22	28	37.5	6.338	S	148.674	E	33	N	4.5	1.1	25	NEW BRITAIN REGION, P.N.G.
19	23	32	13.9&	34.606	N	116.286	W	4				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	23	49	31.9&	44.397	N	7.294	E	3				6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
19	23	50	45.0&	44.121	N	7.147	E	12				8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
19	23	51	02.9&	34.704	S	70.863	W	90				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	00	37	59.0&	49.150	N	6.680	E	1	G			9	GERMANY. <FBB>. ML 2.2 (FBB).
20	00	58	24.3&	31.897	S	71.005	W	88				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
20	01	32	20.0	44.135	N	146.799	E	85		4.5	0.8	45	KURIL ISLANDS
20	02	10	56.7	45.712	N	15.210	E	10	G		0.9	17	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.8 (ZAG), 2.7 (LJU), 2.6 (TRI). Felt (IV) at Novo Mesto, Slovenia.
20	02	16	35.4*	0.492	N	98.695	E	46	D	4.3	0.7	18	NORTHERN SUMATERA, INDONESIA
20	02	17	06.4&	33.578	S	70.476	W	96				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
20	02	59	34.9&	44.437	N	7.226	E	15				26	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.2 (STR), 2.2 (LDG).
20	03	29	36.5	23.925	N	120.728	E	33	N	4.3	1.1	21	TAIWAN. ML 4.7 (TAP). Felt (IV JMA) in the epicentral area, (III JMA) at Tai-chung and (I JMA) at Chia-i.
20	03	48	15.1	6.348	S	149.107	E	33	N	4.7	1.2	29	NEW BRITAIN REGION, P.N.G. ML 4.8 (PMG).
20	04	05	13.0	1.589	N	128.290	E	80	D	5.0	1.1	54	HALMAHERA, INDONESIA. Mw 5.2 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 04:05:16.3; Lat 1.70 N; Lon 128.39 E; Dep 69.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.46, Plg=72, Azm=230; (N) Val=1.92, Plg=7, Azm=342; (P) Val=-8.38, Plg=17, Azm=74; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=174, Dip=29, Slip=104; NP2: Strike=338, Dip=62, Slip=82.
20	04	07	59.2&	10.971	N	61.989	W	29				4	TRINIDAD. <TRN>. MD 3.1 (TRN).
20	04	50	05.6*	14.587	S	167.345	E	150	G		1.1	25	VANUATU ISLANDS
20	05	34	10.6&	32.728	S	71.684	W	26				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
20	05	45	13.2&	38.758	N	122.711	W	3		3.6		27	NORTHERN CALIFORNIA. <GM-P>. ML 3.8 (GM), 3.8 (BRK). Felt at Middletown.
20	05	52	27.1&	47.400	N	6.000	E	6				7	FRANCE. <LDG>. ML 2.0 (LDG).
20	05	59	11.3*	33.482	S	179.382	W	72	?	4.8	1.4	39	SOUTH OF KERMADEC ISLANDS
20	06	17	14.8&	34.713	S	72.344	W	25				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
20	07	04	10.0&	40.700	S	173.450	E	188				9	COOK STRAIT, NEW ZEALAND. <WEL>.
20	07	51	29.7?	6.11	S	148.71	E	33	N	3.9	0.9	7	NEW BRITAIN REGION, P.N.G.
20	08	01	44.3&	40.320	S	174.410	E	93				11	COOK STRAIT, NEW ZEALAND. <WEL>.
20	08	24	23.1*	11.221	N	124.524	E	33	N	4.3	0.9	12	LEYTE, PHILIPPINE ISLANDS
20	08	25	55.4&	43.050	N	0.210	W	2	G			17	PYRENEES. <STR>. ML 2.7 (LDG), 2.5 (STR). mbLg 2.4 (MDD). Felt (I) at Cauterets, France.
20	08	44	13.1	40.853	N	31.492	E	10	G	4.0	0.6	15	TURKEY
20	09	01	43.4&	35.470	N	3.820	W	0	G			8	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
20	09	21	54.0&	45.380	N	16.100	E	22				9	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.7 (ZAG), 2.7 (VIE).
20	09	28	42.6&	38.620	S	175.920	E	184				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
20	09	43	49.4	49.622	N	14.072	E	5	G		0.9	7	CZECH AND SLOVAK REPUBLICS. ML 2.9 (VIE).
20	11	02	49.2*	16.162	S	173.593	W	33	N	4.3	0.4	14	TONGA ISLANDS
20	11	23	01.4*	53.552	N	163.734	W	33	N	4.0	1.0	18	UNIMAK ISLAND REGION
20	12	44	40.3&	61.153	N	151.997	W	101				10	SOUTHERN ALASKA. <AEIC>.
20	13	18	12.7&	37.340	N	2.020	W	0	G			6	SPAIN. <MDD>. mbLg 1.9 (MDD).
20	13	28	02.9&	8.310	S	115.600	E	15				5	BALI REGION, INDONESIA. <DJA>.
20	13	43	49.7&	34.640	S	72.286	W	9				10	NEAR COAST OF CENTRAL CHILE. <GUC>.
20	13	45	15.8&	8.320	S	115.600	E	15				6	BALI REGION, INDONESIA. <DJA>.
20	14	06	16.8*	9.284	S	120.197	E	10	G	3.6	1.0	9	SUMBA REGION, INDONESIA
20	14	20	55.1*	36.416	N	71.343	E	33	N	4.3	0.7	12	AFGHANISTAN-TAJIKISTAN BORD REG.
20	15	16	28.6	51.644	N	16.308	E	5	G		0.9	13	POLAND. ML 3.2 (VIE).
20	15	31	47.9&	37.670	N	4.220	W	15				21	SPAIN. <MDD>. mbLg 2.5 (MDD).
20	15	36	45.4&	17.272	N	100.630	W	20				17	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
20	16	18	40.0*	52.603	N	174.435	W	198	*	4.2	1.0	16	ANDREANOF ISLANDS, ALEUTIAN IS.

20	16	31	33.7*	37.918	S	73.858	W	10 G	4.3	1.2	21	NEAR COAST OF CENTRAL CHILE
20	18	59	49.2*	22.257	S	170.876	E	33 N	4.8	1.3	21	LOYALTY ISLANDS REGION
20	20	00	49.7&	36.130	N	1.000	W	0 G			7	WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.3 (MDD).
20	20	28	23.8	47.526	N	8.936	E	5 G		0.7	11	SWITZERLAND. ML 2.2 (LDG), 2.2 (VIE), 2.0 (STR).
20	20	29	45.3	10.284	N	70.344	W	33 N	4.7	0.9	76	VENEZUELA
20	20	35	47.3&	60.113	N	152.801	W	100			7	SOUTHERN ALASKA. <AEIC>.
20	20	53	57.0	51.661	N	16.223	E	5 G		0.6	12	POLAND. ML 3.1 (VIE).
20	21	04	30.7&	33.097	S	71.879	W	35			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
20	21	52	52.2	30.764	S	71.897	W	40	5.0 4.8	0.8	93	NEAR COAST OF CENTRAL CHILE. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:52:53.1; Lat 30.79 S; Lon 72.66 W; Dep 32.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.79, Plg=78, Azm=31; (N) Val=0.16, Plg=10, Azm=179; (P) Val=-6.95, Plg=6, Azm=270; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=11, Dip=40, Slip=106; NP2: Strike=171, Dip=52, Slip=77.
20	22	05	02.3*	55.581	S	28.617	W	33 N	4.3	0.7	12	SOUTH SANDWICH ISLANDS REGION
20	22	43	23.6	53.820	N	35.360	W	10 G	4.7 4.3	0.9	41	NORTH ATLANTIC OCEAN
20	22	59	55.9*	48.334	S	31.208	E	10 G	4.1	0.8	11	SOUTH OF AFRICA
20	23	14	49.8	53.657	N	35.235	W	10 G	4.9 4.8	0.9	96	NORTH ATLANTIC OCEAN. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:14:53.2; Lat 53.29 N; Lon 34.79 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.48, Plg=9, Azm=270; (N) Val=1.90, Plg=35, Azm=6; (P) Val=-5.37, Plg=53, Azm=168; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=326, Dip=48, Slip=-142; NP2: Strike=208, Dip=63, Slip=-49.
20	23	17	55.5*	53.602	N	35.227	W	10 G	4.3	0.6	12	NORTH ATLANTIC OCEAN
20	23	29	10.9&	38.640	N	1.560	W	11			8	SPAIN. <MDD>. mbLg 2.1 (MDD).
20	23	34	24.5*	53.753	N	35.287	W	10 G	4.5	0.7	12	NORTH ATLANTIC OCEAN
20	23	37	13.8*	53.828	N	35.190	W	10 G	4.6	1.1	15	NORTH ATLANTIC OCEAN
20	23	39	45.9*	53.744	N	35.186	W	10 G	4.5	1.1	16	NORTH ATLANTIC OCEAN
20	23	43	05.8*	53.724	N	35.329	W	10 G	4.3	1.0	8	NORTH ATLANTIC OCEAN
20	23	46	34.5	53.733	N	35.295	W	10 G	4.4	0.9	18	NORTH ATLANTIC OCEAN
21	00	34	27.3&	33.040	S	71.520	W	35			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
21	01	08	54.3?	3.34	N	96.59	E	137 ?	4.4	0.8	15	NORTHERN SUMATERA, INDONESIA
21	02	00	40.0?	18.63	N	145.61	E	211 ?	4.2	1.0	22	MARIANA ISLANDS
21	02	20	56.4&	37.488	N	118.838	W	4			13	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
21	03	51	14.4	21.750	S	68.780	W	101 D	5.9	1.0	327	CHILE-BOLIVIA BORDER REGION. Mw 5.9 (HRV), 5.8 (GS). Me 6.1 (GS). Felt (IV) at Calama, Chuquicamata, Iquique, Maria Elena and Pozo Almonte, (III) at Arica and (II) at Pisagua, Chile. Broadband Source Parameters (GS): Dep 101; NP1: Strike=330, Dip=74, Slip=-120; NP2: Strike=214, Dip=34, Slip=-30; Radiated energy 3.3*10**13 Nm. Moment Tensor (GS): Dep 105; Principal axes (scale 10**17 Nm): (T) Val=6.27, Plg=30, Azm=60; (N) Val=-0.19, Plg=4, Azm=152; (P) Val=-6.09, Plg=60, Azm=249; Best double couple: Mo=6.2*10**17 Nm; NP1: Strike=139, Dip=15, Slip=-104; NP2: Strike=333, Dip=75, Slip=-86. Centroid, Moment Tensor (HRV): Centroid origin time 03:51:20.0; Lat 21.44 S; Lon 68.89 W; Dep 109.3; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=7.01, Plg=23, Azm=69; (N) Val=-0.05, Plg=11, Azm=334; (P) Val=-6.96, Plg=64, Azm=220; Best double couple: Mo=7.0*10**17 Nm; NP1: Strike=179, Dip=24, Slip=-62; NP2: Strike=329, Dip=69, Slip=-102.
21	04	03	26.3	37.927	S	73.692	W	33 N	4.8	1.0	55	NEAR COAST OF CENTRAL CHILE. Felt (IV) on Isla Mocha and at Tirua; (III) at Arauco, Canete, Contulmo and Lebu.
21	04	09	35.1	37.933	S	73.560	W	33 N	5.1 5.1	1.0	88	NEAR COAST OF CENTRAL CHILE. Felt (IV) on Isla Mocha and at Lebu and Tirua; (III) at Arauco, Canete and Contulmo.
21	04	31	42.8*	40.783	N	30.804	E	10 G	4.2	1.0	9	TURKEY
21	04	39	51.3&	34.273	S	70.694	W	92			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
21	05	12	30.6	46.250	N	7.210	E	5 G		1.0	42	SWITZERLAND. ML 2.7 (LDG), 2.6 (STR), 2.4 (FBB).
21	05	31	54.0&	47.000	N	0.600	W	3			15	FRANCE. <LDG>. ML 2.3 (LDG).
21	05	53	47.1&	37.200	N	3.620	W	0 G			9	SPAIN. <MDD>. mbLg 1.9 (MDD).
21	06	01	29.0*	50.293	N	19.379	E	5 G		0.9	7	POLAND. ML 3.0 (VIE).
21	06	05	49.7&	35.031	S	70.357	W	151			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
21	06	26	43.0&	43.000	N	0.200	E	9			5	FRANCE. <LDG>. ML 2.4 (LDG).
21	06	38	35.8*	63.123	S	164.527	W	10 G	5.1	1.3	36	PACIFIC-ANTARCTIC RIDGE. Mw 5.9 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:38:41.6; Lat 63.40 S; Lon 165.44 W; Dep 15.0 Fix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=7.68, Plg=29, Azm=118; (N) Val=-1.83, Plg=59, Azm=272; (P) Val=-5.84, Plg=11, Azm=21; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=156, Dip=61, Slip=167; NP2: Strike=252, Dip=78, Slip=29.
21	06	46	19.2	18.544	N	107.168	W	33 N	5.3 5.6	1.3	105	OFF COAST OF JALISCO, MEXICO. Mw 6.2 (HRV), 6.1 (GS). Moment Tensor (GS): Dep 15; Principal axes (scale 10**18 Nm): (T) Val=1.49, Plg=10, Azm=60; (N) Val=-0.17, Plg=77, Azm=201; (P) Val=-1.33, Plg=8, Azm=329; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=104, Dip=77, Slip=178; NP2: Strike=194, Dip=88, Slip=13. Centroid, Moment Tensor (HRV): Centroid origin time 06:46:28.8; Lat 19.16 N; Lon 107.39 W; Dep 15.0 Fix; Half-duration 2.8 sec; Principal axes (scale 10**18 Nm): (T) Val=1.98, Plg=12, Azm=247; (N) Val=-0.16, Plg=77, Azm=39; (P) Val=-1.82, Plg=6, Azm=156; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=291, Dip=77, Slip=176; NP2: Strike=22, Dip=86, Slip=13.
21	07	02	56.0&	37.390	N	117.070	W	7			17	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN), 3.1 (PAS).
21	07	10	22.5*	6.416	S	104.674	E	33 N		0.9	12	SUNDA STRAIT

21	07	50	28.9&	47.668	N	113.692	W	5				15	MONTANA. <BUT-P>. ML 3.0 (BUT).
21	07	53	40.7*	40.676	N	31.208	E	10	G	4.0	0.7	6	TURKEY
21	08	05	25.6*	56.131	S	27.121	W	133	?	4.1	0.7	20	SOUTH SANDWICH ISLANDS REGION
21	08	38	54.5&	32.721	S	71.700	W	16				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
21	08	46	54.6&	35.027	S	71.035	W	110				12	CENTRAL CHILE. <GUC>.
21	09	05	47.4&	32.694	S	71.714	W	17				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
21	09	13	17.7&	32.655	S	71.722	W	28				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
21	09	42	31.7&	32.794	S	71.674	W	15				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
21	10	03	30.6*	6.317	S	128.081	E	317	*	4.1	0.6	11	BANDA SEA
21	10	39	53.0	55.726	S	26.949	W	33	N	4.8	1.0	31	SOUTH SANDWICH ISLANDS REGION
21	10	45	29.0*	2.349	N	128.332	E	77	?	4.6	1.1	19	HALMAHERA, INDONESIA
21	11	33	45.0&	45.460	N	122.070	W	14				14	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.6 (SEA). Felt in the epicentral area.
21	12	15	53.6*	15.260	S	173.237	W	67	D	4.6	1.1	28	TONGA ISLANDS
21	12	36	27.8&	36.492	S	72.631	W	47				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
21	13	22	17.0&	37.610	N	4.070	W	15				9	SPAIN. <MDD>. mbLg 2.2 (MDD).
21	13	37	47.9&	32.995	S	71.525	W	45				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
21	14	30	16.6*	3.808	S	152.120	E	33	N		0.6	6	NEW IRELAND REGION, P.N.G.
21	14	45	58.1	8.082	S	74.467	W	149	D	5.0	0.7	180	PERU-BRAZIL BORDER REGION
21	14	49	34.3&	46.300	N	7.200	E	2				21	SWITZERLAND. <LDG>. ML 2.7 (LDG).
21	15	31	08.7&	32.501	S	71.760	W	29		4.1		38	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (II) at Cachagua, Concon, Maitencillo, Puchuncavi, Quintero and Zapallar.
21	15	32	03.3*	37.985	S	73.460	W	33	N	4.6	1.1	28	NEAR COAST OF CENTRAL CHILE
21	15	33	08.7?	9.04	S	115.45	E	92	*	3.7	1.5	11	SOUTH OF BALI, INDONESIA
21	15	40	10.0&	34.806	S	72.212	W	8				6	NEAR COAST OF CENTRAL CHILE. <GUC>.
21	15	48	03.6*	3.093	S	136.743	E	33	N	3.7	1.0	9	IRIAN JAYA, INDONESIA
21	16	23	12.9&	46.100	N	4.500	E	5				13	FRANCE. <LDG>. ML 2.1 (LDG), 2.0 (STR).
21	16	33	30.9*	7.759	N	82.887	W	10	G		0.7	9	SOUTH OF PANAMA. MD 4.0 (CASC).
21	16	46	00.8	44.933	N	16.899	E	10	G	3.9	1.1	41	NORTHWESTERN BALKAN REGION. ML 3.6 (VIE), 3.6 (ZAG). MD 3.6 (PDG).
21	20	14	24.1*	31.446	S	117.688	E	10	G		0.4	5	WESTERN AUSTRALIA
21	20	47	16.2*	1.267	S	88.946	E	10	G	4.8	0.9	18	SOUTH INDIAN OCEAN
21	21	28	02.4*	35.108	N	141.114	E	68	*	4.0	0.7	17	NEAR EAST COAST OF HONSHU, JAPAN
21	21	40	02.2*	19.731	S	133.126	E	10	G	4.3	1.1	6	NORTHERN TERRITORY, AUSTRALIA
21	22	02	42.1	53.780	N	35.272	W	10	G	4.4	1.0	40	NORTH ATLANTIC OCEAN
21	22	15	38.3&	34.620	N	116.250	W	0				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
21	22	27	32.7	40.720	N	31.557	E	10	G	4.4	1.3	85	TURKEY. MD 4.2 (ISK).
21	23	02	04.3	3.556	S	133.888	E	33	N	5.0	0.9	29	IRIAN JAYA REGION, INDONESIA
21	23	12	25.2&	42.770	N	7.410	W	13				6	SPAIN. <MDD>. mbLg 2.2 (MDD).
21	23	16	35.6*	36.940	N	69.879	E	33	N	4.3	1.0	12	HINDU KUSH REGION, AFGHANISTAN
22	00	15	04.2&	46.800	N	7.200	E	9				27	SWITZERLAND. <LDG>. ML 2.6 (LDG), 2.2 (STR), 2.1 (FBB).
22	00	29	20.6	31.515	S	68.015	W	10	G		1.3	19	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
22	01	45	20.1	16.152	S	173.057	W	33	N	5.3 5.4	1.0	142	TONGA ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:45:23.2; Lat 16.31 S; Lon 172.69 W; Dep 27.2; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.84, Plg=37, Azm=285; (N) Val=0.38, Plg=0, Azm=15; (P) Val=-2.22, Plg=53, Azm=106; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=13, Dip=8, Slip=-92; NP2: Strike=195, Dip=82, Slip=-90.
22	01	57	43.0*	6.158	S	130.337	E	127	?		1.2	8	BANDA SEA
22	02	02	27.9&	14.745	N	61.108	W	140				4	WINDWARD ISLANDS. <FDF>. MD 2.1 (FDF).
22	04	38	20.5&	37.523	N	118.876	W	11				12	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).
22	05	09	32.9*	19.272	S	169.515	E	300	G	4.4	0.9	18	VANUATU ISLANDS
22	05	16	41.0&	34.710	N	116.330	W	6				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
22	05	21	33.9?	6.13	S	149.38	E	33	N	4.2	1.4	8	NEW BRITAIN REGION, P.N.G.
22	05	38	03.0&	40.410	N	125.220	W	1		3.6		82	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. Mw 4.6 (BRK). ML 4.5 (GM), 4.5 (BRK). Felt (III) at Eureka, Ferndale, Fortuna and Scotia. Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=8.50, Plg=10, Azm=230; (N) Val=0.00, Plg=68, Azm=116; (P) Val=-8.50, Plg=20, Azm=323; Best double couple: Mo=8.5*10**15 Nm; NP1: Strike=98, Dip=83, Slip=-159; NP2: Strike=5, Dip=69, Slip=-7.
22	06	28	48.6?	50.35	N	157.08	E	89	*	3.8	1.0	11	KURIL ISLANDS
22	08	42	26.0	40.646	N	127.365	W	10	G	3.9	1.0	33	OFF COAST OF NORTHERN CALIFORNIA
22	09	37	51.2&	16.540	N	94.654	W	81				8	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
22	10	41	10.8	6.806	N	72.909	W	161	D	4.0	0.9	33	NORTHERN COLOMBIA
22	10	58	01.0*	29.410	N	141.972	E	33	N	4.2	1.4	12	SOUTH OF HONSHU, JAPAN
22	11	41	11.7&	14.915	N	61.052	W	145				4	WINDWARD ISLANDS. <FDF>. MG 2.3 (FDF).
22	13	35	33.0&	10.831	N	62.218	W	78				4	NEAR COAST OF VENEZUELA. <TRN>. MD 2.9 (TRN).
22	15	13	55.5&	33.237	S	71.070	W	67				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
22	15	31	06.4	6.299	S	149.068	E	59	*	4.7	1.0	28	NEW BRITAIN REGION, P.N.G.
22	15	58	16.7?	18.77	S	177.85	W	600	G	4.3	1.2	8	FIJI ISLANDS REGION
22	16	16	06.7	46.250	N	13.217	E	10	G		1.3	27	AUSTRIA. ML 3.1 (VIE), 2.6 (LJU), 2.5 (TRI). Felt (III) at Kobarid, Slovenia.
22	16	21	03.2*	50.131	N	18.417	E	5	G		1.4	6	POLAND. ML 3.3 (VIE).
22	17	03	31.0&	34.670	N	116.350	W	6				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
22	17	19	36.4*	36.428	N	71.026	E	188	*	4.2	1.1	19	AFGHANISTAN-TAJIKISTAN BORD REG.
22	19	09	15.4	51.690	N	16.145	E	5	G		0.5	15	POLAND. ML 3.9 (GRF), 3.6 (VIE).
22	19	25	14.0&	34.831	N	116.335	W	8				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
22	20	20	31.8	36.121	N	140.402	E	119	*	4.5	0.9	28	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in parts of Ibaraki and Tochigi; (I JMA) in northern Chiba, southern Fukushima, eastern Gumma, northern Saitama and eastern Shizuoka Prefectures.
22	20	23	02.5	34.996	N	27.479	E	33	N	5.0 4.7	1.1	276	EASTERN MEDITERRANEAN SEA
22	20	38	36.4&	34.524	N	116.274	W	6				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
22	21	23	51.1&	46.700	N	0.400	E	2				8	FRANCE. <LDG>. ML 2.0 (LDG).
22	21	23	53.1?	17.65	N	146.10	E	400	G	3.9	1.3	10	MARIANA ISLANDS
22	21	34	05.3&	37.500	N	118.832	W	8				11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.2 (BRK).

22	23	11	10.4	43.507	N	17.730	E	10	G		1.1	95	NORTHWESTERN BALKAN REGION. ML 4.1 (ROM), 4.0 (PDG), 3.8 (ZAG), 3.6 (LJU).
23	00	47	51.7&	42.065	N	25.165	E	4				10	BULGARIA. <THE>. ML 4.5 (THE).
23	01	00	38.3&	36.199	N	120.326	W	11				7	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.9 (PAS).
23	02	20	03.5*	17.236	S	70.290	W	131	*	4.4	1.1	20	NEAR COAST OF PERU
23	03	17	51.5*	43.486	N	17.727	E	10	G		1.4	13	NORTHWESTERN BALKAN REGION. MD 3.1 (PDG).
23	03	30	49.1&	33.693	S	72.869	W	8				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
23	04	03	15.2&	32.544	S	71.724	W	26				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
23	04	11	12.3&	61.063	N	149.674	W	41				8	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
23	05	05	12.3&	34.827	S	71.158	W	88				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
23	05	07	46.1&	34.747	S	70.425	W	128				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
23	05	15	38.9*	36.390	N	138.704	E	157		3.5	1.1	18	EASTERN HONSHU, JAPAN
23	05	30	22.9&	16.587	N	99.172	W	16				16	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
23	05	38	50.0&	16.444	N	94.845	W	74				7	OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
23	06	25	19.8&	33.023	S	70.368	W	111				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
23	06	27	37.4*	40.053	N	42.829	E	10	G	4.0	1.4	11	TURKEY
23	06	40	35.6&	41.770	S	172.260	E	12				8	SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.8 (WEL). Felt at Murchison.
23	07	57	26.9&	43.760	N	7.030	E	5	G			8	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.0 (STR).
23	08	57	26.2	21.554	N	143.168	E	293	?	4.0	0.9	39	MARIANA ISLANDS REGION
23	09	26	06.0&	43.730	N	7.440	E	2	G			4	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.3 (STR).
23	09	57	29.5*	42.187	N	133.180	E	469	*	3.7	0.7	14	NEAR SOUTHEAST COAST OF RUSSIA
23	11	34	30.0*	36.425	N	71.193	E	75	?	4.1	1.0	14	AFGHANISTAN-TAJIKISTAN BORD REG.
23	11	58	13.4&	35.139	S	70.752	W	15				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
23	13	35	49.9	51.669	N	16.201	E	5	G		0.8	24	POLAND. ML 4.0 (GRF), 3.8 (VIE).
23	13	41	59.1	36.192	N	71.051	E	110	*	4.7	1.0	41	AFGHANISTAN-TAJIKISTAN BORD REG.
23	13	43	35.4	51.646	N	16.172	E	5	G		0.7	19	POLAND. ML 3.7 (VIE).
23	14	12	14.0&	32.844	S	70.839	W	73				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
23	14	28	35.6&	34.836	N	116.406	W	1				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
23	14	37	56.6	9.732	N	57.122	E	10	G	5.7 5.2	0.9	291	CARLSBERG RIDGE. Mw 5.6 (GS), 5.6 (HRV). Me 5.5 (GS). Broadband Source Parameters (GS): Dep 6; NP1: Strike=160, Dip=55, Slip=90; NP2: Strike=340, Dip=35, Slip=90; Radiated energy 3.6*10**12 Nm. Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=2.50, Plg=65, Azm=4; (N) Val=0.20, Plg=12, Azm=123; (P) Val=-2.71, Plg=21, Azm=218; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=330, Dip=26, Slip=119; NP2: Strike=118, Dip=67, Slip=76. Centroid, Moment Tensor (HRV): Centroid origin time 14:37:57.5; Lat 9.51 N; Lon 56.72 E; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.05, Plg=62, Azm=239; (N) Val=-0.27, Plg=15, Azm=120; (P) Val=-2.77, Plg=23, Azm=23; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=86, Dip=25, Slip=53; NP2: Strike=305, Dip=70, Slip=106.
23	14	42	00.4*	18.289	N	145.367	E	463	*	4.4	0.9	16	MARIANA ISLANDS
23	15	15	57.8	9.716	N	57.054	E	10	G	5.0 4.4	0.9	106	CARLSBERG RIDGE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:15:58.1; Lat 9.07 N; Lon 56.86 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=46, Azm=150; (N) Val=0.14, Plg=17, Azm=259; (P) Val=-1.15, Plg=39, Azm=3; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=154, Dip=18, Slip=166; NP2: Strike=257, Dip=86, Slip=73.
23	15	47	26.7	9.717	N	57.047	E	10	G	4.9	0.8	64	CARLSBERG RIDGE
23	15	50	27.6&	16.830	N	60.882	W	14				4	LEEWARD ISLANDS. <FDF>. MD 2.7 (FDF).
23	15	52	33.0&	34.400	N	116.190	W	10				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
23	15	52	33.0&	34.408	S	70.503	W	119				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
23	16	00	15.8&	32.715	S	71.722	W	22				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
23	16	03	52.9*	15.022	S	167.268	E	133	*	4.8	1.0	48	VANUATU ISLANDS
23	16	40	17.0&	46.500	N	2.200	E	2				10	FRANCE. <LDG>. ML 2.5 (LDG), 2.2 (STR).
23	16	45	52.8	9.644	N	57.044	E	10	G	4.6	1.0	30	CARLSBERG RIDGE
23	21	45	30.9	46.062	N	15.130	E	10	G		0.9	11	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 2.0 (LJU). Felt (IV) in the Radece area, Slovenia.
23	22	03	31.7	46.054	N	15.115	E	10	G		0.5	8	NORTHWESTERN BALKAN REGION. ML 1.8 (VIE), 1.4 (LJU).
23	22	25	42.9*	6.752	S	105.473	E	33	N	4.1	1.0	22	SUNDA STRAIT
23	22	40	45.2&	33.783	S	72.997	W	29				10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
23	22	53	08.7&	33.681	S	72.999	W	35				11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
23	23	01	52.7&	32.257	S	70.035	W	137				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
23	23	11	16.5&	61.671	N	152.022	W	119		3.3		26	SOUTHERN ALASKA. <AEIC>.
23	23	56	00.4&	44.243	N	7.898	E	12				7	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
24	01	27	15.8*	6.010	S	148.613	E	33	N	4.5	1.1	18	NEW BRITAIN REGION, P.N.G.
24	01	27	22.0&	34.046	S	71.172	W	66				9	NEAR COAST OF CENTRAL CHILE. <GUC>.
24	01	35	04.8*	41.085	S	175.932	E	33	N		0.8	14	NORTH ISLAND, NEW ZEALAND. ML 4.5 (WEL).
24	03	38	54.4&	39.611	N	20.587	E	15		4.8		246	GREECE-ALBANIA BORDER REGION. <THE>. ML 4.6 (ATH), 4.5 (THE). MD 4.6 (PDG). Felt in the Ioannina-Igoumenitsa area and on Corfu, Greece.
24	03	53	39.8*	21.946	N	93.567	E	33	N	4.6	1.2	15	MYANMAR
24	03	57	33.7*	45.706	N	26.751	E	100	G		0.5	9	ROMANIA
24	04	02	09.4&	34.104	N	117.007	W	5				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS). Double event.
24	07	45	23.0&	39.950	N	120.480	W	10				35	NORTHERN CALIFORNIA. <REN-P>. MD 3.7 (REN). ML 3.9 (BRK). Felt at Herlong.
24	09	18	01.2&	34.802	N	116.333	W	3				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
24	10	53	06.8*	36.202	N	71.046	E	199	?	4.3	1.1	19	AFGHANISTAN-TAJIKISTAN BORD REG.
24	13	43	30.7&	61.596	N	146.355	W	2				8	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
24	14	04	00.5&	44.454	N	6.920	E	6				11	FRANCE. <GEN>. ML 2.2 (GEN).
24	14	04	24.6&	32.717	S	70.188	W	104				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
24	15	15	12.4&	32.678	S	71.666	W	15				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
24	15	37	42.3	33.348	S	65.884	W	33	N	4.5	0.9	43	SAN LUIS PROVINCE, ARGENTINA
24	16	40	21.2	24.589	N	102.872	E	33	N	4.8 4.6	1.0	49	YUNNAN, CHINA. ML 5.0 (BJI). One person killed, 5 injured and 90 buildings destroyed in Chengjiang County.
24	19	51	38.9	5.937	N	94.432	E	63	D	5.0	0.9	106	NORTHERN SUMATERA, INDONESIA
24	21	01	58.0*	2.075	S	121.404	E	33	N	4.4	1.4	16	SULAWESI, INDONESIA

24	21	10	49.3	40.268	N	19.759	E	10	G	4.8	1.4	100	ALBANIA. ML 4.3 (PDG).
24	21	34	17.4*	5.654	N	125.202	E	33	N	4.5	1.3	31	MINDANAO, PHILIPPINE ISLANDS
24	22	43	06.2&	60.179	N	151.799	W	74				8	KENAI PENINSULA, ALASKA. <AEIC>.
24	23	23	32.1*	55.916	N	110.468	E	10	G		1.0	8	LAKE BAYKAL REGION, RUSSIA
25	00	14	15.7&	43.926	N	7.958	E	5				8	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.0 (GEN).
25	01	54	03.5&	33.179	N	115.594	W	2				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
25	02	41	14.5&	17.868	N	98.452	W	66				6	GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).
25	03	06	04.3	22.160	S	179.770	W	622	?	4.8	0.8	94	SOUTH OF FIJI ISLANDS
25	04	00	09.4	0.944	S	121.487	E	33	N	5.6 5.2	1.2	158	MINAHASSA PENINSULA, SULAWESI. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 21; Principal axes (scale 10**17 Nm): (T) Val=3.91, Plg=15, Azm=10; (N) Val=0.33, Plg=3, Azm=101; (P) Val=-4.24, Plg=75, Azm=203; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=95, Dip=31, Slip=-96; NP2: Strike=283, Dip=60, Slip=-86. Centroid, Moment Tensor (HRV): Centroid origin time 04:00:12.7; Lat 0.65 S; Lon 121.75 E; Dep 15.0 Bdy; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=5.35, Plg=2, Azm=177; (N) Val=-1.66, Plg=2, Azm=267; (P) Val=-3.69, Plg=87, Azm=44; Best double couple: Mo=4.5*10**17 Nm; NP1: Strike=265, Dip=43, Slip=-93; NP2: Strike=89, Dip=47, Slip=-87.
25	04	12	26.1&	34.459	N	116.247	W	2				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
25	04	13	09.7&	48.200	N	7.700	E	18				9	FRANCE. <LDG>. ML 2.0 (LDG), 1.6 (STR).
25	05	18	59.5&	34.838	N	116.409	W	6				37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
25	05	50	27.5&	41.120	S	174.610	E	35				4	COOK STRAIT, NEW ZEALAND. <WEL>.
25	06	48	40.3	22.302	S	177.801	W	358	D	4.0	0.8	28	SOUTH OF FIJI ISLANDS
25	06	50	59.8&	45.400	N	6.400	E	2				18	FRANCE. <LDG>. ML 2.3 (LDG).
25	07	23	22.7&	39.850	S	174.840	E	118				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
25	08	08	31.2	21.209	S	174.420	W	33	N	4.8 4.5	0.9	48	TONGA ISLANDS
25	08	19	56.1?	1.33	N	125.44	E	96	*	4.4	1.1	9	NORTHERN MOLUCCA SEA
25	08	50	19.6	21.233	S	174.532	W	33	N	5.1 4.6	0.9	93	TONGA ISLANDS
25	09	13	13.9*	16.111	N	97.309	W	10	G		0.6	6	OAXACA, MEXICO. MD 3.9 (UNM).
25	09	41	33.9	30.002	S	71.888	W	43	*	4.5	1.1	48	NEAR COAST OF CENTRAL CHILE
25	10	04	31.5*	10.052	N	125.606	E	33	N	4.2	0.6	11	LEYTE, PHILIPPINE ISLANDS
25	10	18	34.7	56.305	S	25.720	W	33	N	5.0 4.2	0.7	43	SOUTH SANDWICH ISLANDS REGION
25	11	15	36.6&	44.300	N	7.700	E	2				12	NORTHERN ITALY. <LDG>. ML 2.3 (LDG), 2.1 (STR).
25	11	49	09.9	13.314	N	88.688	W	33	N	4.4	0.9	14	EL SALVADOR
25	11	50	29.7	21.604	S	68.289	W	128	D	4.6	0.9	53	CHILE-BOLIVIA BORDER REGION
25	12	03	41.9&	9.416	N	85.405	W	20				10	OFF COAST OF COSTA RICA. <CASC>. MD 4.0 (CASC).
25	13	27	46.8&	17.456	N	94.029	W	131				6	CHIAPAS, MEXICO. <UNM>. MD 3.9 (UNM).
25	14	43	28.0	31.078	N	50.004	E	33	N	4.3	0.5	15	NORTHERN IRAN
25	14	46	15.6&	45.116	N	122.776	W	29		3.2		131	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.4 (SEA). Felt (V) at Lake Oswego and (IV) at Silverton, Oregon. Also felt at Beaverton, Canby, Clackamas, Corvallis, Gresham, Keizer, Milwaukie, Molalla, Newberg, Portland, Salem, Sandy, Tigard, Tualatin, West Linn, Wilsonville and Woodburn, Oregon. Felt as far as Brush Prairie, Washington.
25	15	02	47.3*	55.586	N	163.136	E	33	N		1.2	5	OFF EAST COAST OF KAMCHATKA
25	15	22	58.4?	31.77	S	179.56	E	379	?		1.0	16	KERMADEC ISLANDS REGION
25	16	01	30.2&	35.937	N	117.216	W	5				33	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
25	16	27	52.9	47.137	N	14.207	E	5	G		1.1	12	AUSTRIA. ML 2.7 (VIE), 2.2 (LJU).
25	16	47	22.6&	32.639	S	71.701	W	14				9	NEAR COAST OF CENTRAL CHILE. <GUC>.
25	17	01	45.2*	44.561	N	148.124	E	50	D	4.1	1.2	20	KURIL ISLANDS
25	17	19	22.7	16.141	N	98.972	W	33	N	4.4	1.0	48	NEAR COAST OF GUERRERO, MEXICO. MD 4.4 (UNM).
25	18	01	32.7&	34.830	N	116.379	W	5				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
25	18	55	48.5&	31.644	S	70.168	W	133				15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
25	19	40	39.7	49.327	S	120.813	E	10	G	4.7	0.9	38	SOUTH OF AUSTRALIA
25	20	15	33.3*	6.573	S	129.391	E	175	*	4.6	1.2	16	BANDA SEA
25	20	20	25.4&	43.924	N	7.688	E	7				21	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN), 1.9 (STR), 1.9 (LDG).
25	20	51	17.1	34.611	N	99.792	E	44		4.9 4.4	0.8	79	QINGHAI, CHINA
25	22	33	40.5?	12.31	N	88.30	W	164	*	4.2	1.4	15	OFF COAST OF CENTRAL AMERICA. MD 4.1 (CASC).
25	22	42	09.2&	36.377	S	72.791	W	46				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC). Felt (III) at Cabrero and Chillan; (II) at San Carlos.
25	22	59	50.0*	46.012	N	143.358	E	319	*	4.3	1.1	17	SAKHALIN ISLAND
25	23	52	13.9	6.326	S	147.900	E	84	*	4.6	1.3	25	EASTERN NEW GUINEA REG., P.N.G.
26	00	08	00.4?	36.85	N	72.02	E	138	?	3.8	0.6	8	AFGHANISTAN-TAJIKISTAN BORD REG.
26	00	25	52.4?	24.66	N	142.83	E	33	N	4.1	1.4	9	VOLCANO ISLANDS REGION
26	00	29	00.2	55.133	N	165.364	E	33	N	5.6 5.8	1.1	360	KOMANDORSKY ISLANDS REGION. Mw 6.0 (HRV), 6.0 (OBN). Felt (V) at Nikolskoye. Also felt (III) at Petropavlovsk-Kamchatskiy. Centroid, Moment Tensor (HRV): Centroid origin time 00:29:02.4; Lat 55.20 N; Lon 165.31 E; Dep 26.1; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.26, Plg=9, Azm=243; (N) Val=-0.31, Plg=70, Azm=359; (P) Val=-0.96, Plg=18, Azm=150; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=288, Dip=71, Slip=-173; NP2: Strike=196, Dip=84, Slip=-20. Scalar Moment (OBN): Mo=1.2*10**18 Nm.
26	00	32	03.6&	32.684	S	71.705	W	15				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
26	00	40	56.8?	55.71	N	164.27	E	33	N	3.9	1.1	13	KOMANDORSKY ISLANDS REGION
26	00	44	23.5*	55.240	N	165.366	E	33	N		0.6	9	KOMANDORSKY ISLANDS REGION
26	00	54	16.3	55.116	N	165.336	E	33	N	5.1	0.9	161	KOMANDORSKY ISLANDS REGION
26	01	10	51.6?	11.35	S	117.05	E	33	N	3.9	1.3	8	SOUTH OF SUMBAWA, INDONESIA
26	01	13	10.0&	39.960	N	120.480	W	12				14	NORTHERN CALIFORNIA. <REN-P>. MD 2.7 (REN). ML 3.0 (GS).
26	01	23	27.5	30.639	S	72.009	W	33	N		0.5	18	OFF COAST OF CENTRAL CHILE. MD 4.5 (GUC).
26	01	46	12.7*	55.112	N	165.348	E	33	N		0.2	8	KOMANDORSKY ISLANDS REGION
26	01	52	58.6*	56.464	N	163.647	E	33	N		1.3	6	NEAR EAST COAST OF KAMCHATKA
26	01	54	42.7?	31.45	S	69.83	W	150	G		0.4	12	SAN JUAN PROVINCE, ARGENTINA
26	02	06	09.9&	34.680	S	71.570	W	41				7	NEAR COAST OF CENTRAL CHILE. <GUC>.
26	02	10	21.4?	17.80	S	174.33	W	33	N		1.2	10	TONGA ISLANDS
26	02	13	02.0*	35.708	S	103.962	W	10	G	4.5	0.6	11	SOUTHERN PACIFIC OCEAN
26	02	21	36.6*	6.943	N	72.798	W	150	G	4.1	0.9	17	NORTHERN COLOMBIA

26	02	41	04.7	0.076	N	123.605	E	139 *	4.7	1.1	29	MINAHASSA PENINSULA, SULAWESI
26	02	56	07.3	30.234	S	177.678	W	33 N	5.7 5.7	0.9	184	KERMADEC ISLANDS, NEW ZEALAND. Mw 5.9 (HRV), 5.8 (GS). Moment Tensor (GS): Dep 16; Principal axes (scale 10**17 Nm): (T) Val=5.43, Plg=67, Azm=264; (N) Val=0.14, Plg=7, Azm=11; (P) Val=-5.57, Plg=22, Azm=104; Best double couple: Mo=5.5*10**17 Nm; NP1: Strike=207, Dip=24, Slip=107; NP2: Strike=8, Dip=67, Slip=82. Centroid, Moment Tensor (HRV): Centroid origin time 02:56:11.5; Lat 30.13 S; Lon 177.23 W; Dep 18.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=0.84, Plg=68, Azm=298; (N) Val=0.18, Plg=4, Azm=198; (P) Val=-1.02, Plg=22, Azm=106; Best double couple: Mo=9.2*10**17 Nm; NP1: Strike=189, Dip=24, Slip=80; NP2: Strike=20, Dip=67, Slip=94.
26	03	09	51.2	18.059	S	178.380	W	646 D	4.8	1.0	99	FIJI ISLANDS REGION
26	03	25	31.2	55.149	N	165.381	E	33 N	5.0 4.9	0.8	156	KOMANDORSKY ISLANDS REGION. Felt (III) at Petropavlovsk-Kamchatskiy.
26	03	27	09.0&	39.960	N	120.470	W	6			17	NORTHERN CALIFORNIA. <REN-P>. MD 2.6 (REN). ML 2.9 (GS).
26	03	44	10.6&	40.970	S	174.110	E	62			4	COOK STRAIT, NEW ZEALAND. <WEL>.
26	04	27	24.7	36.920	N	54.900	E	33 N	5.2 4.8	1.0	172	NORTHERN IRAN. Mw 5.3 (HRV). About 50 buildings damaged in the Gorgan area. Centroid, Moment Tensor (HRV): Centroid origin time 04:27:22.6; Lat 37.00 N; Lon 54.54 E; Dep 17.5; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.27, Plg=61, Azm=248; (N) Val=-0.31, Plg=11, Azm=137; (P) Val=-0.96, Plg=26, Azm=41; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=106, Dip=22, Slip=58; NP2: Strike=320, Dip=72, Slip=102.
26	04	34	50.5	55.115	N	165.249	E	33 N	4.2	0.7	26	KOMANDORSKY ISLANDS REGION
26	04	36	33.9*	2.030	S	134.322	E	33 N		1.1	6	IRIAN JAYA REGION, INDONESIA
26	04	51	56.2	55.035	N	165.306	E	33 N	4.3	0.6	16	KOMANDORSKY ISLANDS REGION
26	04	53	29.7&	60.808	N	151.949	W	83			15	KENAI PENINSULA, ALASKA. <AEIC>.
26	05	30	19.9	55.135	N	165.391	E	33 N	5.1 4.6	0.8	163	KOMANDORSKY ISLANDS REGION
26	05	35	35.9	13.984	N	90.434	W	83 D	4.2	1.3	29	NEAR COAST OF GUATEMALA. MD 4.6 (UNM).
26	06	20	17.3&	39.670	S	174.500	E	137			8	NORTH ISLAND, NEW ZEALAND. <WEL>.
26	06	55	00.0&	36.340	N	92.410	W	0			6	MISSOURI-ARKANSAS BORDER REGION. <TEIC>. MD 2.6 (TEIC). Felt at Mountain Home, Arkansas. Also felt at Branson, Missouri.
26	07	13	11.0&	44.612	N	7.158	E	10			12	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
26	07	31	48.9&	34.781	N	116.338	W	0			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
26	07	45	11.4&	41.200	S	174.550	E	34			4	COOK STRAIT, NEW ZEALAND. <WEL>.
26	07	51	09.1&	61.570	N	146.297	W	24			22	SOUTHERN ALASKA. <AEIC>. ML 4.0 (PMR). Felt (IV) at Valdez.
26	08	08	08.3&	40.770	N	27.435	E	0			5	TURKEY. <ISK>. MD 2.8 (ISK).
26	08	18	34.7&	44.625	N	112.092	W	7			34	EASTERN IDAHO. <BUT-P>. ML 3.0 (BUT).
26	09	06	13.2	15.955	N	145.871	E	88	4.8	0.8	84	MARIANA ISLANDS
26	09	22	49.5&	40.871	N	31.400	E	2			4	TURKEY. <ISK>. MD 2.9 (ISK).
26	10	12	34.2	23.944	N	122.936	E	33 N	4.8 4.1	1.2	54	TAIWAN REGION. Felt (II JMA) on Iriomote-jima and (I JMA) on Yonaguni-jima, Ryukyu Islands.
26	11	11	09.5&	47.710	N	7.800	E	2 G			6	SWITZERLAND. <STR>. ML 1.7 (STR).
26	11	24	31.2&	40.929	N	30.965	E	7			6	TURKEY. <ISK>. MD 3.2 (ISK).
26	11	26	50.2&	40.836	N	31.663	E	9			5	TURKEY. <ISK>. MD 3.1 (ISK).
26	11	47	36.8*	7.658	N	82.665	W	10 G	4.6	0.7	13	SOUTH OF PANAMA. MD 4.6 (UPA), 4.2 (CASC).
26	12	13	27.0	55.144	N	165.365	E	33 N	4.0	0.8	24	KOMANDORSKY ISLANDS REGION
26	12	41	32.1&	17.426	N	61.636	W	11			4	LEEWARD ISLANDS. <FDF>. MD 3.0 (FDF).
26	13	21	15.5	16.423	S	168.214	E	33 N	6.4 7.3	1.2	273	VANUATU ISLANDS. Mw 7.5 (HRV), 7.2 (GS), 7.2 (OBN). Me 7.3 (GS). At least five people killed and forty injured by collapsed buildings and landslides on Pentecost. Extensive damage to roads and telephone lines on Pentecost. At least five people killed at Mortelli Bay by a local tsunami, which was also recorded at Suva, Fiji. Damage and landslides also occurred on Ambrym, Epi and Paama. Felt strongly in much of Vanuatu. Broadband Source Parameters (GS): Radiated energy 1.7*10**15 Nm. Moment Tensor (GS): Dep 8; Principal axes (scale 10**19 Nm): (T) Val=8.41, Plg=61, Azm=285; (N) Val=-0.03, Plg=4, Azm=188; (P) Val=-8.38, Plg=29, Azm=95; Best double couple: Mo=8.4*10**19 Nm; NP1: Strike=173, Dip=17, Slip=75; NP2: Strike=9, Dip=74, Slip=94. Centroid, Moment Tensor (HRV): Centroid origin time 13:21:45.3; Lat 16.08 S Fix; Lon 168.31 E Fix; Dep 15.0 Bdy; Half-duration 11.2 sec; Principal axes (scale 10**20 Nm): (T) Val=1.64, Plg=70, Azm=317; (N) Val=0.07, Plg=11, Azm=194; (P) Val=-1.71, Plg=17, Azm=100; Best double couple: Mo=1.7*10**20 Nm; NP1: Strike=174, Dip=30, Slip=67; NP2: Strike=20, Dip=62, Slip=103. Scalar Moment (PPT): Mo=4.5*10**20 Nm. Scalar Moment (OBN): Mo=7.9*10**19 Nm.
26	13	33	54.8?	16.58	S	168.19	E	33 N		1.3	15	VANUATU ISLANDS
26	13	38	34.4	16.009	S	167.984	E	33 N	5.7	0.9	131	VANUATU ISLANDS
26	13	46	43.5	15.983	S	168.047	E	33 N	5.3	0.9	48	VANUATU ISLANDS
26	13	47	32.3*	13.491	N	124.458	E	33 N		0.8	11	LUZON, PHILIPPINE ISLANDS
26	13	49	23.1&	44.790	N	6.882	E	16			4	FRANCE. <GEN>. ML 1.8 (GEN).
26	13	55	49.7	15.980	S	168.023	E	33 N	4.9	0.9	30	VANUATU ISLANDS
26	14	23	46.2&	34.587	S	71.506	W	63			10	NEAR COAST OF CENTRAL CHILE. <GUC>.
26	14	25	20.8*	16.050	S	168.150	E	33 N	4.7	0.9	10	VANUATU ISLANDS
26	14	30	28.7*	15.959	S	167.951	E	33 N	4.6	0.9	16	VANUATU ISLANDS
26	14	41	20.9	15.784	S	167.897	E	33 N	5.3	1.0	84	VANUATU ISLANDS
26	14	48	09.5	31.389	S	68.653	W	114 D		0.7	14	SAN JUAN PROVINCE, ARGENTINA
26	15	12	59.3	44.506	N	129.417	W	10 G	4.4	0.9	64	OFF COAST OF OREGON
26	15	25	29.8	15.902	S	167.933	E	33 N	4.9	0.9	44	VANUATU ISLANDS
26	15	49	58.3&	41.281	N	20.127	E	3			12	ALBANIA. <PDG>. MD 2.7 (PDG).
26	15	55	32.6*	15.989	S	168.184	E	33 N	4.3	0.8	14	VANUATU ISLANDS
26	15	57	34.6	55.143	N	165.475	E	33 N	5.6 5.6	0.8	313	KOMANDORSKY ISLANDS REGION

26	15	58	22.6*	15.610	S	168.234	E	33	N	4.5	0.9	16	VANUATU ISLANDS
26	16	09	06.3*	55.119	N	165.362	E	33	N	4.2	1.1	17	KOMANDORSKY ISLANDS REGION
26	16	20	28.0	16.183	S	167.986	E	33	N	4.9	1.0	45	VANUATU ISLANDS
26	16	25	35.6?	25.64	N	141.36	E	33	N		0.8	9	VOLCANO ISLANDS REGION
26	17	13	51.7*	24.348	S	66.976	W	200	G	3.9	1.0	14	SALTA PROVINCE, ARGENTINA
26	17	34	05.2?	28.97	N	140.31	E	400	G	3.8	1.2	10	BONIN ISLANDS REGION
26	18	53	14.9?	16.39	S	167.95	E	33	N	4.1	1.5	6	VANUATU ISLANDS
26	19	14	31.0&	44.249	N	7.313	E	11				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
26	19	36	09.4	16.426	S	168.050	E	33	N	5.5 4.8	0.8	171	VANUATU ISLANDS
26	19	46	35.4	44.828	N	149.896	E	68	D	4.7	1.1	54	KURIL ISLANDS
26	20	16	04.6&	45.098	N	7.284	E	21				31	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.4 (LDG), 2.4 (STR).
26	20	49	56.4*	15.984	S	168.231	E	33	N	4.7	1.0	19	VANUATU ISLANDS
26	20	56	07.8*	5.834	S	133.442	E	33	N	4.1	1.3	10	ARU ISLANDS REGION, INDONESIA
26	21	12	49.5&	15.927	N	98.297	W	10				7	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
26	21	49	58.4	7.679	N	82.674	W	10	G	4.4	0.9	22	SOUTH OF PANAMA. MD 4.8 (UPA), 4.2 (CASC).
26	22	03	20.0	15.576	S	167.918	E	33	N	5.5 5.7	1.1	151	VANUATU ISLANDS. Mw 5.9 (GS), 5.9 (HRV).

Moment Tensor (GS): Dep 14; Principal axes (scale 10**17 Nm): (T) Val=7.46, Plg=55, Azm=236; (N) Val=-1.34, Plg=7, Azm=337; (P) Val=-6.12, Plg=34, Azm=72; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=192, Dip=13, Slip=126; NP2: Strike=335, Dip=80, Slip=83.

Centroid, Moment Tensor (HRV): Centroid origin time 22:03:20.7; Lat 15.68 S; Lon 168.23 E; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.70, Plg=64, Azm=274; (N) Val=0.11, Plg=7, Azm=169; (P) Val=-6.81, Plg=25, Azm=76; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=150, Dip=21, Slip=70; NP2: Strike=352, Dip=70, Slip=98.

26	22	33	01.4&	43.710	N	78.997	W	13				14	NEW YORK. <OTT-P>. mbLg 3.8 (OTT), 3.4 (GS). Felt in the Cobourg-Newmarket-Toronto area, Canada.
26	22	36	22.9*	23.930	S	66.678	W	212		4.6	1.1	23	JUJUY PROVINCE, ARGENTINA
26	22	41	31.9	5.762	S	149.228	E	158	D	5.1	1.0	21	NEW BRITAIN REGION, P.N.G.
26	22	58	54.3&	41.550	S	173.730	E	51				5	SOUTH ISLAND, NEW ZEALAND. <WEL>.
26	23	06	51.0&	41.420	N	112.890	W	7				17	UTAH. <SLC-P>. ML 2.9 (SLC).
26	23	21	33.4*	15.869	S	168.009	E	33	N	4.5	0.5	12	VANUATU ISLANDS
26	23	49	56.2*	50.415	N	156.801	E	66	*	3.5	1.1	10	KURIL ISLANDS
27	00	03	41.9?	15.77	S	177.41	W	33	N	4.5	1.4	21	FIJI ISLANDS REGION
27	00	26	35.1?	15.70	S	167.79	E	33	N		1.0	7	VANUATU ISLANDS
27	00	43	00.1&	56.007	N	110.287	E	33	N		0.9	6	LAKE BAYKAL REGION, RUSSIA
27	00	43	27.5&	32.307	S	70.692	W	98				15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
27	00	52	14.3	9.680	N	57.101	E	10	G	5.1 4.4	1.0	109	CARLSBERG RIDGE
27	01	09	23.3&	40.020	S	174.610	E	125				6	COOK STRAIT, NEW ZEALAND. <WEL>.
27	01	46	57.6&	9.651	N	57.156	E	10	G		1.0	8	CARLSBERG RIDGE
27	02	25	05.1&	41.070	S	175.380	E	27				6	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.3 (WEL).
27	02	31	49.4	14.529	S	71.291	W	126	D	5.8	1.0	329	CENTRAL PERU. Mw 5.9 (GS), 5.9 (HRV). Me 5.7 (GS). Felt (IV) at Cusco.

Broadband Source Parameters (GS): Dep 120; NP1: Strike=120, Dip=60, Slip=90; NP2: Strike=300, Dip=30, Slip=90; Radiated energy 7.1*10**12 Nm.

Moment Tensor (GS): Dep 123; Principal axes (scale 10**18 Nm): (T) Val=0.68, Plg=58, Azm=321; (N) Val=0.41, Plg=31, Azm=125; (P) Val=-1.09, Plg=7, Azm=220; Best double couple: Mo=8.8*10**17 Nm; NP1: Strike=340, Dip=47, Slip=135; NP2: Strike=104, Dip=59, Slip=53.

Centroid, Moment Tensor (HRV): Centroid origin time 02:31:57.3; Lat 14.43 S; Lon 71.49 W; Dep 134.6; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=7.25, Plg=72, Azm=77; (N) Val=1.70, Plg=9, Azm=317; (P) Val=-8.95, Plg=16, Azm=224; Best double couple: Mo=8.1*10**17 Nm; NP1: Strike=300, Dip=31, Slip=71; NP2: Strike=142, Dip=61, Slip=101.

27	02	50	39.1*	15.979	S	167.958	E	33	N	4.6	0.7	16	VANUATU ISLANDS
27	03	03	55.3&	14.933	N	60.607	W	54				4	WINDWARD ISLANDS. <FDF>. MD 2.1 (FDF).
27	03	57	13.8	30.634	N	131.142	E	45	*		0.7	12	KYUSHU, JAPAN
27	04	52	56.3&	42.297	N	19.043	E	11				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
27	05	58	03.1*	25.979	N	125.160	E	152	*	4.1	1.0	19	SOUTHWESTERN RYUKYU ISLANDS
27	06	21	11.0*	13.492	N	146.338	E	33	N		1.1	9	SOUTH OF MARIANA ISLANDS
27	06	22	38.6&	33.959	S	70.473	W	16				12	CHILE-ARGENTINA BORDER REGION. <GUC>.
27	08	13	34.5&	43.010	N	0.330	W	10	G			11	PYRENEES. <STR>. ML 2.5 (LDG), 2.4 (STR).
27	08	32	26.5?	43.37	N	127.60	W	10	G		0.4	34	OFF COAST OF OREGON
27	09	08	34.9&	16.547	N	61.806	W	97				4	LEEWARD ISLANDS. <FDF>. MD 2.8 (FDF).
27	10	08	14.9&	44.300	N	7.600	E	2				9	NORTHERN ITALY. <LDG>. ML 1.9 (LDG), 1.8 (STR).
27	10	23	40.0*	15.996	S	167.923	E	33	N	4.4	1.1	11	VANUATU ISLANDS
27	11	02	51.8&	44.330	N	7.590	E	2	G			9	NORTHERN ITALY. <STR>. ML 2.0 (STR), 1.8 (LDG).
27	11	03	26.4&	44.310	N	7.540	E	2	G			11	NORTHERN ITALY. <STR>. ML 2.2 (LDG), 1.9 (STR).
27	11	57	16.7&	43.725	N	20.015	E	7				13	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.6 (PDG).
27	12	00	43.0*	28.155	S	177.065	W	59	D	4.6	0.9	31	KERMADEC ISLANDS REGION
27	12	14	04.1?	16.16	S	168.14	E	33	N	4.9	1.4	9	VANUATU ISLANDS
27	12	17	06.0*	27.394	N	140.068	E	350	G	3.8	0.8	12	BONIN ISLANDS REGION
27	12	47	20.4	34.107	N	140.576	E	70	D	4.5	0.8	44	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in the Tateyama area; (I JMA) in eastern Shizuoka Prefecture and in the Yokohama area. Also felt (II JMA) on Miyake-jima and (I JMA) on Hachijo-jima and Kozu-shima.
27	13	50	13.9	5.818	S	145.902	E	133	D	5.2	0.8	47	EASTERN NEW GUINEA REG., P.N.G.
27	13	52	08.6*	9.260	S	27.669	E	10	G	4.6	1.2	21	ZAIRE
27	14	05	33.7	2.159	S	125.714	E	33	N	4.1	0.9	19	CERAM SEA
27	14	36	54.6*	54.855	S	136.384	W	10	G	4.8 5.1	1.1	15	PACIFIC-ANTARCTIC RIDGE. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 14:37:00.8; Lat 54.52 S; Lon 135.69 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.44, Plg=18, Azm=156; (N) Val=-0.25, Plg=67, Azm=296; (P) Val=-2.19, Plg=14, Azm=61; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=198, Dip=67, Slip=177; NP2:

Strike=289, Dip=87, Slip=23.

27	14	42	05.7&	33.837	S	70.676	W	88				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
27	15	42	56.9*	24.458	N	121.460	E	33	N	4.2	1.3	6	TAIWAN
27	15	43	24.9*	55.170	N	162.819	E	33	N		1.2	6	NEAR EAST COAST OF KAMCHATKA
27	15	47	33.9*	15.744	S	167.880	E	33	N	4.8	0.9	19	VANUATU ISLANDS
27	16	04	51.1*	67.428	N	164.305	W	10	G		0.8	8	NORTHERN ALASKA. ML 3.7 (PMR).
27	16	45	58.0&	44.982	N	7.040	E	9				17	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.7 (LDG).
27	16	59	16.6	32.891	S	68.149	W	10	G		0.8	15	MENDOZA PROVINCE, ARGENTINA. MD 4.2 (GUC).
27	18	36	45.5	34.692	N	116.301	W	5	G		0.8	34	SOUTHERN CALIFORNIA. ML 3.2 (GS).
27	19	33	19.5*	32.390	S	71.877	W	50	*	3.8	1.4	28	NEAR COAST OF CENTRAL CHILE. MD 4.5 (GUC).
27	19	46	48.8&	40.960	S	173.260	E	137				8	COOK STRAIT, NEW ZEALAND. <WEL>.
27	20	21	43.3*	24.782	S	179.790	E	550	G	4.2	1.1	22	SOUTH OF FIJI ISLANDS
27	20	29	04.0&	34.305	S	70.644	W	104				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
27	21	45	51.7&	44.938	N	7.530	E	47				9	NORTHERN ITALY. <GEN>.
27	22	24	34.1*	31.473	S	178.570	W	200	G	4.4	0.9	17	KERMADEC ISLANDS REGION
27	22	30	18.4*	0.443	N	125.847	E	112	?	4.5	1.2	17	NORTHERN MOLUCCA SEA
27	22	41	11.2	4.692	S	153.016	E	89	D	5.8	0.9	276	NEW IRELAND REGION, P.N.G. Mw 5.9 (GS), 5.9 (HRV). Me 5.5 (GS). Broadband Source Parameters (GS): Dep 45; NP1: Strike=320, Dip=30, Slip=90; NP2: Strike=140, Dip=60, Slip=90; Radiated energy 3.4*10**12 Nm. Moment Tensor (GS): Dep 47; Principal axes (scale 10**17 Nm): (T) Val=8.29, Plg=75, Azm=322; (N) Val=-2.51, Plg=10, Azm=92; (P) Val=-5.78, Plg=11, Azm=184; Best double couple: Mo=7.0*10**17 Nm; NP1: Strike=286, Dip=35, Slip=107; NP2: Strike=85, Dip=57, Slip=79. Centroid, Moment Tensor (HRV): Centroid origin time 22:41:10.4; Lat 4.87 S; Lon 153.15 E; Dep 52.7; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=8.74, Plg=64, Azm=324; (N) Val=-0.66, Plg=15, Azm=86; (P) Val=-8.08, Plg=21, Azm=181; Best double couple: Mo=8.4*10**17 Nm; NP1: Strike=296, Dip=27, Slip=124; NP2: Strike=79, Dip=68, Slip=74.
27	22	58	43.6	55.058	N	165.469	E	33	N	4.6	0.9	25	KOMANDORSKY ISLANDS REGION
27	23	06	32.3&	50.310	N	7.380	E	2	G			10	GERMANY. <STR>. ML 2.4 (LDG), 2.2 (STR).
27	23	09	14.9&	8.868	N	84.228	W	10	G			13	OFF COAST OF COSTA RICA. <CASC>. MD 4.3 (CASC).
27	23	12	29.5	54.952	N	165.659	E	33	N	5.4 5.5	1.1	296	KOMANDORSKY ISLANDS REGION. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:12:31.5; Lat 55.46 N; Lon 165.33 E; Dep 32.2; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=4.99, Plg=12, Azm=238; (N) Val=-1.97, Plg=29, Azm=142; (P) Val=-3.01, Plg=59, Azm=348; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=0, Dip=42, Slip=-44; NP2: Strike=125, Dip=62, Slip=-123.
27	23	14	19.8&	9.004	N	84.058	W	10	G			14	COSTA RICA. <CASC>. MD 4.0 (CASC).
27	23	15	39.7*	55.243	N	165.474	E	33	N	5.1	0.9	17	KOMANDORSKY ISLANDS REGION
27	23	33	02.0*	55.061	N	165.588	E	33	N	4.2	1.3	17	KOMANDORSKY ISLANDS REGION
27	23	34	02.2&	32.387	S	71.447	W	62				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
27	23	59	43.6*	54.620	N	165.847	E	33	N	4.4	1.3	21	KOMANDORSKY ISLANDS REGION
28	00	15	59.2?	16.57	S	168.15	E	33	N		0.8	10	VANUATU ISLANDS
28	00	53	42.0	0.581	N	126.205	E	33	N	5.1	1.4	56	NORTHERN MOLUCCA SEA. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:53:50.7; Lat 0.58 N Fix; Lon 126.21 E Fix; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=2.01, Plg=43, Azm=69; (N) Val=0.76, Plg=8, Azm=166; (P) Val=-2.78, Plg=46, Azm=264; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=87, Dip=8, Slip=-169; NP2: Strike=346, Dip=89, Slip=-82.
28	00	59	47.8	41.552	N	19.376	E	55	D	4.7	1.4	233	ALBANIA. MD 5.0 (PDG). Felt (V) at Kruje and (IV) in the Tirana-Burrel-Elbasan and Shkoder areas. Felt (V) at Bar and Ulcinj; (IV) at Podgorica, Yugoslavia. Also felt (IV) at Skopje and in the western part of the former Yugoslav Republic of Macedonia.
28	01	10	05.3*	0.579	N	126.159	E	33	N	4.0	1.2	12	NORTHERN MOLUCCA SEA
28	01	10	30.5?	55.03	N	161.30	W	33	N		1.4	14	ALASKA PENINSULA
28	01	19	39.5&	32.724	S	71.750	W	27				16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
28	01	36	26.1	31.368	S	68.690	W	109	D	4.1	0.8	30	SAN JUAN PROVINCE, ARGENTINA. MD 4.4 (GUC).
28	01	53	55.2&	41.665	N	19.554	E	21				11	ALBANIA. <PDG>. MD 2.3 (PDG).
28	02	43	00.9*	55.050	N	165.661	E	33	N	4.5	1.3	14	KOMANDORSKY ISLANDS REGION
28	02	58	56.8&	42.295	N	19.027	E	7				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.5 (PDG).
28	03	39	38.0&	30.708	S	71.621	W	61				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
28	03	41	17.1&	41.599	N	19.593	E	11				11	ALBANIA. <PDG>. MD 2.4 (PDG).
28	04	03	17.6&	44.984	N	6.727	E	5				18	FRANCE. <GEN>. ML 2.3 (GEN), 1.9 (LDG).
28	04	03	51.8&	41.687	N	19.603	E	11				11	ALBANIA. <PDG>. MD 2.2 (PDG).
28	04	06	34.0&	41.637	N	19.612	E	10				11	ALBANIA. <PDG>. MD 2.5 (PDG).
28	04	08	09.6&	41.666	N	19.610	E	10				11	ALBANIA. <PDG>. MD 2.5 (PDG).
28	04	11	55.7&	41.702	N	19.603	E	11				11	ALBANIA. <PDG>. MD 2.5 (PDG).
28	04	13	52.7	55.227	N	165.139	E	33	N	4.5	0.7	20	KOMANDORSKY ISLANDS REGION
28	04	21	22.4*	0.387	S	132.532	E	33	N	4.5	1.5	12	IRIAN JAYA REGION, INDONESIA
28	04	27	36.1&	41.666	N	19.631	E	10				11	ALBANIA. <PDG>. MD 2.3 (PDG).
28	04	37	37.2&	32.277	S	71.687	W	26				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
28	05	34	18.2*	57.486	S	26.806	W	118	?	4.3	1.0	12	SOUTH SANDWICH ISLANDS REGION
28	05	48	52.2&	61.680	N	150.917	W	81				10	SOUTHERN ALASKA. <AEIC>.
28	05	50	36.9	55.025	N	165.536	E	33	N	4.7	1.0	79	KOMANDORSKY ISLANDS REGION
28	06	14	57.6	55.094	N	165.550	E	33	N	4.4	1.1	43	KOMANDORSKY ISLANDS REGION
28	06	42	09.5?	7.56	S	74.42	W	150	?	3.9	1.2	13	PERU-BRAZIL BORDER REGION
28	07	28	01.0&	41.623	N	19.451	E	21				10	ALBANIA. <PDG>. MD 2.4 (PDG).
28	08	09	31.3	55.045	N	165.582	E	33	N	4.5	1.1	63	KOMANDORSKY ISLANDS REGION
28	09	06	33.3&	18.131	N	101.343	W	75				11	GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
28	09	10	28.0	55.047	N	165.565	E	33	N	5.3 4.8	1.0	184	KOMANDORSKY ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:10:28.8; Lat 55.11 N; Lon 165.69 E; Dep 33.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)

Val=8.53, Plg=20, Azm=235; (N) Val=-0.48, Plg=12, Azm=140; (P) Val=-8.05, Plg=66, Azm=20; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=345, Dip=27, Slip=-62; NP2: Strike=135, Dip=66, Slip=-104.

28 09 42 38.0 55.111 N 165.488 E 33 N 4.4 1.0 48 KOMANDORSKY ISLANDS REGION

28 10 17 18.7 1.296 S 88.900 E 10 G 5.2 5.0 1.1 101 SOUTH INDIAN OCEAN. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 10:17:23.5; Lat 1.19 S; Lon 88.82 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.51, Plg=17, Azm=231; (N) Val=-0.17, Plg=72, Azm=61; (P) Val=-1.34, Plg=3, Azm=322; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=7, Dip=76, Slip=10; NP2: Strike=275, Dip=80, Slip=166.

28 10 17 28.6* 1.380 S 89.218 E 10 G 5.4 1.1 26 SOUTH INDIAN OCEAN

28 11 00 09.3 33.416 N 87.253 W 1 G 3.5 1.1 20 ALABAMA. mbLg 3.8 (GS). Probable mine collapse.

28 13 00 48.5 55.511 N 162.987 E 33 N 4.2 1.0 32 NEAR EAST COAST OF KAMCHATKA

28 13 02 45.2? 28.13 N 140.00 E 419 ? 4.0 0.7 12 BONIN ISLANDS REGION

28 13 43 11.7* 43.922 N 144.729 E 33 N 3.9 0.9 11 HOKKAIDO, JAPAN REGION

28 15 06 58.1& 33.955 S 70.473 W 16 9 CHILE-ARGENTINA BORDER REGION. <GUC>.

28 15 14 21.5& 32.564 S 71.693 W 21 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).

28 15 28 03.0& 46.000 N 3.000 E 4 12 FRANCE. <LDG>. ML 2.1 (STR), 2.0 (LDG).

28 15 52 49.6& 32.967 S 71.958 W 2 10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).

28 15 58 57.7& 42.292 N 19.033 E 5 8 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.2 (PDG).

28 16 22 16.5& 40.799 N 30.694 E 5 7 TURKEY. <ISK>. MD 3.3 (ISK).

28 17 23 29.6& 44.450 N 7.253 E 15 8 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).

28 17 45 14.2* 14.822 N 55.824 E 10 G 1.1 10 ARABIAN SEA

28 17 48 46.0& 32.909 S 70.949 W 65 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).

28 19 03 07.8& 40.941 N 31.173 E 5 7 TURKEY. <ISK>. MD 3.1 (ISK).

28 19 24 41.5 56.031 N 111.787 E 10 G 3.8 0.9 8 LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Novyy Uoyan.

28 19 30 43.2& 16.703 N 99.606 W 11 13 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).

28 19 37 26.7* 14.748 N 55.714 E 10 G 3.8 0.9 16 ARABIAN SEA

28 20 42 25.0* 23.282 N 121.146 E 33 N 4.4 1.3 23 TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i.

28 20 43 23.3* 37.249 N 70.209 E 33 N 4.0 1.1 10 AFGHANISTAN-TAJIKISTAN BORD REG.

28 20 54 36.3& 40.771 N 30.672 E 11 7 TURKEY. <ISK>. MD 2.9 (ISK).

28 21 19 36.1* 46.099 N 14.333 E 10 G 0.1 5 NORTHWESTERN BALKAN REGION. ML 1.3 (LJU).

28 21 25 53.5* 23.198 N 121.026 E 33 N 4.3 1.5 16 TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Chia-i and (I JMA) at Chang-hua and Cheng-kung.

28 21 31 11.1* 4.327 N 124.653 E 346 ? 4.3 0.8 20 CELEBES SEA

28 21 38 59.6& 33.840 S 70.690 W 98 8 CHILE-ARGENTINA BORDER REGION. <GUC>.

28 21 43 54.6& 33.983 S 70.433 W 17 11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).

28 21 45 23.6? 25.80 N 122.22 E 254 * 4.1 0.6 11 TAIWAN REGION

28 23 13 44.6? 5.72 S 154.41 E 126 D 4.3 0.9 8 SOLOMON ISLANDS

28 23 44 55.2* 24.204 S 179.721 E 600 G 4.2 0.8 22 SOUTH OF FIJI ISLANDS

28 23 59 48.5& 34.204 S 69.986 W 9 6 CHILE-ARGENTINA BORDER REGION. <GUC>.

29 01 07 39.4& 33.594 S 70.255 W 108 12 CHILE-ARGENTINA BORDER REGION. <GUC>.

29 03 20 33.2 42.854 N 13.141 E 10 G 4.0 1.1 130 CENTRAL ITALY. ML 4.4 (STR), 4.4 (VIE), 4.1 (TRI), 3.8 (ROM), 3.8 (LDG). MD 3.9 (PDG).

29 03 46 30.1 1.275 S 89.043 E 10 G 5.9 6.4 1.1 324 SOUTH INDIAN OCEAN. Mw 6.4 (GS), 6.4 (HRV). Me 6.9 (GS). Felt in parts of Sri Lanka.
Broadband Source Parameters (GS): NP1: Strike=220, Dip=87, Slip=-11; NP2: Strike=311, Dip=79, Slip=-177; Radiated energy 5.2*10**14 Nm.
Moment Tensor (GS): Dep 8; Principal axes (scale 10**18 Nm): (T) Val=4.56, Plg=8, Azm=75; (N) Val=0.70, Plg=75, Azm=198; (P) Val=-5.26, Plg=12, Azm=344; Best double couple: Mo=4.9*10**18 Nm; NP1: Strike=120, Dip=75, Slip=-177; NP2: Strike=29, Dip=87, Slip=-15.
Centroid, Moment Tensor (HRV): Centroid origin time 03:46:34.2; Lat 1.25 S; Lon 88.98 E; Dep 15.0 Bdy; Half-duration 3.9 sec; Principal axes (scale 10**18 Nm): (T) Val=4.50, Plg=8, Azm=246; (N) Val=0.00, Plg=77, Azm=119; (P) Val=-4.50, Plg=10, Azm=338; Best double couple: Mo=4.5*10**18 Nm; NP1: Strike=22, Dip=77, Slip=-2; NP2: Strike=112, Dip=88, Slip=-167.

29 03 55 37.8 1.343 S 89.099 E 10 G 5.3 0.9 147 SOUTH INDIAN OCEAN

29 04 04 15.3& 42.328 N 122.012 W 8 30 OREGON. <SEA-P>. MD 3.4 (SEA). ML 3.4 (GS). Felt at Klamath Falls.

29 04 10 40.9 40.459 N 122.889 E 10 G 5.0 1.1 121 NORTHEASTERN CHINA. ML 5.3 (BJI). One hundred sixty houses damaged in the Sanjianfang area. Felt at Anshan and Shenyang.

29 04 45 55.1* 40.997 N 122.609 E 10 G 4.3 1.2 12 NORTHEASTERN CHINA. ML 4.6 (BJI).

29 06 18 23.3* 11.828 N 43.369 E 5 G 0.6 5 ETHIOPIA. ML 3.6 (ARO).

29 06 19 54.5& 33.891 S 71.732 W 34 8 NEAR COAST OF CENTRAL CHILE. <GUC>.

29 06 37 34.9* 23.358 S 179.970 E 572 ? 4.5 0.9 39 SOUTH OF FIJI ISLANDS

29 06 47 15.2* 54.970 N 165.703 E 33 N 0.8 8 KOMANDORSKY ISLANDS REGION

29 08 00 21.1 37.430 N 20.865 E 33 N 4.2 1.1 34 IONIAN SEA

29 08 06 19.2* 3.815 N 123.314 E 500 G 4.8 1.0 9 CELEBES SEA

29 08 16 50.0* 40.392 N 122.981 E 10 G 4.4 1.4 17 NORTHEASTERN CHINA. ML 4.8 (BJI).

29 08 43 22.3? 30.23 S 179.02 W 500 G 4.3 0.9 15 KERMADEC ISLANDS REGION

29 09 41 41.9& 32.662 S 71.641 W 31 17 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.4 (GUC). Felt (III) at Valparaiso and Zapallar; (II) at La Ligua.

29 10 03 50.0& 62.170 N 124.480 W 0 G 4.0 32 NORTHWEST TERRITORIES, CANADA. <PGC>. ML 3.8 (PGC).

29 10 30 45.8 40.835 N 31.515 E 10 G 3.7 0.8 15 TURKEY. MD 4.0 (ISK).

29 11 04 29.9* 19.246 S 177.718 W 600 G 3.9 1.0 35 FIJI ISLANDS REGION

29 11 07 02.8 0.565 N 126.110 E 33 N 5.6 5.2 1.1 126 NORTHERN MOLUCCA SEA. Mw 5.7 (HRV), 5.6 (GS). Felt (III) at Manado and Tondano; (II) at Bitung, Indonesia.
Moment Tensor (GS): Dep 26; Principal axes (scale 10**17 Nm): (T) Val=3.25, Plg=17, Azm=66; (N) Val=-0.56, Plg=41, Azm=172; (P) Val=-2.69, Plg=44, Azm=320; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=114, Dip=46, Slip=-157; NP2: Strike=7, Dip=73, Slip=-46.
Centroid, Moment Tensor (HRV): Centroid origin time

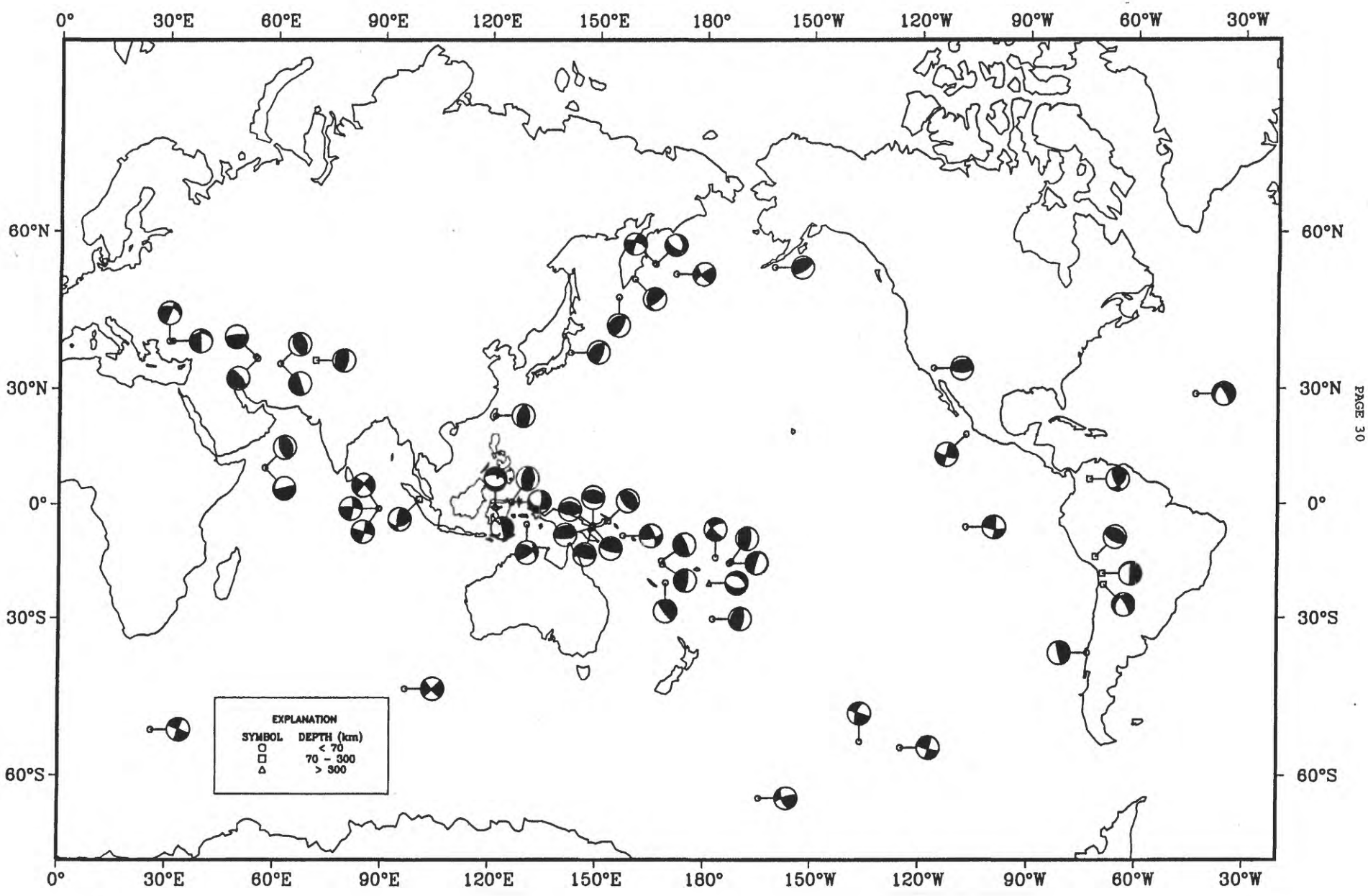
11:07:08.5; Lat 0.70 N; Lon 126.44 E; Dep 29.5; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=2.96, Plg=32, Azm=110; (N) Val=1.75, Plg=3, Azm=18; (P) Val=-4.72, Plg=58, Azm=283; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=211, Dip=13, Slip=-77; NP2: Strike=18, Dip=77, Slip=-93.

29	12	04	02.8*	31.422	S	69.280	W	136	?		0.8	16	SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
29	12	34	02.5	34.991	N	136.969	E	45	D	4.6	0.8	73	WESTERN HONSHU, JAPAN. Felt (IV JMA) in the epicentral area; (III JMA) in northern Mie and much of Aichi Prefectures; (II JMA) as far as central Nagano and northern Nara Prefectures. Felt in many parts of central Honshu.
29	14	02	24.8*	0.697	N	126.368	E	33	N	4.7	1.3	9	NORTHERN MOLUCCA SEA
29	14	31	19.9	33.144	N	75.569	E	33	N	4.7	0.7	16	EASTERN KASHMIR
29	14	41	46.7*	53.207	N	159.747	E	33	N		0.8	5	NEAR EAST COAST OF KAMCHATKA
29	15	03	38.2&	40.812	N	31.455	E	5				4	TURKEY. <ISK>. MD 3.1 (ISK).
29	15	12	13.0&	45.880	N	16.180	E	8				10	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.8 (ZAG), 2.6 (VIE).
29	17	14	22.4*	7.087	N	94.825	E	206	?	4.2	0.4	17	NICOBAR ISLANDS, INDIA
29	17	18	37.8&	33.845	S	70.664	W	84				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
29	17	20	38.3	17.481	N	94.659	W	153		4.3	1.2	51	CHIAPAS, MEXICO. MD 4.4 (UNM).
29	17	53	54.5*	23.579	N	120.893	E	33	N		1.4	10	TAIWAN. Felt (IV JMA) in the epicentral area; (II JMA) at Chang-hua and Chia-i; (I JMA) at Hua-lien and Tai-chung.
29	18	35	23.2*	43.092	N	17.349	E	10	G		1.2	14	NORTHWESTERN BALKAN REGION. MD 2.7 (PDG).
29	19	09	42.2&	46.300	N	1.300	E	5				13	FRANCE. <LDG>. ML 2.3 (STR), 2.2 (LDG).
29	19	37	34.6	21.790	S	176.550	W	148	D	4.8	0.9	55	FIJI ISLANDS REGION
29	20	11	13.2*	8.388	N	127.150	E	33	N	4.6	1.0	11	PHILIPPINE ISLANDS REGION
29	20	28	05.9*	1.405	S	88.890	E	10	G	4.8 4.2	1.3	23	SOUTH INDIAN OCEAN
29	21	21	57.0?	2.08	S	134.34	E	33	N	4.0	0.8	6	IRIAN JAYA REGION, INDONESIA
29	22	01	14.0*	13.480	N	144.683	E	143	*		1.0	13	MARIANA ISLANDS
29	23	11	15.0?	15.60	N	60.31	W	33	N		0.3	6	LEEWARD ISLANDS. MD 2.4 (FDF).
29	23	52	56.3*	40.205	N	122.631	E	10	G		1.0	6	NORTHEASTERN CHINA. ML 4.0 (BJI).
29	23	55	11.7*	3.182	S	130.490	E	33	N		1.1	8	SERAM, INDONESIA
30	00	33	19.1&	37.940	S	176.150	E	225				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
30	01	48	41.7&	44.780	N	112.773	W	12				28	EASTERN IDAHO. <BUT-P>. ML 3.3 (BUT).
30	02	41	32.7&	32.697	S	71.697	W	26				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
30	02	59	19.7&	32.701	S	71.647	W	27				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
30	03	35	27.0*	53.063	N	106.921	E	10	G		1.0	7	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Yelantsy.
30	04	01	53.2	18.901	S	69.171	W	128	D	6.2	0.9	442	NORTHERN CHILE. Mw 6.6 (GS), 6.6 (HRV). Me 6.1 (GS). Slight damage and power outages in the epicentral area. Felt (V) at Arica, Camarones, Putre, Tarapaca and Tignamar; (IV) at Iquique; (III) at Antofagasta, Calama, Camar, Maria Elena, Mejillones, Talabre and Tocopilla. Also felt (V) at Tacna; (IV) at Ilo and Moquegua; (III) at Arequipa, Peru. Broadband Source Parameters (GS): Dep 128; NP1: Strike=3, Dip=88, Slip=-100; NP2: Strike=262, Dip=10, Slip=-11; Radiated energy 3.5*10**13 Nm. Two events about 2.5 seconds apart. Depth based on first event. Moment Tensor (GS): Dep 128; Principal axes (scale 10**18 Nm): (T) Val=9.16, Plg=34, Azm=111; (N) Val=-1.84, Plg=21, Azm=5; (P) Val=-7.32, Plg=48, Azm=250; Best double couple: Mo=8.2*10**18 Nm; NP1: Strike=255, Dip=23, Slip=-19; NP2: Strike=2, Dip=83, Slip=-111. Centroid, Moment Tensor (HRV): Centroid origin time 04:01:59.8; Lat 19.01 S; Lon 69.37 W; Dep 138.2; Half-duration 4.6 sec; Principal axes (scale 10**18 Nm): (T) Val=8.16, Plg=34, Azm=99; (N) Val=-0.97, Plg=17, Azm=357; (P) Val=-7.19, Plg=51, Azm=245; Best double couple: Mo=7.7*10**18 Nm; NP1: Strike=236, Dip=19, Slip=-29; NP2: Strike=354, Dip=81, Slip=-107.
30	04	40	25.0	21.213	S	174.380	W	33	N	5.1	0.9	73	TONGA ISLANDS
30	05	15	03.9&	43.998	N	7.637	E	9				37	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.7 (GEN), 2.6 (LDG), 2.6 (STR).
30	05	51	56.4*	51.926	N	153.354	E	394	*	4.1	1.3	20	NORTHWEST OF KURIL ISLANDS
30	05	58	22.2*	40.119	N	122.797	E	33	N	4.4	1.3	22	NORTHEASTERN CHINA. ML 4.8 (BJI).
30	06	04	32.3&	32.548	S	71.761	W	29				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
30	08	24	53.0	31.350	N	104.263	E	33	N	4.8	1.3	35	SICHUAN, CHINA. ML 5.0 (BJI).
30	09	24	01.4	84.375	N	1.209	E	10	G	4.6 4.5	0.9	85	NORTH OF SVALBARD
30	09	38	00.4	44.380	N	10.930	E	10	G		1.4	52	NORTHERN ITALY. ML 3.6 (VIE), 3.3 (LDG), 3.3 (STR), 3.0 (TRI).
30	09	38	09.8&	42.600	N	18.944	E	18				13	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).
30	09	39	53.5&	42.609	N	18.954	E	20				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
30	10	08	08.1	36.306	N	81.273	E	33	N	4.9	0.9	71	SOUTHERN XINJIANG, CHINA
30	10	31	57.3&	61.757	N	151.597	W	77		4.4		51	SOUTHERN ALASKA. <AEIC>.
30	10	37	48.8&	40.810	N	124.548	W	19				5	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.6 (GM).
30	11	02	12.8*	5.831	S	131.969	E	33	N	4.7	1.1	16	BANDA SEA
30	12	55	37.0&	31.882	S	70.246	W	126				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
30	13	15	33.6&	43.240	N	0.630	W	10	G			34	PYRENEES. <STR>. ML 3.6 (LDG), 3.4 (STR). Felt (IV) in the epicentral area.
30	15	43	45.0?	29.40	N	141.75	E	33	N	4.4	1.3	8	SOUTH OF HONSHU, JAPAN
30	16	00	51.8	4.818	S	101.869	E	33	N	4.8	1.0	28	SOUTHERN SUMATERA, INDONESIA
30	16	23	34.8	21.284	S	169.105	E	33	N	5.7 5.5	1.3	130	LOYALTY ISLANDS REGION. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=6.50, Plg=53, Azm=53; (N) Val=0.19, Plg=1, Azm=144; (P) Val=-6.69, Plg=37, Azm=235; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=332, Dip=8, Slip=98; NP2: Strike=144, Dip=82, Slip=89. Centroid, Moment Tensor (HRV): Centroid origin time 16:23:38.9; Lat 21.51 S; Lon 169.00 E; Dep 15.1; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.28, Plg=69, Azm=53; (N) Val=0.14, Plg=4, Azm=153; (P) Val=-6.42, Plg=20, Azm=245; Best double couple: Mo=6.3*10**17 Nm; NP1: Strike=342, Dip=25, Slip=100; NP2: Strike=151, Dip=65, Slip=86.
30	17	59	11.4&	58.918	N	154.510	W	132		3.6		20	ALASKA PENINSULA. <AEIC>.

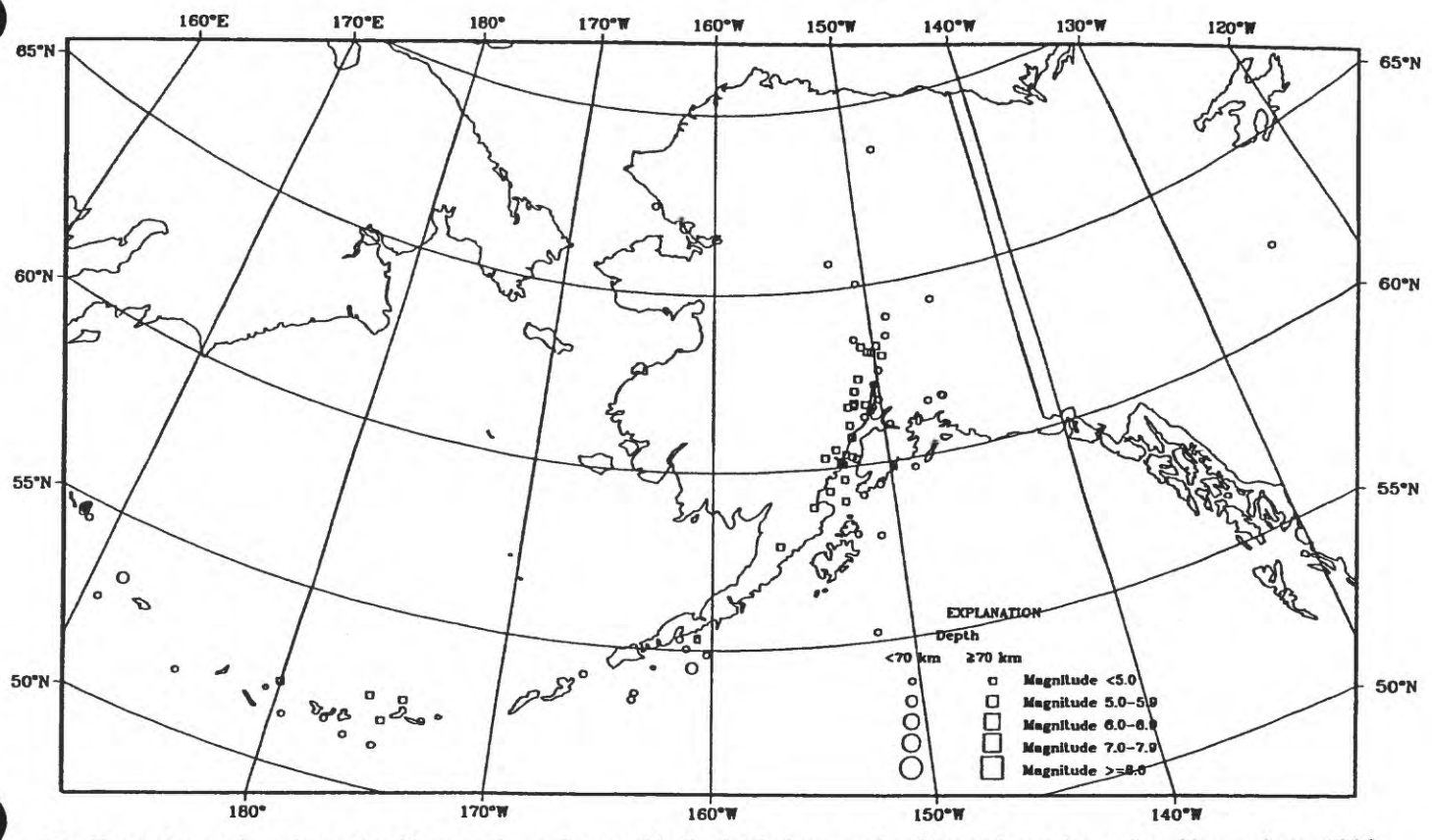
30	18	20	31.1&	43.100	N	1.660	W	10	G		7	PYRENEES. <STR>. ML 2.4 (STR).
30	18	27	02.0&	34.100	N	118.410	W	12			30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt at Beverly Hills, Burbank, Century City, Encino, Los Angeles, Marina del Rey, Santa Monica, Sherman Oaks, Van Nuys, West Hollywood, West Los Angeles and Woodland Hills.
30	18	46	27.0&	34.100	N	118.420	W	11			29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Beverly Hills, Burbank, Century City, Los Angeles, Marina del Rey, Van Nuys, West Hollywood and Woodland Hills.
30	18	56	30.8	46.390	N	13.053	E	10	G	1.1	9	AUSTRIA. ML 2.2 (VIE).
30	19	25	02.3&	44.499	N	7.260	E	14			51	NORTHERN ITALY. <GEN>. ML 3.3 (GEN), 3.0 (LDG), 2.9 (STR).
30	19	40	35.0&	40.700	N	124.870	W	17			5	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
30	20	10	22.3	21.325	S	178.662	W	548	D 5.3	0.8	286	FIJI ISLANDS REGION. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 554; Principal axes (scale 10**17 Nm): (T) Val=5.24, Plg=4, Azm=200; (N) Val=0.00, Plg=14, Azm=108; (P) Val=-5.24, Plg=76, Azm=307; Best double couple: Mo=5.2*10**17 Nm; NP1: Strike=304, Dip=42, Slip=-70; NP2: Strike=97, Dip=51, Slip=-108. Centroid, Moment Tensor (HRV): Centroid origin time 20:10:28.1; Lat 21.12 S; Lon 178.52 W; Dep 556.8; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=5.08, Plg=1, Azm=45; (N) Val=1.61, Plg=19, Azm=135; (P) Val=-6.69, Plg=71, Azm=313; Best double couple: Mo=5.9*10**17 Nm; NP1: Strike=117, Dip=47, Slip=-116; NP2: Strike=333, Dip=49, Slip=-65.
30	20	23	07.5&	44.353	N	6.742	E	6			4	FRANCE. <GEN>. ML 1.7 (GEN).
30	20	37	14.3&	43.000	N	2.900	E	5			9	FRANCE. <LDG>. ML 2.3 (STR), 2.2 (LDG).
30	20	50	55.9&	32.833	S	70.827	W	75			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
30	21	31	46.6&	57.883	N	156.413	W	145			5	ALASKA PENINSULA. <AEIC>.

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.

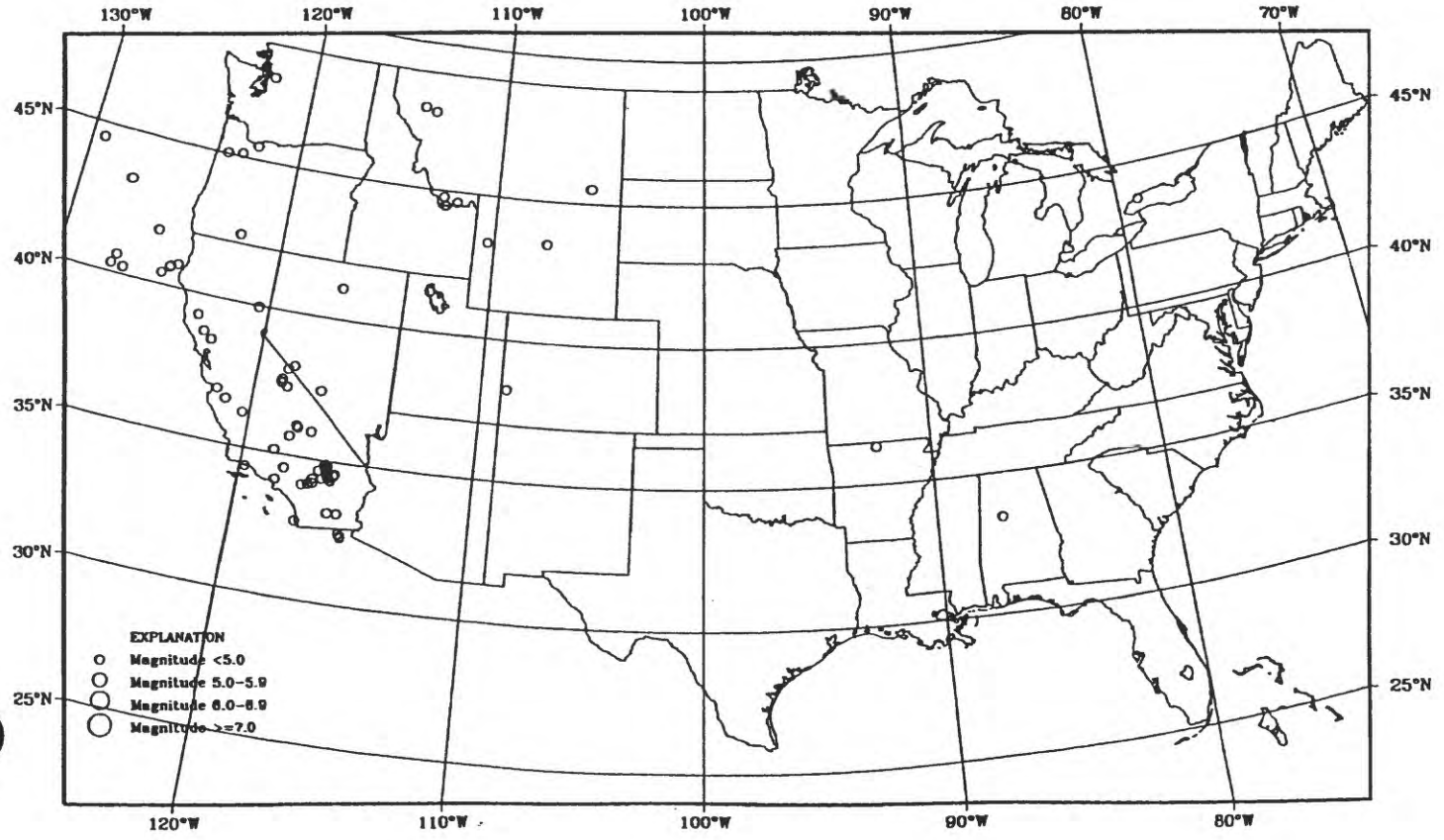
Earthquake Focal Mechanisms for November 1999



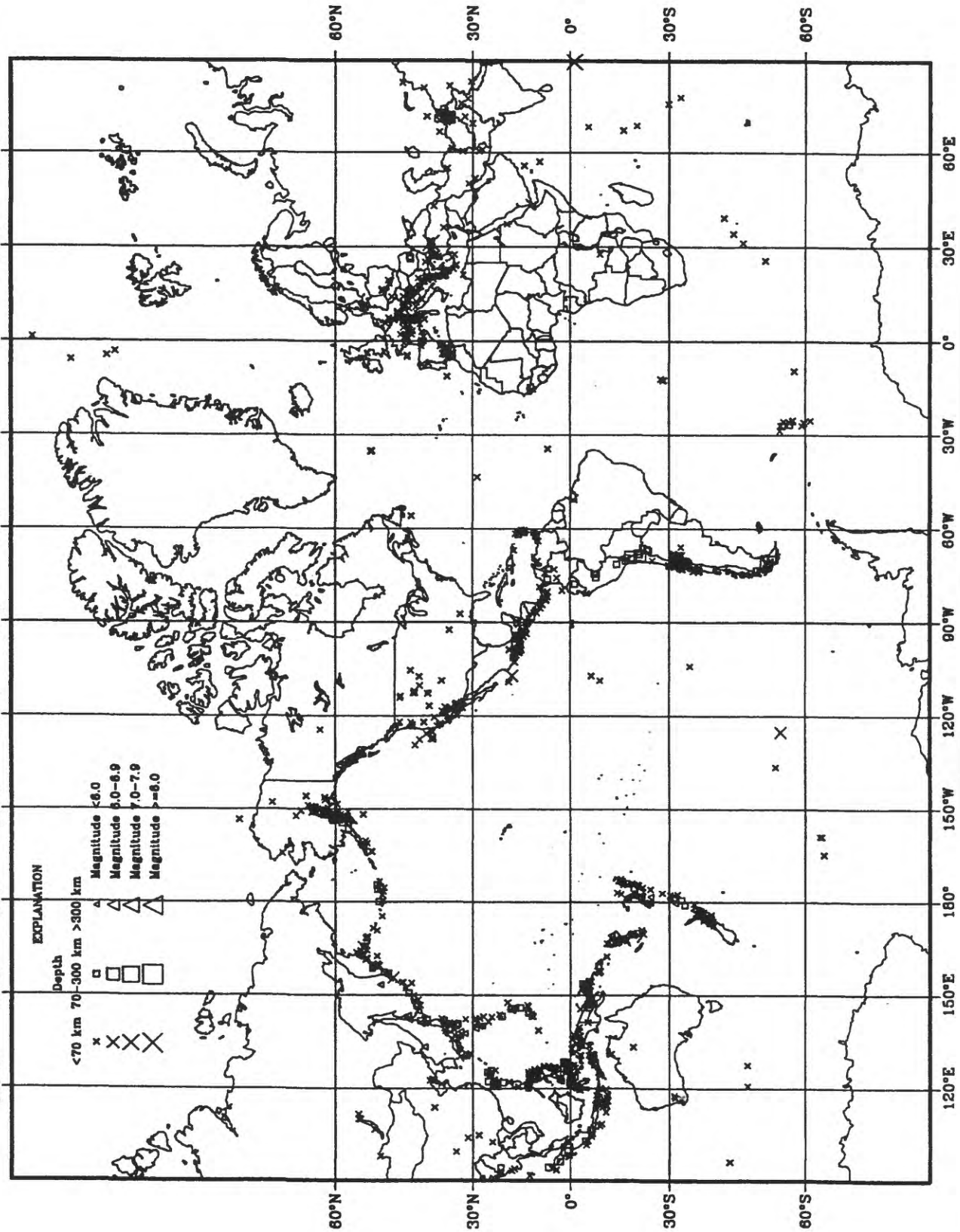
Earthquake epicenters in Alaska and adjacent regions for November 1999



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



Earthquakes located worldwide in November 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

DECEMBER 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	11	05.8&	57.833	N	153.477	W	32						7	KODIAK ISLAND REGION. <AEIC>. ML 2.8 (AEIC).
01	03	54	15.6	4.885	S	129.573	E	182		5.2			1.2	73	BANDA SEA
01	04	02	52.4	45.935	N	9.592	E	10	G				0.7	38	NORTHERN ITALY. ML 2.8 (LDG), 2.6 (STR).
01	05	29	12.8	2.945	N	126.686	E	55	D	5.4			1.1	89	NORTHERN MOLUCCA SEA
01	09	18	54.1?	7.14	N	83.91	W	33	N	4.3			1.5	12	OFF COAST OF COSTA RICA
01	10	37	08.8&	31.748	S	71.834	W	28						11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
01	10	57	13.3&	44.340	N	7.600	E	2	G					5	NORTHERN ITALY. <STR>. ML 1.9 (STR).
01	11	18	18.5*	29.336	N	141.966	E	33	N	4.9			0.9	16	SOUTH OF HONSHU, JAPAN
01	11	46	31.2*	40.098	N	77.635	E	33	N	4.2			1.2	12	KYRGYZSTAN-XINJIANG BORDER REG.
01	12	30	45.6&	32.585	S	72.876	W	28						14	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
01	13	54	29.0&	38.570	N	118.400	W	15						14	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.4 (REN). ML 2.8 (GS).
01	13	56	43.7*	30.024	N	81.444	E	33	N	4.5			1.4	27	XIZANG
01	14	25	05.4&	37.350	S	177.230	E	267						15	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
01	16	05	34.6&	58.144	N	155.956	W	122						10	ALASKA PENINSULA. <AEIC>.
01	16	39	27.0&	37.390	N	117.080	W	5						14	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN).
01	16	44	30.0&	34.851	N	116.346	W	6						37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
01	16	45	09.6*	10.614	S	166.242	E	33	N	4.8			1.0	27	SANTA CRUZ ISLANDS
01	16	59	22.8	54.512	N	162.490	E	33	N	4.5			1.2	36	NEAR EAST COAST OF KAMCHATKA
01	18	11	57.8*	4.455	N	127.192	E	33	N	4.4			1.0	7	TALAUD ISLANDS, INDONESIA
01	18	21	35.8	39.372	N	15.604	E	270		4.2			1.1	182	SOUTHERN ITALY. MD 3.9 (PDG).
01	19	01	10.2*	22.132	S	68.356	W	136	?	4.1			1.1	17	NORTHERN CHILE
01	19	11	05.9&	32.306	S	69.904	W	129						11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.5 (GUC).
01	19	23	06.0	17.647	N	82.356	W	10	G	5.8	5.8		1.2	369	CARIBBEAN SEA. Mw 6.3 (GS), 6.3 (HRV). Moment Tensor (GS): Dep 12; Principal axes (scale 10**18 Nm): (T) Val=3.16, Plg=13, Azm=309; (N) Val=-0.02, Plg=76, Azm=145; (P) Val=-3.14, Plg=4, Azm=40; Best double couple: Mo=3.1*10**18 Nm; NP1: Strike=85, Dip=78, Slip=7; NP2: Strike=354, Dip=83, Slip=168. Centroid, Moment Tensor (HRV): Centroid origin time 19:23:14.0; Lat 17.94 N; Lon 82.31 W; Dep 15.0 Bdy; Half-duration 3.3 sec; Principal axes (scale 10**18 Nm): (T) Val=3.05, Plg=8, Azm=304; (N) Val=0.20, Plg=69, Azm=56; (P) Val=-3.25, Plg=19, Azm=211; Best double couple: Mo=3.2*10**18 Nm; NP1: Strike=349, Dip=70, Slip=-172; NP2: Strike=257, Dip=82, Slip=-20.
01	20	09	33.6	4.753	S	101.991	E	33	N	4.7			1.1	31	SOUTHERN SUMATERA, INDONESIA
01	20	18	57.1&	60.355	N	152.810	W	113						8	SOUTHERN ALASKA. <AEIC>.
01	20	46	55.8&	44.477	N	112.638	W	8						29	EASTERN IDAHO. <BUT-P>. ML 3.3 (BUT).
01	21	03	31.3	2.360	N	126.741	E	72		5.1			1.1	60	NORTHERN MOLUCCA SEA
01	21	45	22.7	22.031	S	169.977	E	33	N	5.1	5.2		1.2	66	LOYALTY ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:45:25.0; Lat 21.85 S; Lon 169.91 E; Dep 37.9; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.15, Plg=17, Azm=151; (N) Val=-0.38, Plg=70, Azm=5; (P) Val=-2.77, Plg=10, Azm=244; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=288, Dip=71, Slip=5; NP2: Strike=197, Dip=86, Slip=161.
01	23	19	52.6&	60.858	N	149.180	W	33						8	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC).
02	00	37	47.5&	48.300	N	3.700	W	2						5	FRANCE. <LDG>. ML 1.8 (LDG).
02	01	31	12.0&	44.850	N	115.930	W	10	G					8	WESTERN IDAHO. <BSE-P>. ML 3.0 (BSE).
02	01	33	00.4	10.961	N	70.341	W	10	G	5.3	5.0		1.2	251	VENEZUELA. Mw 5.5 (HRV). Felt at Maracaibo. Also felt in the states of Aragua, Falcon, Miranda, Tachira and Zulia. Centroid, Moment Tensor (HRV): Centroid origin time 01:33:04.5; Lat 11.03 N; Lon 70.22 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.94, Plg=19, Azm=232; (N) Val=-0.12, Plg=62, Azm=3; (P) Val=-1.82, Plg=19, Azm=135; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=274, Dip=62, Slip=-180; NP2: Strike=184, Dip=90, Slip=-28.
02	01	54	42.1	10.961	S	164.235	E	33	N	5.0	4.7		1.0	50	SANTA CRUZ ISLANDS REGION. Mw 5.5 (HRV).

													Centroid, Moment Tensor (HRV): Centroid origin time 01:54:48.3; Lat 10.80 S; Lon 164.35 E; Dep 20.3; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.03, Plg=18, Azm=134; (N) Val=-0.73, Plg=44, Azm=242; (P) Val=-1.30, Plg=40, Azm=27; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=179, Dip=47, Slip=-161; NP2: Strike=76, Dip=76, Slip=-45.
02	02	07	50.5*	24.318	N	141.891	E	68	?	4.5	1.0	25	VOLCANO ISLANDS REGION
02	02	19	23.9&	34.152	N	117.450	W	13				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
02	02	34	41.2&	36.652	N	121.267	W	4				17	CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).
02	03	23	01.5&	36.654	N	121.270	W	4				15	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM).
02	07	04	21.4?	24.40	S	179.83	E	568	?	4.4	0.9	18	SOUTH OF FIJI ISLANDS
02	08	02	30.2&	32.477	S	71.702	W	24				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
02	08	24	41.0&	32.433	S	71.706	W	30				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
02	08	26	09.1?	17.77	S	167.98	E	33	N	4.5	1.3	12	VANUATU ISLANDS
02	09	28	59.4&	38.130	S	176.070	E	288				11	NORTH ISLAND, NEW ZEALAND. <WEL>.
02	10	29	47.7	17.809	N	81.911	W	10	G	5.0 4.2	1.1	142	CARIBBEAN SEA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:29:53.2; Lat 18.24 N; Lon 82.39 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.02, Plg=39, Azm=110; (N) Val=-0.57, Plg=44, Azm=254; (P) Val=-8.45, Plg=19, Azm=4; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=139, Dip=47, Slip=162; NP2: Strike=241, Dip=77, Slip=44.
02	11	00	40.3	44.993	N	8.638	E	10	G		0.9	32	NORTHERN ITALY. ML 2.8 (GEN), 2.6 (LDG).
02	12	25	09.6	8.710	N	70.267	W	33	N	4.7	0.8	91	VENEZUELA. Felt throughout the states of Barinas and Merida.
02	12	29	30.1	36.646	N	71.333	E	193	*	4.1	0.9	38	AFGHANISTAN-TAJIKISTAN BORD REG.
02	12	40	39.3	2.889	S	101.533	E	67	D	4.9	1.1	68	SOUTHERN SUMATERA, INDONESIA. Mw 5.0 (HRV). Felt (III) at Bengkulu. Centroid, Moment Tensor (HRV): Centroid origin time 12:40:37.6; Lat 3.07 S; Lon 101.43 E; Dep 84.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.82, Plg=32, Azm=138; (N) Val=-0.84, Plg=25, Azm=30; (P) Val=-2.99, Plg=47, Azm=270; Best double couple: Mo=3.4*10**16 Nm; NP1: Strike=280, Dip=27, Slip=-18; NP2: Strike=27, Dip=82, Slip=-116.
02	12	58	57.4	12.829	N	145.064	E	66	*	5.1	1.0	87	SOUTH OF MARIANA ISLANDS
02	13	47	04.6&	35.188	S	72.347	W	32				7	NEAR COAST OF CENTRAL CHILE. <GUC>.
02	16	08	11.0	0.237	S	125.206	E	50	*	4.7	1.2	33	SOUTHERN MOLUCCA SEA
02	16	39	48.2&	34.047	S	72.235	W	14				10	NEAR COAST OF CENTRAL CHILE. <GUC>.
02	16	58	17.8*	55.157	N	165.362	E	33	N	4.0	0.8	15	KOMANDORSKY ISLANDS REGION
02	17	01	26.7&	60.354	N	147.611	W	4				5	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
02	17	38	29.0*	45.656	N	141.847	E	33	N	4.3	1.0	13	HOKKAIDO, JAPAN REGION. Felt (I JMA) in the Wakkanai area.
02	17	52	02.8	45.781	N	141.831	E	33	N	4.7	1.0	34	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Wakkanai area.
02	19	19	22.4	0.164	S	124.965	E	64	*	4.7	1.2	56	SOUTHERN MOLUCCA SEA
02	19	30	38.6&	39.110	S	175.290	E	179				5	NORTH ISLAND, NEW ZEALAND. <WEL>.
02	19	49	22.4*	12.945	N	145.561	E	73	*	4.6	1.0	33	SOUTH OF MARIANA ISLANDS
02	19	50	03.8*	14.670	S	126.550	E	10	G	4.3	1.3	9	WESTERN AUSTRALIA
02	20	20	52.9	75.989	N	134.144	E	10	G	4.3	1.1	32	LAPTEV SEA
02	20	31	12.2*	5.414	S	151.432	E	88	*	4.9	0.8	21	NEW BRITAIN REGION, P.N.G.
02	20	45	44.9	21.125	N	94.457	E	83	*	4.5	0.8	55	MYANMAR
02	21	16	15.9	38.629	N	24.741	E	33	N	3.6	1.3	26	AEGEAN SEA
02	22	11	02.4*	59.542	S	25.958	W	33	N	4.7	1.3	25	SOUTH SANDWICH ISLANDS REGION
02	22	28	13.2*	59.434	S	25.805	W	33	N	4.7	1.2	26	SOUTH SANDWICH ISLANDS REGION
02	22	30	27.9	0.182	S	124.939	E	68	*	4.5	1.2	36	SOUTHERN MOLUCCA SEA
02	23	45	03.9*	31.357	S	68.277	W	90	G		1.1	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (GUC).
03	00	59	58.3*	10.276	N	126.339	E	33	N	4.6	0.7	13	PHILIPPINE ISLANDS REGION
03	01	24	51.9	20.300	S	65.227	W	354		4.3	0.9	21	SOUTHERN BOLIVIA
03	02	17	00.6&	39.680	S	174.490	E	33	N			5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.8 (WEL).
03	02	59	30.2*	1.929	S	134.262	E	33	N	4.2	0.9	11	IRIAN JAYA REGION, INDONESIA
03	04	03	23.1&	34.865	N	116.397	W	4				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
03	04	41	41.6*	0.777	N	27.708	W	10	G	4.2	1.1	18	CENTRAL MID-ATLANTIC RIDGE
03	04	46	01.5*	5.058	S	151.649	E	144	*	4.7	0.7	13	NEW BRITAIN REGION, P.N.G.
03	05	06	21.9&	40.503	N	124.231	W	27				10	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.6 (GM).
03	05	54	55.6&	34.662	N	116.340	W	2				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
03	06	41	15.6?	1.17	S	137.00	E	33	N	4.1	1.4	9	NEAR NORTH COAST OF IRIAN JAYA
03	07	04	01.1	46.050	N	14.798	E	10	G		0.2	6	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
03	07	28	03.6	4.694	N	74.663	W	10	G		1.3	12	COLOMBIA. ML 3.9 (RSNC).
03	07	40	54.8&	44.325	N	7.562	E	9				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
03	07	47	39.1?	27.56	N	53.63	E	33	N	4.4	1.5	11	SOUTHERN IRAN
03	08	20	35.7?	40.70	N	27.60	E	10	G	3.9	0.6	16	TURKEY. Felt in the Istanbul area.
03	09	33	24.8&	38.877	N	19.972	E	9				13	IONIAN SEA. <PDG>. MD 3.6 (PDG).
03	09	50	06.9*	36.326	N	71.486	E	117	*	4.4	0.9	14	AFGHANISTAN-TAJIKISTAN BORD REG.
03	11	52	45.7	30.928	S	71.390	W	65	D	4.3	1.1	43	NEAR COAST OF CENTRAL CHILE. MD 4.6 (GUC). Felt (IV) at Hurtado, Monte Patria, Ovalle and Punitaqui; (III) at Illapel and Salamanca; (II) at Copiapo.
03	12	10	23.5&	42.910	N	19.585	E	19				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
03	12	42	14.8?	14.99	S	168.37	E	33	N	4.7 4.7	1.3	28	VANUATU ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:42:19.6; Lat 15.74 S; Lon 168.29 E; Dep 45.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.50, Plg=6, Azm=157; (N) Val=0.66, Plg=82, Azm=13; (P) Val=-7.16, Plg=5, Azm=247; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=292, Dip=82, Slip=1; NP2: Strike=202, Dip=89, Slip=172.
03	13	08	46.3	16.046	N	94.405	W	88	*	3.8	1.3	20	OAXACA, MEXICO. MD 4.5 (UNM).
03	14	19	47.3&	32.215	S	71.505	W	45				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
03	16	48	09.5*	13.166	S	167.762	E	33	N	4.7	1.1	36	VANUATU ISLANDS
03	17	06	54.7	40.358	N	42.346	E	19		5.3 5.5	1.3	261	TURKEY. Mw 5.7 (GS), 5.7 (HRV). One person killed at Goresken. Six people injured, 340 houses damaged and one road closed due to a landslide in Erzurum Province. Felt at Batumi, Georgia. Felt (III) at Adler, Dagomys, Khosta and Sochi, Russia.

Moment Tensor (GS): Dep 17; Principal axes (scale 10**17 Nm): (T) Val=3.86, Plg=12, Azm=80; (N) Val=-0.06, Plg=73, Azm=215; (P) Val=-3.80, Plg=12, Azm=347; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=123, Dip=73, Slip=180; NP2: Strike=213, Dip=90, Slip=17.
Centroid, Moment Tensor (HRV): Centroid origin time 17:07:01.4; Lat 40.61 N; Lon 42.40 E; Dep 19.3 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=4.43, Plg=20, Azm=83; (N) Val=-0.92, Plg=68, Azm=290; (P) Val=-3.51, Plg=9, Azm=177; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=221, Dip=69, Slip=8; NP2: Strike=129, Dip=83, Slip=159.

03	17	50	00.9&	34.838	N	116.403	W	5				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
03	18	28	38.1*	35.686	N	140.472	E	33	N	4.0	0.7	12	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) in the epicentral area and (II JMA) in northern Chiba and southern Ibaraki Prefectures.
03	18	36	48.9	27.933	S	176.814	W	45	D	5.1	1.0	60	KERMADEC ISLANDS REGION. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 18:36:49.9; Lat 27.87 S; Lon 176.42 W; Dep 17.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.70, Plg=83, Azm=223; (N) Val=-0.73, Plg=0, Azm=133; (P) Val=-5.97, Plg=7, Azm=43; Best double couple: Mo=6.3*10**16 Nm; NP1: Strike=133, Dip=38, Slip=90; NP2: Strike=313, Dip=52, Slip=90.

03	20	06	56.7	40.305	N	42.306	E	35	*	4.6	1.0	48	TURKEY
03	20	32	38.4&	43.000	N	0.130	E	10	G			9	FRANCE. <STR>. ML 2.2 (STR), 1.8 (LDG).
03	21	24	15.4&	42.007	N	19.532	E	12				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
03	22	12	13.7	9.940	N	79.568	W	51		4.4	1.1	61	PANAMA. MD 4.5 (UPA).
03	23	58	20.0*	5.416	S	147.590	E	199	*	4.5	1.2	10	EASTERN NEW GUINEA REG., P.N.G.
04	01	29	09.2	17.010	S	72.725	W	56	*	4.5	0.9	38	NEAR COAST OF PERU. Felt (II) at Arequipa.
04	01	50	56.0&	34.354	S	70.138	W	9				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
04	02	01	34.6	57.667	N	32.580	W	10	G	4.9 5.3	1.1	129	NORTH ATLANTIC OCEAN. Mw 5.6 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 02:01:38.5; Lat 58.07 N; Lon 31.89 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.68, Plg=30, Azm=283; (N) Val=0.07, Plg=12, Azm=186; (P) Val=-2.74, Plg=57, Azm=77; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=46, Dip=19, Slip=-49; NP2: Strike=183, Dip=76, Slip=-103.

04	02	03	16.5	57.746	N	32.581	W	10	G	4.7	0.9	41	NORTH ATLANTIC OCEAN
04	02	10	17.7*	57.640	N	32.831	W	10	G	4.6	1.0	20	NORTH ATLANTIC OCEAN
04	02	11	42.5&	41.728	N	19.837	E	10				24	ALBANIA. <PDG>. MD 3.1 (PDG).
04	03	02	09.5*	0.660	N	25.146	W	10	G	4.2	1.1	20	CENTRAL MID-ATLANTIC RIDGE
04	03	14	20.9	57.657	N	32.599	W	10	G	4.6	1.0	45	NORTH ATLANTIC OCEAN
04	04	02	58.9	51.682	N	16.190	E	5	G		0.5	30	POLAND. ML 4.4 (GRF), 4.3 (FUR), 4.0 (VIE).
04	04	22	43.5&	39.760	S	174.870	E	11				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
04	05	02	29.0*	57.994	N	32.680	W	10	G	4.3	1.1	20	NORTH ATLANTIC OCEAN
04	05	04	38.3	57.705	N	32.716	W	10	G	4.5	1.0	39	NORTH ATLANTIC OCEAN
04	05	06	12.1	35.866	N	140.610	E	96	D	5.0	0.7	133	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) in eastern Ibaraki and parts of Tochigi Prefectures. Felt from Miyagi to Shizuoka Prefectures and on Hachijo-jima, Miyake-jima and O-shima.
04	05	55	06.3*	49.066	N	156.642	E	33	N	4.8	0.7	16	KURIL ISLANDS
04	06	21	06.3*	23.652	S	179.799	E	550	G	4.4	0.8	21	SOUTH OF FIJI ISLANDS
04	07	07	06.8*	46.031	N	14.328	E	10	G		1.5	5	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
04	07	45	01.4	3.282	N	128.088	E	33	N	5.8 5.2	1.0	178	NORTH OF HALMAHERA, INDONESIA. Mw 5.7 (GS), 5.6 (HRV).

Moment Tensor (GS): Dep 41; Principal axes (scale 10**17 Nm): (T) Val=3.85, Plg=83, Azm=16; (N) Val=0.29, Plg=7, Azm=184; (P) Val=-4.15, Plg=1, Azm=274; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=12, Dip=44, Slip=100; NP2: Strike=177, Dip=47, Slip=80.
Centroid, Moment Tensor (HRV): Centroid origin time 07:45:08.1; Lat 3.21 N; Lon 128.06 E; Dep 60.0; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.56, Plg=75, Azm=14; (N) Val=0.24, Plg=15, Azm=193; (P) Val=-2.80, Plg=0, Azm=284; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=28, Dip=47, Slip=111; NP2: Strike=179, Dip=47, Slip=70.

04	08	46	56.6	51.473	N	178.421	W	33	N	5.2 4.5	0.9	186	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.2 (HRV). Felt on Adak.

Centroid, Moment Tensor (HRV): Centroid origin time 08:46:59.4; Lat 51.57 N; Lon 178.29 W; Dep 32.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.03, Plg=11, Azm=288; (N) Val=2.31, Plg=26, Azm=23; (P) Val=-7.34, Plg=62, Azm=177; Best double couple: Mo=6.2*10**16 Nm; NP1: Strike=349, Dip=41, Slip=-132; NP2: Strike=219, Dip=61, Slip=-60.

04	10	37	23.5&	37.666	N	122.060	W	7				7	CENTRAL CALIFORNIA. <GM-P>. MD 2.4 (GM). Felt at Hayward.
04	11	01	49.4*	43.140	N	67.901	E	33	N	3.9	1.0	10	CENTRAL KAZAKHSTAN
04	11	32	35.6*	66.945	N	127.755	E	10	G	4.0	1.2	13	NORTHCENTRAL SIBERIA, RUSSIA
04	13	10	30.2&	34.838	N	116.402	W	5				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
04	13	34	21.0	13.827	N	120.759	E	171	?	4.8	1.0	69	MINDORO, PHILIPPINE ISLANDS
04	13	39	33.3&	33.579	S	71.418	W	45				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
04	14	13	15.8	45.672	N	15.061	E	10	G		0.6	8	NORTHWESTERN BALKAN REGION. ML 3.1 (ZAG), 2.8 (VIE).
04	14	57	47.1*	2.506	S	139.962	E	33	N	4.9	1.3	25	NEAR NORTH COAST OF IRIAN JAYA. Mw 5.4 (HRV). Felt (III) at Jayapura.

Centroid, Moment Tensor (HRV): Centroid origin time 14:57:56.3; Lat 2.42 S; Lon 139.77 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.25, Plg=38, Azm=288; (N) Val=0.42, Plg=5, Azm=22; (P) Val=-1.67, Plg=52, Azm=118; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=346, Dip=9, Slip=-127; NP2: Strike=203, Dip=83, Slip=-85.

04	15	08	58.5	3.483	S	150.850	E	33	N	4.9	1.1	38	NEW IRELAND REGION, P.N.G. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 15:09:02.3; Lat 3.48 S Fix; Lon 150.85 E Fix; Dep 33.2; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.14, Plg=8, Azm=352; (N) Val=0.10, Plg=80, Azm=208; (P) Val=-1.24, Plg=6, Azm=83; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=127, Dip=80, Slip=2; NP2: Strike=37, Dip=88, Slip=170.

04	15	18	11.5&	61.359	N	146.024	W	27				5	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
04	15	22	58.6*	3.496	S	150.339	E	33	N	4.6	1.4	14	NEW IRELAND REGION, P.N.G.
04	16	18	54.8&	44.030	N	8.719	E	3				20	NORTHERN ITALY. <GEN>. ML 2.6 (GEN), 2.6 (LDG).
04	17	06	51.0	28.500	S	71.221	W	34	D	5.5 5.2	1.0	176	NEAR COAST OF CENTRAL CHILE. Mw 5.7 (GS), 5.6 (HRV). Felt (V) at Freirina, Huasco and Vallenar; (IV) at Copiapo and La Serena; (III) at Caldera.

Moment Tensor (GS): Dep 36; Principal axes (scale 10**17 Nm): (T) Val=3.43, Plg=71, Azm=220; (N) Val=0.12, Plg=14, Azm=357; (P) Val=-3.55, Plg=13, Azm=90; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=198, Dip=35, Slip=116; NP2: Strike=348, Dip=59, Slip=73.

Centroid, Moment Tensor (HRV): Centroid origin time 17:06:59.5; Lat 28.68 S; Lon 71.81 W; Dep 63.0; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.40, Plg=62, Azm=208; (N) Val=0.70, Plg=27, Azm=6; (P) Val=-3.10, Plg=9, Azm=101; Best double couple: Mo=2.8*10**17 Nm; NP1: Strike=219, Dip=43, Slip=131; NP2: Strike=349, Dip=59, Slip=59.

04	17	38	23.0&	40.230	S	173.620	E	163				14	COOK STRAIT, NEW ZEALAND. <WEL>.
04	18	45	16.6	7.340	S	128.030	E	150	G	5.0	0.8	34	BANDA SEA
04	20	10	04.0&	38.590	N	112.190	W	1				10	UTAH. <SLC-P>. ML 2.8 (SLC).
04	22	24	01.7&	30.461	S	71.768	W	15				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
04	22	51	53.9&	41.962	N	20.076	E	24				10	ALBANIA. <PDG>. MD 2.2 (PDG).
05	00	06	43.2	29.414	N	51.763	E	33	N	4.5 4.2	1.1	76	SOUTHERN IRAN. Felt at Shiraz.
05	00	12	00.2	36.041	N	70.633	E	124	*	4.6	0.9	30	HINDU KUSH REGION, AFGHANISTAN
05	00	52	32.7	16.224	S	176.869	W	400	G	4.9	0.8	44	FIJI ISLANDS REGION
05	04	31	54.6&	32.484	S	71.527	W	39				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
05	04	36	33.2&	15.638	N	94.152	W	103				9	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
05	04	51	41.0&	43.100	N	1.000	W	2				7	PYRENEES. <LDG>. ML 2.1 (STR), 1.7 (LDG).
05	05	53	27.3*	0.105	S	125.383	E	33	N	4.1	1.5	10	SOUTHERN MOLUCCA SEA
05	05	56	22.2?	43.50	N	145.58	E	33	N		1.0	7	HOKKAIDO, JAPAN REGION. Felt (I JMA) in the Nemuro area.
05	06	10	05.3&	47.600	N	7.500	E	2				8	SWITZERLAND. <LDG>. ML 1.9 (LDG), 1.7 (STR).
05	07	01	52.4&	16.005	N	96.539	W	56				8	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
05	07	28	33.3	42.517	N	138.977	E	221		4.6	0.7	127	EASTERN SEA OF JAPAN
05	08	52	23.1	5.364	N	126.297	E	61	*	5.2 5.0	1.2	90	MINDANAO, PHILIPPINE ISLANDS. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 08:52:25.9; Lat 5.43 N; Lon 126.78 E; Dep 33.8; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.29, Plg=70, Azm=280; (N) Val=0.29, Plg=0, Azm=190; (P) Val=-1.57, Plg=20, Azm=99; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=189, Dip=25, Slip=90; NP2: Strike=10, Dip=65, Slip=90.

05	09	08	51.4	9.304	S	110.337	E	43	*	4.6	1.2	42	SOUTH OF JAWA, INDONESIA
05	09	38	51.8*	41.218	N	24.101	E	33	N		1.3	6	GREECE-BULGARIA BORDER REGION
05	11	47	31.6*	13.131	S	166.477	E	33	N	4.6	1.3	31	VANUATU ISLANDS
05	11	57	11.2&	61.215	N	150.652	W	78				8	SOUTHERN ALASKA. <AEIC>.
05	13	12	36.4	35.669	N	61.234	E	64	D	5.1	0.8	144	TURKMENISTAN-AFGHANISTAN BRD REG. Mw 5.0 (HRV). Felt at Salehabad, Iran.

Centroid, Moment Tensor (HRV): Centroid origin time 13:12:34.3; Lat 35.91 N; Lon 61.50 E; Dep 20.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.92, Plg=74, Azm=113; (N) Val=-1.32, Plg=14, Azm=270; (P) Val=-2.60, Plg=6, Azm=2; Best double couple: Mo=3.3*10**16 Nm; NP1: Strike=107, Dip=41, Slip=112; NP2: Strike=259, Dip=53, Slip=72.

05	13	39	03.4&	38.824	N	122.788	W	4				26	NORTHERN CALIFORNIA. <GM-P>. MD 3.5 (GM). ML 3.5 (BRK).
05	13	44	36.1*	50.377	N	18.850	E	5	G		1.4	5	POLAND. MG 2.7 (WAR).
05	15	49	06.9&	63.004	N	150.854	W	61				9	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.7 (PMR).
05	16	10	39.3	29.554	N	51.642	E	33	N	4.2	0.8	28	SOUTHERN IRAN
05	16	21	51.2	57.812	N	32.728	W	10	G	5.0 5.3	1.1	162	NORTH ATLANTIC OCEAN. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:21:57.3; Lat 57.74 N; Lon 32.40 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.75, Plg=13, Azm=281; (N) Val=-0.03, Plg=9, Azm=13; (P) Val=-1.72, Plg=74, Azm=138; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=359, Dip=33, Slip=-107; NP2: Strike=199, Dip=59, Slip=-79.

05	17	10	57.6*	24.264	N	125.103	E	33	N		1.3	10	SOUTHWESTERN RYUKYU ISLANDS
05	17	47	17.9*	1.386	S	89.075	E	10	G	4.2	1.1	15	SOUTH INDIAN OCEAN
05	19	35	46.5?	43.55	N	129.02	W	10	G		0.4	30	OFF COAST OF OREGON
05	19	36	39.5&	42.009	N	20.404	E	24				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).
05	19	52	26.0*	34.109	S	72.528	W	56	*		0.8	23	NEAR COAST OF CENTRAL CHILE. MD 4.4 (GUC).
05	20	38	04.3?	46.95	S	13.48	W	10	G	4.6	1.3	9	SOUTHERN MID-ATLANTIC RIDGE
05	22	00	34.0	29.920	N	138.689	E	449	D	5.7	0.8	386	SOUTH OF HONSHU, JAPAN. Mw 5.7 (GS), 5.7 (HRV). Felt (I JMA) from Chiba to Miyagi Prefectures. Also felt (I JMA) on Hachijo-jima.

Moment Tensor (GS): Dep 415; Principal axes (scale 10**17 Nm): (T) Val=4.24, Plg=23, Azm=44; (N) Val=0.00, Plg=40, Azm=154; (P) Val=-4.24, Plg=42, Azm=292; Best double couple: Mo=4.2*10**17 Nm; NP1: Strike=87, Dip=42, Slip=-163; NP2: Strike=344, Dip=78, Slip=-49.

Centroid, Moment Tensor (HRV): Centroid origin time 22:00:34.8; Lat 29.89 N; Lon 138.75 E; Dep 427.0; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.91, Plg=31, Azm=51; (N) Val=0.35, Plg=41, Azm=173; (P) Val=-4.26, Plg=33, Azm=298; Best double couple:

Mo=4.1*10**17 Nm; NP1: Strike=85, Dip=41, Slip=-178; NP2: Strike=354, Dip=89, Slip=-49.

05 22 14 37.7* 40.677 N 42.516 E 10 G 4.6 1.1 13 TURKEY
05 22 28 08.6* 36.624 N 141.392 E 44 D 1.3 12 NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in Ibaraki, Tochigi and eastern Fukushima Prefectures.
05 22 44 16.5* 24.013 S 66.949 W 199 * 4.8 0.8 9 SALTA PROVINCE, ARGENTINA
05 22 53 57.1* 36.446 N 71.543 E 103 ? 4.5 1.4 27 AFGHANISTAN-TAJIKISTAN BORD REG.
06 00 25 00.0& 8.610 S 114.700 E 31 4 BALI REGION, INDONESIA. <DJA>.
06 00 44 20.7& 8.860 S 114.500 E 111 4 BALI REGION, INDONESIA. <DJA>.
06 01 28 30.1 35.768 N 22.099 E 33 N 3.7 0.8 13 CENTRAL MEDITERRANEAN SEA
06 01 45 34.4 55.041 N 165.484 E 58 D 4.6 1.0 66 KOMANDORSKY ISLANDS REGION
06 02 53 06.3* 4.421 N 78.727 W 33 N 4.4 1.3 17 SOUTH OF PANAMA. MD 4.2 (UPA).
06 04 41 52.4 46.483 N 10.761 E 10 G 1.0 33 NORTHERN ITALY. ML 2.7 (STR), 2.6 (VIE), 2.5 (LDG).
06 05 01 11.4& 33.316 S 71.848 W 30 13 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
06 05 44 42.5& 34.069 S 72.141 W 45 7 NEAR COAST OF CENTRAL CHILE. <GUC>.
06 07 33 11.1 42.629 N 76.322 E 21 D 5.3 4.9 1.0 159 LAKE ISSYK-KUL REGION. Mw 5.2 (HRV). Felt at Almaty, Kazakhstan.
Centroid, Moment Tensor (HRV): Centroid origin time 07:33:15.2; Lat 42.75 N; Lon 76.25 E; Dep 32.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.45, Plg=81, Azm=12; (N) Val=0.82, Plg=5, Azm=244; (P) Val=-7.27, Plg=7, Azm=153; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=237, Dip=38, Slip=81; NP2: Strike=68, Dip=52, Slip=97.
06 07 34 27.4& 17.483 N 94.420 W 230 11 CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
06 08 17 28.9* 42.716 N 76.450 E 22 D 4.4 1.0 14 LAKE ISSYK-KUL REGION
06 08 58 06.4* 23.962 S 66.669 W 216 * 0.8 7 JUJUY PROVINCE, ARGENTINA
06 09 58 00.1 28.467 S 71.505 W 33 N 4.6 1.5 30 NEAR COAST OF CENTRAL CHILE
06 10 04 06.2? 6.27 S 148.29 E 72 ? 4.6 1.0 10 NEW BRITAIN REGION, P.N.G.
06 10 14 02.1? 25.28 N 122.96 E 195 ? 4.3 0.6 10 TAIWAN REGION
06 10 31 49.4* 43.660 N 147.073 E 69 * 4.2 1.0 13 KURIL ISLANDS
06 10 48 46.1& 34.424 N 116.201 W 1 29 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
06 11 04 44.4& 42.538 N 19.277 E 19 6 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.6 (PDG).
06 11 24 02.0& 10.907 N 62.224 W 55 5 NEAR COAST OF VENEZUELA. <TRN>. MD 2.7 (TRN).
06 13 01 00.9& 42.558 N 19.215 E 17 8 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.4 (PDG).
06 13 17 21.4& 33.322 S 69.828 W 126 14 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
06 13 19 11.1& 61.059 N 152.092 W 144 6 SOUTHERN ALASKA. <AEIC>.
06 13 43 09.8 1.986 S 134.441 E 33 N 4.8 1.2 29 IRIAN JAYA REGION, INDONESIA
06 14 20 03.2* 35.049 N 111.469 W 5 G 1.1 7 EASTERN ARIZONA. ML 2.7 (GS). Felt at Mountainaire and in the Flagstaff area.
06 14 25 46.4? 51.50 N 175.04 E 33 N 1.6 7 RAT ISLANDS, ALEUTIAN ISLANDS
06 16 35 49.6* 5.328 N 126.538 E 33 N 4.2 1.3 13 MINDANAO, PHILIPPINE ISLANDS
06 17 08 12.3? 36.49 N 70.54 E 187 ? 1.0 8 HINDU KUSH REGION, AFGHANISTAN
06 17 18 03.2 3.266 S 142.961 E 33 N 4.5 1.2 45 NEAR N COAST OF NEW GUINEA, PNG.
06 18 14 31.0* 24.898 N 122.368 E 100 G 1.0 11 TAIWAN REGION. Felt (III JMA) in southeastern I-lan County, (II JMA) at I-lan and (I JMA) at Taipei.
06 18 51 34.6 27.428 N 128.153 E 86 * 3.9 0.5 14 RYUKYU ISLANDS. Felt (I JMA) in northern Okinawa and on Okinoerabu-jima.
06 19 14 17.7* 7.100 S 128.685 E 33 N 1.4 7 BANDA SEA
06 19 17 44.7& 60.017 N 151.921 W 25 5 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
06 20 08 33.0* 34.544 N 33.059 E 33 N 1.1 8 CYPRUS REGION
06 20 12 24.7 32.247 N 40.182 W 10 G 4.6 0.8 30 NORTHERN MID-ATLANTIC RIDGE
06 20 32 02.4& 59.742 N 152.746 W 82 3.6 21 SOUTHERN ALASKA. <AEIC>.
06 21 15 42.0* 39.429 N 72.572 E 10 G 0.7 5 KYRGYZSTAN
06 22 29 54.3 37.011 N 27.491 E 10 G 4.0 0.9 24 TURKEY
06 23 12 33.9 57.413 N 154.489 W 66 D 6.8 1.2 527 KODIAK ISLAND REGION. Mw 7.0 (GS), 7.0 (HRV). Me 7.0 (GS). ML 7.0 (AEIC), 6.7 (PMR). Slight damage (VI) at Larsen Bay and Old Harbor. Felt strongly at Akhiok and Kodiak. Felt (III) at Homer and Chignik; (II) at Anchorage, Palmer and Willow. Also felt at Dillingham, Eagle River, Fairbanks, Kasilof, Nelson Lagoon and Nikiski.
Broadband Source Parameters (GS): Dep 52; NP1: Strike=250, Dip=85, Slip=-81; NP2: Strike=9, Dip=10, Slip=-151; Radiated energy 7.8*10**14 Nm.
Moment Tensor (GS): Dep 61; Principal axes (scale 10**19 Nm): (T) Val=3.53, Plg=19, Azm=314; (N) Val=-0.53, Plg=69, Azm=108; (P) Val=-3.00, Plg=8, Azm=221; Best double couple: Mo=3.3*10**19 Nm; NP1: Strike=356, Dip=71, Slip=172; NP2: Strike=88, Dip=83, Slip=20.
Centroid, Moment Tensor (HRV): Centroid origin time 23:12:39.6; Lat 57.35 N; Lon 154.35 W; Dep 54.1; Half-duration 7.8 sec; Principal axes (scale 10**19 Nm): (T) Val=3.70, Plg=19, Azm=316; (N) Val=-0.46, Plg=63, Azm=87; (P) Val=-3.25, Plg=19, Azm=219; Best double couple: Mo=3.5*10**19 Nm; NP1: Strike=357, Dip=63, Slip=-180; NP2: Strike=267, Dip=90, Slip=-27.
06 23 22 55.5 57.363 N 154.401 W 50 D 5.6 0.8 183 KODIAK ISLAND REGION. ML 5.5 (PMR), 5.4 (AEIC). Felt (IV) at Kodiak.
06 23 31 28.4& 57.328 N 154.216 W 0 4 KODIAK ISLAND REGION. <AEIC>. ML 3.8 (AEIC).
07 00 09 23.8* 57.267 N 154.378 W 33 N 0.8 8 KODIAK ISLAND REGION. ML 3.5 (AEIC).
07 00 19 49.6 57.362 N 154.514 W 41 6.5 6.1 1.0 478 KODIAK ISLAND REGION. Mw 6.4 (GS), 6.4 (HRV). Me 6.4 (GS). ML 6.3 (PMR), 6.1 (AEIC). Felt at Anchorage, Ekwok, Homer, King Salmon, Kodiak and Old Harbor.
Broadband Source Parameters (GS): Dep 45; NP1: Strike=0, Dip=10, Slip=-165; NP2: Strike=255, Dip=87, Slip=-80; Radiated energy 9.7*10**13 Nm.
Moment Tensor (GS): Dep 46; Principal axes (scale 10**18 Nm): (T) Val=5.90, Plg=35, Azm=319; (N) Val=-1.99, Plg=31, Azm=73; (P) Val=-3.92, Plg=40, Azm=193; Best double couple: Mo=4.9*10**18 Nm; NP1: Strike=349, Dip=31, Slip=-175; NP2: Strike=255, Dip=87, Slip=-59.
Centroid, Moment Tensor (HRV): Centroid origin time 00:19:52.7; Lat 57.22 N; Lon 154.38 W; Dep 48.0 Bdy; Half-

duration 3.7 sec; Principal axes (scale 10**18 Nm): (T) Val=4.94, Plg=25, Azm=308; (N) Val=0.10, Plg=34, Azm=57; (P) Val=-5.05, Plg=45, Azm=190; Best double couple: Mo=5.0*10**18 Nm; NP1: Strike=350, Dip=37, Slip=-161; NP2: Strike=245, Dip=79, Slip=-55.

07	00	26	17.4	57.447	N	154.661	W	44	D	4.8		0.8	45	KODIAK ISLAND REGION
07	00	33	47.2*	57.135	N	154.410	W	33	N			1.4	13	KODIAK ISLAND REGION. ML 4.1 (PMR), 3.9 (AEIC).
07	00	41	30.2	57.428	N	154.398	W	46	D	4.4		0.9	70	KODIAK ISLAND REGION. ML 4.6 (PMR), 4.5 (AEIC).
07	00	51	25.5	57.346	N	154.112	W	51		4.4		0.9	23	KODIAK ISLAND REGION. ML 4.3 (PMR), 4.0 (AEIC).
07	01	25	36.2&	56.848	N	154.383	W	70					4	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
07	01	29	33.1&	57.029	N	154.427	W	56					4	KODIAK ISLAND REGION. <AEIC>. ML 3.3 (AEIC).
07	01	51	30.4&	57.174	N	154.321	W	39					5	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
07	02	13	46.8	57.358	N	154.179	W	54	D	4.5		0.9	35	KODIAK ISLAND REGION. ML 4.4 (PMR), 4.3 (AEIC).
07	02	25	49.5&	57.223	N	154.301	W	44					13	KODIAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC), 3.8 (PMR).
07	02	35	48.1	32.300	N	40.185	W	10	G	4.7	4.9	0.9	72	NORTHERN MID-ATLANTIC RIDGE
07	02	54	36.3	9.673	N	57.152	E	10	G	4.6		0.6	27	CARLSBERG RIDGE
07	03	25	17.0&	57.185	N	154.444	W	34					5	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
07	04	32	16.0*	5.295	S	146.962	E	182	*	4.5		0.8	9	EASTERN NEW GUINEA REG., P.N.G.
07	04	33	10.5*	51.076	N	15.710	E	5	G			0.1	5	POLAND. ML 2.9 (VIE).
07	04	59	24.2&	57.233	N	154.157	W	50					5	KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
07	05	00	25.0&	57.260	N	154.264	W	23					5	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
07	05	31	39.1	36.510	N	70.436	E	215	*	4.5		1.0	27	HINDU KUSH REGION, AFGHANISTAN
07	05	35	58.0&	75.380	N	120.440	W	18	G	5.0	4.3		175	QUEEN ELIZABETH ISLANDS, CANADA. <OTT>. ML 5.7 (OTT).
07	05	39	17.0&	44.400	N	6.400	E	2					32	FRANCE. <LDG>. ML 2.6 (LDG), 2.4 (STR).
07	05	41	17.1?	37.98	S	177.44	E	33	N	4.7		1.2	10	OFF E. COAST OF N. ISLAND, N.Z.
07	06	19	38.2&	44.503	N	7.247	E	11					5	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
07	06	34	51.6&	43.070	N	1.210	W	10					4	PYRENEES. <STR>. ML 2.1 (STR).
07	07	05	10.7*	4.482	S	103.350	E	97	?	4.7		1.1	20	SOUTHERN SUMATERA, INDONESIA
07	08	54	45.3	6.004	S	148.505	E	77	*	4.6		1.0	18	NEW BRITAIN REGION, P.N.G.
07	09	21	57.4&	57.280	N	154.082	W	50					5	KODIAK ISLAND REGION. <AEIC>. ML 2.8 (AEIC).
07	09	29	03.8&	57.347	N	154.091	W	59					4	KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
07	09	29	38.0&	33.847	S	70.527	W	102					9	CHILE-ARGENTINA BORDER REGION. <GUC>.
07	12	09	40.4*	12.593	N	95.136	E	33	N	5.0		1.3	20	ANDAMAN ISLANDS, INDIA
07	12	31	44.7	16.138	S	173.370	W	33	N	4.6		0.8	35	TONGA ISLANDS
07	13	09	11.3*	40.187	N	42.113	E	33	N	4.1		1.4	17	TURKEY
07	13	52	03.1*	20.423	S	178.051	W	566	?	4.9		0.8	36	FIJI ISLANDS REGION
07	13	53	49.8&	19.246	N	98.918	W	4					15	CENTRAL MEXICO. <UNM>. MD 3.3 (UNM).
07	14	03	25.8&	57.407	N	154.051	W	43					8	KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
07	14	49	34.1	17.547	N	101.363	W	33	N	4.7	4.0	1.2	90	NEAR COAST OF GUERRERO, MEXICO. MD 4.8 (UNM).
07	15	01	43.8&	44.694	N	7.222	E	13					8	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
07	15	12	33.3	57.285	N	154.228	W	33	N			1.1	18	KODIAK ISLAND REGION. ML 3.9 (PMR), 3.6 (AEIC). Felt at Larsen Bay.
07	15	24	05.2&	57.034	N	154.143	W	76					4	KODIAK ISLAND REGION. <AEIC>.
07	17	16	33.8&	57.353	N	154.226	W	34					15	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
07	17	43	47.3	57.506	N	154.300	W	56	D	4.5		0.9	63	KODIAK ISLAND REGION. ML 4.6 (PMR), 4.3 (AEIC). Felt at Larsen Bay.
07	18	42	29.8&	57.280	N	154.327	W	75					4	KODIAK ISLAND REGION. <AEIC>.
07	19	23	31.3*	34.591	N	99.722	E	33	N			1.1	14	QINGHAI, CHINA
07	20	26	25.0&	57.200	N	154.362	W	32					8	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
07	21	29	42.4	15.871	S	174.137	W	120	?	5.4		1.2	250	TONGA ISLANDS
07	21	29	49.2	15.911	S	173.984	W	138	D	6.2		0.8	255	TONGA ISLANDS. Mw 6.4 (GS), 6.4 (HRV). Me 6.4 (GS).

Broadband Source Parameters (GS): Dep 138; NP1: Strike=315, Dip=80, Slip=120; NP2: Strike=62, Dip=31, Slip=19; Radiated energy 1.0*10**14 Nm. A small low-frequency event is followed about 5 seconds later by a larger event. Depths of 138 and 133 km, respectively.

Moment Tensor (GS): Dep 135; Principal axes (scale 10**18 Nm): (T) Val=4.06, Plg=58, Azm=231; (N) Val=-0.03, Plg=4, Azm=136; (P) Val=-4.03, Plg=32, Azm=43; Best double couple: Mo=4.0*10**18 Nm; NP1: Strike=120, Dip=13, Slip=74; NP2: Strike=316, Dip=77, Slip=94.

Centroid, Moment Tensor (HRV): Centroid origin time 21:29:55.2; Lat 15.75 S; Lon 173.62 W; Dep 148.6; Half-duration 3.9 sec; Principal axes (scale 10**18 Nm): (T) Val=4.64, Plg=55, Azm=239; (N) Val=-0.50, Plg=11, Azm=133; (P) Val=-4.13, Plg=33, Azm=36; Best double couple: Mo=4.4*10**18 Nm; NP1: Strike=90, Dip=16, Slip=46; NP2: Strike=315, Dip=79, Slip=101.

07	21	58	16.0&	33.806	N	117.719	W	11					35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS). Felt at Aliso Viejo, Anaheim, Bellflower, Brea, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Huntington Beach, Irvine, Laguna Beach, Laguna Niguel, La Habra, Newport Beach, Norco, Orange, Santa Ana, Trabuco, Trabuco Canyon, Tustin and Yorba Linda. Felt in Los Angeles, Orange and Riverside Counties.
07	22	08	01.2&	43.400	N	0.700	W	5					19	PYRENEES. <LDG>. ML 2.6 (LDG), 2.3 (STR).
07	22	15	51.7&	57.242	N	154.339	W	30					4	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
07	23	02	23.5	3.613	N	126.537	E	33	N	4.9		0.7	40	TALAUD ISLANDS, INDONESIA
08	00	44	22.5	36.446	N	70.896	E	191		4.8		0.9	183	HINDU KUSH REGION, AFGHANISTAN
08	01	04	11.3*	6.255	S	148.973	E	33	N	4.2		0.7	8	NEW BRITAIN REGION, P.N.G. ML 4.3 (PMG).
08	01	46	40.1*	58.013	S	25.347	W	33	N	4.2		1.0	16	SOUTH SANDWICH ISLANDS REGION
08	03	14	29.1	9.997	S	74.464	W	78	D	4.7		1.0	39	CENTRAL PERU. Felt (III) at Oxapampa and Satipo; (II) at La Merced.
08	03	35	48.1&	29.300	N	34.800	E	5					14	EGYPT. <GII>. ML 4.0 (GII).
08	06	19	50.9*	8.309	N	103.611	W	10	G	4.5		1.1	40	OFF COAST OF MEXICO
08	07	01	13.4&	57.191	N	154.316	W	55					4	KODIAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
08	07	35	54.0&	34.860	N	116.340	W	6	G				49	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
08	07	44	33.6	4.341	S	139.108	E	133		4.6		1.2	36	IRIAN JAYA, INDONESIA
08	09	38	17.2*	24.572	S	179.505	E	567	?	4.2		0.6	24	SOUTH OF FIJI ISLANDS
08	10	29	17.3	6.073	N	126.463	E	33	N	5.5	5.0	1.0	132	MINDANAO, PHILIPPINE ISLANDS. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 10:29:21.2; Lat 6.09 N; Lon 126.55 E; Dep 51.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)

Val=1.14, Plg=73, Azm=52; (N) Val=-0.01, Plg=14, Azm=195; (P) Val=-1.13, Plg=10, Azm=288; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=34, Dip=37, Slip=114; NP2: Strike=186, Dip=56, Slip=73.

08	10	32	09.0*	4.986	S	103.352	E	33	N	5.0	1.4	36	SOUTHERN SUMATERA, INDONESIA. Felt (III) at Liwa.
08	10	53	59.5&	34.043	N	117.246	W	15				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt at Pedley and Riverside.
08	11	14	18.5*	7.853	S	107.426	E	33	N	4.6	1.2	35	JAWA, INDONESIA
08	11	34	58.8&	44.312	N	7.195	E	8				6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
08	12	17	40.4	51.301	N	15.761	E	5	G		0.9	14	POLAND. ML 3.5 (VIE), 3.0 (CLL).
08	12	53	46.8*	5.914	N	126.475	E	33	N	4.3	1.3	12	MINDANAO, PHILIPPINE ISLANDS
08	13	33	53.6*	8.601	N	137.962	E	33	N	4.7	1.0	19	WESTERN CAROLINE ISLANDS
08	13	34	44.6	9.843	S	159.965	E	33	N	5.5 6.0	1.3	117	SOLOMON ISLANDS. Mw 6.1 (HRV), 6.0 (GS). Felt (III) at Honiara.

Moment Tensor (GS): Dep 15; Principal axes (scale 10**17 Nm): (T) Val=9.39, Plg=20, Azm=124; (N) Val=0.29, Plg=57, Azm=1; (P) Val=-9.67, Plg=26, Azm=224; Best double couple: Mo=9.5*10**17 Nm; NP1: Strike=262, Dip=57, Slip=-5; NP2: Strike=355, Dip=86, Slip=-147.

Centroid, Moment Tensor (HRV): Centroid origin time 13:34:48.1; Lat 9.89 S; Lon 160.22 E; Dep 21.0 Fix; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=1.86, Plg=26, Azm=132; (N) Val=-0.24, Plg=60, Azm=348; (P) Val=-1.62, Plg=15, Azm=230; Best double couple: Mo=1.7*10**18 Nm; NP1: Strike=273, Dip=60, Slip=8; NP2: Strike=179, Dip=83, Slip=150.

08	13	59	30.5?	46.06	N	14.79	E	10	G		0.2	4	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
08	14	15	03.9*	4.318	N	96.460	E	33	N	4.5	1.5	13	NORTHERN SUMATERA, INDONESIA
08	14	38	31.7	9.727	S	159.971	E	33	N	5.0 5.2	0.7	42	SOLOMON ISLANDS
08	14	48	00.5&	40.755	N	124.404	W	22				9	NEAR COAST OF NORTHERN CALIF. <GM-P>. ML 3.2 (GM), 3.2 (BRK).
08	15	20	06.8?	12.75	N	89.53	W	33	N	4.2	1.3	27	OFF COAST OF CENTRAL AMERICA
08	16	01	26.5&	24.560	N	121.680	E	43				6	TAIWAN. <TAP>. Felt (III JMA) in the epicentral area and (I JMA) at I-lan and Taipei.
08	16	02	57.9?	5.23	S	152.98	E	33	N	4.5	1.3	7	NEW BRITAIN REGION, P.N.G.
08	17	05	12.4	6.011	N	126.314	E	59	*	5.3	1.0	93	MINDANAO, PHILIPPINE ISLANDS. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 17:05:13.9; Lat 5.95 N; Lon 126.51 E; Dep 63.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.43, Plg=83, Azm=358; (N) Val=2.80, Plg=6, Azm=206; (P) Val=-7.23, Plg=3, Azm=116; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=199, Dip=42, Slip=80; NP2: Strike=32, Dip=49, Slip=99.

08	17	33	46.8*	26.508	S	74.418	E	10	G	4.7	1.0	12	MID-INDIAN RIDGE
08	19	21	57.3&	57.048	N	154.243	W	22				9	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC). Felt at Karluk.
08	19	40	26.0	46.062	N	14.323	E	10	G		0.4	9	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).
08	20	15	37.1*	14.256	N	94.121	W	33	N		1.2	8	OFF COAST OF CHIAPAS, MEXICO
08	20	28	03.7*	51.558	N	16.316	E	5	G		0.7	11	POLAND. ML 3.3 (VIE).
08	21	11	43.2	29.996	N	68.199	E	33	N	4.6 4.5	1.0	51	PAKISTAN
08	22	01	13.0	18.552	N	104.776	W	33	N	4.6	1.2	77	NEAR COAST OF JALISCO, MEXICO. MD 4.7 (UNM).
08	23	11	23.8	57.477	N	154.463	W	50		4.6	1.1	81	KODIAK ISLAND REGION. ML 4.7 (PMR), 4.6 (AEIC). Felt at Larsen Bay.
08	23	27	29.4*	34.329	N	46.395	E	33	N	3.5	0.8	7	WESTERN IRAN
09	02	04	45.1*	16.468	N	121.113	E	33	N	4.5	0.6	15	LUZON, PHILIPPINE ISLANDS
09	02	15	02.0	55.035	N	165.532	E	33	N	4.1	0.6	13	KOMANDORSKY ISLANDS REGION
09	02	24	27.8*	54.860	N	165.823	E	33	N	4.1	1.0	13	KOMANDORSKY ISLANDS REGION
09	02	32	08.4	46.056	N	14.337	E	10	G		0.6	9	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 2.0 (LJU).
09	03	00	33.9	37.129	N	24.312	W	10	G	4.9 4.4	1.0	134	AZORES ISLANDS REGION
09	03	09	21.7&	47.190	N	0.280	E	2	G			24	FRANCE. <STR>. ML 3.0 (LDG), 2.9 (STR).
09	03	46	14.6&	57.274	N	154.397	W	78				4	KODIAK ISLAND REGION. <AEIC>.
09	03	51	42.6	54.983	N	165.579	E	33	N	4.4	0.8	37	KOMANDORSKY ISLANDS REGION
09	04	06	27.5&	60.975	N	150.882	W	60				16	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.2 (AEIC), 3.4 (PMR).
09	04	08	41.5	54.934	N	165.735	E	33	N	4.0	0.7	16	KOMANDORSKY ISLANDS REGION
09	04	19	55.8*	55.308	N	165.357	E	33	N	4.2	1.0	14	KOMANDORSKY ISLANDS REGION
09	04	20	30.7	5.125	S	130.323	E	33	N	4.4	1.3	15	BANDA SEA
09	04	53	39.5&	19.202	N	98.922	W	3				4	CENTRAL MEXICO. <UNM>. MD 2.9 (UNM).
09	05	11	02.8	42.958	N	127.314	W	10	G	4.4	1.0	87	OFF COAST OF OREGON
09	05	13	17.2	17.768	S	178.954	W	675	?	4.5	0.4	50	FIJI ISLANDS REGION
09	06	29	56.9	7.106	S	148.852	E	33	N	4.8	1.0	32	EASTERN NEW GUINEA REG., P.N.G. ML 4.8 (PMG).
09	06	58	22.7&	16.269	N	94.736	W	150				5	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
09	08	34	10.0	34.556	S	106.943	W	10	G	5.1 4.9	0.8	75	SOUTHERN EAST PACIFIC RISE. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 08:34:11.1; Lat 35.18 S; Lon 107.08 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=1.24, Plg=0, Azm=236; (N) Val=0.11, Plg=90, Azm=180; (P) Val=-1.35, Plg=0, Azm=146; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=281, Dip=90, Slip=-180; NP2: Strike=11, Dip=90, Slip=0.

09	10	18	17.1	6.028	S	148.144	E	58	D	5.7 6.0	1.1	178	NEW BRITAIN REGION, P.N.G. Mw 6.4 (HRV), 6.3 (GS). Me 5.6 (GS).

Broadband Source Parameters (GS): Dep 43; NP1: Strike=95, Dip=55, Slip=90; NP2: Strike=275, Dip=35, Slip=90; Radiated energy 5.7*10**12 Nm.

Moment Tensor (GS): Dep 40; Principal axes (scale 10**18 Nm): (T) Val=3.52, Plg=80, Azm=18; (N) Val=-0.94, Plg=4, Azm=263; (P) Val=-2.58, Plg=9, Azm=172; Best double couple: Mo=3.1*10**18 Nm; NP1: Strike=257, Dip=36, Slip=83; NP2: Strike=86, Dip=54, Slip=95.

Centroid, Moment Tensor (HRV): Centroid origin time 10:18:26.6; Lat 6.32 S; Lon 148.43 E; Dep 44.0 Bdy; Half-duration 3.9 sec; Principal axes (scale 10**18 Nm): (T) Val=3.98, Plg=76, Azm=352; (N) Val=0.58, Plg=1, Azm=87; (P) Val=-4.56, Plg=14, Azm=177; Best double couple: Mo=4.3*10**18 Nm; NP1: Strike=269, Dip=31, Slip=93; NP2:

Strike=86, Dip=59, Slip=88.

09 10 29 45.1* 9.801 N 122.229 E 33 N 4.8 0.8 10 NEGROS, PHILIPPINE ISLANDS
09 11 06 44.0& 38.140 N 118.410 W 11 24 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.5 (GS).
09 12 33 11.9 59.938 N 147.862 W 33 N 4.6 1.0 56 GULF OF ALASKA. ML 4.7 (PMR), 4.5 (AEIC). Felt lightly at Seward.
09 12 35 10.9& 59.778 N 152.981 W 94 16 SOUTHERN ALASKA. <AEIC>.
09 13 35 24.8 54.958 N 165.694 E 33 N 4.7 4.7 0.9 58 KOMANDORSKY ISLANDS REGION
09 13 49 40.0* 54.982 N 165.550 E 33 N 4.6 1.1 12 KOMANDORSKY ISLANDS REGION
09 16 17 45.5* 54.951 N 165.631 E 33 N 0.9 10 KOMANDORSKY ISLANDS REGION
09 16 26 20.4 13.933 N 92.339 W 42 * 4.3 1.2 35 OFF COAST OF CHIAPAS, MEXICO. MD 4.7 (UNM).
09 16 31 32.2* 29.307 N 51.836 E 33 N 4.6 0.8 10 SOUTHERN IRAN
09 16 57 44.0* 4.144 S 127.717 E 226 ? 4.3 0.7 7 BANDA SEA
09 17 00 21.1* 5.045 S 153.398 E 96 * 4.6 0.7 14 NEW IRELAND REGION, P.N.G.
09 17 04 04.4 27.605 N 54.191 E 33 N 4.7 0.7 51 SOUTHERN IRAN
09 18 14 17.3& 59.713 N 151.753 W 43 7 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
09 18 22 09.4* 3.143 S 128.011 E 81 ? 0.7 6 SERAM, INDONESIA
09 19 20 47.8? 52.13 N 170.92 W 33 N 1.5 10 FOX ISLANDS, ALEUTIAN ISLANDS
09 19 38 08.2& 17.637 N 98.289 W 49 8 GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
09 20 31 50.4* 8.478 S 123.941 E 150 * 4.3 1.2 14 FLORES REGION, INDONESIA
09 21 27 09.8& 43.735 N 7.787 E 7 9 NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN).
09 22 20 34.8 36.515 N 53.534 E 10 G 4.8 4.0 1.2 63 NORTHERN IRAN
09 23 53 28.9 17.315 S 6.404 W 10 G 4.7 1.0 28 SOUTH ATLANTIC OCEAN
10 01 22 02.6& 19.237 N 98.927 W 7 7 CENTRAL MEXICO. <UNM>. MD 3.1 (UNM).
10 01 55 19.9? 36.16 N 140.49 E 106 ? 0.5 9 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in eastern Gumma; (I JMA) in eastern Fukushima, eastern Saitama, western Tochigi and parts of Ibaraki Prefectures.
10 02 11 46.7 36.256 N 71.226 E 115 D 5.3 1.1 179 AFGHANISTAN-TAJIKISTAN BORD REG. Mw 5.4 (GS), 5.3 (HRV).
Moment Tensor (GS): Dep 113; Principal axes (scale 10**17 Nm): (T) Val=1.11, Plg=53, Azm=34; (N) Val=0.14, Plg=37, Azm=224; (P) Val=-1.25, Plg=5, Azm=131; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=188, Dip=52, Slip=40; NP2: Strike=70, Dip=60, Slip=134.
Centroid, Moment Tensor (HRV): Centroid origin time 02:11:48.1; Lat 36.06 N; Lon 71.07 E; Dep 117.6; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.98, Plg=52, Azm=50; (N) Val=0.07, Plg=38, Azm=242; (P) Val=-1.06, Plg=5, Azm=147; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=204, Dip=52, Slip=38; NP2: Strike=87, Dip=61, Slip=135.
10 03 13 31.9* 42.546 N 126.378 W 10 G 3.8 1.3 18 OFF COAST OF OREGON
10 03 34 45.0 22.303 S 179.613 E 600 D 5.3 0.9 252 SOUTH OF FIJI ISLANDS. Mw 5.6 (GS), 5.6 (HRV).
Moment Tensor (GS): Dep 592; Principal axes (scale 10**17 Nm): (T) Val=3.23, Plg=13, Azm=192; (N) Val=-0.33, Plg=30, Azm=94; (P) Val=-2.89, Plg=57, Azm=303; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=316, Dip=41, Slip=-40; NP2: Strike=78, Dip=65, Slip=-124.
Centroid, Moment Tensor (HRV): Centroid origin time 03:34:49.8; Lat 22.05 S; Lon 179.85 E; Dep 611.3; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.93, Plg=15, Azm=200; (N) Val=0.47, Plg=34, Azm=100; (P) Val=-3.40, Plg=52, Azm=311; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=328, Dip=42, Slip=-34; NP2: Strike=84, Dip=68, Slip=-127.
10 06 00 26.9 56.208 N 161.803 W 163 4.2 1.1 43 ALASKA PENINSULA
10 06 10 35.4& 60.796 N 150.656 W 62 13 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC), 3.2 (PMR).
10 06 20 20.0& 43.940 N 111.080 W 0 17 EASTERN IDAHO. <BUT-P>. ML 2.8 (BUT).
10 07 58 43.5* 24.425 N 123.014 E 57 ? 1.2 8 SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Yonaguni-jima.
10 08 29 33.0& 47.720 N 7.800 E 9 4 SWITZERLAND. <FBB>. ML 2.1 (FBB).
10 08 36 42.4& 34.589 N 116.300 W 0 31 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
10 09 03 53.0& 61.449 N 146.482 W 36 3.7 33 SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 4.3 (PMR). Felt (III) at Valdez.
10 09 11 22.9 8.733 S 121.613 E 33 N 4.8 1.2 23 FLORES REGION, INDONESIA. Felt (III) at Ende. Also felt (III) at Waingapu, Sumba.
10 09 14 07.3 13.020 N 88.445 W 110 4.3 1.1 43 EL SALVADOR. MD 4.3 (CASC).
10 10 15 16.2& 34.655 N 116.286 W 6 8 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
10 10 59 34.4& 39.539 N 28.004 E 15 18 TURKEY. <ISK>. MD 3.6 (ISK).
10 11 09 04.7* 5.232 S 151.808 E 112 * 4.7 0.9 18 NEW BRITAIN REGION, P.N.G.
10 11 47 26.1& 40.711 N 30.807 E 13 6 TURKEY. <ISK>. MD 3.0 (ISK).
10 11 55 26.4 3.303 S 142.886 E 10 G 5.0 1.0 48 NEAR N COAST OF NEW GUINEA, PNG. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 11:55:26.3; Lat 3.51 S; Lon 143.37 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**16 Nm): (T) Val=7.14, Plg=11, Azm=161; (N) Val=2.24, Plg=67, Azm=279; (P) Val=-9.38, Plg=20, Azm=67; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=206, Dip=68, Slip=-173; NP2: Strike=113, Dip=84, Slip=-23.
10 12 13 02.0? 51.72 N 178.39 W 33 N 4.0 1.5 16 ANDREANOF ISLANDS, ALEUTIAN IS.
10 12 14 49.5* 3.209 S 142.976 E 10 G 4.8 1.1 8 NEAR N COAST OF NEW GUINEA, PNG.
10 12 21 33.5& 17.203 N 96.188 W 103 8 OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
10 13 42 12.6? 54.66 N 165.64 E 33 N 4.0 1.2 9 KOMANDORSKY ISLANDS REGION
10 13 45 15.5* 6.941 S 129.184 E 150 G 4.5 0.7 10 BANDA SEA
10 14 17 17.4& 62.946 N 148.399 W 60 7 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
10 14 48 11.0* 46.272 S 166.183 E 10 G 4.1 1.3 14 OFF W. COAST OF S. ISLAND, N.Z.
10 14 49 00.7 10.265 S 161.012 E 82 D 4.7 1.1 34 SOLOMON ISLANDS
10 15 22 07.8* 0.658 S 122.311 E 33 N 4.3 0.8 9 MINAHASSA PENINSULA, SULAWESI
10 15 45 38.8& 16.854 N 100.331 W 12 5 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.4 (UNM).
10 16 32 25.2 4.638 N 125.199 E 33 N 4.8 4.3 1.2 30 TALAUD ISLANDS, INDONESIA
10 16 44 32.1 42.608 N 111.283 W 5 G 0.9 27 EASTERN IDAHO. ML 3.2 (GS).
10 16 53 33.5 7.775 S 74.373 W 152 D 4.6 0.8 52 PERU-BRAZIL BORDER REGION
10 17 41 14.5 63.205 N 151.216 W 33 N 1.0 11 CENTRAL ALASKA. ML 2.9 (PMR), 2.2 (AEIC).
10 18 38 30.1 36.206 S 97.316 W 10 G 5.7 6.2 1.3 232 WEST CHILE RISE. Mw 6.5 (GS), 6.5 (HRV).
Moment Tensor (GS): Dep 13; Principal axes (scale 10**18

Nm): (T) Val=6.34, Plg=5, Azm=43; (N) Val=0.26, Plg=85, Azm=193; (P) Val=-6.61, Plg=3, Azm=312; Best double couple: Mo=6.5*10**18 Nm; NP1: Strike=87, Dip=85, Slip=179; NP2: Strike=178, Dip=89, Slip=5.
Centroid, Moment Tensor (HRV): Centroid origin time 18:38:35.4; Lat 36.38 S; Lon 97.52 W; Dep 15.0 Bdy; Half-duration 4.4 sec; Principal axes (scale 10**18 Nm): (T) Val=7.31, Plg=14, Azm=46; (N) Val=-1.02, Plg=76, Azm=230; (P) Val=-6.29, Plg=1, Azm=136; Best double couple: Mo=6.8*10**18 Nm; NP1: Strike=182, Dip=79, Slip=9; NP2: Strike=90, Dip=81, Slip=169.

10	19	02	17.7%	26.195	N	142.260	E	33	N		0.8	9	BONIN ISLANDS REGION
10	19	53	01.1?	52.90	N	168.93	W	33	N		1.4	9	FOX ISLANDS, ALEUTIAN ISLANDS
10	20	06	59.9*	36.234	S	97.422	W	10	G	5.2 4.7	1.2	41	WEST CHILE RISE
10	21	19	02.0&	38.318	N	12.047	E	10	G	3.9		45	SICILY. <ROM>. ML 3.8 (LDG), 3.5 (ROM).
10	21	19	27.7&	60.036	N	152.924	W	98				7	SOUTHERN ALASKA. <AEIC>.
10	21	30	53.6?	6.51	S	149.06	E	33	N	4.6	1.3	9	NEW BRITAIN REGION, P.N.G.
10	21	36	37.2*	29.615	S	71.249	W	75	*	4.1	1.1	18	NEAR COAST OF CENTRAL CHILE
10	22	16	56.0&	46.080	N	15.740	E	11				4	NORTHWESTERN BALKAN REGION. <ZAG>. ML 1.0 (LJU).
10	22	17	59.3*	10.859	S	78.157	W	52	D	4.6	0.9	31	NEAR COAST OF PERU. Felt (III) at Barranca, Huacho and Huarmey; (II) at Canta and Lima.
10	22	26	49.4&	18.465	N	68.004	W	119				5	MONA PASSAGE. <MPR>. MD 3.3 (MPR).
10	23	24	30.9&	45.444	N	7.587	E	14				26	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.3 (LDG).
10	23	30	07.3&	16.238	N	98.196	W	6				9	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
11	00	09	56.9&	34.571	N	116.265	W	1				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
11	00	40	36.3	30.865	S	92.844	W	10	G	5.2 4.5	0.9	88	SOUTHEAST CENTRAL PACIFIC OCEAN. Mw 5.3 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 00:40:40.2; Lat 31.21 S; Lon 93.14 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.11, Plg=14, Azm=123; (N) Val=-0.12, Plg=16, Azm=29; (P) Val=-0.99, Plg=69, Azm=253; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=234, Dip=34, Slip=-61; NP2: Strike=20, Dip=61, Slip=-108.
11	01	21	58.5&	16.570	N	94.514	W	149				5	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
11	02	55	17.1	51.089	N	179.382	W	33	N	4.9 4.4	0.9	147	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.1 (HRV). ML 5.1 (PMR).
													Centroid, Moment Tensor (HRV): Centroid origin time 02:55:20.7; Lat 51.02 N; Lon 179.10 W; Dep 48.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.74, Plg=67, Azm=96; (N) Val=-0.76, Plg=19, Azm=239; (P) Val=-3.98, Plg=13, Azm=333; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=86, Dip=36, Slip=123; NP2: Strike=228, Dip=60, Slip=69.
11	03	09	17.2?	12.99	N	90.90	W	33	N	3.3	1.2	12	OFF COAST OF CENTRAL AMERICA
11	03	45	44.4*	42.090	N	142.167	E	77	?	4.5	1.1	21	HOKKAIDO, JAPAN REGION. Felt (I JMA) in the Shizunai-Urakawa area.
11	03	47	34.3*	51.394	N	16.201	E	5	G		0.7	8	POLAND. ML 3.2 (VIE).
11	03	51	30.8&	11.665	N	42.075	E	2				5	ETHIOPIA. <ARO>. ML 4.0 (ARO).
11	05	02	06.1	9.062	N	84.089	W	37		4.5	1.2	40	COSTA RICA. MD 4.5 (CASC).
11	05	14	19.6&	15.155	N	60.479	W	30				5	LEEWARD ISLANDS. <FDF>. MD 2.8 (FDF).
11	05	34	30.4*	47.581	N	152.935	E	120	*	4.4	1.0	19	KURIL ISLANDS
11	05	44	58.5*	47.781	N	155.101	E	33	N	4.8	1.5	48	EAST OF KURIL ISLANDS
11	06	51	40.3&	18.098	N	68.078	W	49				8	MONA PASSAGE. <MPR>. MD 3.7 (MPR).
11	07	18	41.4	13.912	S	167.188	E	203	D	5.0	1.1	169	VANUATU ISLANDS. Mw 5.7 (GS), 5.7 (HRV).
													Moment Tensor (GS): Dep 190; Principal axes (scale 10**17 Nm): (T) Val=4.61, Plg=74, Azm=178; (N) Val=-0.13, Plg=15, Azm=333; (P) Val=-4.48, Plg=7, Azm=64; Best double couple: Mo=4.5*10**17 Nm; NP1: Strike=170, Dip=40, Slip=113; NP2: Strike=321, Dip=53, Slip=72.
													Centroid, Moment Tensor (HRV): Centroid origin time 07:18:46.4; Lat 13.83 S; Lon 167.03 E; Dep 195.6; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.59, Plg=64, Azm=168; (N) Val=-0.35, Plg=26, Azm=339; (P) Val=-4.24, Plg=3, Azm=71; Best double couple: Mo=4.4*10**17 Nm; NP1: Strike=186, Dip=47, Slip=126; NP2: Strike=319, Dip=54, Slip=57.
11	07	55	25.2	45.961	N	15.249	E	10	G		0.6	12	NORTHWESTERN BALKAN REGION. ML 3.3 (ZAG), 2.9 (VIE).
11	08	56	48.8&	34.858	N	116.406	W	2				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
11	09	03	45.2	36.209	S	97.398	W	10	G	5.2 4.7	0.8	66	WEST CHILE RISE
11	09	05	25.4&	17.989	N	68.093	W	58				7	MONA PASSAGE. <MPR>. MD 3.5 (MPR).
11	09	32	03.1&	47.100	N	5.800	E	2				6	FRANCE. <LDG>. ML 2.2 (LDG).
11	09	46	41.3*	24.213	N	122.822	E	67	*		1.0	9	TAIWAN REGION
11	10	15	45.1*	31.923	S	71.792	W	61	*	4.7	1.1	25	NEAR COAST OF CENTRAL CHILE. Felt (II) at La Ligua, Papudo, Santiago, Valparaiso and Vina del Mar.
11	11	28	37.4*	54.926	N	165.482	E	33	N		0.3	8	KOMANDORSKY ISLANDS REGION
11	11	49	25.6	5.524	S	131.137	E	65		5.2	1.1	73	BANDA SEA. Mw 5.0 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 11:49:29.9; Lat 5.29 S; Lon 131.29 E; Dep 91.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.57, Plg=56, Azm=312; (N) Val=-1.44, Plg=22, Azm=79; (P) Val=-3.13, Plg=24, Azm=180; Best double couple: Mo=3.8*10**16 Nm; NP1: Strike=308, Dip=29, Slip=142; NP2: Strike=72, Dip=73, Slip=67.
11	12	47	15.4&	42.980	N	0.160	E	2	G			6	PYRENEES. <STR>. ML 2.1 (LDG), 2.0 (STR).
11	12	53	40.0&	48.530	N	123.260	W	52		4.0		121	VANCOUVER ISLAND REGION. <PGC-P>. MD 3.7 (SEA). Felt in the southern part of Vancouver Island including Saanich, Sooke and Victoria. Also felt at Vancouver, Burnaby, Pitt Meadows and Mort Moody. Felt at Coupeville, Friday Harbor, Oak Harbor, Port Angeles, Roche Harbor Airport and Sequim, Washington.
11	13	45	49.3	52.947	N	172.053	W	142	D	4.6	0.9	60	ANDREANOF ISLANDS, ALEUTIAN IS.
11	14	02	23.5&	62.483	N	150.948	W	18				12	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.3 (PMR).
11	14	03	28.0*	6.962	S	129.503	E	125	?	4.3	1.1	10	BANDA SEA
11	14	38	06.5	17.715	S	178.793	W	558	D	5.1	0.9	238	FIJI ISLANDS REGION. Mw 5.7 (GS), 5.7 (HRV).

													Moment Tensor (GS): Dep 568; Principal axes (scale 10**17 Nm): (T) Val=4.05, Plg=33, Azm=19; (N) Val=-0.01, Plg=44, Azm=148; (P) Val=-4.03, Plg=28, Azm=268; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=51, Dip=44, Slip=175; NP2: Strike=145, Dip=87, Slip=46.
													Centroid, Moment Tensor (HRV): Centroid origin time 14:38:13.7; Lat 17.64 S; Lon 178.62 W; Dep 579.2; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.14, Plg=34, Azm=18; (N) Val=-0.16, Plg=43, Azm=146; (P) Val=-3.98, Plg=29, Azm=267; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=50, Dip=43, Slip=175; NP2: Strike=143, Dip=87, Slip=47.
11	15	12	11.4*	25.909	N	124.733	E	174	?		1.3	7	NORTHEAST OF TAIWAN
11	17	15	01.2&	40.781	N	31.154	E	4				7	TURKEY. <ISK>. MD 3.4 (ISK).
11	18	03	36.4	15.766	N	119.740	E	33	N	6.5 7.1	1.0	516	LUZON, PHILIPPINE ISLANDS. Mw 7.3 (HRV), 7.1 (GS). Me 7.1 (GS). Ms 7.2 (BRK). One person killed at Masinloc. Four people died from heart attacks and 40 injured on Luzon. Damage to structures (VII RF) at Santa Cruz and (VI RF) at Iba, Manila and Masinloc. Power outages occurred in the Manila area. Felt (VI RF) at Clark Air Base, Olongapo and San Fernando; (V RF) at Dagupan, Pasig, Quezon and Taguig; (IV RF) at Baguio, Lucban, Malolos, Palayan, San Jose, Santo Domingo and Tagaytay; (III RF) at Santa; (II RF) at Guinuangan and Pasuquin; (I RF) at Tuguegarao.
													Broadband Source Parameters (GS): Dep 40; NP1: Strike=194, Dip=86, Slip=60; NP2: Strike=97, Dip=30, Slip=172; Radiated energy 9.0*10**14 Nm.
													Moment Tensor (GS): Dep 40; Principal axes (scale 10**19 Nm): (T) Val=5.75, Plg=46, Azm=93; (N) Val=0.01, Plg=13, Azm=197; (P) Val=-5.75, Plg=41, Azm=299; Best double couple: Mo=5.8*10**19 Nm; NP1: Strike=97, Dip=14, Slip=170; NP2: Strike=196, Dip=88, Slip=77.
													Centroid, Moment Tensor (HRV): Centroid origin time 18:03:45.5; Lat 15.87 N; Lon 119.64 E; Dep 35.1; Half-duration 9.9 sec; Principal axes (scale 10**19 Nm): (T) Val=8.64, Plg=41, Azm=89; (N) Val=0.52, Plg=13, Azm=190; (P) Val=-9.16, Plg=46, Azm=294; Best double couple: Mo=8.9*10**19 Nm; NP1: Strike=112, Dip=13, Slip=-169; NP2: Strike=11, Dip=88, Slip=-77.
													Scalar Moment (PPT): Mo=1.3*10**20 Nm.
11	18	14	13.2&	16.057	N	98.326	W	5				8	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
11	18	41	27.1*	55.643	N	166.293	E	33	N	4.3	1.4	12	KOMANDORSKY ISLANDS REGION
11	18	58	34.3*	4.932	S	153.903	E	122	*	4.6	0.7	16	NEW IRELAND REGION, P.N.G.
11	20	24	29.4*	40.251	N	145.240	E	33	N	4.3	1.2	20	OFF EAST COAST OF HONSHU, JAPAN
11	20	25	17.1*	14.403	S	167.288	E	183	*	4.5	1.1	57	VANUATU ISLANDS
11	21	07	18.4&	39.800	S	174.260	E	122				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
11	21	27	55.9	7.369	S	128.519	E	135	*	4.7	1.1	28	BANDA SEA
11	21	51	31.7&	60.628	N	153.056	W	140				5	SOUTHERN ALASKA. <AEIC>.
11	22	03	24.0*	2.808	N	72.993	W	33	N		0.6	7	COLOMBIA. ML 4.1 (RSNC).
11	22	21	07.8*	15.835	N	119.689	E	33	N	4.7	1.0	11	LUZON, PHILIPPINE ISLANDS
11	22	26	00.2*	20.818	S	67.139	W	208	*	4.3	1.4	13	SOUTHERN BOLIVIA
11	22	30	24.3*	15.932	N	119.835	E	33	N	4.8	0.9	19	LUZON, PHILIPPINE ISLANDS
11	22	47	38.5&	15.914	N	93.674	W	93				4	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 3.8 (UNM).
11	23	24	03.8*	55.021	N	165.483	E	33	N		0.6	8	KOMANDORSKY ISLANDS REGION
11	23	24	05.1*	32.176	N	60.016	E	10	G	4.0	1.1	10	NORTHERN IRAN
11	23	29	20.5	2.435	N	124.546	E	277		4.9	0.9	82	CELEBES SEA
11	23	34	59.8&	18.677	N	66.744	W	22				7	PUERTO RICO REGION. <MPR>. MD 2.5 (MPR).
11	23	42	37.1*	15.030	S	172.355	W	33	N	4.6	0.8	32	SAMOA ISLANDS REGION
12	00	06	53.2*	38.136	N	75.830	E	118	*	3.7	1.0	9	SOUTHERN XINJIANG, CHINA
12	01	11	24.7	16.034	N	119.800	E	33	N	5.1 4.5	1.0	89	LUZON, PHILIPPINE ISLANDS
12	01	50	31.0&	7.602	N	80.612	W	1				5	PANAMA. <UPA>. MD 3.8 (UPA).
12	01	50	41.2	1.041	S	127.338	E	33	N	5.0 4.2	1.2	65	HALMAHERA, INDONESIA
12	03	51	13.4*	5.257	S	150.277	E	33	N	4.0	1.3	8	NEW BRITAIN REGION, P.N.G.
12	04	02	43.9	8.909	N	84.256	W	10	G		0.5	14	OFF COAST OF COSTA RICA. MD 4.2 (UPA), 4.0 (CASC).
12	04	16	43.3*	38.937	N	141.040	E	33	N		1.3	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in northern Miyagi Prefecture.
12	04	35	00.5&	44.328	N	7.503	E	14				31	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.6 (LDG), 2.3 (STR).
12	05	44	21.7&	17.861	N	67.979	W	73				7	MONA PASSAGE. <MPR>. MD 3.2 (MPR).
12	05	45	56.0&	17.009	N	96.713	W	65				5	OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
12	06	22	44.8*	16.041	N	119.938	E	33	N	4.7	1.0	7	LUZON, PHILIPPINE ISLANDS
12	06	39	47.1&	39.900	S	174.310	E	160				22	NORTH ISLAND, NEW ZEALAND. <WEL>.
12	07	24	26.8*	16.048	N	120.011	E	33	N	4.7	1.3	10	LUZON, PHILIPPINE ISLANDS
12	07	31	36.9	57.480	N	154.460	W	48	D	4.6	1.0	71	KODIAK ISLAND REGION. ML 4.5 (PMR), 4.3 (AEIC). Felt at Larsen Bay.
12	07	41	34.3&	46.200	N	2.800	E	2				14	FRANCE. <LDG>. ML 2.9 (LDG).
12	08	16	00.7*	15.975	N	119.862	E	33	N	4.6	1.5	10	LUZON, PHILIPPINE ISLANDS
12	09	08	56.5&	44.313	N	7.353	E	17				43	NORTHERN ITALY. <GEN>. ML 3.3 (GEN), 3.0 (LDG), 2.8 (STR).
12	09	18	54.9*	36.300	N	32.015	E	87	?		1.3	20	TURKEY
12	09	24	53.4&	44.100	N	7.100	E	2				6	NORTHERN ITALY. <LDG>. ML 1.8 (LDG).
12	09	31	28.8*	18.539	S	168.242	E	33	N		1.0	9	VANUATU ISLANDS
12	09	55	08.8*	21.022	S	68.377	W	152	*	3.9	1.1	17	CHILE-BOLIVIA BORDER REGION
12	10	10	16.5&	19.636	N	65.236	W	66				8	PUERTO RICO REGION. <MPR>. MD 3.3 (MPR).
12	10	46	05.9&	43.800	N	5.600	E	5				23	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.2 (LDG), 2.1 (STR).
12	10	52	40.6*	32.477	S	179.018	W	33	N	4.4	1.1	15	SOUTH OF KERMADEC ISLANDS
12	11	31	23.7&	17.885	N	120.737	E	33	N		0.9	10	LUZON, PHILIPPINE ISLANDS
12	11	43	55.9	6.776	N	73.022	W	167		4.4	0.9	72	NORTHERN COLOMBIA
12	12	29	13.3*	15.246	N	119.792	E	33	N	4.6	1.3	9	LUZON, PHILIPPINE ISLANDS
12	12	34	02.9*	49.759	N	18.498	E	5	G		1.1	5	CZECH AND SLOVAK REPUBLICS. MG 2.6 (WAR).
12	13	02	15.9*	35.760	N	61.358	E	33	N		1.3	11	TURKMENISTAN-AFGHANISTAN BRD REG. Felt at Salehabad, Iran.
12	13	57	14.7*	23.158	S	179.946	W	500	G	4.5	1.1	25	SOUTH OF FIJI ISLANDS
12	14	14	27.4*	42.602	N	140.718	E	33	N		1.3	6	HOKKAIDO, JAPAN REGION
12	16	21	41.1	13.793	S	76.206	W	44	*	4.6	0.9	44	NEAR COAST OF PERU. Felt (IV) at Pisco and (III) at Chincha Alta and Ica.

12	16	37	59.0&	51.340	N	131.060	W	10	G	4.2	39	QUEEN CHARLOTTE ISLANDS REGION. <PGC-P>. ML 4.1 (PGC).
12	17	07	19.4&	40.730	N	30.092	E	14			8	TURKEY. <ISK>. MD 3.2 (ISK).
12	17	10	56.9&	11.374	N	62.070	W	75			6	WINDWARD ISLANDS. <TRN>. MD 3.4 (TRN).
12	17	16	08.8&	15.847	N	96.596	W	13			7	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
12	17	27	05.4	15.733	N	119.847	E	33	N	5.0 4.6 1.0	80	LUZON, PHILIPPINE ISLANDS
12	17	28	07.6	22.414	S	12.582	W	10	G	5.3 4.9 1.2	63	SOUTHERN MID-ATLANTIC RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:28:09.1; Lat 22.76 S; Lon 12.91 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.39, Plg=11, Azm=301; (N) Val=0.12, Plg=77, Azm=87; (P) Val=-1.51, Plg=7, Azm=210; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=345, Dip=77, Slip=177; NP2: Strike=76, Dip=88, Slip=13.
12	17	37	06.8	29.009	S	69.465	W	113	D	4.6 1.1	48	CHILE-ARGENTINA BORDER REGION. Felt (II) at Copiapo and Vallenar, Chile.
12	17	50	15.5&	17.243	N	100.242	W	20			20	GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
12	17	57	24.6?	17.90	S	167.93	E	33	N	1.4	8	VANUATU ISLANDS
12	17	57	28.5	14.765	N	91.186	W	158	D	4.9 1.2	201	GUATEMALA. Mw 5.8 (HRV). MD 4.8 (UNM), 4.8 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 17:57:32.3; Lat 14.54 N; Lon 91.34 W; Dep 149.9; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=5.43, Plg=46, Azm=66; (N) Val=-0.51, Plg=22, Azm=311; (P) Val=-4.92, Plg=35, Azm=204; Best double couple: Mo=5.2*10**17 Nm; NP1: Strike=237, Dip=23, Slip=15; NP2: Strike=133, Dip=84, Slip=113.
12	18	12	38.0&	39.690	N	118.290	W	11		3.6	55	NEVADA. <REN-P>. MD 4.0 (REN). ML 4.5 (BRK), 4.0 (GS). Felt at Fallon and Silver Springs.
12	19	25	56.0	40.522	N	23.606	E	5	G	4.5 1.3	128	GREECE. MD 4.6 (ISK), 4.1 (PDG). ML 4.3 (ROM). Felt on the Chalkidiki Peninsula and at Thessaloniki.
12	19	26	40.8	1.726	N	127.298	E	116	*	4.7 0.7	31	HALMAHERA, INDONESIA
12	19	32	44.6*	22.366	S	12.704	W	10	G	4.8 1.4	29	SOUTHERN MID-ATLANTIC RIDGE
12	19	51	25.2&	11.010	N	62.275	W	35			4	WINDWARD ISLANDS. <TRN>. MD 3.5 (TRN).
12	21	18	01.3&	63.174	N	149.031	W	83			10	CENTRAL ALASKA. <AEIC>.
12	22	15	34.2	62.985	N	149.048	W	20	D	4.8 1.2	55	CENTRAL ALASKA. ML 4.5 (PMR), 4.1 (AEIC). Felt at Fairbanks and Talkeetna.
12	23	21	51.8	2.904	S	128.230	E	59	*	4.5 1.0	19	CERAM SEA
12	23	24	18.3	2.889	S	128.155	E	33	N	5.5 5.4 1.3	142	CERAM SEA. Mw 5.7 (HRV), 5.6 (GS). Moment Tensor (GS): Dep 20; Principal axes (scale 10**17 Nm): (T) Val=2.24, Plg=40, Azm=248; (N) Val=0.54, Plg=30, Azm=129; (P) Val=-2.77, Plg=35, Azm=15; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=45, Dip=30, Slip=6; NP2: Strike=310, Dip=87, Slip=120. Centroid, Moment Tensor (HRV): Centroid origin time 23:24:21.3; Lat 2.80 S; Lon 128.16 E; Dep 26.1; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=3.90, Plg=53, Azm=238; (N) Val=0.41, Plg=14, Azm=129; (P) Val=-4.31, Plg=34, Azm=30; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=76, Dip=17, Slip=35; NP2: Strike=312, Dip=80, Slip=104.
12	23	40	59.5	2.925	S	128.216	E	58	*	4.6 1.1	15	CERAM SEA
13	00	03	58.4&	46.100	N	2.800	E	4			13	FRANCE. <LDG>. ML 2.3 (LDG), 2.2 (STR).
13	00	18	02.6*	52.886	N	142.762	E	33	N	4.5 1.3	14	SAKHALIN ISLAND. Felt (IV) at Sabo and (II) at Okha.
13	01	16	43.2*	18.647	S	72.030	W	33	N	4.1 1.3	10	OFF COAST OF NORTHERN CHILE. Felt (III) at Quequena and (II) at Arequipa and Mollendo, Peru.
13	01	20	23.2&	38.320	S	176.340	E	173			17	NORTH ISLAND, NEW ZEALAND. <WEL>.
13	01	30	53.5*	36.427	N	70.594	E	194	D	1.2	12	HINDU KUSH REGION, AFGHANISTAN
13	02	10	53.1*	5.851	S	151.253	E	33	N	4.3 0.8	9	NEW BRITAIN REGION, P.N.G.
13	03	18	51.8*	57.177	N	154.561	W	33	N	1.2	16	KODIAK ISLAND REGION. ML 3.7 (PMR).
13	03	24	46.0?	14.77	N	92.58	W	93	*	3.4 1.5	11	NEAR COAST OF CHIAPAS, MEXICO. MD 4.1 (UNM).
13	04	27	37.3&	44.510	N	7.542	E	11			10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
13	04	28	30.0*	5.793	S	146.651	E	33	N	0.9	12	EASTERN NEW GUINEA REG., P.N.G.
13	04	36	15.7&	14.230	N	93.073	W	20			4	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
13	05	09	29.1*	9.646	S	124.261	E	33	N	4.9 1.4	18	TIMOR REGION, INDONESIA
13	05	47	38.0&	34.389	N	116.146	W	6			37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
13	06	09	48.2*	0.649	S	130.371	E	33	N	4.3 0.7	10	IRIAN JAYA REGION, INDONESIA
13	06	57	46.0&	38.810	N	122.780	W	2			14	NORTHERN CALIFORNIA. <GM-P>. ML 3.4 (GM), 3.3 (BRK).
13	09	30	39.6	2.077	N	127.115	E	85		5.8 1.0	199	NORTHERN MOLUCCA SEA. Mw 5.9 (HRV), 5.8 (GS). Felt (III) at Bitung and on Ternate; (II) at Manado and Tondano, Indonesia. Moment Tensor (GS): Dep 78; Principal axes (scale 10**17 Nm): (T) Val=5.07, Plg=37, Azm=160; (N) Val=1.65, Plg=29, Azm=46; (P) Val=-6.71, Plg=39, Azm=289; Best double couple: Mo=5.9*10**17 Nm; NP1: Strike=313, Dip=29, Slip=-2; NP2: Strike=45, Dip=89, Slip=-119. Centroid, Moment Tensor (HRV): Centroid origin time 09:30:44.1; Lat 2.19 N; Lon 127.25 E; Dep 90.8; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=8.17, Plg=31, Azm=156; (N) Val=-1.56, Plg=47, Azm=25; (P) Val=-6.60, Plg=26, Azm=263; Best double couple: Mo=7.4*10**17 Nm; NP1: Strike=301, Dip=48, Slip=4; NP2: Strike=208, Dip=87, Slip=138.
13	09	38	02.5	52.897	N	168.165	W	33	N	4.4 0.8	24	FOX ISLANDS, ALEUTIAN ISLANDS. ML 3.8 (PMR).
13	09	53	29.8*	19.272	N	145.959	E	33	N	4.6 0.7	16	MARIANA ISLANDS
13	11	14	12.8	44.064	N	16.240	E	10	G	1.1	44	NORTHWESTERN BALKAN REGION. ML 3.6 (VIE), 3.5 (ZAG), 3.2 (ROM). MD 3.6 (PDG).
13	12	17	08.1&	15.762	N	60.924	W	39			7	LEEWARD ISLANDS. <FDF>. MD 2.4 (FDF).
13	13	20	16.2&	34.102	N	117.008	W	3			52	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS). Felt at Cherry Valley, Fawnskin and Yucaipa.
13	13	51	56.3&	34.859	N	116.397	W	5			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
13	14	25	34.5	6.800	N	72.910	W	165		3.9 0.9	28	NORTHERN COLOMBIA
13	14	40	33.9&	17.964	N	66.808	W	17			4	PUERTO RICO REGION. <MPR>. MD 2.5 (MPR).
13	14	45	58.9*	6.233	S	130.167	E	108	*	4.4 1.2	20	BANDA SEA
13	16	07	04.1	4.519	N	75.693	W	10	G	1.2	8	COLOMBIA. ML 2.6 (RSNC).

13	16	16	10.2&	16.100	N	97.306	W	16				9	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
13	16	18	28.4?	45.31	N	148.10	E	166	*	4.4	1.5	14	KURIL ISLANDS
13	16	27	30.3&	17.598	S	69.707	W	155	*		1.5	8	PERU-BOLIVIA BORDER REGION
13	17	33	05.5*	17.313	S	72.174	W	79	*	3.9	1.2	17	NEAR COAST OF PERU
13	18	57	47.7	31.853	S	69.437	W	114	D	4.7	0.9	64	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at Cabildo, (II) at Illapel, La Ligua, Papudo, Petorca, Salamanca and Santiago, Chile.
13	19	13	07.5?	22.93	S	69.28	E	10	G	4.6	1.1	9	MID-INDIAN RIDGE
13	19	13	37.5	40.734	N	30.756	E	10	G	4.3	1.1	64	TURKEY. Felt at Hendek.
13	19	39	54.7*	23.620	S	66.488	W	222	*	4.0	1.4	10	JUJUY PROVINCE, ARGENTINA
13	19	40	17.9&	47.100	N	1.600	W	5				18	FRANCE. <LDG>. ML 2.7 (LDG).
13	21	36	44.0*	5.255	S	151.181	E	33	N	4.6	0.8	9	NEW BRITAIN REGION, P.N.G.
13	21	57	33.4?	15.07	S	167.27	E	134	?		1.1	6	VANUATU ISLANDS
13	22	36	12.5*	8.207	S	74.617	W	87	?	4.1	1.0	21	PERU-BRAZIL BORDER REGION
13	22	40	13.9	0.138	S	125.119	E	66		5.5	1.1	172	SOUTHERN MOLUCCA SEA. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:40:18.4; Lat 0.21 S; Lon 124.99 E; Dep 66.3 Fix; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.06, Plg=35, Azm=231; (N) Val=-0.18, Plg=45, Azm=6; (P) Val=-4.88, Plg=24, Azm=123; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=263, Dip=46, Slip=171; NP2: Strike=359, Dip=83, Slip=44.
13	22	41	00.0&	56.860	N	154.630	W	66				10	KODIAK ISLAND REGION. <AEIC>. ML 3.6 (AEIC).
13	23	21	24.0&	38.830	N	122.790	W	5				16	NORTHERN CALIFORNIA. <GM-P>. ML 3.4 (GM), 3.3 (BRK).
13	23	40	31.0&	60.230	N	153.240	W	134				6	SOUTHERN ALASKA. <AEIC>.
14	01	49	52.9*	19.565	N	120.312	E	33	N	3.8	1.3	11	PHILIPPINE ISLANDS REGION
14	01	55	39.8*	1.278	S	148.983	E	33	N	4.4	0.9	14	ADMIRALTY ISLANDS REGION, P.N.G.
14	01	58	18.8*	46.224	N	16.440	E	10	G		0.9	11	NORTHWESTERN BALKAN REGION. ML 2.7 (ZAG), 2.7 (VIE).
14	06	00	32.4&	39.120	S	173.800	E	5				7	OFF W. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.5 (WEL).
14	06	38	56.4	15.544	S	70.731	W	176		4.1	1.0	38	SOUTHERN PERU
14	07	12	14.7	18.098	N	98.560	W	56	D	4.8	1.1	142	CENTRAL MEXICO. MD 4.6 (UNM).
14	07	33	07.6	3.289	S	142.966	E	33	N	4.7	1.1	20	NEAR N COAST OF NEW GUINEA, PNG.
14	08	21	02.2*	19.241	N	104.925	W	33	N	4.7	1.5	18	NEAR COAST OF JALISCO, MEXICO. MD 4.5 (UNM).
14	09	09	26.2*	13.955	N	120.542	E	33	N	4.6	1.2	22	MINDORO, PHILIPPINE ISLANDS
14	09	24	08.9	3.303	S	142.971	E	33	N	5.2 4.7	1.1	87	NEAR N COAST OF NEW GUINEA, PNG. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:24:12.8; Lat 2.95 S; Lon 143.07 E; Dep 33.0; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.99, Plg=42, Azm=179; (N) Val=0.02, Plg=46, Azm=338; (P) Val=-1.00, Plg=11, Azm=79; Best double couple: Mo=9.9*10**16 Nm; NP1: Strike=209, Dip=53, Slip=154; NP2: Strike=316, Dip=70, Slip=40.
14	09	41	13.8*	44.080	N	147.565	E	33	N	4.6	1.3	13	KURIL ISLANDS
14	09	42	50.3&	40.410	S	177.270	E	33	N			13	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.1 (WEL).
14	09	53	32.4*	3.265	S	143.179	E	33	N		0.7	8	NEAR N COAST OF NEW GUINEA, PNG.
14	11	21	26.5	25.341	N	123.545	E	171	D	4.9	1.0	100	NORTHEAST OF TAIWAN. Felt (I JMA) on Iriomote-jima, Ishigaki-jima and Miyako-jima, Ryukyu Islands.
14	12	30	32.5*	50.014	N	8.332	E	10	G		0.4	7	GERMANY. ML 2.2 (STR).
14	13	26	54.6*	44.120	N	151.851	E	33	N	4.0	1.1	8	EAST OF KURIL ISLANDS
14	13	35	13.6	57.373	N	154.564	W	45	D	4.7	1.0	93	KODIAK ISLAND REGION. ML 4.6 (PMR), 4.2 (AEIC). Felt at Larsen Bay.
14	13	37	20.6	21.945	S	67.121	W	199		4.0	0.8	26	CHILE-BOLIVIA BORDER REGION
14	13	58	39.8?	40.75	N	126.93	W	10	G		1.0	10	OFF COAST OF NORTHERN CALIFORNIA. ML 3.5 (GS).
14	20	51	09.1&	17.954	N	66.965	W	14				5	PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
14	20	56	53.2&	41.120	S	172.660	E	201				6	SOUTH ISLAND, NEW ZEALAND. <WEL>.
14	22	48	56.6*	13.896	N	2.636	W	33	N		1.2	8	NORTHWEST AFRICA
14	22	58	44.7*	0.804	S	98.594	E	33	N	4.7	1.1	22	SOUTHERN SUMATERA, INDONESIA
14	23	31	34.8*	17.388	N	85.797	W	33	N	4.3	1.5	27	CARIBBEAN SEA
14	23	33	18.7	3.252	S	143.079	E	33	N	4.2	0.6	10	NEAR N COAST OF NEW GUINEA, PNG.
14	23	53	01.4	16.051	N	97.145	W	33	N		0.6	11	OAXACA, MEXICO. MD 4.2 (UNM).
15	00	00	44.4	17.189	N	85.134	W	10	G	5.3 5.0	1.0	176	CARIBBEAN SEA. Mw 5.7 (GS), 5.6 (HRV). Moment Tensor (GS): Dep 19; Principal axes (scale 10**17 Nm): (T) Val=4.28, Plg=8, Azm=295; (N) Val=0.84, Plg=76, Azm=168; (P) Val=-5.12, Plg=11, Azm=27; Best double couple: Mo=4.7*10**17 Nm; NP1: Strike=71, Dip=76, Slip=-2; NP2: Strike=161, Dip=88, Slip=-166. Centroid, Moment Tensor (HRV): Centroid origin time 00:00:48.5; Lat 17.33 N; Lon 85.53 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.10, Plg=8, Azm=296; (N) Val=0.52, Plg=71, Azm=179; (P) Val=-2.62, Plg=16, Azm=28; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=71, Dip=72, Slip=-6; NP2: Strike=163, Dip=85, Slip=-162.
15	00	35	18.6&	46.200	N	1.900	E	3				9	FRANCE. <LDG>. ML 1.6 (LDG).
15	01	33	11.7*	23.957	N	122.994	E	33	N		1.4	10	TAIWAN REGION
15	01	45	22.4	62.399	N	151.115	W	33	N		0.7	14	CENTRAL ALASKA. ML 2.8 (PMR).
15	02	09	12.5*	54.964	N	139.927	E	33	N	4.2	0.9	13	NEAR SOUTHEAST COAST OF RUSSIA
15	02	13	37.6&	33.970	N	116.954	W	18				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
15	02	28	08.8?	28.11	N	53.94	E	33	N	3.6	0.4	7	SOUTHERN IRAN
15	02	59	29.2&	34.450	N	116.208	W	6				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
15	03	46	53.1&	34.857	N	116.390	W	7				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
15	04	41	12.3	5.786	S	150.974	E	33	N	5.6 6.3	0.9	267	NEW BRITAIN REGION, P.N.G. Mw 6.3 (HRV), 6.1 (GS). Me 5.3 (GS). ML 5.8 (PMG). Broadband Source Parameters (GS): Dep 23; NP1: Strike=105, Dip=70, Slip=90; NP2: Strike=285, Dip=20, Slip=90; Radiated energy 2.1*10**12 Nm. Moment Tensor (GS): Dep 27; Principal axes (scale 10**18 Nm): (T) Val=1.79, Plg=77, Azm=3; (N) Val=-0.03, Plg=2, Azm=263; (P) Val=-1.75, Plg=13, Azm=173; Best double couple: Mo=1.8*10**18 Nm; NP1: Strike=260, Dip=32, Slip=86; NP2: Strike=85, Dip=58, Slip=92. Centroid, Moment Tensor (HRV): Centroid origin time 04:41:20.6; Lat 6.03 S; Lon 151.13 E; Dep 34.0 Bdy; Half-

duration 3.5 sec; Principal axes (scale 10**18 Nm): (T) Val=2.81, Plg=70, Azm=351; (N) Val=0.32, Plg=2, Azm=255; (P) Val=-3.12, Plg=20, Azm=164; Best double couple: Mo=3.0*10**18 Nm; NP1: Strike=250, Dip=25, Slip=85; NP2: Strike=76, Dip=65, Slip=92.

15 04 46 22.2? 27.67 N 139.49 E 391 ? 4.3 0.8 11 BONIN ISLANDS REGION
15 05 12 33.1* 11.246 N 124.657 E 33 N 4.8 1.2 28 LEYTE, PHILIPPINE ISLANDS. One person killed at Tacloban. Minor damage (VI RF) at Leyte. Felt (III RF) at Ormoc. Also felt (II RF) at Borongan, Samar and (II RF) at Lapu-Lapu, Cebu.
15 05 40 09.6* 2.232 S 134.401 E 33 N 4.5 1.2 14 IRIAN JAYA REGION, INDONESIA
15 05 58 12.5& 44.000 N 8.800 E 2 20 NORTHERN ITALY. <LDG>. ML 2.6 (LDG), 2.6 (GEN).
15 06 29 48.1& 34.101 N 117.007 W 3 37 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Yucaipa.
15 06 30 36.6* 31.120 N 51.133 E 33 N 4.5 0.7 28 NORTHERN IRAN
15 06 51 03.0& 34.340 N 116.110 W 2 36 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
15 06 52 05.4& 34.335 N 116.117 W 3 33 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
15 07 10 48.2? 5.60 S 150.91 E 33 N 4.1 1.1 11 NEW BRITAIN REGION, P.N.G.
15 07 33 52.3* 5.851 S 150.993 E 86 * 4.5 1.2 17 NEW BRITAIN REGION, P.N.G.
15 07 50 17.7* 36.480 N 70.287 E 218 * 4.0 1.2 17 HINDU KUSH REGION, AFGHANISTAN
15 08 23 46.6* 15.565 S 75.032 W 33 N 4.6 0.6 14 NEAR COAST OF PERU
15 09 00 38.8 23.280 S 70.039 W 41 D 4.7 4.3 1.0 50 NEAR COAST OF NORTHERN CHILE. Felt (IV) at Mejillones; (III) at Antofagasta, Maria Elena, Quillagua and Tocopilla; (II) at Iquique and Talabre.
15 09 56 29.8* 5.773 S 150.995 E 33 N 3.7 0.9 10 NEW BRITAIN REGION, P.N.G.
15 11 27 39.3* 15.075 N 104.625 W 10 G 4.5 4.2 1.2 43 OFF COAST OF MICHOACAN, MEXICO
15 11 38 08.3& 34.650 N 116.281 W 6 10 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
15 13 45 02.6& 34.608 N 116.283 W 3 31 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
15 14 14 15.4* 4.622 N 126.888 E 189 ? 4.6 1.1 19 TALAUD ISLANDS, INDONESIA
15 14 34 58.4& 49.760 N 7.340 E 1 G 8 GERMANY. <STR>. ML 2.2 (STR).
15 17 27 00.2 61.999 N 151.523 W 91 0.7 17 SOUTHERN ALASKA
15 18 38 20.6& 15.290 N 60.715 W 32 9 LEEWARD ISLANDS. <FDF>. MD 2.6 (FDF).
15 19 12 33.6 20.116 S 67.447 E 10 G 5.0 4.2 1.0 35 MID-INDIAN RIDGE
15 19 55 55.0& 41.670 N 112.830 W 2 18 UTAH. <SLC-P>. ML 2.9 (SLC).
15 22 24 03.0* 0.268 S 99.556 E 130 ? 4.7 0.7 17 SOUTHERN SUMATERA, INDONESIA
15 23 08 14.9* 5.796 S 148.422 E 128 ? 4.5 0.8 18 NEW BRITAIN REGION, P.N.G.
15 23 47 18.4 54.573 N 161.168 W 68 4.9 0.8 110 ALASKA PENINSULA. ML 4.7 (PMR), 4.6 (AEIC). Felt (III) at Cold Bay. Also felt at King Cove and Sand Point.
16 01 18 14.3* 57.243 N 154.266 W 33 N 1.2 8 KODIAK ISLAND REGION. ML 3.7 (PMR).
16 01 38 46.3? 6.17 S 154.82 E 130 D 1.1 9 SOLOMON ISLANDS
16 02 23 44.4& 8.660 S 115.000 E 104 4 BALI REGION, INDONESIA. <DJA>.
16 03 22 14.5 19.706 N 75.715 W 10 G 4.8 1.0 83 CUBA REGION. Felt at Guantanamo.
16 04 04 44.0& 57.110 N 154.380 W 68 3.1 12 KODIAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).
16 04 26 35.1& 19.356 N 99.130 W 20 9 CENTRAL MEXICO. <UNM>. MD 3.3 (UNM).
16 04 38 09.2* 12.013 N 43.864 W 10 G 4.7 1.1 38 NORTHERN MID-ATLANTIC RIDGE
16 05 23 28.9 7.885 S 74.398 W 163 D 4.2 0.3 14 PERU-BRAZIL BORDER REGION
16 06 14 43.5? 57.66 S 25.26 W 60 ? 4.3 1.3 14 SOUTH SANDWICH ISLANDS REGION
16 07 00 59.2 45.221 N 14.608 E 10 G 1.5 33 NORTHWESTERN BALKAN REGION. ML 3.5 (VIE), 3.5 (ZAG), 3.3 (LDG).
16 07 33 55.0 5.812 S 151.262 E 33 N 5.3 5.2 1.0 63 NEW BRITAIN REGION, P.N.G. Mw 5.3 (HRV). ML 5.0 (PMG).
Centroid, Moment Tensor (HRV): Centroid origin time 07:33:58.5; Lat 6.43 S; Lon 151.59 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=0.98, Plg=69, Azm=319; (N) Val=0.30, Plg=7, Azm=68; (P) Val=-1.28, Plg=20, Azm=161; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=264, Dip=26, Slip=107; NP2: Strike=65, Dip=65, Slip=82.
16 07 54 53.0& 37.530 N 118.820 W 6 11 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
16 08 19 38.0 25.328 N 124.253 E 133 D 4.9 1.1 105 NORTHEAST OF TAIWAN. Felt (I JMA) on Iriomote-jima and Miyako-jima, Ryukyu Islands.
16 10 36 17.6 28.939 S 13.342 W 10 G 5.5 5.6 1.4 131 SOUTHERN MID-ATLANTIC RIDGE. Mw 5.7 (GS), 5.7 (HRV).
Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=4.52, Plg=15, Azm=90; (N) Val=-0.22, Plg=28, Azm=188; (P) Val=-4.30, Plg=58, Azm=336; Best double couple: Mo=4.4*10**17 Nm; NP1: Strike=147, Dip=39, Slip=-139; NP2: Strike=22, Dip=65, Slip=-58.
Centroid, Moment Tensor (HRV): Centroid origin time 10:36:21.4; Lat 29.17 S; Lon 12.88 W; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.77, Plg=3, Azm=276; (N) Val=-0.10, Plg=0, Azm=6; (P) Val=-3.68, Plg=87, Azm=102; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=6, Dip=42, Slip=-90; NP2: Strike=186, Dip=48, Slip=-90.
16 10 55 11.6* 27.048 N 127.395 E 122 * 4.5 0.8 17 RYUKYU ISLANDS
16 11 28 28.5* 29.102 S 13.203 W 10 G 4.6 1.3 20 SOUTHERN MID-ATLANTIC RIDGE
16 11 33 43.9& 45.942 N 7.929 E 3 34 NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.3 (LDG).
16 11 53 58.2* 28.975 S 13.070 W 10 G 4.6 1.3 15 SOUTHERN MID-ATLANTIC RIDGE
16 12 16 12.3& 17.312 N 97.080 W 76 5 OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
16 13 05 38.6* 27.102 N 140.187 E 421 ? 4.0 1.1 18 BONIN ISLANDS REGION
16 13 28 33.6* 36.571 N 139.339 E 33 N 3.9 1.3 13 EASTERN HONSHU, JAPAN. Felt (III JMA) in the Nikko area and in northern Gumma Prefecture. Felt as far as Tokyo.
16 13 47 11.6* 36.535 N 139.342 E 33 N 4.2 1.5 21 EASTERN HONSHU, JAPAN. Felt (IV JMA) in the Nikko area and (III JMA) in northeastern Gumma Prefecture. Felt as far south as Kanagawa Prefecture and in the Tokyo area.
16 14 16 59.2* 13.728 S 31.459 E 5 G 4.4 1.2 12 ZAMBIA
16 14 17 54.7 50.149 S 138.989 E 10 G 5.4 5.8 1.3 76 SOUTH OF AUSTRALIA. Mw 6.0 (GS), 6.0 (HRV).
Moment Tensor (GS): Dep 11; Principal axes (scale 10**18 Nm): (T) Val=1.04, Plg=7, Azm=46; (N) Val=0.10, Plg=80, Azm=178; (P) Val=-1.14, Plg=8, Azm=315; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=91, Dip=80, Slip=-179; NP2: Strike=1, Dip=89, Slip=-10.
Centroid, Moment Tensor (HRV): Centroid origin time 14:18:01.4; Lat 50.42 S; Lon 139.35 E; Dep 15.0 Fix; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T)

													Val=1.15, Plg=8, Azm=44; (N) Val=-0.01, Plg=79, Azm=266; (P) Val=-1.14, Plg=7, Azm=135; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=180, Dip=79, Slip=1; NP2: Strike=90, Dip=89, Slip=169.
16	14	26	44.6?	27.91	N	54.13	E	85 ?	3.9		1.4	9	SOUTHERN IRAN
16	14	43	26.1*	50.309	S	139.094	E	10 G	4.5		1.3	18	SOUTH OF AUSTRALIA
16	15	59	18.5*	35.092	S	111.601	W	10 G	4.9		0.7	12	SOUTHERN EAST PACIFIC RISE
16	16	32	25.9	19.987	S	177.922	W	624 ?	4.3		0.5	20	FIJI ISLANDS REGION
16	18	16	37.6&	46.600	N	1.000	W	4				16	FRANCE. <LDG>. ML 2.8 (LDG).
16	19	37	15.2	19.305	N	145.277	E	181 *	4.7		0.9	97	MARIANA ISLANDS
16	19	59	09.6	45.947	N	15.098	E	10 G			0.7	6	NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.2 (LJU).
16	21	08	25.1	6.163	S	129.821	E	172 *	4.9		1.1	45	BANDA SEA
16	21	31	22.9&	40.860	S	173.420	E	129				9	COOK STRAIT, NEW ZEALAND. <WEL>.
16	21	38	33.0&	59.500	N	152.970	W	94				12	SOUTHERN ALASKA. <AEIC>.
16	23	31	12.1	7.054	S	129.540	E	97 *	4.3		0.8	24	BANDA SEA
16	23	51	27.5	54.506	N	161.039	W	33 N	5.5	5.3	0.9	216	ALASKA PENINSULA. Mw 5.6 (HRV). ML 5.5 (AEIC), 5.5 (PMR). Felt (IV) at King Cove. Centroid, Moment Tensor (HRV): Centroid origin time 23:51:30.3; Lat 54.26 N; Lon 160.49 W; Dep 32.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.76, Plg=68, Azm=338; (N) Val=0.52, Plg=2, Azm=244; (P) Val=-3.27, Plg=22, Azm=153; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=239, Dip=23, Slip=85; NP2: Strike=64, Dip=67, Slip=92.
17	00	02	57.5*	29.748	S	71.948	W	72 *	4.3		0.9	21	NEAR COAST OF CENTRAL CHILE
17	00	27	28.8	50.260	S	139.423	E	10 G	5.4	5.8	1.1	108	SOUTH OF AUSTRALIA. Mw 6.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:27:36.1; Lat 50.41 S; Lon 139.42 E; Dep 15.0 Fix; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=1.26, Plg=7, Azm=46; (N) Val=-0.06, Plg=82, Azm=244; (P) Val=-1.20, Plg=2, Azm=136; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=181, Dip=83, Slip=4; NP2: Strike=91, Dip=86, Slip=173.
17	00	42	25.6*	18.297	N	101.451	W	71 ?			1.4	17	GUERRERO, MEXICO. MD 4.1 (UNM).
17	01	22	04.1	46.064	N	14.768	E	10 G			0.2	9	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.6 (LJU).
17	01	28	31.2&	24.440	N	127.823	E	33 N			0.9	6	SOUTHEAST OF RYUKYU ISLANDS
17	01	39	55.0&	63.240	N	151.500	W	0				13	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 3.4 (PMR).
17	01	51	25.9	27.054	N	54.355	E	65 *	4.7		1.1	51	SOUTHERN IRAN
17	03	28	06.0&	62.980	N	150.960	W	111				13	CENTRAL ALASKA. <AEIC>.
17	04	00	25.5	7.982	N	37.968	W	10 G	5.3		1.0	158	CENTRAL MID-ATLANTIC RIDGE. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:00:32.5; Lat 8.02 N; Lon 37.82 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.94, Plg=9, Azm=281; (N) Val=0.09, Plg=7, Azm=12; (P) Val=-2.03, Plg=78, Azm=139; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=2, Dip=36, Slip=-102; NP2: Strike=197, Dip=55, Slip=-81.
17	04	03	27.8	8.069	N	38.026	W	10 G	5.5	5.4	0.9	217	CENTRAL MID-ATLANTIC RIDGE. Mw 5.7 (HRV), 5.6 (GS). Moment Tensor (GS): Dep 26; Principal axes (scale 10**17 Nm): (T) Val=2.46, Plg=17, Azm=270; (N) Val=0.12, Plg=16, Azm=5; (P) Val=-2.58, Plg=66, Azm=136; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=337, Dip=31, Slip=-122; NP2: Strike=194, Dip=64, Slip=-72. Centroid, Moment Tensor (HRV): Centroid origin time 04:03:36.3; Lat 8.29 N; Lon 37.89 W; Dep 15.0 Fix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=4.00, Plg=3, Azm=95; (N) Val=-0.55, Plg=10, Azm=186; (P) Val=-3.45, Plg=79, Azm=349; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=175, Dip=43, Slip=-105; NP2: Strike=15, Dip=49, Slip=-77.
17	04	30	25.9&	44.354	N	7.306	E	13				4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
17	04	54	37.3?	5.97	S	146.44	E	115 ?	4.5		1.5	14	EASTERN NEW GUINEA REG., P.N.G.
17	06	12	22.0*	50.261	S	139.662	E	10 G	3.8		0.3	7	SOUTH OF AUSTRALIA
17	06	47	06.0&	64.417	N	146.933	W	13				12	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (PMR). Felt strongly at Salcha. Also felt at Eielson AFB.
17	06	56	10.9?	8.42	S	75.20	W	129 ?	3.8		1.4	12	CENTRAL PERU
17	07	58	01.5	8.407	S	125.186	E	33 N	5.0	4.2	1.4	56	TIMOR REGION, INDONESIA
17	08	33	54.8&	16.449	N	60.998	W	28				5	LEEWARD ISLANDS. <FDF>. MD 2.2 (FDF).
17	10	15	02.2*	40.759	N	77.272	E	33 N	4.5		0.9	15	KYRGYZSTAN-XINJIANG BORDER REG.
17	10	25	26.0&	47.440	N	115.830	W	2				7	MONTANA. <BUT-P>. ML 2.8 (BUT).
17	10	59	36.1*	16.458	S	176.500	E	33 N	4.7		1.2	21	FIJI ISLANDS REGION
17	11	16	23.6?	14.64	N	103.65	W	33 N	4.2		1.1	16	OFF COAST OF GUERRERO, MEXICO
17	11	42	03.2&	35.005	N	119.150	W	14				12	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	12	00	22.3	55.742	N	110.273	E	16	4.3		1.0	37	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Kichera and Verkhnyaya Zaimka.
17	12	12	10.7&	40.897	N	31.307	E	18				11	TURKEY. <ISK>. MD 3.5 (ISK).
17	12	38	01.5	1.229	N	122.740	E	40 D	5.2	4.6	1.0	124	MINAHASSA PENINSULA, SULAWESI. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:38:04.8; Lat 1.46 N; Lon 122.86 E; Dep 44.7; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=7.85, Plg=64, Azm=182; (N) Val=-1.62, Plg=5, Azm=282; (P) Val=-6.23, Plg=25, Azm=14; Best double couple: Mo=7.0*10**16 Nm; NP1: Strike=115, Dip=20, Slip=103; NP2: Strike=280, Dip=70, Slip=85.
17	13	51	16.6*	17.344	N	95.521	W	94 *	3.9		1.3	25	OAXACA, MEXICO. MD 4.4 (UNM).
17	16	06	18.4	45.821	N	26.710	E	104			0.6	20	ROMANIA
17	16	48	23.1	62.020	N	150.988	W	33 N			0.5	11	CENTRAL ALASKA. ML 2.8 (PMR).
17	17	02	21.0*	12.195	N	87.504	W	33 N	4.1		1.2	16	NEAR COAST OF NICARAGUA
17	18	02	28.9?	32.38	N	138.00	E	377 *			1.1	11	SOUTH OF HONSHU, JAPAN
17	18	22	56.0	49.522	S	123.088	E	10 G	4.5	4.4	0.9	26	SOUTH OF AUSTRALIA
17	18	26	51.6&	39.950	S	176.890	E	87				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
17	19	36	26.7?	25.70	N	45.11	W	10 G	4.2		0.7	9	NORTHERN MID-ATLANTIC RIDGE
17	20	39	15.9?	11.92	S	166.52	E	33 N	4.1		0.8	8	SANTA CRUZ ISLANDS

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17  20 50 20.0& 54.390 N  161.730 W    7  .                    4  ALASKA PENINSULA. <AEIC>. ML 3.6 (AEIC).
17  21 00 00.0& 51.600 N   89.840 W   18 G                    6  ONTARIO, CANADA. <OTT-P>. mbLg 3.9 (OTT).
17  21 02 52.8& 62.600 N  149.190 W   86                      13  CENTRAL ALASKA. <AEIC>.
17  21 57 26.7* 45.358 N   14.568 E   10 G           0.5      10  NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.6 (ZAG).
17  22 08 09.5& 48.520 N    8.150 E    8                       7  GERMANY. <STR>. ML 1.9 (STR), 1.7 (LDG).
17  22 46 48.3& 44.461 N    7.254 E   15                      27  NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.3 (LDG), 2.2 (STR).
18  00 50 34.8*  7.142 N   94.311 E   33 N  5.0 4.5  1.5      60  NICOBAR ISLANDS, INDIA. Mw 5.2 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  00:50:33.5; Lat 7.05 N; Lon 94.56 E; Dep 25.0; Half-
                                                                  duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=7.46, Plg=13, Azm=278; (N) Val=-0.57, Plg=67, Azm=156;
                                                                  (P) Val=-6.89, Plg=19, Azm=12; Best double couple:
                                                                  Mo=7.2*10**16 Nm; NP1: Strike=54, Dip=67, Slip=-5; NP2:
                                                                  Strike=146, Dip=85, Slip=-157.
18  01 12 50.3& 42.883 N   17.606 E    4     3.5             82  ADRIATIC SEA. <PDG>. ML 3.7 (PDG), 3.6 (ROM), 3.4 (LJU).
18  01 19 35.9& 40.510 N  123.558 W   22                      5  NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
18  02 04 03.6*  5.816 N  126.319 E   33 N  4.8       1.1     25  MINDANAO, PHILIPPINE ISLANDS
18  03 41 32.8* 28.705 S  177.464 W   54 D  4.8       1.3     37  KERMADEC ISLANDS REGION
18  04 16 50.2?  6.38  S  148.94  E   33 N  4.3       1.1     11  NEW BRITAIN REGION, P.N.G. ML 4.3 (PMG).
18  04 40 29.3& 46.200 N    7.600 E    2                      11  SWITZERLAND. <LDG>. ML 2.2 (LDG), 2.2 (STR).
18  06 47 04.5*  6.527 S  148.978 E   33 N  4.6       0.8     15  NEW BRITAIN REGION, P.N.G. ML 4.7 (PMG).
18  06 49 47.9* 33.926 N  138.440 E   10 G             0.9      8  SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Kozu-shima.
18  06 58 13.3* 14.120 S  166.459 E   33 N  4.6       1.2     30  VANUATU ISLANDS
18  07 04 46.6& 15.526 N   60.473 W   30                      14  LEEWARD ISLANDS. <FDF>. MD 3.6 (TRN), 3.1 (FDF).
18  07 06 12.2  36.981 N   70.012 E   54 *  4.6       1.4     41  HINDU KUSH REGION, AFGHANISTAN
18  07 50 16.2? 14.58  N   91.86  W   81 *  3.5       1.5      9  GUATEMALA. MD 4.2 (UNM).
18  08 09 51.8* 53.442 N  153.919 E  478 *               1.0      9  SEA OF OKHOTSK
18  08 42 11.1* 14.378 N  144.281 E   33 N              1.1      8  MARIANA ISLANDS
18  11 33 52.9? 31.25  S  179.23  W  106 ?  4.4       1.3     17  KERMADEC ISLANDS REGION
18  11 34 02.1?  6.24  S  148.96  E   33 N  4.2       0.8      8  NEW BRITAIN REGION, P.N.G. ML 4.4 (PMG).
18  11 39 34.3& 41.670 S  174.270 E   19                       8  COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
18  12 56 17.6* 51.420 N   16.097 E    5 G             0.7      7  POLAND. ML 3.0 (VIE).
18  13 09 41.7* 22.016 N  143.181 E  215 ?  4.0       1.0     20  VOLCANO ISLANDS REGION
18  13 30 55.6  43.082 N  143.513 E  117 D  4.8       0.9    109  HOKKAIDO, JAPAN  REGION. Felt (II JMA) in the Kushiro area.
                                                                  Felt in much of eastern Hokkaido.
18  13 41 15.2& 19.002 N   66.355 W   25                       4  PUERTO RICO REGION. <MPR>. MD 2.8 (MPR).
18  15 20 33.9& 34.305 N  116.449 W    6 G                    27  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
18  15 37 07.2& 38.620 S  178.620 E  136                       6  OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
18  16 47 23.9* 36.512 N   70.704 E  197 *               1.0     16  HINDU KUSH REGION, AFGHANISTAN
18  16 55 43.0& 64.920 N  149.040 W   22                      17  CENTRAL ALASKA. <AEIC>. ML 3.6 (AEIC), 3.8 (PMR). Felt at
                                                                  Clear, Ester and Nenana. Also felt (III) at Fairbanks.
18  17 44 55.1   2.425 S  139.675 E   16     6.0 6.1  0.9    208  NEAR NORTH COAST OF IRIAN JAYA. Mw 6.2 (GS), 6.2 (HRV). Me
                                                                  6.1 (GS). Felt (IV) at Jayapura, Sarmi and Sentani; (III)
                                                                  at Wamena.
                                                                 Broadband Source Parameters (GS): Dep 16; NP1: Strike=75,
                                                                  Dip=65, Slip=30; NP2: Strike=331, Dip=63, Slip=152;
                                                                  Radiated energy 2.9*10**13 Nm.
                                                                 Moment Tensor (GS): Dep 23; Principal axes (scale 10**18
                                                                  Nm): (T) Val=1.95, Plg=35, Azm=283; (N) Val=0.15, Plg=54,
                                                                  Azm=96; (P) Val=-2.09, Plg=3, Azm=190; Best double couple:
                                                                  Mo=2.0*10**18 Nm; NP1: Strike=320, Dip=63, Slip=155; NP2:
                                                                  Strike=62, Dip=68, Slip=29.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  17:45:02.7; Lat 2.34 S; Lon 139.86 E; Dep 24.0 Bdy; Half-
                                                                  duration 3.2 sec; Principal axes (scale 10**18 Nm): (T)
                                                                  Val=2.19, Plg=48, Azm=279; (N) Val=0.10, Plg=40, Azm=123;
                                                                  (P) Val=-2.29, Plg=12, Azm=23; Best double couple:
                                                                  Mo=2.2*10**18 Nm; NP1: Strike=74, Dip=48, Slip=30; NP2:
                                                                  Strike=323, Dip=68, Slip=134.
18  18 21 33.0& 62.500 N  149.780 W   47                      14  CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).
18  19 24 41.2   3.168 S  134.128 E   33 N  5.0 5.2  0.8     40  IRIAN JAYA REGION, INDONESIA
18  20 11 27.7* 57.275 N  120.399 E   33 N  4.1       1.3     13  SOUTHEASTERN SIBERIA, RUSSIA
18  20 48 14.5*  3.106 S  148.156 E   33 N  5.0       0.9     21  BISMARCK SEA. Mw 5.3 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  20:48:14.8; Lat 3.49 S; Lon 148.31 E; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.21, Plg=30, Azm=340; (N) Val=-0.52, Plg=59, Azm=180;
                                                                  (P) Val=-0.69, Plg=9, Azm=75; Best double couple:
                                                                  Mo=9.5*10**16 Nm; NP1: Strike=122, Dip=63, Slip=16; NP2:
                                                                  Strike=24, Dip=76, Slip=152.
18  20 55 43.1* 51.520 N   16.165 E    5 G             0.5      8  POLAND. ML 3.2 (VIE).
18  21 04 13.7& 39.792 N  122.642 W   15                      12  NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).
18  22 21 34.7? 18.00  S  179.42  W  650 G  4.3       1.1     13  FIJI ISLANDS REGION
18  22 28 28.8* 20.111 N  122.258 E   33 N              0.6      8  PHILIPPINE ISLANDS REGION
18  23 15 20.0* 37.966 N   20.679 E   10 G  3.7       1.2      7  IONIAN SEA
19  00 19 25.0& 37.450 N  117.100 W    0                      13  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN).
19  00 24 18.8* 28.584 S   62.404 E   10 G  4.6       0.9     11  SOUTHWEST INDIAN RIDGE
19  00 43 23.9* 52.029 N  178.516 E   33 N              0.8      8  RAT ISLANDS, ALEUTIAN ISLANDS
19  00 48 36.9  12.870 N  144.571 E   51 D  6.0 5.6  0.9    298  SOUTH OF MARIANA ISLANDS. Mw 6.0 (GS), 6.0 (HRV). Me 5.5
                                                                  (GS). Felt throughout Guam. Also felt on Saipan.
                                                                 Broadband Source Parameters (GS): Dep 45; NP1: Strike=15,
                                                                  Dip=75, Slip=120; NP2: Strike=129, Dip=33, Slip=28;
                                                                  Radiated energy 3.7*10**12 Nm.
                                                                 Moment Tensor (GS): Dep 52; Principal axes (scale 10**18
                                                                  Nm): (T) Val=1.36, Plg=58, Azm=324; (N) Val=-0.38, Plg=28,
                                                                  Azm=177; (P) Val=-0.98, Plg=15, Azm=79; Best double couple:
                                                                  Mo=1.2*10**18 Nm; NP1: Strike=136, Dip=39, Slip=42; NP2:
                                                                  Strike=11, Dip=66, Slip=121.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  00:48:41.5; Lat 12.88 N; Lon 144.81 E; Dep 52.0 Bdy; Half-
                                                                  duration 2.6 sec; Principal axes (scale 10**18 Nm): (T)
                                                                  Val=1.15, Plg=53, Azm=314; (N) Val=0.01, Plg=4, Azm=49; (P)
                                                                  Val=-1.16, Plg=37, Azm=142; Best double couple:
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													Mo=1.2*10**18 Nm; NP1: Strike=253, Dip=9, Slip=114; NP2: Strike=48, Dip=82, Slip=86.
19	01	26	26.9&	19.333	N	65.019	W	10				8	PUERTO RICO REGION. <MPR>. MD 4.1 (MPR).
19	02	26	35.2	61.871	N	149.125	W	10	G		1.0	13	SOUTHERN ALASKA. ML 3.0 (PMR).
19	02	50	32.2&	8.550	S	115.100	E	136				4	BALI REGION, INDONESIA. <DJA>.
19	03	31	52.3&	39.780	S	174.840	E	87				14	NORTH ISLAND, NEW ZEALAND. <WEL>.
19	03	38	32.2	3.986	S	131.331	E	33	N	5.7 5.9	1.1	145	IRIAN JAYA REGION, INDONESIA. Mw 5.9 (HRV), 5.8 (GS). Moment Tensor (GS): Dep 9; Principal axes (scale 10**17 Nm): (T) Val=5.64, Plg=75, Azm=260; (N) Val=0.23, Plg=10, Azm=126; (P) Val=-5.86, Plg=10, Azm=34; Best double couple: Mo=5.7*10**17 Nm; NP1: Strike=111, Dip=36, Slip=72; NP2: Strike=313, Dip=56, Slip=103. Centroid, Moment Tensor (HRV): Centroid origin time 03:38:36.0; Lat 3.72 S; Lon 131.46 E; Dep 19.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=9.00, Plg=62, Azm=240; (N) Val=-0.34, Plg=4, Azm=337; (P) Val=-8.67, Plg=27, Azm=69; Best double couple: Mo=8.8*10**17 Nm; NP1: Strike=168, Dip=18, Slip=102; NP2: Strike=336, Dip=73, Slip=86.
19	04	21	15.0*	14.119	S	166.563	E	33	N	4.4	1.1	36	VANUATU ISLANDS
19	04	29	34.6*	31.944	N	139.806	E	168	*		0.9	13	SOUTH OF HONSHU, JAPAN
19	04	47	34.3	12.892	N	144.653	E	33	N	5.1	0.9	67	SOUTH OF MARIANA ISLANDS. Mw 5.3 (HRV). Felt on Guam. Centroid, Moment Tensor (HRV): Centroid origin time 04:47:41.2; Lat 12.46 N; Lon 144.54 E; Dep 17.3; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.42, Plg=58, Azm=297; (N) Val=-0.57, Plg=9, Azm=192; (P) Val=-0.85, Plg=30, Azm=96; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=160, Dip=17, Slip=57; NP2: Strike=14, Dip=76, Slip=99.
19	05	19	41.1	51.639	N	16.188	E	5	G		1.0	46	POLAND. ML 4.6 (GRF), 4.2 (FUR), 4.0 (VIE), 3.8 (CLL).
19	05	49	31.2*	14.070	S	166.490	E	33	N	4.7	1.1	45	VANUATU ISLANDS
19	08	42	49.1&	29.700	N	34.950	E	17				13	EGYPT. <GII>. ML 4.1 (GII).
19	08	45	41.8&	36.730	S	176.820	E	336				14	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
19	09	19	43.3	2.271	S	134.324	E	33	N	4.7	1.1	22	IRIAN JAYA REGION, INDONESIA
19	09	57	48.6	38.211	N	20.374	E	10	G	4.1	1.4	48	GREECE. MD 3.7 (PDG).
19	11	40	42.1&	16.530	N	61.079	W	28				6	LEEWARD ISLANDS. <FDF>. MD 2.6 (FDF).
19	11	54	49.6*	23.956	N	121.597	E	33	N		1.2	9	TAIWAN. Felt (II JMA) in southwestern I-lan County and (I JMA) at Hua-lien.
19	12	11	12.7	26.715	N	54.728	E	33	N	4.3	0.7	21	SOUTHERN IRAN
19	12	15	06.0	4.548	S	151.102	E	33	N	5.2	1.3	49	NEW BRITAIN REGION, P.N.G.
19	12	19	25.9	4.579	S	151.234	E	33	N	5.3 5.4	1.0	62	NEW BRITAIN REGION, P.N.G. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:19:27.3; Lat 4.42 S; Lon 151.43 E; Dep 15.0 Fix; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.61, Plg=1, Azm=340; (N) Val=0.02, Plg=77, Azm=75; (P) Val=-4.63, Plg=13, Azm=250; Best double couple: Mo=4.6*10**17 Nm; NP1: Strike=26, Dip=80, Slip=-172; NP2: Strike=295, Dip=82, Slip=-10.
19	12	20	01.6&	18.011	N	66.927	W	6				5	PUERTO RICO REGION. <MPR>. MD 2.3 (MPR).
19	12	32	25.1&	40.747	N	31.240	E	0				5	TURKEY. <ISK>. MD 2.9 (ISK). Felt at Bolu.
19	12	32	33.7*	4.709	S	151.372	E	69	?	5.0	0.9	29	NEW BRITAIN REGION, P.N.G.
19	13	15	42.9*	32.086	N	141.756	E	33	N	4.3	1.4	11	SOUTH OF HONSHU, JAPAN
19	13	26	53.9*	4.716	S	151.075	E	76	?	4.7	1.2	18	NEW BRITAIN REGION, P.N.G.
19	13	30	04.0*	4.019	S	131.504	E	33	N		0.7	8	BANDA SEA
19	14	19	33.3&	41.500	S	172.890	E	115				16	SOUTH ISLAND, NEW ZEALAND. <WEL>.
19	15	20	03.0?	52.43	N	175.25	W	200	G	4.2	1.2	10	ANDREANOF ISLANDS, ALEUTIAN IS.
19	15	56	45.1&	46.000	N	0.500	W	2				17	FRANCE. <LDG>. ML 2.4 (LDG).
19	17	09	36.6*	4.631	S	151.529	E	33	N	4.6	1.3	11	NEW BRITAIN REGION, P.N.G.
19	17	39	28.3*	4.675	S	151.780	E	33	N	4.0	1.2	10	NEW BRITAIN REGION, P.N.G.
19	17	48	42.3*	2.845	N	123.746	E	410		4.1	0.8	17	CELEBES SEA
19	17	57	19.5*	16.524	N	119.227	E	33	N		1.2	8	LUZON, PHILIPPINE ISLANDS
19	18	28	29.7*	15.916	S	168.160	E	33	N		1.3	7	VANUATU ISLANDS
19	19	51	05.6*	23.959	N	123.259	E	33	N		1.4	12	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Iriomote-jima and (I JMA) on Ishigaki-jima.
19	20	12	46.7	52.571	N	174.615	W	152	*	4.4	0.7	49	ANDREANOF ISLANDS, ALEUTIAN IS.
19	20	26	17.0?	6.34	N	72.89	W	190	*		0.7	8	NORTHERN COLOMBIA
19	20	45	49.2	8.937	S	123.092	E	73		4.4	0.7	31	FLORES REGION, INDONESIA
19	20	59	23.8&	38.900	S	174.610	E	12				5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.9 (WEL).
19	22	17	05.2&	46.300	N	7.300	E	2				10	SWITZERLAND. <LDG>. ML 2.0 (LDG).
19	23	02	03.2&	17.106	N	99.874	W	47				7	GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
19	23	14	11.3&	39.790	S	174.680	E	102				9	NORTH ISLAND, NEW ZEALAND. <WEL>.
19	23	26	42.9&	40.110	S	174.810	E	11				8	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
19	23	37	19.7	40.906	N	33.848	E	10	G	4.0	1.3	13	TURKEY. MD 4.0 (ISK).
20	00	02	16.2*	40.887	N	33.912	E	10	G		1.1	8	TURKEY. MD 3.8 (ISK).
20	00	15	26.9&	41.450	S	172.950	E	119				6	SOUTH ISLAND, NEW ZEALAND. <WEL>.
20	00	55	26.0*	3.031	S	148.273	E	33	N	4.4	0.9	9	BISMARCK SEA
20	01	47	16.7*	2.227	S	134.269	E	33	N	4.3	1.2	12	IRIAN JAYA REGION, INDONESIA
20	01	51	39.4&	16.198	N	94.092	W	107				5	OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
20	01	57	09.7*	7.429	N	35.232	W	10	G	4.2	0.9	10	CENTRAL MID-ATLANTIC RIDGE
20	02	39	46.3&	34.519	N	116.270	W	0				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
20	03	03	08.3&	43.000	N	1.000	W	2				7	PYRENEES. <LDG>. ML 2.2 (STR), 2.0 (LDG).
20	03	27	19.9	40.785	N	30.873	E	10	G	4.3	1.2	58	TURKEY
20	06	25	28.3	7.865	S	122.909	E	219		4.9	1.0	96	FLORES SEA
20	06	43	35.1*	16.473	N	119.451	E	33	N	4.5	0.7	11	LUZON, PHILIPPINE ISLANDS
20	06	55	46.0	16.548	N	119.201	E	33	N	4.7	0.8	26	LUZON, PHILIPPINE ISLANDS
20	07	08	35.3&	18.160	N	67.177	W	17				5	MONA PASSAGE. <MPR>. MD 2.5 (MPR).
20	07	31	03.6&	38.670	S	175.870	E	157				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
20	07	43	48.3&	40.626	N	29.096	E	11				4	TURKEY. <ISK>. MD 2.5 (ISK).
20	08	48	10.9?	20.04	N	145.23	E	165	?	4.4	0.7	14	MARIANA ISLANDS
20	09	08	14.7*	37.032	N	70.004	E	67	?	4.6	1.1	13	AFGHANISTAN-TAJIKISTAN BORD REG.
20	09	24	36.1&	39.150	S	175.040	E	12				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
20	09	35	30.7	15.476	S	72.611	W	109	D	5.1	0.9	105	SOUTHERN PERU. Mw 5.4 (HRV). Felt (II) at Chuquibamba and Cotahuasi.

Centroid, Moment Tensor (HRV): Centroid origin time 09:35:40.8; Lat 15.41 S; Lon 72.63 W; Dep 126.0; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=18, Azm=260; (N) Val=0.16, Plg=27, Azm=359; (P) Val=-1.36, Plg=57, Azm=140; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=315, Dip=36, Slip=-140; NP2: Strike=191, Dip=68, Slip=-61.

20	09	36	37.1*	24.073	S	179.559	E	600	G	4.4	0.6	13	SOUTH OF FIJI ISLANDS
20	10	10	02.7	6.843	S	107.198	E	115		4.6	1.4	25	JAWA, INDONESIA
20	10	12	43.9*	52.531	N	173.195	E	89			0.3	10	NEAR ISLANDS, ALEUTIAN ISLANDS
20	10	34	24.6*	37.121	N	69.671	E	33	N	3.5	1.1	11	AFGHANISTAN-TAJIKISTAN BORD REG.
20	10	43	00.9	17.312	N	61.705	W	59		5.4	0.8	260	LEEWARD ISLANDS. Mw 5.4 (GS), 5.4 (HRV). MD 5.2 (TRN). Felt (IV) on Guadeloupe and Montserrat; (III) on St. Kitts; (II) on Martinique. Also felt on Antigua and Nevis.

Moment Tensor (GS): Dep 34; Principal axes (scale 10**17 Nm): (T) Val=1.27, Plg=38, Azm=305; (N) Val=0.52, Plg=43, Azm=169; (P) Val=-1.78, Plg=24, Azm=55; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=96, Dip=44, Slip=12; NP2: Strike=357, Dip=82, Slip=133.

Centroid, Moment Tensor (HRV): Centroid origin time 10:43:05.8; Lat 17.41 N Fix; Lon 61.66 W Fix; Dep 53.7 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.31, Plg=63, Azm=265; (N) Val=-0.14, Plg=11, Azm=153; (P) Val=-1.17, Plg=25, Azm=57; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=125, Dip=23, Slip=60; NP2: Strike=337, Dip=70, Slip=102.

20	11	40	00.5*	17.539	S	65.334	W	33	N	4.4	1.1	11	CENTRAL BOLIVIA
20	11	42	44.6&	40.450	S	174.980	E	48				16	COOK STRAIT, NEW ZEALAND. <WEL>. Felt at Wellington on the North Island.
20	11	46	35.9&	40.694	N	30.496	E	7				12	TURKEY. <ISK>. MD 3.6 (ISK). Felt at Adapazari and Akyazi.
20	11	46	54.2	24.517	N	97.774	E	52	*	4.6	0.9	21	MYANMAR-CHINA BORDER REGION
20	11	55	23.1*	19.983	S	177.529	W	400	G	4.4	1.0	25	FIJI ISLANDS REGION
20	12	03	49.6&	40.713	N	30.541	E	1				7	TURKEY. <ISK>. MD 2.9 (ISK).
20	12	05	54.9&	34.692	N	116.312	W	1				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
20	12	07	13.3&	34.688	N	116.314	W	1				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
20	13	23	30.1&	19.169	N	66.087	W	25				5	PUERTO RICO REGION. <MPR>. MD 3.2 (MPR).
20	13	53	15.1*	5.549	S	140.876	E	33	N	4.0	1.3	9	IRIAN JAYA, INDONESIA
20	13	55	55.8&	18.781	N	66.652	W	50				5	PUERTO RICO REGION. <MPR>. MD 2.8 (MPR).
20	14	25	07.2&	19.060	N	66.076	W	5				5	PUERTO RICO REGION. <MPR>. MD 3.2 (MPR).
20	14	40	02.3?	43.44	N	127.25	W	10	G		0.5	29	OFF COAST OF OREGON
20	14	56	51.9%	16.494	N	119.091	E	33	N		0.5	5	LUZON, PHILIPPINE ISLANDS
20	16	06	26.9	51.547	N	16.121	E	5	G		0.7	13	POLAND. ML 3.2 (VIE).
20	17	39	14.3*	16.521	N	119.113	E	33	N	4.2	0.9	10	LUZON, PHILIPPINE ISLANDS
20	18	27	29.4	55.654	S	26.404	W	33	N	5.2 4.3	1.1	29	SOUTH SANDWICH ISLANDS REGION
20	19	31	49.1*	55.571	S	26.339	W	33	N	4.4	0.5	11	SOUTH SANDWICH ISLANDS REGION
20	19	58	49.3&	8.430	S	114.100	E	141				4	BALI REGION, INDONESIA. <DJA>.
20	20	35	19.0&	37.970	N	115.880	W	7				31	SOUTHERN NEVADA. <REN-P>. MD 3.6 (REN). ML 3.7 (GS).
20	20	36	03.5	19.109	N	64.253	W	33	N		0.7	13	VIRGIN ISLANDS. MD 4.0 (MPR).
20	20	42	31.0&	59.780	N	152.550	W	72				10	SOUTHERN ALASKA. <AEIC>.
20	20	44	12.1&	34.853	N	116.340	W	6				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
20	21	12	10.5	36.898	S	73.226	W	33	N	4.9 4.2	1.0	29	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Concepcion and Lebu; (III) at Angol, Antiguala, Arauco, Canete, Contulmo, Curanilahue, Los Alamos and Tirua; (II) at Temuco. Also felt (III) on Isla Mocha.
20	21	26	44.2*	18.372	N	103.917	W	33	N	3.9	1.3	12	NEAR COAST OF MICHOACAN, MEXICO. MD 4.4 (UNM).
20	22	05	18.4*	55.006	N	165.483	E	33	N		0.7	9	KOMANDORSKY ISLANDS REGION
20	22	13	40.1&	18.522	N	66.140	W	112				7	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
20	22	32	17.7*	16.071	S	168.037	E	33	N	4.3	0.8	11	VANUATU ISLANDS
20	22	35	51.3?	40.63	N	27.46	E	10	G		0.7	17	TURKEY
20	23	05	04.0*	2.464	S	139.938	E	33	N	4.2	1.0	14	NEAR NORTH COAST OF IRIAN JAYA
20	23	40	22.2	43.993	N	21.058	E	10	G	3.6	1.0	75	NORTHWESTERN BALKAN REGION. ML 3.7 (PDG).
20	23	50	27.6*	36.897	S	73.082	W	33	N	4.4	0.8	16	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Concepcion and (III) at Angol, Antiguala, Arauco, Canete, Contulmo, Curanilahue, Lebu, Los Alamos, Penco, Talcahuano and Tirua. Also felt (III) on Isla Mocha.
21	00	12	24.1*	40.360	N	42.369	E	10	G	3.9	1.2	11	TURKEY
21	01	01	29.7?	34.23	N	138.80	E	33	N	4.0	1.3	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on O-shima and (I JMA) on Kozu-shima and Miyake-jima. Also felt (I JMA) in southern Chiba, eastern Kanagawa and southeastern Shizuoka Prefectures.
21	01	08	18.3	23.114	N	142.747	E	95	*	4.6	0.9	48	VOLCANO ISLANDS REGION
21	02	13	29.8	6.254	S	148.854	E	72	*	5.1	0.8	43	NEW BRITAIN REGION, P.N.G.
21	03	04	26.3	53.381	N	153.654	E	496		4.2	0.6	42	SEA OF OKHOTSK
21	03	12	40.9*	16.502	N	119.255	E	33	N	4.4	1.3	15	LUZON, PHILIPPINE ISLANDS
21	03	19	07.9*	21.296	N	157.412	W	10	G		1.2	9	HAWAII. MD 3.0 (HVO).
21	03	22	37.5	44.975	N	23.073	E	33	N	3.8	1.2	58	ROMANIA. MD 4.0 (PDG).
21	03	38	19.5*	16.473	N	119.501	E	33	N	4.0	0.7	10	LUZON, PHILIPPINE ISLANDS
21	06	11	31.2*	46.073	N	14.331	E	10	G		0.3	5	NORTHWESTERN BALKAN REGION. ML 1.6 (LJU), 1.6 (VIE).
21	06	20	32.7*	43.200	N	126.432	W	10	G	2.7	0.4	31	OFF COAST OF OREGON
21	07	08	59.7&	38.700	S	176.200	E	82				11	NORTH ISLAND, NEW ZEALAND. <WEL>.
21	09	26	25.3&	17.060	N	95.574	W	152				7	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
21	10	21	31.2	44.502	N	129.448	W	10	G	4.2	0.5	74	OFF COAST OF OREGON
21	11	00	48.8	55.830	N	110.029	E	10	G	5.5 5.0	0.8	285	LAKE BAYKAL REGION, RUSSIA. Mw 5.5 (HRV). Felt (VI) at Verkhnyaya Zaimka; (V) at Kichera; (IV) at Barguzin, Chita, Kumora, Tonnelnyy and Uoyan; (III) at Bodaybo, Irkutsk, Nizhneangarsk, Ulan-Ude and Ulyunkhan.

Centroid, Moment Tensor (HRV): Centroid origin time 11:00:50.9; Lat 56.02 N; Lon 110.63 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.54, Plg=1, Azm=330; (N) Val=0.58, Plg=33, Azm=239; (P) Val=-2.12, Plg=57, Azm=62; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=89, Dip=53, Slip=-46; NP2: Strike=212, Dip=55, Slip=-132.

21	11	14	23.7&	34.617	N	116.287	W	4				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
21	11	21	54.2*	21.138	S	68.196	W	139	*	4.3	0.7	17	CHILE-BOLIVIA BORDER REGION
21	11	26	44.7&	45.530	S	166.200	E	20		4.5		29	OFF W. COAST OF S. ISLAND, N.Z. <WEL>.
21	13	29	24.6*	51.479	N	15.969	E	5	G		0.5	10	POLAND. ML 3.4 (VIE).
21	13	40	39.6&	39.890	S	175.110	E	54				8	NORTH ISLAND, NEW ZEALAND. <WEL>.
21	14	07	03.1*	16.446	N	119.070	E	33	N	4.6	1.2	16	LUZON, PHILIPPINE ISLANDS
21	14	10	16.9&	19.041	N	64.411	W	40				10	VIRGIN ISLANDS. <MPR>. MD 3.7 (MPR).
21	14	14	57.6	6.845	S	105.555	E	56	D	6.2 6.3	1.0	435	SUNDA STRAIT. Mw 6.5 (GS), 6.5 (HRV). Me 6.4 (GS). Five people killed at Pandeglang, more than 220 injured and 2,800 houses damaged in western Jawa. Damage estimated at 3.9 million US dollars. Felt (V) at Jakarta and (III) at Bandung and Bekasi, Jawa; (III) at Liwa and Tanjungkarang-Telukbetung, Sumatera. Felt throughout western Jawa and in southeastern Sumatera, Indonesia. Broadband Source Parameters (GS): Dep 42; NP1: Strike=270, Dip=90, Slip=-135; NP2: Strike=180, Dip=45, Slip=0; Radiated energy 8.3*10**13 Nm. Moment Tensor (GS): Dep 45; Principal axes (scale 10**18 Nm): (T) Val=5.90, Plg=41, Azm=31; (N) Val=-0.93, Plg=33, Azm=266; (P) Val=-4.97, Plg=31, Azm=153; Best double couple: Mo=5.4*10**18 Nm; NP1: Strike=189, Dip=33, Slip=11; NP2: Strike=90, Dip=84, Slip=123. Centroid, Moment Tensor (HRV): Centroid origin time 14:15:01.5; Lat 7.06 S; Lon 105.54 E; Dep 56.0 Fix; Half-duration 5.4 sec; Principal axes (scale 10**18 Nm): (T) Val=5.54, Plg=36, Azm=45; (N) Val=-0.02, Plg=32, Azm=288; (P) Val=-5.52, Plg=37, Azm=169; Best double couple: Mo=5.5*10**18 Nm; NP1: Strike=197, Dip=32, Slip=-1; NP2: Strike=287, Dip=89, Slip=-122.
21	14	19	45.4*	42.657	N	144.721	E	33	N		0.9	8	HOKKAIDO, JAPAN REGION
21	14	48	51.7&	7.568	N	80.548	W	10	G			4	PANAMA. <UPA>. MD 3.7 (UPA).
21	14	54	49.8?	45.03	N	147.96	E	33	N	4.6	1.0	19	KURIL ISLANDS
21	15	51	47.0?	59.98	N	152.75	W	100	G	3.0	0.7	7	SOUTHERN ALASKA
21	16	51	27.1*	55.852	N	110.106	E	10	G	4.5	0.9	13	LAKE BAYKAL REGION, RUSSIA
21	17	17	30.8?	30.94	N	86.22	E	33	N	4.0	1.5	8	XIZANG
21	17	22	00.4&	17.095	N	94.502	W	222				5	CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
21	17	25	12.6*	27.918	S	26.673	E	5	G	4.5	1.4	12	REPUBLIC OF SOUTH AFRICA
21	18	32	30.8&	44.345	N	7.258	E	11				4	NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
21	18	39	50.2	17.424	N	113.396	W	10	G	4.9 4.5	1.0	105	REVILLA GIGEDO ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:39:53.4; Lat 17.69 N; Lon 113.65 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.22, Plg=11, Azm=321; (N) Val=0.41, Plg=28, Azm=57; (P) Val=-1.63, Plg=59, Azm=212; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=20, Dip=42, Slip=-135; NP2: Strike=254, Dip=62, Slip=-57.
21	20	06	41.9*	27.356	N	102.579	E	33	N	4.0	1.5	8	SICHUAN, CHINA. ML 3.6 (BJI).
21	20	48	21.7	10.197	S	161.088	E	87	D	5.0	0.9	48	SOLOMON ISLANDS
21	22	27	49.2*	27.873	N	54.117	E	33	N	4.3	1.5	21	SOUTHERN IRAN
21	22	45	51.4?	19.99	N	70.55	W	10	G	3.9	1.4	9	DOMINICAN REPUBLIC REGION
21	22	56	56.7	35.350	N	27.700	E	33	N	4.2	1.3	44	DODECANESE ISLANDS
22	00	10	29.5&	42.409	N	19.276	E	20				7	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.8 (PDG).
22	00	28	12.7?	24.18	N	94.72	E	97	?	4.6	0.7	7	MYANMAR-INDIA BORDER REGION
22	01	39	42.2*	55.961	N	109.865	E	10	G	4.5	1.4	18	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Kichera and Verkhnyaya Zaimka; (II) at Nizhneangarsk.
22	01	58	07.4?	12.04	N	44.02	W	10	G	4.3	1.0	11	NORTHERN MID-ATLANTIC RIDGE
22	02	37	46.5*	55.791	N	110.375	E	10	G	4.2	1.4	16	LAKE BAYKAL REGION, RUSSIA
22	02	51	52.2*	15.144	S	174.169	W	33	N	4.8	0.7	44	TONGA ISLANDS
22	03	42	36.6&	16.496	N	95.093	W	121				7	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
22	03	59	27.8&	44.284	N	7.473	E	2				18	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.8 (STR), 1.7 (LDG).
22	04	24	15.4?	55.40	N	110.71	E	10	G	3.9	0.3	7	LAKE BAYKAL REGION, RUSSIA
22	04	42	00.2	16.529	N	119.008	E	40	*	4.8	0.9	71	LUZON, PHILIPPINE ISLANDS
22	05	33	12.9&	40.110	S	173.730	E	165				11	COOK STRAIT, NEW ZEALAND. <WEL>.
22	06	07	16.6*	8.311	S	79.318	W	73	*	4.4	0.8	32	NEAR COAST OF NORTHERN PERU. Felt (III) at Trujillo and (II) at Ascope and Otuzco.
22	06	45	15.9	38.131	N	73.080	E	146		4.8	0.8	103	TAJIKISTAN-XINJIANG BORDER REG.
22	07	56	11.6	39.899	N	120.499	W	5	G		0.8	10	NORTHERN CALIFORNIA. MD 2.8 (GM).
22	08	03	31.0&	38.750	N	111.530	W	2		4.1		55	UTAH. <SLC-P>. ML 3.9 (SLC).
22	08	39	40.2*	57.196	S	26.437	W	192	?	4.1	1.2	19	SOUTH SANDWICH ISLANDS REGION
22	08	40	25.9	40.955	N	20.373	E	10	G	4.0	1.4	44	GREECE-ALBANIA BORDER REGION. MD 3.9 (PDG). ML 3.8 (ROM). Felt (V) at Kukes and Peshkopi, Albania. Felt (IV) at Ohrid, Resen and Struga, former Yugoslav Republic of Macedonia.
22	09	06	11.7	41.845	N	20.533	E	10	G	4.8 4.7	1.3	197	ALBANIA. Mw 5.1 (HRV). ML 4.7 (PDG), 4.7 (ROM). Felt (V) at Kukes and Peshkopi. Felt (V) at Gostivar and Tetovo; (IV) at Debar, Kicevo and Skopje, former Yugoslav Republic of Macedonia. Centroid, Moment Tensor (HRV): Centroid origin time 09:06:17.1; Lat 41.61 N; Lon 20.83 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=5.43, Plg=1, Azm=99; (N) Val=-0.35, Plg=0, Azm=9; (P) Val=-5.08, Plg=89, Azm=279; Best double couple: Mo=5.3*10**16 Nm; NP1: Strike=189, Dip=44, Slip=-90; NP2: Strike=9, Dip=46, Slip=-90.
22	09	10	34.5	41.949	N	20.617	E	10	G	4.5	1.4	91	ALBANIA. ML 4.6 (ROM), 4.2 (PDG). Felt (V) at Kukes and Peshkopi. Felt (V) at Gostivar and Tetovo; (IV) at Skopje, former Yugoslav Republic of Macedonia.
22	09	11	00.6&	34.619	N	116.251	W	0				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
22	09	12	11.8&	42.076	N	20.478	E	15				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 3.8 (PDG).
22	09	16	59.3&	34.618	N	116.250	W	0				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
22	09	28	53.8&	33.097	N	116.052	W	6				23	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
22	09	36	46.2*	3.295	N	122.629	E	526	?	4.4	0.7	17	CELEBES SEA
22	09	41	05.2	41.869	N	20.534	E	10	G	4.6	1.3	156	ALBANIA. ML 4.7 (ROM), 4.4 (PDG). Felt (V) at Kukes and

Peshkopi. Felt (IV) at Gostivar and Tetovo; (III) at Skopje, former Yugoslav Republic of Macedonia.

22	09	52	26.3&	42.100	N	20.564	E	7				12	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.7 (PDG).
22	10	14	59.8&	41.886	N	20.550	E	16				11	ALBANIA. <PDG>. MD 2.5 (PDG).
22	10	25	37.1&	42.023	N	20.607	E	10				12	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.7 (PDG).
22	10	58	46.0&	42.075	N	20.509	E	12				12	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).
22	10	59	32.5*	46.835	N	153.738	E	33	N	4.0	0.7	10	KURIL ISLANDS
22	11	02	58.6&	46.600	N	6.800	E	2				29	SWITZERLAND. <LDG>. ML 2.6 (LDG), 2.4 (STR), 2.3 (FBB).
22	11	11	07.1&	41.986	N	20.543	E	10				12	ALBANIA. <PDG>. MD 2.8 (PDG).
22	11	17	27.1	31.969	N	131.583	E	42	D	5.1 4.5	0.7	99	KYUSHU, JAPAN. Felt (III JMA) in southern Kumamoto and central Miyazaki Prefectures. Felt in much of Kyushu. Also felt (I JMA) in western Ehime and western Kochi Prefectures, Shikoku.
22	11	31	00.9&	41.935	N	20.645	E	10				12	ALBANIA. <PDG>. MD 3.1 (PDG).
22	12	07	56.5&	42.800	N	6.900	E	10				4	WESTERN MEDITERRANEAN SEA. <LDG>. ML 1.6 (LDG).
22	12	11	27.6*	54.345	S	1.974	E	10	G	5.1 5.3	1.0	18	BOUVET ISLAND REGION. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:11:36.7; Lat 54.51 S; Lon 2.30 E; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.90, Plg=1, Azm=1; (N) Val=0.20, Plg=78, Azm=265; (P) Val=-4.10, Plg=12, Azm=91; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=135, Dip=81, Slip=-8; NP2: Strike=226, Dip=82, Slip=-170.
22	12	19	25.6&	42.610	N	0.220	E	10				4	PYRENEES. <STR>. ML 2.4 (STR).
22	12	28	08.5&	43.000	N	0.400	E	18				8	FRANCE. <LDG>. ML 2.4 (STR), 2.2 (LDG).
22	12	52	07.6?	13.41	S	111.92	W	10	G	4.6 4.6	0.9	33	CENTRAL EAST PACIFIC RISE
22	13	20	59.0*	10.634	S	165.186	E	33	N	4.7	0.9	18	SANTA CRUZ ISLANDS
22	13	32	37.5	10.885	S	165.457	E	33	N	5.6 5.7	1.0	160	SANTA CRUZ ISLANDS. Mw 6.0 (HRV), 5.9 (GS). Me 5.5 (GS). Broadband Source Parameters (GS): Dep 12; NP1: Strike=20, Dip=45, Slip=100; NP2: Strike=186, Dip=46, Slip=80; Radiated energy 4.4*10**12 Nm. Moment Tensor (GS): Dep 20; Principal axes (scale 10**17 Nm): (T) Val=9.29, Plg=72, Azm=132; (N) Val=-0.03, Plg=16, Azm=342; (P) Val=-9.26, Plg=9, Azm=250; Best double couple: Mo=9.3*10**17 Nm; NP1: Strike=322, Dip=39, Slip=64; NP2: Strike=173, Dip=55, Slip=109. Centroid, Moment Tensor (HRV): Centroid origin time 13:32:45.3; Lat 10.95 S Fix; Lon 165.26 E Fix; Dep 15.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.07, Plg=77, Azm=32; (N) Val=0.04, Plg=10, Azm=170; (P) Val=-1.11, Plg=9, Azm=261; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=3, Dip=37, Slip=106; NP2: Strike=163, Dip=54, Slip=78.
22	13	52	55.1&	41.861	N	20.607	E	7				35	ALBANIA. <PDG>. MD 3.7 (PDG).
22	15	23	56.5*	31.216	N	131.478	E	66	?	4.4	1.3	16	KYUSHU, JAPAN. Felt in southern Kyushu.
22	16	39	11.3?	2.05	N	94.90	W	10	G	4.5	0.5	33	GALAPAGOS ISLANDS REGION
22	17	36	56.2	35.321	N	1.281	W	10	G	5.4 5.5	1.2	346	NORTHERN ALGERIA. Mw 5.6 (HRV). mbLg 5.7 (MDD). Twenty-four people killed, about 175 injured and 3,000 houses destroyed (VII) in the Ain Temouchent area. Felt at Arzew, Mascara, Oran and Tlemcen. Felt at Oujda, Morocco. Felt (III) at Almeria, Cartagena and Melilla, Spain. Centroid, Moment Tensor (HRV): Centroid origin time 17:37:00.5; Lat 35.34 N; Lon 1.45 W; Dep 15.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.17, Plg=74, Azm=218; (N) Val=1.58, Plg=16, Azm=46; (P) Val=-3.74, Plg=2, Azm=315; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=29, Dip=45, Slip=67; NP2: Strike=240, Dip=49, Slip=111.
22	17	53	49.3&	40.441	N	124.608	W	18				4	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
22	17	54	21.7*	35.445	N	1.369	W	10	G		1.0	16	NORTHERN ALGERIA
22	17	57	13.9*	35.293	N	1.374	W	10	G		1.2	17	NORTHERN ALGERIA. mbLg 4.6 (MDD).
22	18	58	47.5*	17.537	S	178.434	W	578	?	4.4	0.9	41	FIJI ISLANDS REGION
22	19	04	28.3&	42.055	N	20.588	E	9				11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.5 (PDG).
22	20	50	50.7*	36.855	N	21.383	E	33	N	4.0	1.0	27	SOUTHERN GREECE
22	20	55	31.8?	27.97	N	54.15	E	33	N	3.9	1.0	8	SOUTHERN IRAN
22	21	27	43.9*	27.948	N	54.073	E	33	N	3.6	1.2	9	SOUTHERN IRAN
22	21	32	33.3*	16.581	N	119.818	E	98	*	3.7	0.9	7	LUZON, PHILIPPINE ISLANDS
22	21	42	20.5	16.531	N	119.141	E	33	N	5.1	0.9	49	LUZON, PHILIPPINE ISLANDS
22	21	45	25.1&	16.624	N	96.492	W	62				5	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
22	21	52	19.4*	27.930	N	54.142	E	33	N	4.4	1.1	17	SOUTHERN IRAN
22	22	08	07.2	0.625	S	91.882	W	10	G	5.1 4.8	1.0	86	GALAPAGOS ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:08:13.2; Lat 0.62 S Fix; Lon 91.88 W Fix; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.34, Plg=16, Azm=347; (N) Val=0.13, Plg=58, Azm=104; (P) Val=-3.47, Plg=27, Azm=248; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=30, Dip=59, Slip=-171; NP2: Strike=295, Dip=83, Slip=-32.
22	22	08	27.2?	27.87	N	54.16	E	33	N	3.7	1.4	6	SOUTHERN IRAN
22	22	30	41.3&	44.662	N	7.176	E	10				18	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 1.9 (LDG).
22	23	45	31.7?	45.36	N	127.35	W	10	G		0.7	23	OFF COAST OF OREGON
22	23	53	06.2*	4.755	S	129.722	E	144	*	3.9	0.9	11	BANDA SEA
22	23	56	45.2&	44.365	N	121.045	W	0				21	OREGON. <SEA-P>. MD 2.8 (SEA).
23	01	38	07.3*	16.571	N	119.445	E	70	*	4.4	1.1	20	LUZON, PHILIPPINE ISLANDS
23	02	06	14.5&	41.883	N	20.559	E	9				11	ALBANIA. <PDG>. ML 3.3 (PDG), 3.1 (SKO).
23	02	41	28.6?	51.43	N	16.00	E	5	G		1.1	8	POLAND. ML 3.3 (VIE).
23	02	42	24.0&	64.867	N	149.033	W	23				11	CENTRAL ALASKA. <AEIC>. ML 3.8 (AEIC), 4.1 (PMR). Felt in the epicentral area.
23	03	07	31.4	29.493	N	51.820	E	55	*	4.7	0.8	65	SOUTHERN IRAN
23	04	33	42.3&	40.920	S	175.450	E	25				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
23	05	06	05.7	18.895	S	169.120	E	225	*	4.5	1.0	56	VANUATU ISLANDS
23	06	01	17.8	22.462	S	171.639	E	108	D	5.2	1.0	84	LOYALTY ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

06:01:23.0; Lat 22.51 S; Lon 171.69 E; Dep 114.2; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.05, Plg=70, Azm=306; (N) Val=-0.35, Plg=20, Azm=130; (P) Val=-0.70, Plg=1, Azm=39; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=110, Dip=47, Slip=62; NP2: Strike=328, Dip=50, Slip=117.

23	06	14	27.0*	36.849	S	73.134	W	33	N	4.4	1.3	14	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Concepcion and Talcahuano; (II) at Arauco, Lebu and Los Angeles.
23	06	35	15.2&	41.891	N	20.593	E	10				11	ALBANIA. <PDG>. MD 2.5 (PDG). ML 2.5 (SKO).
23	06	46	50.5*	34.907	N	24.110	E	33	N	3.9	1.0	9	CRETE
23	07	32	21.1&	41.019	N	20.259	E	0				12	ALBANIA. <PDG>. ML 3.4 (PDG), 3.2 (SKO).
23	08	44	42.2	46.707	N	152.741	E	51	D	4.8	0.8	62	KURIL ISLANDS
23	09	00	40.1&	37.495	N	118.407	W	10				10	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
23	09	11	56.0*	9.081	N	126.465	E	62	?	3.8	0.9	13	MINDANAO, PHILIPPINE ISLANDS
23	09	37	24.5	47.737	N	27.583	W	10	G	4.4	1.0	45	NORTHERN MID-ATLANTIC RIDGE
23	09	55	52.9&	41.918	N	20.722	E	10				15	ALBANIA. <PDG>. MD 3.4 (PDG). ML 3.4 (SKO).
23	10	21	30.2?	51.62	N	176.91	E	33	N	3.8	1.5	10	RAT ISLANDS, ALEUTIAN ISLANDS
23	10	28	59.2*	5.015	S	133.978	E	33	N	4.3	1.1	8	ARU ISLANDS REGION, INDONESIA
23	10	35	58.3	1.977	S	137.939	E	33	N	5.2 4.8	1.0	73	NEAR NORTH COAST OF IRIAN JAYA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:36:02.7; Lat 1.91 S; Lon 137.96 E; Dep 16.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.20, Plg=18, Azm=121; (N) Val=0.50, Plg=27, Azm=21; (P) Val=-6.70, Plg=56, Azm=241; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=247, Dip=36, Slip=-39; NP2: Strike=10, Dip=69, Slip=-119.
23	10	58	10.2&	19.107	N	66.053	W	32				9	PUERTO RICO REGION. <MPR>. MD 3.3 (MPR).
23	11	07	57.6&	38.420	S	177.300	E	42				6	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	11	23	33.2*	27.681	S	176.628	W	33	N	4.8 4.5	1.2	41	KERMADEC ISLANDS REGION
23	13	26	15.5&	41.979	N	20.221	E	10		3.4		31	ALBANIA. <PDG>. ML 3.5 (PDG), 3.5 (SKO), 3.4 (ROM).
23	13	47	58.3	16.532	N	119.082	E	33	N	4.6	0.9	23	LUZON, PHILIPPINE ISLANDS
23	13	54	06.3&	41.886	N	20.585	E	0				12	ALBANIA. <PDG>. ML 3.1 (SKO), 3.0 (PDG).
23	14	05	29.0&	62.340	N	148.880	W	21				12	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
23	14	30	54.3&	34.592	N	116.265	W	7				44	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
23	15	01	28.1*	16.643	N	119.321	E	76	?	3.8	0.7	7	LUZON, PHILIPPINE ISLANDS
23	15	46	09.0*	15.676	S	168.178	E	33	N	4.1	0.5	8	VANUATU ISLANDS
23	17	08	53.8	36.758	N	71.466	E	120	*	4.5	0.9	49	AFGHANISTAN-TAJIKISTAN BORD REG.
23	17	23	28.0	10.952	S	165.338	E	76	?	4.8 5.0	0.9	43	SANTA CRUZ ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:23:27.3; Lat 11.29 S; Lon 165.26 E; Dep 56.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.29, Plg=61, Azm=19; (N) Val=1.69, Plg=20, Azm=152; (P) Val=-5.98, Plg=19, Azm=249; Best double couple: Mo=5.1*10**16 Nm; NP1: Strike=9, Dip=31, Slip=132; NP2: Strike=143, Dip=67, Slip=68.
23	19	12	47.8	51.591	N	16.138	E	5	G		0.6	16	POLAND. ML 3.6 (GRF), 3.2 (VIE).
23	19	34	13.8?	3.14	N	126.15	E	44	?	4.2	0.6	7	TALAUD ISLANDS, INDONESIA
23	19	54	48.4	16.087	S	168.078	E	33	N	5.0	1.1	66	VANUATU ISLANDS
23	20	25	32.4&	48.400	N	1.100	W	2				9	FRANCE. <LDG>. ML 2.5 (LDG).
23	21	46	28.5*	0.676	S	122.467	E	44	*	4.6 4.3	1.4	25	MINAHASSA PENINSULA, SULAWESI
23	22	02	11.1&	39.630	S	174.820	E	82				5	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	22	24	20.8*	55.821	N	110.229	E	10	G	3.7	0.8	14	LAKE BAYKAL REGION, RUSSIA
23	22	52	29.2	43.059	N	126.489	W	10	G	2.9	0.6	34	OFF COAST OF OREGON
23	23	09	51.7	38.093	N	20.833	E	33	N	4.3	1.4	116	GREECE. MD 4.6 (PDG). ML 4.1 (SKO).
24	00	43	56.8&	34.654	N	116.292	W	4				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
24	01	09	21.6&	43.159	N	18.767	E	0				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).
24	01	24	23.8&	40.410	S	173.680	E	170				13	COOK STRAIT, NEW ZEALAND. <WEL>.
24	02	01	48.0&	45.060	N	116.480	W	3				27	WESTERN IDAHO. <BSE-P>. ML 3.3 (BSE). MD 3.5 (BUT).
24	02	21	51.7	14.474	S	74.274	W	104	D	4.4	0.9	34	CENTRAL PERU. Felt (II) at Nazca, Palpa and Puquio.
24	04	33	10.6*	46.216	N	15.330	E	10	G		0.4	5	NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.4 (LJU).
24	04	36	43.9*	5.788	S	106.415	E	161			0.7	10	JAWA, INDONESIA
24	05	13	46.0&	41.844	N	20.597	E	4				12	ALBANIA. <PDG>. MD 3.1 (PDG). ML 3.1 (SKO).
24	05	52	31.3*	16.434	S	73.109	W	90	?	4.1	0.8	12	NEAR COAST OF PERU. Felt (III) at Camana and Ocona.
24	05	57	28.6&	46.290	N	7.400	E	5				35	SWITZERLAND. <STR>. ML 2.7 (VIE), 2.6 (LDG), 2.5 (STR).
24	06	32	50.3&	37.198	N	119.749	W	22				15	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM).
24	07	00	33.0*	11.085	S	164.258	E	33	N	4.5	0.9	27	SANTA CRUZ ISLANDS REGION
24	07	31	27.1*	25.606	S	70.288	W	76	*	4.6	1.2	27	NEAR COAST OF NORTHERN CHILE
24	07	52	09.5?	8.11	N	103.23	W	33	N	4.3	1.3	15	OFF COAST OF MEXICO
24	08	32	59.1*	9.533	N	126.589	E	57	?		0.9	15	MINDANAO, PHILIPPINE ISLANDS
24	09	52	28.0*	17.354	N	113.560	W	10	G	4.0	1.2	33	REVILLA GIGEDO ISLANDS REGION
24	10	16	38.7	31.984	S	179.728	W	186	D	4.8	0.8	75	KERMADEC ISLANDS REGION
24	10	45	46.3	29.917	S	177.950	W	33	N	4.7	0.9	28	KERMADEC ISLANDS, NEW ZEALAND
24	11	27	36.5*	51.242	N	15.780	E	5	G		1.2	8	POLAND. ML 3.0 (VIE).
24	11	47	17.8	48.179	N	152.798	E	157	*	4.4	0.8	44	KURIL ISLANDS
24	14	25	34.8*	35.271	N	1.193	W	10	G		0.9	21	NORTHERN ALGERIA
24	15	05	45.3?	29.27	N	51.89	E	33	N	4.0	1.2	9	SOUTHERN IRAN
24	15	38	03.8?	24.93	N	143.51	E	33	N	3.5	1.5	7	VOLCANO ISLANDS REGION
24	15	45	53.4*	28.075	S	71.310	W	52	?	4.4	1.2	29	NEAR COAST OF CENTRAL CHILE
24	18	12	14.8*	23.673	N	121.775	E	33	N	4.3	1.4	7	TAIWAN
24	18	14	16.0*	23.712	N	121.841	E	33	N	4.4	1.5	16	TAIWAN. ML 4.8 (TAP). Felt (II JMA) at Hua-lien and (I JMA) at Chang-hua and Chia-i.
24	18	17	58.0&	41.873	N	20.114	E	10				10	ALBANIA. <PDG>. MD 2.1 (PDG).
24	19	23	35.1*	1.431	N	101.025	W	10	G	4.6	0.9	24	EAST CENTRAL PACIFIC OCEAN
24	19	26	04.9	56.211	S	146.723	E	10	G	5.6 6.1	1.1	149	WEST OF MACQUARIE ISLAND. Mw 6.3 (GS), 6.3 (HRV). Moment Tensor (GS): Dep 19; Principal axes (scale 10**18 Nm): (T) Val=2.92, Plg=2, Azm=25; (N) Val=0.26, Plg=85, Azm=140; (P) Val=-3.19, Plg=4, Azm=295; Best double couple: Mo=3.1*10**18 Nm; NP1: Strike=70, Dip=86, Slip=-178; NP2: Strike=340, Dip=88, Slip=-4. Centroid, Moment Tensor (HRV): Centroid origin time 19:26:12.6; Lat 56.21 S Fix; Lon 146.96 E Fix; Dep 15.0 Fix; Half-duration 3.2 sec; Principal axes (scale 10**18 Nm): (T) Val=2.87, Plg=11, Azm=30; (N) Val=-0.28, Plg=76,

Azm=250; (P) Val=-2.60, Plg=9, Azm=121; Best double couple: Mo=2.7*10**18 Nm; NP1: Strike=166, Dip=76, Slip=1; NP2: Strike=75, Dip=89, Slip=166.

24 20 11 19.5& 44.515 N 9.905 E 10 21 NORTHERN ITALY. <GEN>. ML 2.6 (LDG), 2.5 (GEN).
24 20 17 27.1* 56.347 S 146.826 E 10 G 4.6 0.9 24 WEST OF MACQUARIE ISLAND
24 20 54 27.1& 41.892 N 20.674 E 5 12 ALBANIA. <PDG>. MD 3.0 (PDG). ML 3.0 (SKO).
24 20 57 27.5& 44.280 N 7.274 E 6 4 NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
24 21 59 19.4& 43.000 N 0.200 W 11 5 PYRENEES. <LDG>. ML 2.3 (STR), 2.2 (LDG).
24 22 35 38.6 56.369 S 147.056 E 10 G 5.5 5.9 1.1 106 WEST OF MACQUARIE ISLAND. Mw 6.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:35:45.9; Lat 56.50 S; Lon 147.10 E; Dep 15.0 Fix; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.61, Plg=14, Azm=31; (N) Val=-0.25, Plg=76, Azm=208; (P) Val=-1.36, Plg=1, Azm=301; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=75, Dip=80, Slip=171; NP2: Strike=167, Dip=81, Slip=10.
24 22 53 55.8 16.568 N 119.016 E 33 N 5.1 1.0 66 LUZON, PHILIPPINE ISLANDS
24 23 09 47.9* 16.545 N 119.433 E 33 N 3.9 1.5 6 LUZON, PHILIPPINE ISLANDS
24 23 25 13.6% 10.839 N 124.813 E 33 N 1.4 6 LEYTE, PHILIPPINE ISLANDS
24 23 55 40.3& 44.200 N 6.300 E 2 13 FRANCE. <LDG>. ML 2.1 (STR), 1.8 (LDG).
24 23 58 11.1 16.538 N 119.062 E 33 N 4.3 1.0 16 LUZON, PHILIPPINE ISLANDS
25 00 07 52.8& 16.904 N 100.857 W 9 15 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
25 00 21 41.0& 44.940 N 69.370 W 5 6 MAINE. <WES-P>. mbLg 3.0 (WES), 3.0 (OTT), 2.9 (GS). Felt at Albion, Alton, Bradford, Charleston, Corinna, Dexter, Exeter, Harmony, Hartland, Hermon, Hudson, Kenduskeag, Levant, Newport and St. Albans.
25 00 45 24.3? 30.31 N 87.69 E 33 N 4.1 0.5 7 XIZANG
25 01 02 11.4? 32.27 S 178.21 W 33 N 4.9 1.2 13 SOUTH OF KERMADEC ISLANDS
25 01 28 03.0 71.849 N 1.512 W 10 G 4.4 1.1 45 JAN MAYEN ISLAND REGION
25 01 35 31.4? 55.92 S 146.93 E 10 G 4.1 0.9 8 WEST OF MACQUARIE ISLAND
25 01 41 24.0* 47.134 N 153.939 E 33 N 4.3 1.0 13 KURIL ISLANDS
25 01 43 21.4& 38.420 S 176.000 E 207 8 NORTH ISLAND, NEW ZEALAND. <WEL>.
25 02 14 49.4* 5.114 S 153.715 E 33 N 4.4 0.6 14 NEW IRELAND REGION, P.N.G.
25 03 07 49.3 33.304 N 47.150 E 33 N 4.7 0.7 40 WESTERN IRAN
25 03 53 05.6* 40.982 N 48.056 E 33 N 3.8 0.8 10 EASTERN CAUCASUS
25 05 13 40.5? 12.43 S 165.89 E 33 N 4.2 1.2 9 SANTA CRUZ ISLANDS
25 05 23 51.4& 44.200 N 6.400 E 2 12 FRANCE. <LDG>. ML 2.0 (STR), 1.9 (LDG).
25 06 49 55.0& 48.650 N 125.870 W 30 4.0 91 VANCOUVER ISLAND REGION. <PGC-P>. ML 4.2 (PGC). Felt at Ucluelet.
25 07 01 44.0& 48.620 N 125.920 W 28 24 VANCOUVER ISLAND REGION. <PGC-P>. ML 3.3 (PGC).
25 07 14 01.0& 48.650 N 125.900 W 29 27 VANCOUVER ISLAND REGION. <PGC-P>. ML 3.2 (PGC).
25 07 22 09.7& 44.200 N 6.400 E 2 29 FRANCE. <LDG>. ML 2.5 (LDG), 2.3 (STR).
25 07 52 27.7 12.916 S 14.503 W 10 G 5.0 4.4 1.0 37 SOUTHERN MID-ATLANTIC RIDGE. Mw 5.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 07:52:37.4; Lat 12.70 S; Lon 14.76 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.92, Plg=0, Azm=156; (N) Val=0.99, Plg=0, Azm=66; (P) Val=-3.90, Plg=90, Azm=180; Best double couple: Mo=3.4*10**16 Nm; NP1: Strike=246, Dip=45, Slip=-90; NP2: Strike=66, Dip=45, Slip=-90.
25 08 36 20.8? 7.12 N 94.53 E 33 N 4.1 0.8 7 NICOBAR ISLANDS, INDIA
25 09 20 41.8? 56.28 S 146.49 E 10 G 3.7 0.9 6 WEST OF MACQUARIE ISLAND
25 10 10 10.9? 16.10 N 98.25 W 33 N 1.1 5 NEAR COAST OF GUERRERO, MEXICO
25 10 10 47.0& 44.740 N 110.960 W 7 29 YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.0 (SLC), 3.5 (BUT).
25 10 21 13.2 11.324 S 114.370 E 33 N 4.4 0.6 14 SOUTH OF BALI, INDONESIA
25 10 44 08.9& 45.500 N 5.400 E 7 12 FRANCE. <LDG>. ML 2.5 (LDG).
25 11 42 40.3? 20.75 S 169.71 E 33 N 1.1 7 VANUATU ISLANDS
25 11 55 35.5& 44.179 N 7.043 E 10 23 NORTHERN ITALY. <GEN>. ML 2.6 (GEN), 2.4 (LDG), 2.3 (STR).
25 12 12 34.0& 34.458 N 116.474 W 3 23 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
25 12 36 04.0& 59.890 N 152.820 W 90 2.7 13 SOUTHERN ALASKA. <AEIC>.
25 12 44 52.7* 37.870 S 73.567 W 44 * 4.7 4.2 0.8 36 NEAR COAST OF CENTRAL CHILE
25 12 47 17.6? 6.85 S 155.27 E 33 N 4.2 0.7 8 SOLOMON ISLANDS
25 12 48 20.2 38.400 N 21.953 E 33 N 3.9 0.9 33 GREECE. ML 3.4 (SKO).
25 13 01 53.2* 5.489 S 131.152 E 33 N 4.5 0.9 21 BANDA SEA
25 13 05 19.0* 27.772 S 66.637 W 163 * 0.7 7 CATAMARCA PROVINCE, ARGENTINA
25 13 28 10.0 38.673 N 66.381 E 33 N 5.0 4.0 0.9 72 SOUTHEASTERN UZBEKISTAN. Mw 5.0 (HRV). Felt (IV) at Karshi and (III) at Samarqand.
Centroid, Moment Tensor (HRV): Centroid origin time 13:28:11.6; Lat 38.73 N; Lon 65.95 E; Dep 63.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.36, Plg=65, Azm=351; (N) Val=1.20, Plg=15, Azm=225; (P) Val=-3.56, Plg=19, Azm=130; Best double couple: Mo=3.0*10**16 Nm; NP1: Strike=196, Dip=29, Slip=58; NP2: Strike=52, Dip=66, Slip=107.
25 14 37 46.1* 7.078 S 129.607 E 114 * 4.4 1.3 23 BANDA SEA
25 15 59 34.9* 40.907 S 78.252 E 10 G 4.4 1.1 9 MID-INDIAN RIDGE
25 18 03 01.1% 28.070 S 120.472 E 10 G 1.3 6 WESTERN AUSTRALIA
25 18 19 30.4 6.130 S 75.271 W 27 D 5.8 5.0 0.9 273 NORTHERN PERU. Mw 5.5 (HRV), 5.4 (GS). Felt (IV) at Yurimaguas, (III) at Tarapoto and (II) at Lamas.
Moment Tensor (GS): Dep 19; Principal axes (scale 10**17 Nm): (T) Val=1.60, Plg=84, Azm=148; (N) Val=-0.28, Plg=6, Azm=331; (P) Val=-1.32, Plg=0, Azm=241; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=325, Dip=45, Slip=82; NP2: Strike=157, Dip=46, Slip=98.
Centroid, Moment Tensor (HRV): Centroid origin time 18:19:35.1; Lat 6.10 S; Lon 75.54 W; Dep 26.0 Bdy; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.10, Plg=72, Azm=183; (N) Val=-0.30, Plg=15, Azm=325; (P) Val=-1.80, Plg=11, Azm=58; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=166, Dip=36, Slip=115; NP2: Strike=315, Dip=57, Slip=73.
25 18 25 12.6* 53.585 N 153.965 E 470 * 4.2 1.0 18 SEA OF OKHOTSK

25 18 26 53.9& 34.445 N 116.253 W 3 24 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
25 18 33 54.2* 43.621 N 138.058 E 243 * 3.8 0.9 23 EASTERN SEA OF JAPAN
25 18 38 50.5 27.992 S 176.792 W 33 N 5.8 5.6 0.9 237 KERMADEC ISLANDS REGION. Mw 5.8 (HRV), 5.7 (GS).
Moment Tensor (GS): Dep 13; Principal axes (scale 10**17 Nm): (T) Val=4.93, Plg=64, Azm=344; (N) Val=-0.59, Plg=22, Azm=195; (P) Val=-4.34, Plg=12, Azm=100; Best double couple: Mo=4.6*10**17 Nm; NP1: Strike=163, Dip=39, Slip=52; NP2: Strike=28, Dip=60, Slip=116.
Centroid, Moment Tensor (HRV): Centroid origin time 18:38:53.2; Lat 27.95 S; Lon 176.14 W; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=5.88, Plg=64, Azm=304; (N) Val=0.42, Plg=8, Azm=197; (P) Val=-6.31, Plg=25, Azm=104; Best double couple: Mo=6.1*10**17 Nm; NP1: Strike=176, Dip=21, Slip=67; NP2: Strike=20, Dip=70, Slip=99.
25 19 11 49.0* 7.061 S 105.353 E 33 N 4.0 1.0 11 JAWA, INDONESIA
25 19 47 04.6* 52.189 S 139.996 E 10 G 4.5 1.2 25 WEST OF MACQUARIE ISLAND
25 19 55 57.2& 15.879 N 99.361 W 16 4.4 29 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.3 (UNM).
25 20 14 13.0& 10.858 N 62.403 W 68 5 NEAR COAST OF VENEZUELA. <TRN>. MD 3.3 (TRN).
25 20 50 38.9* 9.115 N 93.078 E 33 N 4.1 1.4 11 NICOBAR ISLANDS, INDIA
25 21 17 58.9? 6.90 S 129.43 E 156 ? 3.9 1.0 9 BANDA SEA
25 22 35 39.5? 39.13 N 72.17 E 33 N 3.6 0.8 9 KYRGYZSTAN
25 22 41 37.4 17.709 N 120.189 E 47 5.5 0.7 161 LUZON, PHILIPPINE ISLANDS. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:41:39.8; Lat 17.71 N Fix; Lon 120.19 E Fix; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.68, Plg=48, Azm=196; (N) Val=-0.45, Plg=20, Azm=81; (P) Val=-1.24, Plg=34, Azm=336; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=13, Dip=22, Slip=20; NP2: Strike=264, Dip=83, Slip=110.
25 22 50 08.7& 47.633 N 120.202 W 7 38 WASHINGTON. <SEA-P>. MD 3.0 (SEA).
25 22 51 47.5 43.644 N 147.070 E 55 D 4.9 0.7 57 KURIL ISLANDS. Felt (I JMA) in the Bekkai area, Hokkaido.
25 23 17 33.0* 5.962 N 124.525 E 88 * 4.6 1.2 13 MINDANAO, PHILIPPINE ISLANDS
25 23 20 04.0& 34.684 N 116.298 W 5 6 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
25 23 22 22.8 46.798 N 12.538 E 10 G 0.4 8 NORTHERN ITALY. ML 2.3 (VIE).
25 23 36 02.8 46.773 N 12.514 E 10 G 0.5 20 NORTHERN ITALY. ML 3.1 (FUR), 2.9 (VIE), 2.7 (LDG).
25 23 51 13.6 3.730 S 137.238 E 10 G 4.9 4.6 1.3 42 IRIAN JAYA, INDONESIA. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 23:51:13.8; Lat 4.01 S; Lon 137.40 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=5.06, Plg=74, Azm=232; (N) Val=0.67, Plg=6, Azm=122; (P) Val=-5.73, Plg=15, Azm=30; Best double couple: Mo=5.4*10**16 Nm; NP1: Strike=111, Dip=30, Slip=78; NP2: Strike=305, Dip=61, Slip=97.
25 23 54 15.9* 46.595 N 12.363 E 10 G 0.4 6 NORTHERN ITALY. ML 1.9 (VIE).
26 00 17 32.4* 57.077 S 26.163 W 107 ? 4.5 0.9 18 SOUTH SANDWICH ISLANDS REGION
26 00 54 03.6& 45.536 N 9.387 E 7 68 NORTHERN ITALY. <GEN>. ML 3.2 (GEN), 2.9 (LDG), 2.9 (STR), 2.8 (VIE).
26 01 36 08.7 27.516 N 111.300 W 10 G 4.7 1.0 70 GULF OF CALIFORNIA
26 02 44 38.8* 24.760 N 94.660 E 91 D 3.7 0.9 14 MYANMAR-INDIA BORDER REGION
26 03 37 26.2 36.489 N 27.952 E 80 3.8 1.1 47 DODECANESE ISLANDS. MD 3.8 (ISK). Felt at Marmaris, Turkey.
26 06 12 09.7* 3.359 S 145.223 E 33 N 4.7 1.4 17 NEAR N COAST OF NEW GUINEA, PNG.
26 06 12 28.9& 16.384 N 99.166 W 24 3.7 25 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
26 06 26 20.9 3.518 N 126.855 E 67 * 4.4 0.9 15 TALAUD ISLANDS, INDONESIA
26 08 06 01.3* 65.677 N 155.100 W 10 G 0.6 7 NORTHERN ALASKA. ML 3.5 (PMR).
26 08 14 23.6* 10.297 S 161.419 E 57 D 4.1 1.0 12 SOLOMON ISLANDS
26 08 39 48.3 80.615 N 122.130 E 10 G 4.7 0.9 58 EAST OF SEVERNAYA ZEMLYA, RUSSIA
26 08 44 14.7 21.531 S 68.772 W 93 D 4.4 0.8 26 CHILE-BOLIVIA BORDER REGION
26 09 08 39.3* 52.229 N 171.180 E 33 N 4.3 1.1 14 NEAR ISLANDS, ALEUTIAN ISLANDS
26 09 12 58.4* 80.661 N 122.048 E 10 G 3.5 1.1 9 EAST OF SEVERNAYA ZEMLYA, RUSSIA
26 10 21 09.2* 43.353 N 126.912 W 10 G 0.7 38 OFF COAST OF OREGON
26 11 08 25.9 5.590 S 146.334 E 33 N 4.4 0.6 24 EASTERN NEW GUINEA REG., P.N.G.
26 11 22 43.9* 2.639 S 138.325 E 33 N 0.7 9 IRIAN JAYA, INDONESIA
26 12 29 18.5& 43.020 S 172.620 E 33 N 6 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.2 (WEL).
26 13 11 34.8* 11.047 S 164.152 E 33 N 4.8 0.9 32 SANTA CRUZ ISLANDS REGION
26 13 18 52.2 0.510 S 122.077 E 33 N 4.6 4.4 1.1 22 MINAHASSA PENINSULA, SULAWESI
26 13 42 20.4 6.484 N 125.101 E 10 G 4.3 1.2 17 MINDANAO, PHILIPPINE ISLANDS
26 15 05 51.3* 36.137 N 139.788 E 70 * 4.2 1.1 18 EASTERN HONSHU, JAPAN. Felt (III JMA) in eastern Gumma and (II JMA) in other parts of Gumma, northern Chiba, southern Tochigi and much of Ibaraki Prefectures. Felt as far as Fukushima Prefecture.
26 15 14 07.6& 34.797 N 116.371 W 1 37 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
26 16 14 47.7* 10.774 S 165.188 E 33 N 4.6 1.1 23 SANTA CRUZ ISLANDS
26 17 08 30.9& 43.000 N 0.300 W 2 9 PYRENEES. <LDG>. ML 2.5 (LDG), 2.4 (STR).
26 17 27 55.0& 39.060 N 115.900 W 10 23 NEVADA. <REN-P>. MD 3.4 (REN). ML 3.1 (GS).
26 18 30 55.1? 14.41 N 91.61 W 103 * 4.3 1.4 12 GUATEMALA
26 18 37 20.4 14.084 S 72.774 W 91 D 4.9 0.7 55 CENTRAL PERU. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 18:37:24.0; Lat 14.08 S; Lon 72.69 W; Dep 82.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.10, Plg=15, Azm=236; (N) Val=-0.67, Plg=6, Azm=327; (P) Val=-5.43, Plg=74, Azm=78; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=317, Dip=30, Slip=-102; NP2: Strike=151, Dip=60, Slip=-83.
26 19 01 13.4? 51.02 N 179.42 E 33 N 3.9 0.4 11 RAT ISLANDS, ALEUTIAN ISLANDS
26 19 02 58.1 22.274 N 118.510 E 33 N 4.4 0.9 25 TAIWAN REGION
26 19 41 53.1& 40.271 N 124.401 W 23 4.1 100 NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.8 (BRK). ML 4.2 (GM), 4.2 (BRK). Felt (IV) at Ferndale and Fortuna; (III) at Myers Flat, Petrolia and Scotia; (II) at Eureka. Also felt at Cutten, Hydesville, Rio Dell, Stanton and Weott.
Moment Tensor (BRK): Dep 24; Principal axes (scale 10**16 Nm): (T) Val=1.81, Plg=11, Azm=55; (N) Val=0.00, Plg=72, Azm=288; (P) Val=-1.81, Plg=14, Azm=148; Best double

couple: Mo=1.8*10**16 Nm; NP1: Strike=282, Dip=88, Slip=-162; NP2: Strike=191, Dip=72, Slip=-2.

26 20 05 36.7 37.897 N 20.850 E 10 G 4.1 1.4 30 IONIAN SEA. ML 4.2 (SKO).
26 20 21 21.4& 34.813 N 116.355 W 4 24 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
26 20 28 21.5 35.062 N 24.972 E 65 * 0.5 21 CRETE
26 21 57 08.4 41.088 S 85.427 E 10 G 5.0 1.0 32 SOUTHEAST INDIAN RIDGE. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 21:57:14.6; Lat 41.27 S; Lon 85.36 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.73, Plg=15, Azm=355; (N) Val=-0.24, Plg=74, Azm=148; (P) Val=-1.50, Plg=7, Azm=263; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=38, Dip=75, Slip=174; NP2: Strike=130, Dip=85, Slip=16.

26 22 29 59.2* 28.478 S 74.304 E 10 G 4.9 0.9 14 MID-INDIAN RIDGE. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:29:59.1; Lat 28.42 S; Lon 73.58 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.00, Plg=10, Azm=198; (N) Val=0.59, Plg=32, Azm=102; (P) Val=-4.60, Plg=56, Azm=303; Best double couple: Mo=4.3*10**16 Nm; NP1: Strike=321, Dip=45, Slip=-41; NP2: Strike=82, Dip=63, Slip=-127.

26 23 01 31.7* 4.503 S 153.075 E 33 N 4.3 1.0 13 NEW IRELAND REGION, P.N.G.
26 23 16 40.0* 6.949 S 129.184 E 33 N 4.3 1.3 7 BANDA SEA
27 00 07 59.1* 3.080 S 148.229 E 33 N 4.7 1.0 11 BISMARCK SEA
27 00 14 30.0* 1.012 S 127.353 E 33 N 4.4 1.2 7 HALMAHERA, INDONESIA
27 00 30 03.5* 21.055 S 178.449 W 550 G 4.4 0.8 22 FIJI ISLANDS REGION
27 02 18 52.0& 40.272 N 124.403 W 24 44 NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.6 (GM). ML 3.5 (BRK). Felt at Ferndale, Fortuna, Myers Flat and Petrolia.

27 02 29 42.8 18.332 N 68.731 W 168 4.4 0.9 27 MONA PASSAGE. MD 4.3 (MPR). Felt (III) at Utuado, Puerto Rico.

27 02 54 18.1? 17.89 N 39.93 E 33 N 4.1 1.4 9 RED SEA
27 03 07 02.0 11.078 S 165.336 E 84 D 4.6 0.7 26 SANTA CRUZ ISLANDS
27 03 29 16.0& 49.160 N 6.890 E 1 G 14 GERMANY. <FBB>. ML 2.5 (UCC), 2.4 (FBB). Mining induced event in the Lorraine region, France.

27 03 49 21.6 29.546 N 131.313 E 33 N 5.0 4.7 0.9 62 SOUTHEAST OF RYUKYU ISLANDS
27 04 11 33.5% 9.072 N 125.443 E 33 N 1.4 5 MINDANAO, PHILIPPINE ISLANDS
27 04 54 34.2* 38.765 N 14.234 E 33 N 4.1 1.3 15 SICILY
27 04 59 42.7* 30.136 N 67.963 E 33 N 4.0 0.9 13 PAKISTAN
27 06 30 40.2 14.868 S 166.449 E 33 N 5.1 0.9 50 VANUATU ISLANDS
27 07 09 47.6& 15.228 N 92.895 W 104 3.8 10 MEXICO-GUATEMALA BORDER REGION. <UNM>. MD 4.2 (UNM).
27 08 59 25.4* 22.472 S 168.965 E 33 N 1.0 11 NEW CALEDONIA
27 09 30 21.3 25.934 N 124.455 E 197 4.4 0.9 19 NORTHEAST OF TAIWAN
27 09 44 04.0& 39.960 N 120.470 W 13 30 NORTHERN CALIFORNIA. <REN-P>. MD 3.7 (REN). ML 3.8 (BRK). Felt at Greenville, Portola and Quincy.

27 12 42 44.5& 46.100 N 6.900 E 2 19 SWITZERLAND. <LDG>. ML 2.5 (LDG), 2.5 (STR).
27 13 10 03.4 46.094 N 12.382 E 10 G 0.5 14 NORTHERN ITALY. ML 2.8 (VIE), 2.6 (LJU).
27 13 54 31.5? 51.07 N 176.80 W 33 N 1.5 8 ANDREANOF ISLANDS, ALEUTIAN IS.
27 14 32 28.1? 51.58 N 176.84 W 33 N 3.5 1.3 8 ANDREANOF ISLANDS, ALEUTIAN IS.
27 15 47 18.3 31.486 S 178.599 W 33 N 5.2 4.8 1.1 52 KERMADEC ISLANDS REGION. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 15:47:24.3; Lat 31.39 S; Lon 178.18 W; Dep 48.6; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.88, Plg=75, Azm=287; (N) Val=0.19, Plg=3, Azm=186; (P) Val=-1.07, Plg=15, Azm=95; Best double couple: Mo=9.7*10**16 Nm; NP1: Strike=181, Dip=30, Slip=84; NP2: Strike=8, Dip=60, Slip=93.

27 17 09 07.5& 40.660 S 175.060 E 12 10 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
27 17 10 44.4* 46.298 N 152.649 E 33 N 3.3 0.7 10 KURIL ISLANDS
27 17 18 14.4? 35.73 N 69.82 E 33 N 4.2 0.8 9 HINDU KUSH REGION, AFGHANISTAN
27 18 33 29.8& 42.040 N 20.546 E 1 12 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG). ML 2.7 (SKO).

27 18 43 55.3 47.774 N 146.884 E 419 4.3 0.9 43 NORTHWEST OF KURIL ISLANDS
27 19 58 20.8& 41.874 N 20.448 E 8 12 ALBANIA. <PDG>. ML 2.8 (SKO). MD 2.7 (PDG).
27 20 05 35.7 5.060 S 130.861 E 33 N 4.6 0.9 17 BANDA SEA
27 20 12 59.4& 42.620 N 1.500 W 10 6 PYRENEES. <STR>. ML 3.0 (LDG), 2.6 (STR). Felt (III) at Lumbier and Sanguesa, Spain.

27 20 52 35.0* 51.807 N 176.467 W 33 N 4.4 1.2 22 ANDREANOF ISLANDS, ALEUTIAN IS.
27 21 21 31.1 17.803 N 98.181 W 57 D 4.7 1.2 95 GUERRERO, MEXICO. MD 4.7 (UNM).
27 21 31 45.9* 1.053 S 120.682 E 33 N 4.4 1.5 10 SULAWESI, INDONESIA
27 22 46 59.0 31.094 S 71.127 W 55 D 4.8 0.9 66 NEAR COAST OF CENTRAL CHILE. Felt (IV) at Limari; (III) at Choapa, Coquimbo and La Serena; (II) at La Ligua, Papudo and Petorca.

27 23 22 54.1* 2.232 S 79.854 W 33 N 4.5 1.0 13 NEAR COAST OF ECUADOR
27 23 35 30.3 10.521 S 70.877 W 588 4.4 0.8 80 PERU-BRAZIL BORDER REGION
28 00 44 00.0& 32.724 N 115.939 W 6 4 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS).
28 01 19 44.9* 55.884 N 110.167 E 10 G 4.2 1.3 18 LAKE BAYKAL REGION, RUSSIA. Felt (III) at Verkhnyaya Zaimka and (II) at Kichera and Severobaykalsk.

28 01 33 31.3? 51.50 N 176.60 W 100 G 0.5 6 ANDREANOF ISLANDS, ALEUTIAN IS.
28 01 38 13.1 46.626 N 10.257 E 10 G 1.2 13 NORTHERN ITALY. ML 2.3 (VIE).
28 03 12 13.5* 50.076 S 115.207 W 10 G 4.7 1.1 15 SOUTHERN EAST PACIFIC RISE
28 03 29 31.9 19.616 N 70.820 W 33 N 4.6 0.9 85 DOMINICAN REPUBLIC REGION. Slight damage (V) at Santiago. Felt (V) at Mejia de Navarrete, (IV) at Tamboril and (III) at Mao and San Francisco de Macoris. Also felt at Bonao, La Vega, Moca, Puerto Plata and in much of northern Dominican Republic.

28 04 06 01.7? 49.66 S 115.16 W 10 G 4.8 1.5 12 SOUTHERN EAST PACIFIC RISE
28 04 14 44.5* 46.329 N 150.873 E 151 ? 4.2 1.1 18 KURIL ISLANDS
28 04 26 45.7& 39.072 N 17.323 E 10 22 SOUTHERN ITALY. <ROM>. MD 3.5 (ROM), 3.5 (PDG).
28 05 26 55.3* 23.838 S 179.935 W 569 ? 4.4 0.9 30 SOUTH OF FIJI ISLANDS
28 07 01 44.7& 8.329 N 82.780 W 10 4 PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 3.7 (UPA).
28 07 30 33.9 7.711 S 67.773 E 10 G 5.0 5.0 1.1 44 MID-INDIAN RIDGE. Mw 5.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 07:30:37.7; Lat 7.90 S; Lon 68.27 E; Dep 15.0 Fix; Half-

duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.07, Plg=0, Azm=260; (N) Val=1.13, Plg=0, Azm=170; (P) Val=-4.20, Plg=90, Azm=180; Best double couple: Mo=3.6*10**16 Nm; NP1: Strike=350, Dip=45, Slip=-90; NP2: Strike=170, Dip=45, Slip=-90.

28	09	04	09.2*	15.762	N	147.888	E	33	N	3.6	0.8	15	MARIANA ISLANDS REGION
28	09	13	38.8?	9.67	N	85.78	W	33	N	4.0	0.8	8	OFF COAST OF COSTA RICA
28	09	40	24.2&	16.919	N	100.105	W	20				6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
28	10	06	11.1	21.015	S	179.032	W	623	?	4.5	0.7	58	FIJI ISLANDS REGION
28	10	27	30.5*	5.660	N	127.277	E	68	?	4.4	1.3	24	PHILIPPINE ISLANDS REGION
28	11	38	27.3*	56.292	N	157.938	W	33	N		0.6	5	ALASKA PENINSULA
28	12	05	06.6	30.296	N	31.377	E	10	G	3.9	0.9	26	EGYPT. ML 4.5 (GII). Felt in the Cairo area.
28	12	24	48.0*	7.817	S	67.851	E	10	G	4.8 4.1	1.0	21	MID-INDIAN RIDGE
28	12	46	58.3	5.609	N	82.645	W	10	G	5.4 5.5	1.3	205	SOUTH OF PANAMA. Mw 6.2 (HRV), 6.1 (GS). ML 5.5 (RSNC). Moment Tensor (GS): Dep 17; Principal axes (scale 10**18 Nm): (T) Val=1.63, Plg=11, Azm=316; (N) Val=0.19, Plg=76, Azm=175; (P) Val=-1.81, Plg=8, Azm=48; Best double couple: Mo=1.7*10**18 Nm; NP1: Strike=92, Dip=76, Slip=2; NP2: Strike=2, Dip=88, Slip=166. Centroid, Moment Tensor (HRV): Centroid origin time 12:47:05.7; Lat 5.49 N; Lon 82.52 W; Dep 15.0 Bdy; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=1.87, Plg=9, Azm=317; (N) Val=0.06, Plg=74, Azm=79; (P) Val=-1.93, Plg=13, Azm=224; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=1, Dip=74, Slip=-177; NP2: Strike=270, Dip=87, Slip=-16.
28	14	35	18.9&	15.704	N	60.834	W	30				5	LEEWARD ISLANDS. <FDF>. MD 2.3 (FDF).
28	15	46	12.7*	16.469	N	93.865	W	33	N		1.3	16	CHIAPAS, MEXICO. MD 4.0 (UNM).
28	15	51	38.6&	34.571	N	116.292	W	0				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
28	16	06	15.1?	35.10	N	140.21	E	33	N		1.1	8	NEAR EAST COAST OF HONSHU, JAPAN
28	16	51	24.5	1.674	N	128.288	E	66	D	5.6 5.2	1.0	144	HALMAHERA, INDONESIA. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 53; Principal axes (scale 10**17 Nm): (T) Val=3.56, Plg=57, Azm=295; (N) Val=0.01, Plg=13, Azm=185; (P) Val=-3.57, Plg=30, Azm=88; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=144, Dip=19, Slip=47; NP2: Strike=8, Dip=76, Slip=103. Centroid, Moment Tensor (HRV): Centroid origin time 16:51:29.8; Lat 1.97 N; Lon 128.16 E; Dep 54.6; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.35, Plg=43, Azm=296; (N) Val=0.13, Plg=22, Azm=184; (P) Val=-3.48, Plg=39, Azm=75; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=101, Dip=22, Slip=6; NP2: Strike=5, Dip=88, Slip=112.
28	16	56	27.5&	15.965	N	97.365	W	85				7	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
28	18	19	37.1&	41.440	S	173.980	E	39				10	SOUTH ISLAND, NEW ZEALAND. <WEL>.
28	19	15	36.9	30.353	S	178.051	W	33	N	5.0 4.7	1.1	48	KERMADEC ISLANDS, NEW ZEALAND. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:15:42.0; Lat 30.19 S; Lon 177.53 W; Dep 44.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.81, Plg=73, Azm=323; (N) Val=2.61, Plg=12, Azm=193; (P) Val=-7.41, Plg=13, Azm=100; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=175, Dip=34, Slip=69; NP2: Strike=20, Dip=59, Slip=104.
28	20	11	13.6*	8.957	N	82.903	W	33	N	4.3	1.4	18	PANAMA-COSTA RICA BORDER REGION. MD 4.4 (UPA).
28	20	25	07.3	49.301	N	155.560	E	33	N	5.1 4.2	0.8	167	KURIL ISLANDS. Mw 5.1 (HRV). Felt (III) at Severo-Kurilsk. Centroid, Moment Tensor (HRV): Centroid origin time 20:25:14.5; Lat 49.42 N; Lon 156.22 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.89, Plg=52, Azm=66; (N) Val=0.77, Plg=29, Azm=203; (P) Val=-5.66, Plg=21, Azm=306; Best double couple: Mo=5.3*10**16 Nm; NP1: Strike=76, Dip=35, Slip=148; NP2: Strike=193, Dip=72, Slip=59.
28	20	33	41.1	6.020	S	130.744	E	82	?	4.8	1.1	21	BANDA SEA
28	21	21	14.0	40.525	N	116.129	W	5	G	3.5	0.9	41	NEVADA. ML 3.7 (GS). Felt in the Spring Creek area.
28	22	01	08.1	40.527	N	116.140	W	5	G		0.9	15	NEVADA. ML 3.0 (GS).
28	22	55	52.2&	15.936	N	60.774	W	16				12	LEEWARD ISLANDS. <FDF>. MD 3.2 (FDF).
28	23	56	06.7	11.150	S	165.543	E	33	N	5.3 5.7	0.8	114	SANTA CRUZ ISLANDS. Mw 5.9 (HRV), 5.8 (GS). Moment Tensor (GS): Dep 16; Principal axes (scale 10**17 Nm): (T) Val=5.42, Plg=50, Azm=90; (N) Val=-0.09, Plg=34, Azm=304; (P) Val=-5.32, Plg=17, Azm=202; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=252, Dip=41, Slip=31; NP2: Strike=138, Dip=71, Slip=127. Centroid, Moment Tensor (HRV): Centroid origin time 23:56:10.7; Lat 11.20 S; Lon 165.38 E; Dep 15.0 Bdy; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=8.56, Plg=58, Azm=43; (N) Val=-0.26, Plg=5, Azm=141; (P) Val=-8.30, Plg=31, Azm=234; Best double couple: Mo=8.4*10**17 Nm; NP1: Strike=340, Dip=15, Slip=109; NP2: Strike=140, Dip=76, Slip=85.
28	23	59	00.9?	11.39	S	165.84	E	33	N	4.8	1.3	8	SANTA CRUZ ISLANDS
29	00	42	40.1&	19.127	N	66.061	W	22				8	PUERTO RICO REGION. <MPR>. MD 3.3 (MPR).
29	01	58	27.3&	45.400	N	6.000	E	2				14	FRANCE. <LDG>. ML 2.3 (LDG), 2.1 (STR).
29	02	18	42.4*	55.442	S	26.966	W	33	N	4.7	1.1	11	SOUTH SANDWICH ISLANDS REGION
29	02	20	19.8&	45.400	N	6.000	E	2				15	FRANCE. <LDG>. ML 2.4 (LDG), 2.1 (STR).
29	02	54	06.2*	6.364	S	130.349	E	125	?	4.5	1.5	10	BANDA SEA
29	04	25	03.4*	5.216	S	152.709	E	33	N	4.4	0.9	11	NEW BRITAIN REGION, P.N.G.
29	04	53	54.0&	7.666	N	80.682	W	12				4	PANAMA. <UPA>. MD 3.5 (UPA).
29	05	19	46.9	18.244	N	101.432	W	70	D	6.1 5.4	1.0	363	GUERRERO, MEXICO. Mw 5.9 (GS), 5.9 (HRV). Me 5.9 (GS). One person injured and minor structural damage at Coahuayutla de Guerrero. Felt at Mexico City and Zihuatanejo. Broadband Source Parameters (GS): Dep 45; NP1: Strike=135, Dip=70, Slip=-135; NP2: Strike=26, Dip=48, Slip=-27; Radiated energy 1.6*10**13 Nm.

Moment Tensor (GS): Dep 47; Principal axes (scale 10**18 Nm): (T) Val=0.70, Plg=36, Azm=216; (N) Val=0.31, Plg=2, Azm=125; (P) Val=-1.00, Plg=54, Azm=33; Best double couple: Mo=8.5*10**17 Nm; NP1: Strike=315, Dip=9, Slip=-80; NP2: Strike=125, Dip=81, Slip=-92.
Centroid, Moment Tensor (HRV): Centroid origin time 05:19:49.3; Lat 18.00 N; Lon 101.63 W; Dep 50.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=9.04, Plg=27, Azm=201; (N) Val=-1.50, Plg=14, Azm=298; (P) Val=-7.54, Plg=59, Azm=52; Best double couple: Mo=8.3*10**17 Nm; NP1: Strike=260, Dip=22, Slip=-129; NP2: Strike=122, Dip=73, Slip=-76.

29	06	18	55.9*	17.813	S	64.966	W	403	*	3.6	1.1	10	CENTRAL BOLIVIA
29	06	53	55.1&	41.898	N	20.597	E	9				17	ALBANIA. <PDG>. MD 3.3 (PDG). ML 3.2 (SKO).
29	06	55	18.3*	50.340	S	139.435	E	33	N	4.3	1.1	18	SOUTH OF AUSTRALIA
29	07	04	15.0?	31.53	S	179.85	E	392	?		1.3	18	KERMADEC ISLANDS REGION
29	07	14	02.6&	33.969	N	119.128	W	3				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
29	08	27	11.7&	34.725	N	116.064	W	0				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
29	08	40	49.1*	9.086	S	111.566	E	33	N	3.6	1.4	12	SOUTH OF JAWA, INDONESIA
29	08	43	28.3&	19.379	N	68.188	W	98				7	NORTH ATLANTIC OCEAN. <MPR>. MD 4.1 (MPR). Felt in the Dominican Republic.
29	08	55	36.0*	54.801	N	162.469	W	71	*	3.9	1.2	16	ALASKA PENINSULA
29	09	05	34.9?	31.27	N	86.49	E	33	N	3.5	1.2	6	XIZANG
29	09	29	30.4&	46.100	N	6.900	E	2				92	SWITZERLAND. <ZUR>. ML 3.8 (LDG), 3.7 (GRF), 3.5 (VIE), 3.5 (FUR), 3.3 (ZUR), 3.3 (STR), 3.2 (FBB). Felt at Martigny and Sion.
29	10	12	02.4	61.728	N	150.782	W	33	N	2.4	0.7	14	SOUTHERN ALASKA. ML 3.0 (AEIC), 3.0 (PMR).
29	10	19	36.9&	43.190	N	0.670	W	10				6	PYRENEES. <STR>. ML 2.3 (STR).
29	10	35	00.9*	38.676	S	177.749	E	33	N	4.4	1.5	24	NORTH ISLAND, NEW ZEALAND. ML 4.9 (WEL).
29	10	39	57.1&	40.821	N	31.050	E	7				7	TURKEY. <ISK>. MD 3.6 (ISK). Felt at Duzce.
29	11	07	12.2*	21.891	S	68.888	W	99	D	4.2	0.9	25	CHILE-BOLIVIA BORDER REGION. Felt (III) at Calama, Chile.
29	11	26	06.3*	11.099	S	165.327	E	33	N	4.4	1.3	24	SANTA CRUZ ISLANDS
29	12	26	42.8&	40.807	N	28.549	E	5				5	TURKEY. <ISK>. MD 3.2 (ISK).
29	12	41	18.7*	10.902	S	165.307	E	33	N	4.6 4.2	1.2	29	SANTA CRUZ ISLANDS
29	12	58	08.4	23.809	S	67.664	W	134	D	5.6	0.9	247	CHILE-ARGENTINA BORDER REGION. Mw 5.4 (GS). Felt (II) at Copiapo and San Pedro de Atacama, Chile.
													Moment Tensor (GS): Dep 137; Principal axes (scale 10**17 Nm): (T) Val=1.41, Plg=36, Azm=30; (N) Val=-0.30, Plg=54, Azm=225; (P) Val=-1.11, Plg=7, Azm=125; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=174, Dip=60, Slip=22; NP2: Strike=72, Dip=71, Slip=148.
29	13	29	19.6	10.860	S	165.354	E	33	N	5.6 6.8	0.8	150	SANTA CRUZ ISLANDS. Mw 6.9 (GS), 6.9 (HRV). Me 6.5 (GS).
													Broadband Source Parameters (GS): Dep 17; NP1: Strike=155, Dip=85, Slip=90; NP2: Strike=335, Dip=5, Slip=90; Radiated energy 1.1*10**14 Nm. Complex earthquake, with the major event occurring about 18 seconds after a much smaller event. Focal mechanism and depth from synthetics of broadband displacement seismograms based on major event.
													Moment Tensor (GS): Dep 12; Principal axes (scale 10**19 Nm): (T) Val=2.23, Plg=53, Azm=66; (N) Val=0.11, Plg=6, Azm=328; (P) Val=-2.33, Plg=36, Azm=234; Best double couple: Mo=2.3*10**19 Nm; NP1: Strike=294, Dip=10, Slip=56; NP2: Strike=149, Dip=82, Slip=96.
													Centroid, Moment Tensor (HRV): Centroid origin time 13:29:41.1; Lat 11.14 S; Lon 165.19 E; Dep 15.0 Fix; Half-duration 6.0 sec; Principal axes (scale 10**19 Nm): (T) Val=2.45, Plg=63, Azm=26; (N) Val=-0.26, Plg=11, Azm=139; (P) Val=-2.20, Plg=24, Azm=234; Best double couple: Mo=2.3*10**19 Nm; NP1: Strike=347, Dip=23, Slip=120; NP2: Strike=135, Dip=70, Slip=78.
													Scalar Moment (PPT): Mo=2.5*10**19 Nm.
29	13	51	57.5*	10.965	S	165.137	E	33	N	4.9	1.0	20	SANTA CRUZ ISLANDS
29	14	11	06.0	11.168	S	165.311	E	33	N	4.8	1.0	34	SANTA CRUZ ISLANDS
29	14	15	33.1&	44.370	N	7.320	E	9				16	NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 2.0 (LDG).
29	14	39	36.8*	10.753	S	164.896	E	33	N	4.5	1.2	26	SANTA CRUZ ISLANDS REGION
29	15	05	02.5?	11.32	S	165.63	E	33	N	4.3	1.2	9	SANTA CRUZ ISLANDS
29	15	17	21.8	0.446	S	99.634	E	80	?	5.3	1.1	77	SOUTHERN SUMATERA, INDONESIA
29	15	26	49.2*	24.358	S	67.171	W	175		4.3	1.0	17	CHILE-ARGENTINA BORDER REGION
29	15	34	30.6	10.969	S	165.159	E	33	N	4.9	0.9	72	SANTA CRUZ ISLANDS
29	16	21	48.3	51.380	N	176.362	W	33	N	4.2	0.8	34	ANDREANOF ISLANDS, ALEUTIAN IS.
29	17	28	32.3&	60.123	N	152.914	W	120		3.1		19	SOUTHERN ALASKA. <AEIC>.
29	17	35	31.3?	11.40	S	165.70	E	33	N	3.9	1.1	9	SANTA CRUZ ISLANDS
29	17	50	23.8&	39.330	S	175.410	E	116				13	NORTH ISLAND, NEW ZEALAND. <WEL>.
29	17	50	45.3&	40.350	S	174.430	E	26				7	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.5 (WEL).
29	18	12	44.1&	34.675	N	116.294	W	2				31	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
29	18	21	02.8*	11.012	S	165.146	E	33	N	4.5	1.5	11	SANTA CRUZ ISLANDS
29	19	15	51.1	10.980	S	165.251	E	33	N	5.4 5.7	1.1	114	SANTA CRUZ ISLANDS. Mw 5.9 (GS), 5.9 (HRV).
													Moment Tensor (GS): Dep 18; Principal axes (scale 10**17 Nm): (T) Val=8.69, Plg=6, Azm=0; (N) Val=1.03, Plg=83, Azm=142; (P) Val=-9.72, Plg=5, Azm=270; Best double couple: Mo=9.2*10**17 Nm; NP1: Strike=45, Dip=83, Slip=179; NP2: Strike=135, Dip=89, Slip=7.
													Centroid, Moment Tensor (HRV): Centroid origin time 19:15:52.9; Lat 11.11 S; Lon 165.33 E; Dep 15.0 Fix; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=5.29, Plg=1, Azm=352; (N) Val=3.24, Plg=65, Azm=84; (P) Val=-8.54, Plg=25, Azm=262; Best double couple: Mo=6.9*10**17 Nm; NP1: Strike=40, Dip=72, Slip=-162; NP2: Strike=304, Dip=73, Slip=-19.
29	19	34	35.0?	11.56	S	165.57	E	33	N	4.4	1.4	14	SANTA CRUZ ISLANDS
29	19	43	09.5*	10.936	S	165.217	E	33	N	4.1	1.2	16	SANTA CRUZ ISLANDS
29	19	43	32.9	11.147	S	165.382	E	33	N	4.9	0.9	42	SANTA CRUZ ISLANDS
29	19	52	35.0&	40.150	S	174.830	E	12				9	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.0 (WEL).

29	20	34	00.8	11.080	S	165.355	E	33	N	4.8		1.0	56	SANTA CRUZ ISLANDS
29	20	42	36.4	46.601	N	10.308	E	10	G	4.8		1.2	192	NORTHERN ITALY. ML 5.3 (GRF), 5.2 (CLL), 5.2 (ZAG), 5.1 (FUR), 5.1 (LDG), 5.0 (FBB), 4.9 (STR), 4.7 (VIE). Felt (V) in parts of Tyrol and Vorarlberg, Austria. Also felt at St. Moritz, Switzerland and at Bolzano, Italy.
29	20	45	12.6*	10.470	S	164.977	E	33	N	4.5		1.2	14	SANTA CRUZ ISLANDS REGION
29	20	59	31.4	11.210	S	165.321	E	33	N	5.3	5.4	1.0	158	SANTA CRUZ ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:59:35.8; Lat 11.10 S; Lon 165.01 E; Dep 15.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.35, Plg=32, Azm=87; (N) Val=0.09, Plg=4, Azm=355; (P) Val=-3.44, Plg=58, Azm=259; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=190, Dip=14, Slip=-74; NP2: Strike=354, Dip=77, Slip=-94.
29	21	28	07.8	46.159	N	6.945	E	10	G			0.7	15	SWITZERLAND. ML 2.2 (LDG).
29	21	36	37.2	10.938	S	165.258	E	33	N	5.2	5.4	1.1	98	SANTA CRUZ ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:36:41.2; Lat 10.86 S; Lon 165.25 E; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.13, Plg=57, Azm=33; (N) Val=1.88, Plg=24, Azm=166; (P) Val=-5.01, Plg=21, Azm=266; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=31, Dip=32, Slip=140; NP2: Strike=157, Dip=70, Slip=65.
29	22	19	11.1*	11.146	S	165.264	E	33	N	4.4		1.1	19	SANTA CRUZ ISLANDS
29	22	27	01.7?	11.19	S	165.57	E	33	N	4.4		1.4	16	SANTA CRUZ ISLANDS
29	22	34	14.4?	11.14	S	165.32	E	33	N	4.2		1.1	13	SANTA CRUZ ISLANDS
29	22	39	26.4*	11.019	S	165.155	E	33	N	4.6	4.1	1.1	28	SANTA CRUZ ISLANDS
29	22	46	40.6&	42.609	N	19.006	E	17					10	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.9 (PDG).
29	22	47	52.6	43.027	N	13.065	E	10	G			1.1	18	CENTRAL ITALY. ML 3.2 (VIE).
29	22	53	57.1	11.165	S	165.330	E	33	N	5.5	6.0	1.1	174	SANTA CRUZ ISLANDS. Mw 6.2 (HRV), 6.0 (GS). Me 6.0 (GS). Broadband Source Parameters (GS): Dep 9; NP1: Strike=140, Dip=80, Slip=75; NP2: Strike=17, Dip=18, Slip=146; Radiated energy 2.4*10**13 Nm. Moment Tensor (GS): Dep 20; Principal axes (scale 10**18 Nm): (T) Val=1.12, Plg=68, Azm=70; (N) Val=0.00, Plg=11, Azm=310; (P) Val=-1.13, Plg=18, Azm=216; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=288, Dip=28, Slip=65; NP2: Strike=135, Dip=64, Slip=103. Centroid, Moment Tensor (HRV): Centroid origin time 22:54:00.4; Lat 11.13 S; Lon 165.17 E; Dep 15.0 Bdy; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=2.06, Plg=62, Azm=23; (N) Val=0.01, Plg=15, Azm=143; (P) Val=-2.06, Plg=23, Azm=240; Best double couple: Mo=2.1*10**18 Nm; NP1: Strike=357, Dip=26, Slip=127; NP2: Strike=137, Dip=70, Slip=74.
29	23	05	35.4*	10.945	S	165.181	E	33	N	4.3		1.0	19	SANTA CRUZ ISLANDS
29	23	17	25.9*	33.316	N	116.125	E	33	N	4.1		1.2	9	SOUTHEASTERN CHINA. ML 4.4 (BJI).
29	23	55	36.2*	56.999	N	156.454	W	74	*			0.7	7	ALASKA PENINSULA
30	00	11	49.1	52.152	N	159.199	E	60	D	5.1		0.7	170	OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
30	00	19	24.2*	25.661	S	35.419	E	10	G	3.9		1.1	6	MOZAMBIQUE CHANNEL
30	00	27	35.0*	52.625	N	159.410	E	57	D	4.1		0.8	12	OFF EAST COAST OF KAMCHATKA
30	01	01	36.4*	12.695	N	124.930	E	78	?			0.7	9	SAMAR, PHILIPPINE ISLANDS
30	01	10	15.9?	10.98	S	165.48	E	33	N	4.1		0.8	8	SANTA CRUZ ISLANDS
30	01	21	13.2*	10.770	S	165.248	E	33	N	4.7		1.1	30	SANTA CRUZ ISLANDS
30	02	23	03.7	20.373	S	178.156	W	606	*	4.4		0.5	74	FIJI ISLANDS REGION
30	02	41	44.9*	9.386	N	79.048	W	56	D	3.9		1.0	12	PANAMA. MD 4.2 (UPA). Felt in the epicentral area.
30	03	03	29.9?	48.83	S	124.10	E	10	G	3.8		0.9	7	SOUTH OF AUSTRALIA
30	03	21	44.8	46.610	N	10.268	E	10	G			1.4	29	NORTHERN ITALY. ML 2.9 (FUR), 2.7 (LDG), 2.6 (FBB), 2.4 (VIE).
30	04	14	48.7*	29.495	N	142.171	E	33	N	4.3		1.1	11	SOUTH OF HONSHU, JAPAN
30	04	51	08.0	38.845	N	25.972	E	10	G	4.0		1.1	80	AEGEAN SEA. MD 4.2 (ISK). Felt at Cesme, Turkey.
30	05	24	25.3	30.760	S	71.438	W	58	D	4.3		1.3	24	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Monte Patria and Ovalle; (III) at Combarbala, Hurtado and Punitaqui.
30	05	54	56.3&	40.560	S	175.280	E	41					13	NORTH ISLAND, NEW ZEALAND. <WEL>.
30	06	24	35.1&	34.112	N	117.328	W	18					36	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt in the San Bernardino area.
30	06	28	10.6?	11.08	S	165.08	E	33	N	4.6		1.3	13	SANTA CRUZ ISLANDS
30	06	46	55.2	80.582	N	122.251	E	10	G	4.7	4.4	0.9	69	EAST OF SEVERNAYA ZEMLYA, RUSSIA
30	07	04	40.1?	64.37	S	176.09	E	10	G	4.8		0.8	9	BALLENY ISLANDS REGION
30	07	48	58.5	51.855	N	177.936	E	93	D	4.1		1.2	40	RAT ISLANDS, ALEUTIAN ISLANDS
30	08	39	12.8	11.075	S	165.235	E	33	N	5.0	4.8	1.0	89	SANTA CRUZ ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:39:11.6; Lat 11.40 S; Lon 165.39 E; Dep 25.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.02, Plg=21, Azm=84; (N) Val=0.10, Plg=21, Azm=345; (P) Val=-6.12, Plg=59, Azm=214; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=207, Dip=31, Slip=-44; NP2: Strike=337, Dip=69, Slip=-113.
30	08	58	05.3?	11.30	S	165.74	E	33	N	4.1		1.2	9	SANTA CRUZ ISLANDS
30	09	13	34.0*	6.096	S	151.404	E	46	D	4.4		0.8	20	NEW BRITAIN REGION, P.N.G.
30	09	30	05.0?	3.40	N	77.49	W	76	?	3.8		1.4	6	NEAR WEST COAST OF COLOMBIA. MD 4.4 (UPA).
30	09	36	51.9?	51.28	N	176.27	W	33	N	4.0		1.1	8	ANDREANOF ISLANDS, ALEUTIAN IS.
30	09	56	32.4?	11.42	S	165.51	E	33	N	4.2		0.9	7	SANTA CRUZ ISLANDS
30	10	18	35.0*	29.370	N	142.317	E	33	N	3.9		1.2	10	SOUTH OF HONSHU, JAPAN
30	10	20	15.2*	24.220	S	66.478	W	182	*	3.9		0.8	10	SALTA PROVINCE, ARGENTINA
30	11	24	16.8?	6.86	S	129.51	E	157	?	4.8		0.9	9	BANDA SEA
30	11	59	09.3	11.324	S	165.209	E	33	N	4.9	4.4	1.0	68	SANTA CRUZ ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:59:14.3; Lat 11.05 S; Lon 164.94 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.63, Plg=17, Azm=101; (N) Val=-0.29, Plg=14, Azm=196; (P) Val=-7.34, Plg=68, Azm=324; Best double couple:

													Mo=7.5*10**16 Nm; NP1: Strike=171, Dip=31, Slip=-118; NP2: Strike=23, Dip=63, Slip=-74.
30	12	24	33.7	22.625	N	121.671	E	45	*	4.2	1.0	22	TAIWAN REGION. Felt (II JMA) at Tai-tung and (I JMA) at Kao-hsiung.
30	12	27	25.4?	11.29	S	165.28	E	33	N	4.4	0.9	12	SANTA CRUZ ISLANDS
30	12	41	25.5&	57.146	N	154.308	W	59		3.0		6	KODIAK ISLAND REGION. <AEIC>. ML 3.4 (AEIC).
30	13	21	36.7	47.579	N	154.508	E	33	N	5.2 5.1	1.0	254	KURIL ISLANDS. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:21:42.4; Lat 47.79 N; Lon 154.78 E; Dep 20.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.71, Plg=74, Azm=301; (N) Val=0.34, Plg=0, Azm=211; (P) Val=-3.05, Plg=16, Azm=121; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=211, Dip=29, Slip=90; NP2: Strike=31, Dip=61, Slip=90.
30	13	25	41.1	47.179	N	141.910	E	33	N	4.7	0.7	66	SAKHALIN ISLAND. Felt (V) at Kostromskoye; (IV) at Chaplanovo, Chekhov, Kholmsk, Pionery, Pyatirechye and Yablochnyy; (III) at Aniva, Bykov, Nevelsk, Novoaleksandrovsk and Yuzhno-Sakhalinsk; (II) at Korsakov.
30	14	09	18.2*	21.186	S	67.161	W	184	*	4.1	1.0	26	CHILE-BOLIVIA BORDER REGION
30	14	11	31.8	29.290	N	142.282	E	33	N	5.0 5.1	0.9	142	SOUTH OF HONSHU, JAPAN. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:11:35.1; Lat 29.58 N; Lon 142.27 E; Dep 15.5; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.28, Plg=66, Azm=244; (N) Val=0.06, Plg=11, Azm=359; (P) Val=-1.34, Plg=21, Azm=94; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=202, Dip=26, Slip=115; NP2: Strike=355, Dip=67, Slip=79.
30	14	49	56.7	23.723	S	64.894	W	21	D	5.5 4.9	1.1	130	JUJUY PROVINCE, ARGENTINA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:50:06.5; Lat 23.17 S; Lon 64.90 W; Dep 48.0; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.95, Plg=69, Azm=214; (N) Val=0.28, Plg=9, Azm=331; (P) Val=-1.23, Plg=18, Azm=64; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=169, Dip=28, Slip=110; NP2: Strike=326, Dip=64, Slip=79.
30	14	51	47.7*	47.104	N	141.982	E	33	N	3.7	0.8	6	SAKHALIN ISLAND
30	14	52	28.0?	25.62	N	108.67	W	10	G	3.4	0.9	7	GULF OF CALIFORNIA
30	15	17	25.3*	3.784	S	131.240	E	33	N	4.7	1.2	22	IRIAN JAYA REGION, INDONESIA
30	16	59	24.2*	9.953	N	74.022	W	89	D	4.4	1.0	27	NORTHERN COLOMBIA. MD 4.7 (UPA).
30	17	02	24.9*	7.425	N	36.055	W	10	G	4.6	1.1	20	CENTRAL MID-ATLANTIC RIDGE
30	17	17	24.5&	35.985	N	115.989	W	6	G			32	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
30	17	17	28.2&	42.027	N	20.507	E	5				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.7 (PDG).
30	17	26	48.7?	11.22	S	165.53	E	33	N	4.2	1.3	11	SANTA CRUZ ISLANDS
30	17	29	39.7?	11.23	S	165.55	E	33	N	4.5	1.2	11	SANTA CRUZ ISLANDS
30	17	39	21.3*	9.244	S	119.057	E	75	?	4.5	1.0	11	SUMBA REGION, INDONESIA
30	17	55	47.0*	27.018	S	65.896	W	33	N		1.2	9	TUCUMAN PROVINCE, ARGENTINA
30	17	57	14.7	1.855	S	138.324	E	33	N	5.1 5.2	1.3	85	NEAR NORTH COAST OF IRIAN JAYA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:57:14.7; Lat 1.70 S; Lon 138.26 E; Dep 24.7; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.24, Plg=11, Azm=79; (N) Val=-0.04, Plg=75, Azm=215; (P) Val=-1.20, Plg=10, Azm=347; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=123, Dip=75, Slip=179; NP2: Strike=213, Dip=89, Slip=15.
30	18	34	37.9	38.286	N	11.855	E	10	G	4.9	1.2	159	SICILY. Felt at Trapani.
30	19	05	12.0*	11.068	S	165.201	E	33	N	4.6	1.0	28	SANTA CRUZ ISLANDS
30	19	22	12.2	34.504	N	45.380	E	63	*	4.4	0.9	37	IRAN-IRAQ BORDER REGION
30	19	52	30.6*	34.622	N	45.624	E	33	N		0.7	7	IRAN-IRAQ BORDER REGION
30	20	19	20.7*	34.496	N	45.442	E	33	N	3.7	1.1	9	IRAN-IRAQ BORDER REGION
30	21	04	17.0&	34.300	N	116.083	W	0				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
30	21	27	29.5&	40.930	S	175.290	E	26				8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.6 (WEL).
30	21	29	10.6?	0.02	N	123.55	E	196	?	4.1	1.2	10	MINAHASSA PENINSULA, SULAWESI
30	21	36	43.6*	40.650	N	30.249	E	10	G		1.3	7	TURKEY
30	21	46	39.8*	2.345	N	126.727	E	42	*	4.6	1.0	16	NORTHERN MOLUCCA SEA
30	22	31	03.4*	11.033	S	165.235	E	33	N	4.7	1.4	21	SANTA CRUZ ISLANDS
30	22	31	17.4	1.851	N	127.085	E	91		5.2	1.0	58	HALMAHERA, INDONESIA. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:31:22.2; Lat 1.85 N Fix; Lon 127.08 E Fix; Dep 110.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.87, Plg=38, Azm=201; (N) Val=2.22, Plg=8, Azm=105; (P) Val=-5.08, Plg=51, Azm=5; Best double couple: Mo=4.0*10**16 Nm; NP1: Strike=334, Dip=10, Slip=-40; NP2: Strike=104, Dip=83, Slip=-98.
30	23	29	03.4*	29.192	N	52.116	E	33	N	3.7	1.4	14	SOUTHERN IRAN
31	00	11	17.9*	34.626	N	45.586	E	52	?		0.6	8	IRAN-IRAQ BORDER REGION
31	00	39	51.4*	23.450	N	120.947	E	33	N	4.2	0.5	8	TAIWAN. ML 4.5 (TAP). Felt (III JMA) in western Nan-tou County, (II JMA) at Chia-i and (I JMA) at Chang-hua.
31	00	53	44.8*	21.431	N	91.762	E	33	N	4.3	1.0	16	BAY OF BENGAL
31	01	09	03.1&	46.470	N	7.850	E	2				18	SWITZERLAND. <STR>. ML 2.4 (VIE), 2.3 (STR), 2.2 (LDG).
31	03	24	01.5*	15.184	S	66.830	E	10	G	4.7	0.9	32	MID-INDIAN RIDGE
31	04	55	55.7	46.603	N	10.323	E	10	G	4.3	1.1	152	NORTHERN ITALY. ML 4.8 (FUR), 4.7 (GRF), 4.5 (STR), 4.5 (ZAG), 4.4 (LDG), 4.3 (CLL), 4.2 (VIE), 4.2 (FBB). Felt (III) at Nauders, Austria.
31	04	59	00.6&	32.103	S	119.844	E	10	G		1.2	9	WESTERN AUSTRALIA
31	05	42	22.2*	17.049	N	61.320	W	42	*	4.2	1.0	36	LEEWARD ISLANDS. Felt (II) on Guadeloupe.
31	05	52	45.9*	53.539	N	153.895	E	499	*	4.5	1.0	13	SEA OF OKHOTSK
31	06	50	54.8	7.198	S	129.585	E	139	?	4.2	1.4	12	BANDA SEA
31	07	25	13.6&	59.868	N	150.242	W	39				15	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC), 3.1 (PMR).
31	08	46	29.1&	40.667	N	124.753	W	14				22	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
31	09	50	58.6*	28.434	S	12.522	W	10	G	4.5	1.1	10	SOUTHERN MID-ATLANTIC RIDGE
31	10	17	09.5*	11.648	S	165.970	E	33	N	4.6	1.3	18	SANTA CRUZ ISLANDS
31	10	57	00.3?	37.57	N	21.76	E	82	?	3.7	1.2	9	SOUTHERN GREECE
31	11	30	56.7*	33.689	N	140.639	E	66	?	4.2	1.1	27	SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima and

Miyake-jima. Also felt (I JMA) in the Tateyama area.

31 12 13 37.0 51.653 N 16.176 E 5 G 4.1 0.9 41 POLAND. ML 4.1 (GRF), 4.0 (FUR), 3.9 (VIE).

31 13 09 11.6 37.269 N 134.664 E 371 D 5.0 0.8 253 SEA OF JAPAN. Mw 5.6 (HRV). Felt (I JMA) in eastern Fukushima and southwestern Ibaraki Prefectures, Honshu.
Centroid, Moment Tensor (HRV): Centroid origin time 13:09:16.0; Lat 37.32 N; Lon 134.61 E; Dep 383.8; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.50, Plg=48, Azm=129; (N) Val=0.04, Plg=27, Azm=4; (P) Val=-2.54, Plg=29, Azm=257; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=299, Dip=29, Slip=22; NP2: Strike=189, Dip=79, Slip=118.

31 13 35 33.7& 43.190 S 170.820 E 12 5 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).

31 13 42 33.6& 41.490 S 174.480 E 12 7 COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.7 (WEL).

31 13 52 19.5? 9.71 S 124.35 E 72 ? 0.9 9 TIMOR REGION, INDONESIA

31 14 55 39.7? 11.27 S 165.54 E 33 N 4.5 1.1 7 SANTA CRUZ ISLANDS

31 15 01 57.1 46.626 N 10.309 E 10 G 1.1 33 NORTHERN ITALY. ML 2.7 (STR), 2.5 (LDG), 2.3 (VIE).

31 16 50 25.4& 46.700 N 1.300 E 5 7 FRANCE. <LDG>. ML 1.9 (LDG).

31 17 05 30.8* 6.662 N 72.994 W 182 ? 3.8 0.9 19 NORTHERN COLOMBIA

31 17 10 46.7& 40.810 S 175.160 E 32 4 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 1.9 (WEL).

31 17 20 53.4? 11.34 S 165.13 E 33 N 4.2 1.2 10 SANTA CRUZ ISLANDS

31 17 35 43.9& 16.408 N 94.064 W 33 6 OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).

31 18 08 50.7* 4.051 S 141.890 E 112 * 4.4 1.3 27 NEW GUINEA, PAPUA NEW GUINEA

31 18 47 17.1 52.868 N 159.979 E 54 * 5.0 0.9 145 OFF EAST COAST OF KAMCHATKA

31 18 55 35.5? 11.16 S 165.30 E 33 N 4.2 1.4 11 SANTA CRUZ ISLANDS

31 19 40 53.9& 41.270 S 175.240 E 23 5 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 1.8 (WEL).

31 19 58 31.9? 11.17 S 165.51 E 33 N 4.3 1.3 11 SANTA CRUZ ISLANDS

31 20 25 47.0 10.398 N 126.226 E 47 5.1 4.4 1.0 86 PHILIPPINE ISLANDS REGION. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 20:25:47.2; Lat 10.38 N; Lon 126.24 E; Dep 42.2; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.31, Plg=44, Azm=154; (N) Val=-0.07, Plg=40, Azm=298; (P) Val=-1.25, Plg=19, Azm=44; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=178, Dip=44, Slip=158; NP2: Strike=285, Dip=75, Slip=48.

31 20 35 20.6 46.881 N 152.745 E 81 * 4.5 0.9 41 KURIL ISLANDS

31 20 44 55.7 51.582 N 16.026 E 5 G 1.0 59 POLAND. Mw 5.4 (HRV). ML 4.8 (STR).
Centroid, Moment Tensor (HRV): Centroid origin time 20:44:54.9; Lat 51.81 N; Lon 14.99 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.85, Plg=45, Azm=81; (N) Val=-0.47, Plg=21, Azm=194; (P) Val=-1.37, Plg=38, Azm=302; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=93, Dip=22, Slip=170; NP2: Strike=193, Dip=86, Slip=69.

31 20 48 03.5 51.497 N 16.096 E 5 G 3.8 0.8 24 POLAND. ML 4.0 (VIE).

31 21 09 12.5& 9.159 N 78.848 W 2 4 PANAMA. <UPA>. MD 3.9 (UPA).

31 21 09 29.7* 11.323 S 166.777 E 33 N 4.0 1.0 16 SANTA CRUZ ISLANDS

31 21 30 01.8? 27.95 N 142.77 E 33 N 4.6 1.6 14 BONIN ISLANDS REGION

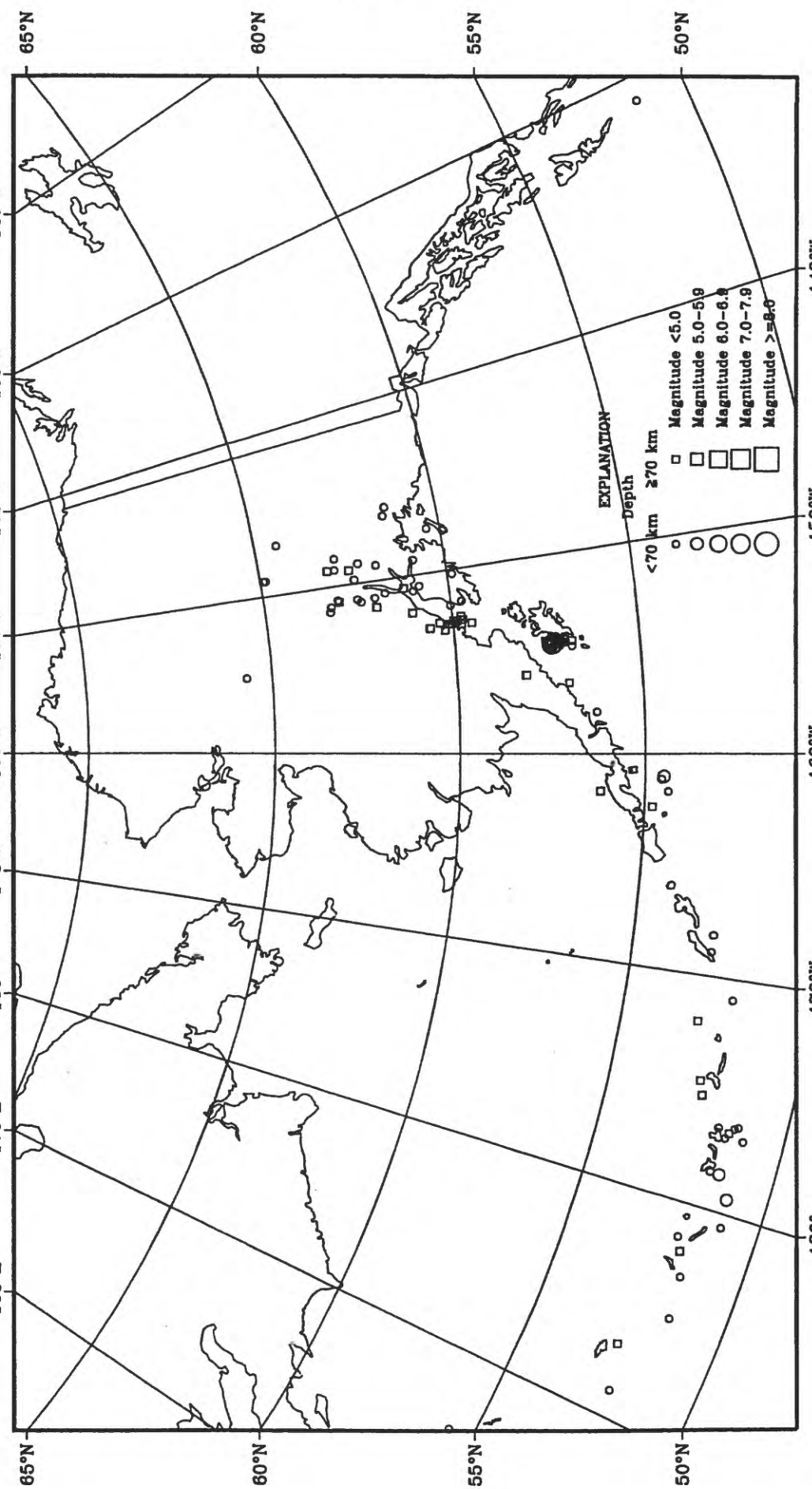
31 22 26 44.9 10.413 N 126.202 E 57 * 4.7 1.1 48 PHILIPPINE ISLANDS REGION

31 22 52 15.9* 10.387 N 126.193 E 60 * 4.7 1.2 27 PHILIPPINE ISLANDS REGION

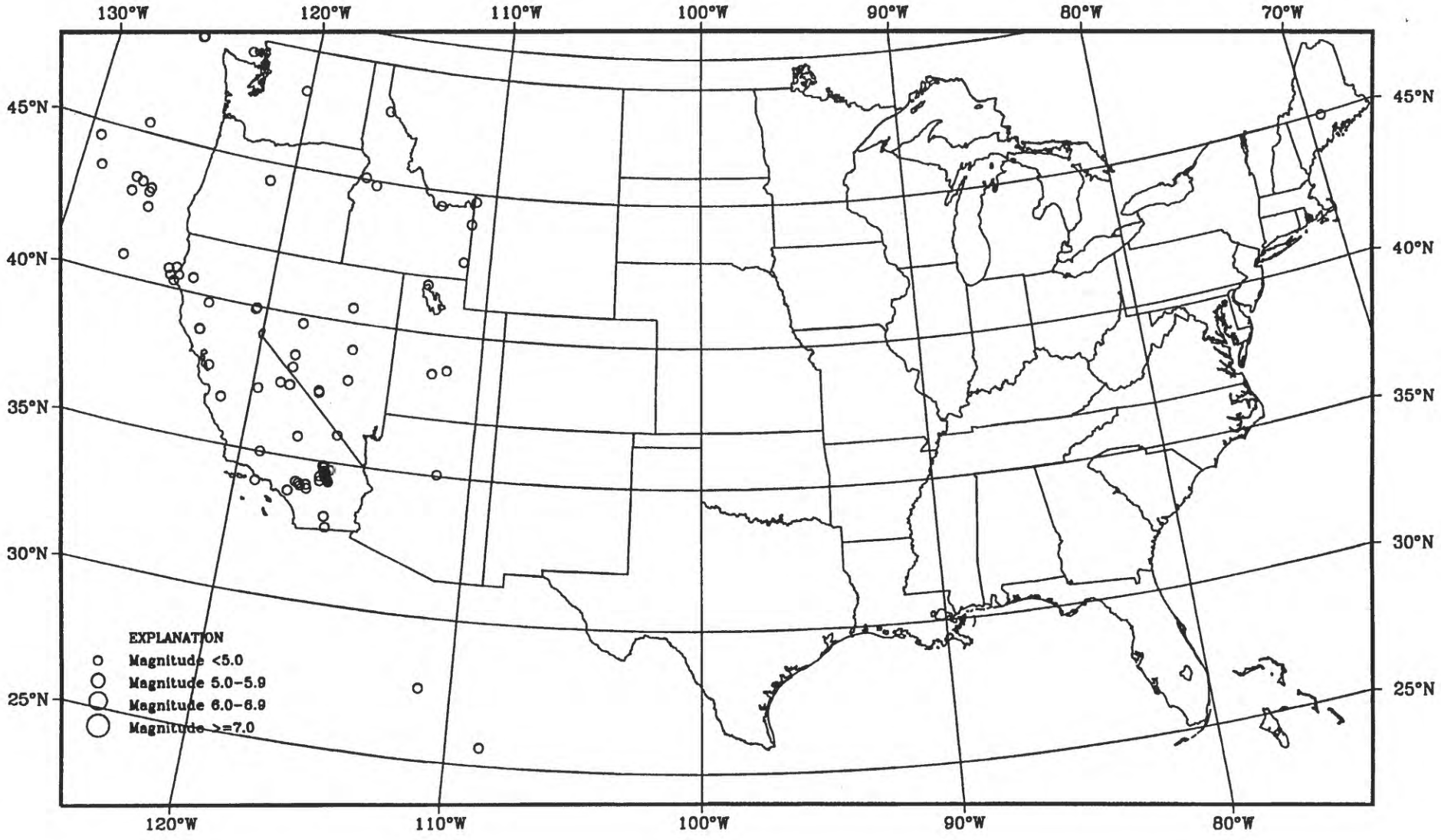
31 22 53 09.2& 35.740 N 117.671 W 5 8 CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

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.

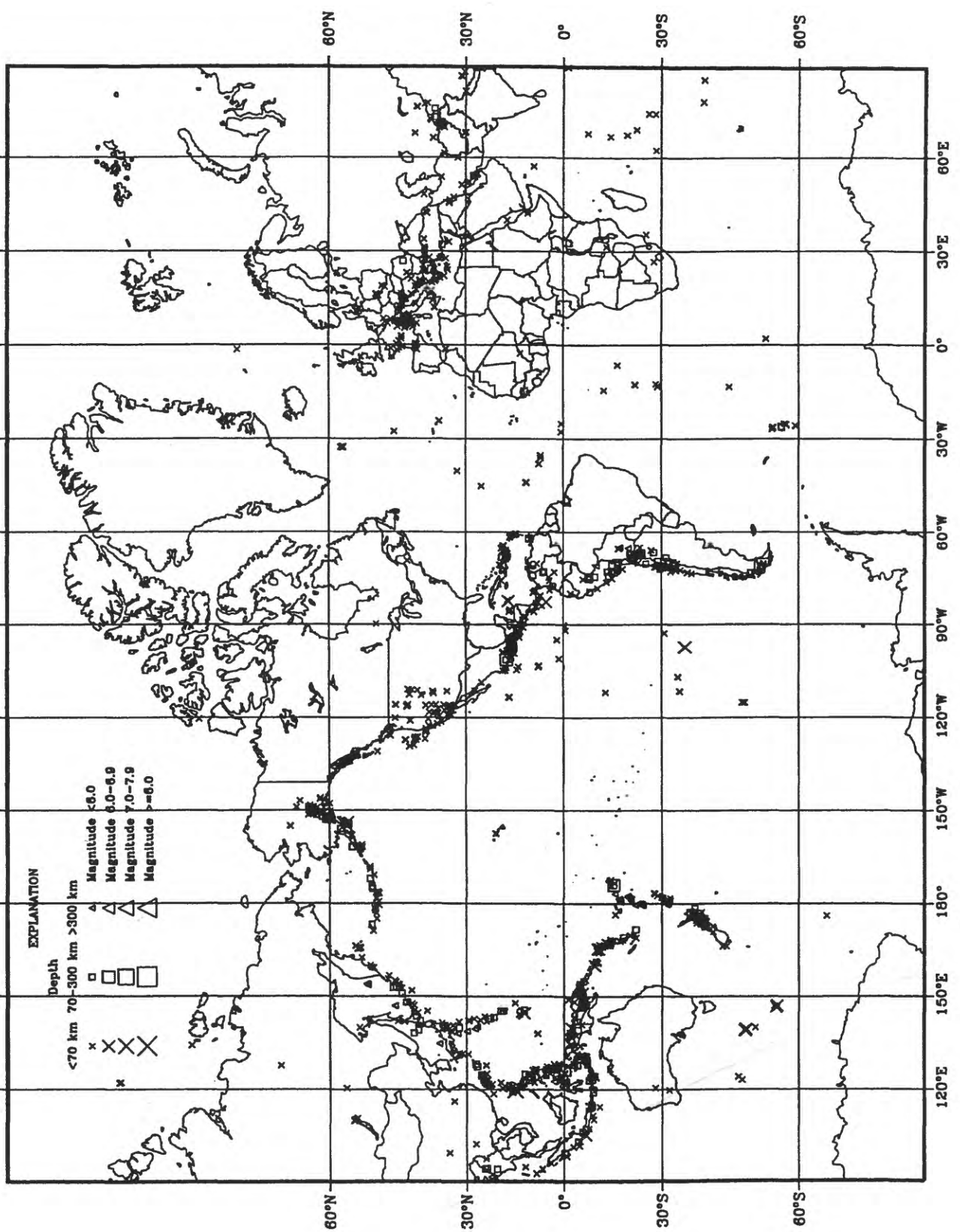
Earthquake epicenters in Alaska and adjacent regions for December 1999



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



Earthquakes located worldwide in December 1999



Earthquake Focal Mechanisms for December 1999