International Seismological Centre

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
MAR 1d 00h 01m 44.2±0.05s, SD0.64/16							
7.43 S±0.45km, 128.59 E±0.93km, h164±0.29km							
Banda Sea					(280)		
LZH	49.1	333	eP	00 10 18.0	0.2		
GTA	53.7	332	+iP	00 10 51.5	−0.3		
WMQ	63.0	328	P	00 11 56.0	−0.4		
MAR 1d 01h 53m 05.0±0.11s, SD1.58/77							
5.48 N±1.39km, 125.04 E±2.07km, h48±0.17km							
Celebes Sea					(262)		
M_S4.9/21,							
QZN	20.0	314	eP	01 57 37.0	0.2		
			eS	02 01 20.0	5.9		
			sS	02 01 31.0	0.9		
			LN	M_S=4.7		12.0	0.80
			LE			16.0	1.40
GZH	20.8	328	eP	01 57 44.0	−1.2		
			LN	M_S=5.0		18.0	3.43
SSE	25.7	352	eP	01 58 35.0	1.9		
			pP	01 58 44.0	−0.6		
			sP	01 58 48.0	−2.0		
			PP	01 59 14.3	0.9		
			eS	02 03 02.0	5.9		
			LZ	M_S=4.6		20.0	1.57
WHN	26.9	339	eP	01 58 44.5	0.8		
			eS	02 03 18.0	3.0		
			sS	02 03 32.0	−3.1		
			LZ	M_S=4.8		17.0	2.30
NJ2	27.1	348	eP	01 58 47.0	1.6		
			LZ	M_S=4.4		22.0	1.13
GYA	27.3	322	P	01 58 52.0	4.7		
			sP	01 59 05.2	1.2		
			LN	M_S=5.1		16.0	1.80
			LE			16.0	1.70
KMI	29.0	315	eP	01 59 04.0	1.3		
			pP	01 59 13.0	−1.2		
			eS	02 03 52.0	3.3		
			LE	M_S=4.8		14.0	1.07
			LZ	M_S=4.4		25.0	1.08
XAN	32.1	334	+iP	01 59 30.8	0.4		
			sP	01 59 43.8	−3.6		
			S	02 04 40.1	2.9		
CD2	32.2	324	eP	01 59 31.0	−0.6		
			eS	02 04 40.0	−0.2		
			LN	M_S=5.2		23.0	3.40
TIY	34.1	342	eP	01 59 46.4	−1.1		
			pP	01 59 57.0	−2.4		
			S	02 05 05.0	−2.7		
			sS	02 05 24.5	−4.6		
			LE	M_S=4.7		14.0	0.65
			LZ	M_S=4.5		28.0	1.33
BJI	35.3	348	eP	01 59 56.0	−2.0		
LZH	36.2	330	eP	02 00 06.0	0.7		
			pP	02 00 15.0	−2.1		
			sP	02 00 20.0	−2.2		
			eS	02 05 41.0	0.0		
			LN	M_S=5.6		15.0	3.70
			LE			16.0	4.10
SNY	36.2	358	eP	02 00 03.0	−2.6		
			S	02 05 41.0	0.3		
			LE	M_S=4.9		23.0	1.38
HHC	37.2	343	eP	02 00 13.7	−0.6		
			S	02 05 56.0	−0.3		
			LN	M_S=5.6		14.0	2.70
			LE			16.0	3.70
BTO	37.5	341	eP	02 00 17.5	1.2		
			esP	02 00 33.0	−0.4		
			PP	02 01 49.0	4.6		
			eS	02 06 06.0	4.8		
CN2	38.2	0	eP	02 00 22.5	0.5		
			pP	02 00 32.0	−2.0		
			eS	02 06 17.0	5.6		
			LE	M_S=5.0		16.0	1.20
			LZ	M_S=4.8		18.0	1.40
MDJ	39.2	5	eP	02 00 30.0	−0.4		
			pP	02 00 46.0	3.5		
			sS	02 06 45.0	−2.5		
			LZ	M_S=4.8		20.0	1.47
GTA	40.7	330	eP	02 00 43.2	−0.3		
			eS	02 06 55.0	4.6		
			LN	M_S=4.8		22.0	1.03
			LZ	M_S=4.8		20.0	1.25
WMQ	50.3	325	−iP	02 01 59.0	−0.7		
			S	02 09 06.0	−0.4		
			LZ	M_S=5.0		22.0	1.64
KSH	55.7	315	eP	02 02 40.0	0.7		
			sP	02 02 55.0	−1.7		
			eS	02 10 24.0	3.6		
MAR 1d 02h 13m 51.5±0.21s, SD1.82/67							
55.86 N±3.35km, 166.46 E±1.91km, h38±0.63km							
Komandorsky Islands region					(4)		
M_S5.5/29, m_B5.4/2,							
MDJ	25.8	260	eP	02 19 20.0	−1.2		
			S	02 23 44.0	−0.9		
			LZ	M_S=5.2		16.0	6.00
CN2	28.6	263	eP	02 19 46.8	−0.2		
			eS	02 24 26.0	−5.5		
			LN	M_S=5.5		14.0	4.60
			LE			14.0	1.90
			LZ	M_S=5.1		14.0	3.30
SNY	31.0	261	eP	02 20 06.4	−1.3		
			S	02 25 06.0	−1.5		
			LN	M_S=5.4		13.0	2.01
			LE			15.0	3.09
			LZ	M_S=5.2		18.0	4.28
BJI	36.3	266	eP	02 20 54.0	0.2		
			eS	02 26 33.0	1.5		
			LN	M_S=5.6		13.0	3.83
			LE			12.0	2.34
			LZ	M_S=5.3		15.0	3.80
HHC	38.4	271	eP	02 21 14.0	2.8		
			S	02 27 06.0	4.1		
TIA	38.5	260	eP	02 21 10.3	−1.7		
			eS	02 27 03.0	−1.6		
			LN	M_S=5.5		15.0	2.30
			LE			15.0	2.40
BTO	39.4	272	P	02 21 20.0	0.2		
			pP	02 21 31.0	1.0		
			sP	02 21 37.0	2.6		
			S	02 27 18.0	0.3		
			LN	M_S=5.7		16.0	5.40
			LE			16.0	3.40
			LZ	M_S=5.2		20.0	3.50
TIY	40.0	266	−P	02 21 24.0	−1.0		
			S	02 27 23.5	−3.5		
			LN	M_S=5.7		14.5	3.80
			LE			14.0	2.27

International Seismological Centre

			LZ		M_S=5.4	15.0	4.02
SSE	40.1	251	eP	02 21 29.0	3.5		
			eS	02 27 32.0	2.9		
			sS	02 27 40.0	−6.4		
			LE		M_S=5.1	15.0	1.37
WHN	44.2	257	P	02 22 00.5	1.1		
			sP	02 22 16.0	1.9		
			eS	02 28 30.0	0.0		
			LE		M_S=5.6	14.0	3.57
XAN	44.6	266	+P	02 22 02.7	0.0		
			LN		M_S=5.6	14.0	1.71
			LE			14.0	3.06
GTA	45.9	278	eP	02 22 11.8	−1.4		
			eS	02 28 56.0	1.3		
			SMN		m_B=5.5	10.0	0.55
			SME			12.0	0.60
			eScS	02 32 07.9	5.9		
			LN		M_S=5.7	20.0	3.99
			LE			13.0	2.34
			LZ		M_S=5.4	14.0	3.20
WMQ	49.5	291	P	02 22 40.0	−0.9		
			eS	02 29 46.0	1.1		
			LE		M_S=5.9	20.0	7.36
CD2	49.9	267	eP	02 22 42.0	−1.7		
			S	02 29 47.0	−1.8		
			LE		M_S=5.6	15.0	3.20
			LZ		M_S=5.4	16.0	3.30
GYA	51.7	261	P	02 22 55.0	−2.3		
			sP	02 23 09.0	−2.9		
			S	02 30 17.0	3.6		
			LN		M_S=5.7	18.0	3.70
			LE			18.0	2.40
KMI	54.9	263	+P	02 23 21.0	−0.4		
			sP	02 23 39.0	3.0		
			eS	02 30 54.0	−4.9		
			LN		M_S=5.4	14.0	1.50
			LZ		M_S=5.1	20.0	1.53
QZN	55.9	253	eP	02 23 30.6	2.5		
			eS	02 31 11.5	0.1		
			LN		M_S=5.3	13.0	0.50
			LE			14.0	1.10
KSH	58.7	295	P	02 23 52.0	3.5		
			eS	02 31 52.0	2.8		
			LN		M_S=5.7	14.0	2.50

MAR 1d 15h 45m 37.8±0.11s, SD1.91/16
40.42 N±1.07km, 77.52 E±1.38km, h59±0.23km
Southern Xinjiang Province (321)
M_L4.3/6,

KSH	1.5	234	−iP	15 46 04.0	0.1		
			S	15 46 26.0	5.0		
WMQ	8.3	63	P	15 47 39.0	0.7		
			S	15 49 13.5	3.6		
			SME		M_L=4.6	1.5	0.15
GTA	17.1	86	eP	15 49 35.4	0.3		
			SMN			1.2	0.010
			SME			1.2	0.010

MAR 1d 21h 49m 37.8±0.04s, SD1.55/5
25.18 N±0.45km, 105.46 E±0.28km, h19±0.11km
Yunnan Province (318)
M_L3.0/3,

GYA	1.7	40	Pn	21 50 07.8	1.0		
			Sn	21 50 31.2	1.9		
			SMN		M_L=2.8	0.6	0.10
			SME			0.6	0.10
KMI	2.5	269	ePg	21 50 21.5	−0.2		
			Sg	21 50 52.0	−3.2		
			SMN		M_L=3.0	1.0	0.11
			SME			0.5	0.050

MAR 2d 07h 13m 14.7±0.26s, SD1.82/42
9.94 N±2.53km, 84.65 W±1.69km, h22±2.46km
Off coast of Costa Rica (77)
M_S5.8/3,

BJI	126.7	340	ePKP	07 32 18.0	0.2		
TIA	129.7	337	ePKP	07 32 23.5	−0.2		
TIY	130.0	342	ePKP	07 32 24.7	0.5		
			LN		M_S=6.0	20.0	1.48
			LE			20.0	1.45
			LZ		M_S=5.6	20.0	1.12
GTA	130.7	355	ePKP	07 32 25.8	0.0		
			LN		M_S=5.6	17.0	0.72
			LZ		M_S=5.3	23.0	0.66
LZH	133.5	351	ePKP	07 32 32.0	0.9		
XAN	134.4	344	ePKP	07 32 32.1	−0.5		
WHN	135.8	336	ePKP	07 32 30.0	−5.1		
			LZ		M_S=5.5	20.0	0.90
KMI	144.4	348	PKP	07 32 50.0	−0.7		
			pPKP	07 32 59.0	2.7		
			sPKP	07 33 03.0	4.0		
			LZ		M_S=5.4	24.0	0.70
QZN	147.9	334	ePKP	07 33 00.9	4.6		

MAR 2d 08h 41m 57.0±0.14s, SD1.02/29
19.82 N±3.69km, 155.38 W±1.42km, h9±0.11km
Hawaiian Islands (613)

MDJ	65.8	311	eP	08 52 45.4	−0.2		
			pP	08 52 49.0	−1.9		
BJI	76.4	308	eP	08 53 49.0	−0.2		
TIA	76.6	304	P	08 53 49.4	−1.2		
WHN	80.4	299	eP	08 54 11.5	0.1		
			eS	09 04 14.0	−2.9		
XAN	83.7	304	eP	08 54 28.2	−0.2		
LZH	86.8	307	eP	08 54 44.5	0.2		
GYA	88.1	297	P	08 54 54.0	3.5		
GTA	88.5	311	P	08 54 52.0	−0.1		

MAR 2d 09h 28m 29.6±0.07s, SD1.08/84
6.45 S±1.54km, 104.72 E±1.73km, h68±0.51km
Sunda Strait (276)
M_S5.0/12, m_B5.4/1,

QZN	25.8	11	eP	09 33 56.6	0.0		
			eS	09 38 25.0	5.9		
			LN		M_S=5.0	16.0	2.40
KMI	31.4	357	eP	09 34 47.0	−0.4		
			pP	09 35 03.0	−0.1		
			eS	09 39 48.0	−1.5		
			LN		M_S=5.1	14.0	2.00
GYA	32.8	3	P	09 34 59.0	0.2		
CD2	37.2	359	P	09 35 35.5	−0.7		
			LZ		M_S=4.7	18.0	1.09
WHN	37.9	14	eP	09 35 42.5	0.0		
			pP	09 35 56.0	−2.9		
			S	09 41 28.0	−0.2		
			LZ		M_S=4.7	28.0	1.56
LSA	38.2	341	P	09 35 44.9	−0.7		
XAN	40.5	5	eP	09 36 01.1	−2.5		
			pP	09 36 18.7	−1.3		
SSE	40.5	22	P	09 36 05.5	1.5		
			eS	09 42 10.0	1.8		
			esS	09 42 38.0	1.5		
			LN		M_S=4.5	11.0	0.26
			LZ		M_S=4.3	20.0	0.46
NJ2	40.6	19	+P	09 36 06.4	1.8		
			LZ		M_S=4.4	19.0	0.54

LZH	42.3	359	eP	09 36 19.0	0.0			
TIA	44.0	14	eP	09 36 32.0	−0.6			
TIY	44.5	9	−iP	09 36 37:7	0.9			
			eS	09 43 10.0	3.0			
			LN	M_S=5.0		15.0	0.87	
			LZ	M_S=4.9		22.0	1.68	
GTA	45.9	355	+P	09 36 47.3	−0.2			
			LN	M_S=5.1		16.0	1.02	
			LZ	M_S=4.7		23.0	1.06	
BTO	47.1	6	P	09 36 57.0	0.0			
			epP	09 37 14.0	0.5			
			eS	09 43 44.0	0.5			
			LN	M_S=5.2		17.0	1.30	
			LE			17.0	0.50	
			LZ	M_S=5.1		17.0	2.00	
BJI	47.5	12	eP	09 37 00.0	0.2			
HHC	47.5	7	eP	09 37 00.6	0.3			
SNY	51.0	18	−P	09 37 26.8	−0.7			
WMQ	52.3	344	+iP	09 37 37.5	0.1			
KSH	52.9	332	P	09 37 42.0	0.2			
			eS	09 45 06.0	1.3			
			sS	09 45 28.0	−5.6			
			LN	M_S=5.4		14.0	1.50	
CN2	53.4	19	+iP	09 37 44.5	−0.8			
			PMZ			3.0	0.30	
			epP	09 38 02.0	−0.2			
			eS	09 45 11.0	−0.1			
			LN	M_S=5.0		13.0	0.60	
			LZ	M_S=4.7		18.0	0.60	
MDJ	55.5	21	eP	09 38 00.3	−0.5			

MAR 2d 18h 42m 09.8 ± 0.06s, SD1.18 / 52
40.97 N ± 1.29km, 71.21 E ± 0.79km, h48 ± 0.23km
Tadzhikistan (715)
M_S4.6 / 8, M_L5.0 / 3,

KSH	3.9	110	eP	18 43 10.0	1.1			
			S	18 43 58.0	5.5			
			LN	M_S=5.0		4.0	14.9	
WMQ	12.5	71	eP	18 45 06.7	−1.4			
			LZ	M_S=4.3		11.0	1.17	
LSA	19.7	118	P	18 46 39.1	0.2			
GTA	21.9	85	eP	18 47 01.1	0.5			
			LN	M_S=4.4		12.0	0.54	
			LZ	M_S=4.4		13.0	0.84	
LZH	25.9	90	eP	18 47 40.0	0.4			
CD2	28.1	101	eP	18 48 00.4	1.1			
XAN	30.5	91	+P	18 48 21.1	−0.2			
KMI	30.6	111	+P	18 48 22.0	0.1			
TIY	31.8	82	eP	18 48 33.2	0.3			
			S	18 53 39.0	1.3			
			LE	M_S=4.8		17.0	1.05	
			LZ	M_S=4.4		18.0	0.73	
GYA	32.6	105	P	18 48 40.0	0.4			
WHN	36.2	93	eP	18 49 10.4	0.2			
			eS	18 54 47.6	1.5			
			LZ	M_S=4.4		20.0	0.67	
SSE	41.1	87	eP	18 49 52.0	0.8			
			eS	18 56 02.0	1.6			
			LE	M_S=4.6		14.0	0.39	
			LZ	M_S=4.5		14.0	0.44	

MAR 2d 20h 08m 57.2 ± 0.08s, SD1.36 / 26
25.08 N ± 1.09km, 122.29 E ± 1.17km, h21 ± 0.45km
Taiwan (244)
M_S3.8 / 2, M_L4.2 / 14,

QZH	3.4	269	Pn	20 09 49.5	0.6			
			Sn	20 10 26.0	−4.0			
			SMN	M_L=3.7		0.6	0.23	
			SME			0.6	0.19	
SSE	6.1	351	eP	20 10 28.0	−0.2			
			SMN	M_L=4.1		1.0	0.090	
			SME			1.0	0.21	
			SMZ			12.0	0.45	
NJ2	7.6	337	eP	20 10 48.4	−1.0			
			S	20 12 19.5	4.3			
			LN	M_S=4.0		8.0	0.45	
			LE			6.5	0.54	
WHN	8.9	310	eP	20 11 08.0	0.4			
			eS	20 12 50.0	1.9			
			SMN	M_L=4.4		1.0	0.080	
			SME			1.0	0.070	
			LZ	M_S=4.1		8.0	0.84	
XAN	14.7	311	eP	20 12 25.2	−0.3			
GTA	23.7	313	eP	20 14 10.8	1.9			

MAR 3d 00h 28m 33.8 ± 0.07s, SD0.83 / 83
7.16 S ± 0.74km, 129.34 E ± 1.39km, h145 ± 0.46km
Banda Sea (280)

QZN	32.3	324	P	00 34 51.8	0.0			
			eS	00 39 57.0	2.7			
			sS	00 40 47.0	−1.3			
SSE	38.8	349	P	00 35 47.0	0.4			
			eS	00 41 40.0	6.6			
GYA	40.0	327	+P	00 35 57.2	0.7			
			pP	00 36 33.0	5.0			
			PcP	00 38 00.6	2.0			
			S	00 41 53.4	3.2			
WHN	40.1	340	+P	00 35 58.5	1.1			
NJ2	40.3	346	+iP	00 35 59.0	0.7			
			ScP	00 41 35.6	2.2			
KMI	41.2	322	eP	00 36 08.0	1.4			
TIA	44.6	346	eP	00 36 33.2	−0.7			
CD2	45.1	328	P	00 36 37.2	−0.4			
XAN	45.3	336	+iP	00 36 39.4	0.1			
			pP	00 37 11.8	0.4			
			PcP	00 38 14.9	−1.4			
			ScP	00 41 52.3	−1.4			
TIY	47.3	342	+iP	00 36 55.4	0.1			
			sP	00 37 45.0	0.8			
			sS	00 44 38.0	4.1			
BJI	48.5	347	+P	00 37 04.0	−0.3			
			PcP	00 38 28.0	0.2			
SNY	49.0	354	+P	00 37 07.8	−0.5			
LZH	49.2	333	eP	00 37 10.0	−0.1			
HHC	50.5	343	eP	00 37 19.6	0.0			
BTO	50.7	341	eP	00 37 22.3	0.8			
CN2	50.8	356	+P	00 37 21.4	−0.7			
MDJ	51.5	0	eP	00 37 27.5	0.2			
GTA	53.8	332	+iP	00 37 44.0	−0.2			
WMQ	63.2	327	+iP	00 38 49.0	−0.2			
			pP	00 39 25.0	1.9			
KSH	67.7	318	eP	00 39 19.0	0.5			

MAR 3d 03h 21m 19.5 ± 0.07s, SD1.71 / 92
23.85 N ± 1.32km, 121.82 E ± 1.21km, h32 ± 1.31km
Taiwan (244)
M_S5.2 / 43, M_L4.7 / 7,

QZH	3.1	291	Pn	03 22 08.0	0.8			
			Sn	03 22 43.5	−1.6			
			SMN	M_L=4.9		0.8	4.60	
			SME			0.8	3.68	
SSE	7.2	356	eP	03 23 05.2	−0.6			
			sP	03 23 17.0	−0.4			
			eS	03 24 29.0	1.3			
			SMN	M_L=4.7		1.0	0.27	
			SME			1.0	0.38	

International Seismological Centre

			LN		$M_S=4.7$		12.0	7.51
			LZ		$M_S=4.9$		14.0	9.73
GZH	7.8	266	eP	03 23	12.2	−1.7		
			LN		$M_S=5.0$		10.0	7.57
			LE				12.0	8.70
NJ2	8.6	343	−P	03 23	22.3	−2.2		
			S	03 24	55.0	−6.1		
			LN		$M_S=5.1$		10.0	2.73
			LE				9.0	10.9
			LZ		$M_S=4.8$		12.0	6.93
WHN	9.4	317	P	03 23	35.0	−1.0		
			S	03 25	19.0	−2.7		
			SMN				1.5	1.67
			SME				2.0	4.75
			LE		$M_S=5.1$		12.0	11.5
QZN	12.1	249	eP	03 24	13.8	0.5		
			eS	03 26	28.8	0.1		
			LN		$M_S=4.8$		17.0	5.10
			LE				16.0	2.20
TIA	13.0	343	eP	03 24	29.8	5.3		
			LN		$M_S=5.1$		11.0	5.20
			LE				11.0	3.60
			LZ		$M_S=4.9$		11.0	4.60
GYA	14.0	284	P	03 24	37.8	0.0		
			sP	03 24	50.0	0.6		
			S	03 27	10.0	−2.2		
			LN		$M_S=5.4$		11.0	4.80
			LE				11.0	10.2
DL2	15.0	359	eP	03 24	54.0	2.8		
			eS	03 27	40.0	2.8		
			LN		$M_S=4.8$		11.0	2.73
XAN	15.2	315	eP	03 24	52.0	−1.4		
			LN		$M_S=5.4$		9.0	2.29
			LE				10.0	7.48
TIY	16.0	332	eP	03 25	06.6	2.7		
			PP	03 25	21.5	4.9		
			LN		$M_S=5.3$		12.0	6.04
			LE				10.0	4.60
			LZ		$M_S=5.3$		12.0	10.1
BJI	16.8	345	eP	03 25	16.5	2.0		
			eS	03 28	22.0	2.4		
			LN		$M_S=5.1$		11.0	2.95
			LE				12.0	2.34
KMI	17.4	278	+P	03 25	25.0	2.9		
			pP	03 25	31.0	1.7		
			eS	03 28	33.0	−0.5		
			SS	03 28	52.0	−2.2		
			LE		$M_S=5.2$		11.0	5.20
			LZ		$M_S=5.2$		11.0	7.20
CD2	17.5	298	P	03 25	24.9	1.9		
			S	03 28	37.5	3.1		
			LZ		$M_S=5.6$		10.0	14.9
SNY	18.0	4	+P	03 25	30.0	1.0		
			sP	03 25	42.0	1.0		
			S	03 28	47.0	1.7		
			LN		$M_S=5.1$		14.0	3.88
			LE				13.0	3.06
			LZ		$M_S=5.0$		14.0	5.42
HHC	19.0	335	+P	03 25	42.0	0.3		
			S	03 29	14.0	5.7		
			sS	03 29	27.0	6.2		
			SS	03 29	37.0	3.1		
			LN		$M_S=5.2$		12.0	4.20
BTO	19.4	332	P	03 25	47.0	0.7		
			pP	03 25	54.5	0.7		
			S	03 29	20.0	2.5		
			sS	03 29	36.0	6.0		
			LN		$M_S=5.6$		11.0	9.00
			LE				11.0	5.20
			LZ		$M_S=5.3$		11.0	7.60
LZH	19.7	312	eP	03 25	50.0	0.2		
			pP	03 25	58.0	0.3		
			LN		$M_S=5.4$		9.0	4.00
			LE				10.0	4.20
CN2	20.1	8	−P	03 25	53.0	−0.8		
			pP	03 26	02.0	0.0		
			eS	03 29	30.0	−3.4		
			LN		$M_S=5.0$		12.0	2.70
			LZ		$M_S=5.0$		13.0	3.90
MDJ	21.7	15	eP	03 26	08.5	−1.1		
			pP	03 26	17.0	−1.2		
			LZ		$M_S=5.4$		14.0	9.88
GTA	24.2	315	+P	03 26	35.2	0.2		
			LN		$M_S=5.4$		12.0	1.63
			LE				12.0	4.22
			LZ		$M_S=5.2$		13.0	4.42
LSA	27.9	289	P	03 27	09.8	−0.2		
			LE		$M_S=5.3$		11.0	3.00
WMQ	34.3	314	eP	03 28	05.0	−0.5		
			esS	03 33	44.0	−0.7		
			LN		$M_S=5.4$		12.0	1.80
			LE				12.0	2.07
			LZ		$M_S=5.3$		14.0	3.60
KSH	41.6	303	P	03 29	07.0	0.2		
			PP	03 30	49.0	2.7		
			LE		$M_S=5.5$		10.0	2.20

MAR 3d 03h 55m 23.2 ± 0.04s, SD0.50 / 19
35.60 S ± 0.75km, 54.05 E ± 0.63km, h9 ± 0.06km
South Indian Ocean **(425)**

GYA	79.2	46	P	04 07 31.8	0.4
WMQ	84.8	24	eP	04 08 00.0	−0.1
GTA	85.8	34	eP	04 08 05.0	−0.1
XAN	86.2	43	P	04 08 07.3	0.2

MAR 3d 10h 17m 34.4 ± 0.07s, SD1.13 / 64
9.49 S ± 1.56km, 113.16 E ± 1.77km, h62 ± 0.55km
South of Java **(282)**

GYA	36.3	350	P	10 24 36.8	2.5
WHN	39.8	2	eP	10 25 04.1	0.5
SSE	41.1	11	eP	10 25 13.5	−0.5
CD2	41.2	348	P	10 25 15.4	0.6
NJ2	41.7	7	−P	10 25 21.0	2.2
XAN	43.5	355	−P	10 25 33.4	−0.3
LSA	44.4	332	P	10 25 41.0	−0.2
TIA	45.6	4	P	10 25 50.1	−0.6
LZH	46.2	350	eP	10 25 55.5	0.1
TIY	47.0	359	eP	10 26 01.4	−0.1
BJI	49.4	3	eP	10 26 19.0	−1.0
			pP	10 26 31.0	−4.1
BTO	49.9	357	eP	10 26 24.0	−0.5
HHC	50.1	358	+P	10 26 26.2	0.3
GTA	50.2	347	P	10 26 27.0	0.3
CN2	54.2	11	eP	10 26 55.0	−1.4
			pP	10 27 07.4	−4.3
MDJ	55.9	14	eP	10 27 08.0	−0.5
			pP	10 27 20.5	−3.4
WMQ	57.9	338	eP	10 27 22.6	−0.2
KSH	59.7	327	eP	10 27 35.5	−0.5

MAR 3d 16h 24m 00.3 ± 0.11s, SD1.40 / 25
35.34 S ± 2.04km, 53.99 E ± 1.91km, h8 ± 0.33km
Atlantic–Indian Ridge **(428)**

GYA	79.1	47	P	16 36 08.6	0.7
CD2	80.8	42	eP	16 36 17.6	0.5
WMQ	84.5	24	eP	16 36 36.6	0.3

International Seismological Centre

GTA	85.6	34	eP	16 36 40.6	−0.8		
XAN	86.0	43	eP	16 36 43.0	−0.6		

MAR 4d 03h 08m 15.7 ± 0.11s, SD0.67 / 78
17.93 S ± 0.78km, 178.47 W ± 1.32km, h596 ± 0.93km
Fiji region (181)
m_B5.7 / 9, m_b5.5 / 1,

QZH	74.6	303	eP	03 18 57.4	0.2		
			S	03 27 50.0	4.7		
SSE	75.7	310	eP	03 19 02.0	−1.1		
			eS	03 27 58.0	−0.3		
			SMN	m_B = 5.7		8.0	1.26
			ScS	03 28 19.0	−0.8		
NJ2	77.9	310	−P	03 19 15.5	0.6		
GZH	78.1	299	−P	03 19 16.0	0.1		
MDJ	78.2	325	−P	03 19 16.8	0.4		
			S	03 28 28.0	5.4		
			SMN	m_B = 5.8		10.0	1.90
DL2	79.6	317	P	03 19 23.5	−0.2		
			S	03 28 40.0	3.1		
			sS	03 32 22.0	5.4		
			SS	03 34 06.0	−0.1		
SNY	80.0	320	−iP	03 19 25.0	−0.8		
			iS	03 28 47.0	4.5		
			SMN	m_B = 5.8		8.0	1.06
			SME			6.0	0.91
CN2	80.0	322	−P	03 19 25.8	−0.2		
			PMZ	m_b = 5.5		2.5	0.50
			SKS	03 28 43.0	−0.1		
			SMN	m_B = 5.8		8.0	1.30
			SME			8.0	1.20
WHN	80.6	306	P	03 19 28.5	−0.4		
			PMZ	m_B = 5.7		4.0	1.30
			S	03 28 51.0	4.0		
			SMZ			6.0	1.00
TIA	81.2	312	−P	03 19 32.1	−0.1		
BJI	83.8	315	−P	03 19 45.0	0.1		
			PMZ	m_B = 5.2		4.0	0.32
			eSKS	03 29 10.0	1.1		
			eS	03 29 18.0	−1.8		
GYA	85.0	300	−P	03 19 51.8	0.6		
			pP	03 22 01.6	4.1		
			PP	03 23 20.0	0.4		
TIY	85.2	312	−P	03 19 52.6	0.3		
			SKS	03 29 13.0	−5.6		
XAN	86.2	307	−iP	03 19 57.4	0.4		
HHC	87.2	314	eP	03 20 02.0	0.2		
KMI	87.8	297	−P	03 20 05.0	0.5		
			PMZ			3.0	0.74
			SKS	03 29 38.0	3.1		
BTO	88.2	314	eP	03 20 06.8	0.5		
CD2	89.0	303	P	03 20 10.6	0.4		
			S	03 30 00.0	−6.7		
LZH	90.9	308	P	03 20 19.0	0.3		
GTA	95.0	310	−P	03 20 37.0	−0.5		

MAR 4d 03h 17m 56.0 ± 0.21s, SD3.10 / 24
16.39 S ± 8.83km, 67.08 E ± 6.19km, h20 ± 1.83km
Mid-Indian Rise (429)
M_S5.1 / 2,

KSH	56.2	8	eP	03 27 36.0	−1.9
GYA	57.4	43	P	03 27 50.4	4.2
GTA	63.4	28	eP	03 28 26.7	−0.4
XAN	64.1	38	eP	03 28 28.0	−3.4
TIY	68.6	37	eP	03 28 58.0	−2.8
BTO	69.3	34	eP	03 29 09.4	4.5
BJI	72.4	38	eP	03 29 25.0	1.8
MDJ	83.1	40	eP	03 30 27.5	4.8

MAR 4d 04h 08m 34.0 ± 0.09s, SD2.75 / 9
42.17 N ± 0.84km, 83.59 E ± 0.87km, h6 ± 0.20km
Southern Xinjiang Province (321)
M_L3.7 / 7,

WMQ	3.4	60	Pn	04 09 32.0	3.5		
			Sg	04 10 17.6	−4.1		
			SMN	M_L = 3.4		0.6	0.10
			SME			0.6	0.14

MAR 4d 12h 02m 59.1 ± 0.06s, SD2.01 / 10
41.69 N ± 0.56km, 88.46 E ± 0.51km, h12 ± 0.60km
Southern Xinjiang Province (321)
M_L3.9 / 9,

WMQ	2.2	346	lPg	12 03 36.9	−1.1		
			Sg	12 04 02.6	−5.3		
GTA	8.9	101	P	12 05 11.1	−0.3		
			S	12 06 54.0	1.4		
			SMN	M_L = 4.2		1.0	0.044
			SME			0.8	0.038

MAR 4d 13h 51m 37.4 ± 0.78s, SD3.24 / 6
21.72 N ± 6.32km, 99.59 E ± 2.25km, h30 ± km
Burma-China border region (297)
M_L3.9 / 4,

KMI	4.5	40	Pg	13 52 55.5	−0.9		
			SMN	M_L = 3.6		1.5	0.11
			SME			1.5	0.090
GYA	8.0	52	eP	13 53 34.0	−0.7		
CD2	9.9	21	eP	13 54 05.0	4.3		

MAR 5d 00h 56m 43.8 ± 0.12s, SD4.43 / 8
31.54 N ± 1.08km, 104.08 E ± 1.07km, h17 ± 0.43km
Sichuan Province (307)
M_L3.2 / 7,

CD2	0.7	204	Pg	00 56 53.9	−2.4		
			Sg	00 57 04.3	−1.5		
			SMN	M_L = 3.0		0.5	0.39
			SME			0.4	0.65
XAN	4.8	57	ePn	00 57 57.0	1.5		
			Pg	00 58 10.0	1.9		
			SMN	M_L = 3.2		1.0	0.030
			SME			1.0	0.040

MAR 5d 01h 58m 57.7 ± 0.09s, SD1.06 / 64
52.25 S ± 1.76km, 114.45 E ± 1.85km, h10 ± 0.37km
South-East Indian Ridge (435)
M_S5.4 / 4, m_B6.0 / 8,

QZN	71.1	355	eP	02 10 18.6	−0.2		
			eS	02 19 34.0	−0.4		
			sS	02 19 43.0	−0.6		
KMI	77.7	349	+P	02 10 58.0	0.6		
			PMZ	m_B = 6.0		5.0	0.92
			LN	M_S = 5.8		20.0	2.68
			LZ	M_S = 5.4		25.0	2.10
GYA	78.7	353	+P	02 11 04.0	1.5		
			PMZ			3.0	0.90
			SME	m_B = 5.9		8.0	0.80
WHN	82.4	360	eP	02 11 22.1	−0.3		
			sS	02 21 44.0	−3.2		
			LZ	M_S = 5.3		25.0	1.56
SSE	83.2	6	eP	02 11 26.0	−0.4		
			sP	02 11 34.2	−0.3		
			S	02 21 48.0	4.0		
			SS	02 27 12.0	0.3		
			LZ	M_S = 4.8		20.0	0.46
CD2	83.3	351	eP	02 11 26.0	−1.1		
			S	02 21 52.0	6.6		

International Seismological Centre

			LZ		$M_S=5.4$	21.0	1.60
NJ2	84.0	4	+P	02 11 30.0	−0.6		
			PMZ		$m_B=5.7$	5.5	0.43
			S	02 21 54.5	2.2		
LSA	84.1	340	P	02 11 30.2	−1.3		
XAN	86.1	355	eP	02 11 40.0	−0.8		
			SKS	02 22 04.0	1.5		
			S	02 22 19.0	6.8		
			SMN		$m_B=6.2$	6.0	0.83
			SME			7.0	1.02
TIA	88.1	2	eP	02 11 50.6	−0.1		
			S	02 22 29.0	−2.8		
			sS	02 22 37.0	−5.7		
			LN		$M_S=5.0$	34.0	0.64
LZH	88.4	351	eP	02 11 52.0	−0.5		
TIY	89.6	358	eP	02 11 57.5	−0.4		
			SKS	02 22 30.0	5.0		
			LZ		$M_S=5.4$	44.0	3.17
DL2	91.0	6	eP	02 12 06.0	1.7		
			S	02 23 04.0	6.0		
BJI	91.9	1	eP	02 12 09.5	1.0		
			eSKS	02 22 44.0	5.5		
			eS	02 23 14.0	6.0		
GTA	92.2	349	P	02 12 09.0	−0.8		
			SKS	02 22 42.6	2.7		
			S	02 23 13.0	4.6		
			SMN		$m_B=5.7$	6.0	0.40
			LN		$M_S=5.3$	22.0	0.78
			LZ		$M_S=5.2$	24.0	1.08
CN2	96.1	8	+P	02 12 27.0	−0.9		
			PMZ		$m_B=6.3$	4.0	0.30
			pP	02 12 31.0	−2.4		
			S	02 23 43.0	0.5		
			LZ		$M_S=5.0$	18.0	0.50
MDJ	97.4	11	eP	02 12 34.0	0.6		
WMQ	98.4	341	eP	02 12 39.0	0.7		
			SKS	02 23 15.0	0.8		
			LZ		$M_S=5.1$	24.0	0.77

MAR 5d 08h 42m 10.4 ± 0.06s, SD0.91 / 61
3.84 S ± 0.85km, 137.04 E ± 1.16km, h125 ± 0.22km
West Irian region (196)

QZN	35.1	311	P	08 48 54.0	0.0
SSE	37.9	338	eP	08 49 17.3	0.0
WHN	40.5	329	eP	08 49 39.5	0.7
GYA	42.1	317	P	08 49 53.0	1.0
KMI	44.0	313	eP	08 50 08.5	0.6
XAN	46.1	327	+P	08 50 23.8	−0.2
CD2	46.9	320	P	08 50 30.6	−0.1
TIY	47.2	333	eP	08 50 32.8	−0.4
BJI	47.7	338	eP	08 50 36.0	−0.6
			pP	08 51 09.0	4.0
CN2	48.6	349	−P	08 50 42.4	−0.9
MDJ	48.7	353	eP	08 50 44.8	0.4
HHC	50.2	335	P	08 50 55.7	−0.4
BTO	50.7	333	eP	08 50 59.0	−0.7
GTA	55.0	325	−P	08 51 31.4	−0.4
WMQ	64.9	323	P	08 52 39.4	0.3

MAR 5d 12h 06m 49.2 ± 0.07s, SD0.85 / 59
18.10 S ± 1.22km, 168.39 E ± 1.73km, h55 ± 0.84km
Vanuatu (New Hebrides) (186)

WHN	71.0	312	eP	12 18 03.0	−0.7
DL2	71.6	323	eP	12 18 07.8	0.3
MDJ	71.7	332	eP	12 18 08.5	0.3
TIA	72.6	319	eP	12 18 11.0	−2.1
SNY	72.6	326	eP	12 18 13.2	−0.1
CN2	73.1	329	−iP	12 18 16.3	0.2
			PMZ		3.0 0.20
			pP	12 18 29.5	−0.6
			eS	12 27 40.0	2.0
GYA	74.5	305	P	12 18 24.8	0.1
BJI	75.5	321	P	12 18 31.0	0.5
TIY	76.5	317	−P	12 18 36.5	0.8
XAN	76.7	313	eP	12 18 37.6	0.2
			pP	12 18 51.3	0.1
KMI	77.0	302	+P	12 18 39.0	0.1
HHC	78.8	320	eP	12 18 48.2	−0.8
CD2	78.9	308	eP	12 18 49.6	0.3
BTO	79.6	319	eP	12 18 54.0	0.6
LZH	81.4	312	P	12 19 03.5	0.9
GTA	85.8	314	−iP	12 19 25.8	1.0
LSA	88.2	302	P	12 19 37.1	−0.1
WMQ	95.8	314	P	12 20 12.0	0.2

MAR 5d 12h 40m 00.5 ± 0.15s, SD1.56 / 86
3.72 S ± 1.76km, 151.40 E ± 2.58km, h8 ± 0.26km
New Britain region (192)
M_S5.4 / 28, m_B5.6 / 12,

QZH	42.7	314	+P	12 48 05.2	4.8		
			eS	12 54 24.0	−0.2		
			SS	12 57 33.0	5.1		
			LN		$M_S=5.0$	16.0	1.05
SSE	45.0	322	+P	12 48 17.0	−1.9		
			PMZ		$m_B=5.5$	6.0	0.51
			lS	12 54 58.0	0.5		
			SME		$m_B=5.6$	8.0	0.70
			sS	12 55 10.0	3.6		
			LN		$M_S=5.3$	18.0	2.25
			LZ		$M_S=5.3$	20.0	3.24
QZN	46.7	300	eP	12 48 31.4	−0.9		
			eS	12 55 18.0	−3.7		
			sS	12 55 29.0	−1.5		
			LN		$M_S=5.2$	15.0	1.30
NJ2	47.1	321	+P	12 48 35.0	−0.5		
			S	12 55 29.5	3.0		
			LN		$M_S=5.6$	17.0	2.14
			LE			14.0	2.33
			LZ		$M_S=5.0$	21.0	1.61
WHN	49.1	317	eP	12 48 51.3	0.3		
			eS	12 55 55.0	−0.4		
			LZ		$M_S=5.2$	28.0	3.59
DL2	50.5	330	eP	12 49 04.0	2.1		
			eS	12 56 16.0	0.8		
			LE		$M_S=5.4$	15.0	1.62
TIA	51.0	324	eP	12 49 05.9	0.3		
			S	12 56 21.0	0.2		
			SME		$m_B=5.4$	10.0	0.57
			LN		$M_S=5.3$	17.0	1.61
SNY	51.9	334	+iP	12 49 12.0	−0.3		
			S	12 56 35.0	1.8		
			SMN			25.0	1.98
			SME			26.0	1.73
			LN		$M_S=5.4$	31.0	2.50
			LE			30.0	1.82
			LZ		$M_S=5.2$	30.0	3.48
MDJ	51.9	340	eP	12 49 11.5	−1.0		
			pP	12 49 17.0	−0.7		
			sP	12 49 22.0	1.6		
			S	12 56 30.0	−3.3		
			LZ		$M_S=5.4$	36.0	5.88
GYA	52.6	307	P	12 49 18.6	0.7		
			sP	12 49 30.0	4.3		
			SMN		$m_B=5.8$	8.0	0.70
			SME			8.0	0.70
			LN		$M_S=5.6$	20.0	3.20

International Seismological Centre

CN2	52.7	337	+P	12 49 17.6	−1.0			
			sP	12 49 24.0	−2.6			
			eS	12 56 42.0	−3.7			
			LN	M_S=5.3		15.0	1.20	
			LE			15.0	0.80	
			LZ	M_S=5.2		28.0	3.40	
BJI	54.2	327	eP	12 49 29.5	0.0			
			eS	12 57 00.0	−5.7			
			LZ	M_S=5.1		26.0	2.37	
TIY	54.8	322	P	12 49 35.0	1.0			
			S	12 57 11.0	−1.5			
			LZ	M_S=5.4		23.0	3.69	
XAN	54.9	317	eP	12 49 32.8	−1.6			
			S	12 57 12.0	−1.3			
			SME	m_B=5.7		8.0	0.82	
KMI	55.2	304	+P	12 49 37.5	0.4			
			S	12 57 23.0	5.0			
			LZ	M_S=4.9		28.0	1.52	
CD2	57.0	311	eP	12 49 48.8	−0.7			
			S	12 57 44.0	2.8			
			LZ	M_S=5.2		20.0	1.90	
HHC	57.4	325	eP	12 49 51.0	−1.3			
			S	12 57 51.0	4.7			
			SME	m_B=5.2		9.0	0.30	
			LN	M_S=5.4		18.0	1.40	
			LE			18.0	0.94	
BTO	58.1	324	eP	12 49 57.0	−0.5			
			pP	12 50 02.0	−0.6			
			eS	12 57 57.0	−0.5			
			LN	M_S=5.4		18.0	1.10	
			LE			18.0	1.30	
			LZ	M_S=5.3		20.0	2.40	
LZH	59.5	316	eP	12 50 07.0	−0.2			
			LE	M_S=5.6		15.0	2.18	
GTA	63.9	317	eP	12 50 36.7	−0.3			
			eS	12 59 17.0	5.2			
			SME	m_B=5.5		10.0	0.54	
			LN	M_S=5.2		24.0	1.35	
			LZ	M_S=5.2		22.0	1.94	
LSA	66.5	305	P	12 50 53.2	−0.6			
WMQ	74.0	318	P	12 51 40.0	0.7			
			eS	13 01 10.0	−1.1			
			sS	13 01 20.0	0.4			
			LZ	M_S=5.2		26.0	1.70	
KSH	81.2	311	P	12 52 22.0	2.6			
			sP	12 52 29.0	2.1			
			eS	13 02 26.0	−3.1			
			SKS	13 02 35.0	2.2			
			LE	M_S=5.5		15.0	1.10	

MAR 5d 14h 59m 31.4 ± 0.07s, SD0.94 / 36
24.12 S ± 1.31km, 179.85 E ± 2.12km, h557 ± 0.87km
South of Fiji (171)

SSE	78.5	312	eP	15 10 37.2	0.0		
			eS	15 19 52.0	2.7		
MDJ	82.4	326	eP	15 10 56.5	−0.6		
WHN	83.0	308	eP	15 11 01.0	0.6		
CN2	84.0	324	−P	15 11 04.8	−0.3		
TIA	84.3	314	eP	15 11 07.0	0.4		
GYA	86.7	301	P	15 11 18.8	0.3		
BJI	87.1	316	eP	15 11 20.0	0.0		
TIY	88.2	313	−P	15 11 26.2	0.7		
XAN	88.8	308	+P	15 11 28.8	0.8		
KMI	89.2	298	eP	15 11 31.0	0.6		
CD2	91.1	303	P	15 11 40.2	1.5		

MAR 5d 18h 24m 46.1 ± 0.14s, SD1.75 / 32
17.91 S ± 2.12km, 167.84 E ± 1.54km, h40 ± 0.58km
Vanuatu (New Hebrides) (186)

WHN	70.5	313	eP	18 36 03.0	3.9	
MDJ	71.3	332	eP	18 36 03.0	−1.3	
CN2	72.6	329	eP	18 36 11.0	−1.1	
BJI	75.1	321	eP	18 36 25.5	−0.8	
XAN	76.2	313	eP	18 36 32.7	−0.3	
KMI	76.4	302	eP	18 36 39.5	5.1	
HHC	78.4	320	eP	18 36 44.5	−0.4	
BTO	79.2	319	eP	18 36 48.0	−1.4	

MAR 6d 00h 05m 55.4 ± 0.08s, SD0.68 / 32
19.99 S ± 1.05km, 178.35 W ± 0.44km, h590 ± 1.02km
Fiji region (181)

NJ2	79.3	310	−P	00 17 04.0	1.4	
MDJ	79.9	325	eP	00 17 06.0	0.2	
CN2	81.7	323	−P	00 17 14.6	−0.3	
WHN	81.9	306	+P	00 17 16.6	0.8	
GYA	86.1	300	P	00 17 37.4	0.6	
XAN	87.6	307	P	00 17 44.0	0.5	
HHC	88.8	314	eP	00 17 49.5	0.3	
BTO	89.7	314	eP	00 17 53.7	0.2	

MAR 6d 00h 59m 30.7 ± 0.07s, SD1.16 / 25
47.54 N ± 2.18km, 153.06 E ± 1.53km, h116 ± 0.37km
Kurile Islands (221)

MDJ	16.5	268	eP	01 03 19.5	2.5	
CN2	19.6	269	eP	01 03 50.0	−2.4	
BJI	27.5	268	eP	01 05 10.0	1.9	
WHN	34.1	254	eP	01 06 05.0	−1.5	
XAN	35.6	264	P	01 06 19.2	0.3	
GYA	41.9	257	P	01 07 12.0	0.7	
KMI	45.4	259	eP	01 07 39.5	−0.2	

MAR 6d 04h 43m 17.6 ± 0.09s, SD1.60 / 25
25.99 N ± 1.33km, 95.41 E ± 0.81km, h92 ± 0.08km
Burma–India border region (294)

LSA	5.3	315	P	04 44 36.2	0.1	
KMI	6.7	96	eP	04 44 56.0	0.8	
GYA	10.1	85	P	04 45 41.4	−0.5	
LZH	12.4	34	eP	04 46 12.0	−0.3	
XAN	14.2	52	eP	04 46 34.2	−1.4	

MAR 6d 11h 11m 44.0 ± 0.13s, SD2.93 / 14
29.19 N ± 1.14km, 100.82 E ± 1.04km, h21 ± 0.27km
Sichuan Province (307)
M_L3.3 / 8,

CD2	3.1	55	ePn	11 12 36.2	4.3		
			Pg	11 12 39.7	1.4		
			Sg	11 13 14.8	−5.6		
			SMN	M_L=3.7		0.6	0.27
			SME			1.0	0.27
KMI	4.4	157	ePn	11 12 56.0	5.7		
			Pg	11 13 04.0	2.3		
			Sg	11 14 02.0	0.2		
			SMN			2.0	0.30
			SME			2.0	0.10
GYA	5.8	116	ePn	11 13 10.6	0.5		
			Pg	11 13 30.6	3.4		
			Sg	11 14 51.0	3.9		
			SMN	M_L=3.6		1.4	0.060
			SME			1.4	0.040
XAN	8.4	53	eP	11 13 47.0	−1.2		

MAR 6d 14h 23m 16.5 ± 0.06s, SD0.89 / 60
5.38 S ± 1.60km, 68.69 E ± 1.37km, h10 ± 0.22km
Chagos Archipelago region (426)
M_S4.8 / 1, m_b5.1 / 1,

KMI	44.9	46	+P	14 31 34.5	0.7

International Seismological Centre

KSH	45.2	8	+P	14 31 35.0	−0.9		
GYA	48.5	47	+P	14 32 02.4	0.1		
CD2	49.2	41	+P	14 32 07.6	−0.2		
WMQ	51.9	17	+P	14 32 27.8	−0.2		
LZH	52.8	36	eP	14 32 34.0	−0.8		
			PMZ	m_b = 5.1		2.0	0.054
GTA	53.0	30	+P	14 32 36.2	−0.4		
XAN	54.6	41	+iP	14 32 46.7	−1.3		
WHN	56.4	48	−P	14 33 01.0	−0.1		
TIY	59.1	40	eP	14 33 19.5	−0.6		
			LN	M_S = 4.8		11.0	0.25
BTO	59.4	36	eP	14 33 22.0	−0.3		
HHC	60.5	36	eP	14 33 29.5	−0.1		
NJ2	60.5	49	−P	14 33 30.4	0.7		
SSE	61.8	51	+P	14 33 38.5	−0.2		
			sP	14 33 47.0	0.0		
			LZ	M_S = 4.6		20.0	0.47
BJI	62.8	40	eP	14 33 45.0	−0.2		
CN2	70.7	40	+P	14 34 33.8	−1.4		
MDJ	73.7	41	eP	14 34 53.4	0.2		
			pP	14 35 01.0	2.4		

MAR 6d 20h 21m 31.2 ± 0.11s, SD2.14 / 38
34.47 N ± 1.43km, 87.43 E ± 1.18km, h32 ± 0.09km
Tibet (306)
M_S4.8 / 13,

WMQ	9.3	1	P	20 23 47.6	0.9		
			S	20 25 37.5	6.1		
KSH	10.5	302	eP	20 24 01.2	−1.5		
			eS	20 26 02.0	1.6		
			LE	M_S = 5.1		6.0	4.40
GTA	11.1	60	eP	20 24 10.0	−0.6		
			LN	M_S = 4.7		8.0	2.10
			LZ	M_S = 4.5		8.0	1.70
CD2	14.2	100	eP	20 24 52.4	0.1		
			LE	M_S = 5.0		8.0	3.44
GYA	18.4	111	P	20 25 44.0	−1.6		
			pP	20 25 49.0	−4.0		
			LN	M_S = 4.8		10.0	1.40
			LE			10.0	0.90
BTO	18.9	65	eP	20 25 50.0	−2.1		
			epP	20 25 57.0	−2.4		
			LN	M_S = 4.7		15.0	1.30
			LE			13.0	0.90
			LZ	M_S = 4.5		13.0	1.50
HHC	20.1	64	eP	20 26 05.2	−0.2		
TIY	20.4	74	eP	20 26 08.0	−0.9		
			sS	20 30 08.5	4.7		
			LN	M_S = 4.6		12.0	1.03
WHN	23.0	92	eP	20 26 37.5	3.0		
			LN	M_S = 4.7		12.0	1.17
			LZ	M_S = 4.7		10.0	1.27
BJI	23.5	68	eP	20 26 41.0	1.8		

MAR 6d 21h 06m 14.7 ± 0.10s, SD2.79 / 8
31.60 N ± 0.76km, 104.12 E ± 0.69km, h12 ± 0.42km
Sichuan Province (307)
M_L3.1 / 5,

CD2	0.8	204	ePg	21 06 27.8	−0.4		
			Sg	21 06 39.6	1.1		
			SMN	M_L = 3.0		0.7	0.60
			SME			0.4	0.30
XAN	4.7	58	ePn	21 07 25.0	−1.1		
			Pg	21 07 39.0	1.1		
			Sn	21 08 17.2	−5.6		
			Sg	21 08 39.0	−3.5		
			SMN	M_L = 3.5		1.0	0.080
			SME			0.8	0.060

MAR 6d 22h 33m 42.0 ± 0.05s, SD1.03 / 76
45.64 N ± 1.94km, 151.41 E ± 1.39km, h41 ± 0.93km
Kurile Islands (221)
M_S4.9 / 4, m_b5.8 / 1,

MDJ	15.4	274	+P	22 37 19.2	0.5		
			pP	22 37 22.5	−4.3		
			S	22 40 08.0	0.2		
			LZ	M_S = 5.0		16.0	7.85
CN2	18.5	274	−P	22 37 56.0	−1.4		
			eS	22 41 16.0	−3.1		
			LN	M_S = 4.8		15.0	2.60
			LZ	M_S = 4.3		16.0	1.20
SNY	20.4	269	+iP	22 38 18.3	−0.3		
			LN	M_S = 4.6		20.0	1.09
			LE			23.0	1.38
			LZ	M_S = 4.3		24.0	1.30
DL2	23.0	264	eP	22 38 44.6	0.6		
			eS	22 42 48.0	1.0		
BJI	26.3	270	eP	22 39 16.0	0.1		
			eS	22 43 48.0	4.4		
TIA	27.4	262	−P	22 39 26.5	0.5		
SSE	27.6	249	+P	22 39 28.2	0.3		
			pP	22 39 39.0	0.9		
			sP	22 39 46.0	3.3		
			S	22 44 08.0	4.0		
			sS	22 44 25.0	2.5		
NJ2	28.5	253	+P	22 39 37.0	0.6		
HHC	29.2	275	+P	22 39 43.0	0.6		
TIY	29.9	269	+P	22 39 49.4	0.5		
			eS	22 44 39.5	−2.9		
BTO	30.4	275	eP	22 39 53.0	0.1		
WHN	32.5	255	P	22 40 11.0	−0.5		
XAN	34.2	265	+iP	22 40 26.2	−0.4		
LZH	36.7	272	+iP	22 40 49.0	1.0		
GTA	38.0	279	+iP	22 40 59.1	0.8		
			sP	22 41 13.0	−0.3		
CD2	39.6	265	+iP	22 41 12.4	0.7		
			eS	22 47 11.0	−0.8		
GYA	40.3	257	P	22 41 17.8	0.1		
KMI	43.9	259	+P	22 41 47.5	0.5		
WMQ	44.2	291	eP	22 41 50.0	0.3		
LSA	49.1	273	+P	22 42 29.0	0.2		

MAR 6d 22h 35m 35.2 ± 0.07s, SD1.06 / 148
57.36 N ± 1.90km, 142.90 W ± 1.46km, h14 ± 0.15km
Gulf of Alaska (15)
M_S8.0 / 45, m_B7.3 / 38, m_b6.8 / 3,

MDJ	52.8	296	+P	22 44 51.7	−1.0		
			pP	22 44 55.2	−3.5		
			PcP	22 45 58.0	−3.3		
			PP	22 46 55.0	2.4		
			PcS	22 49 56.0	−2.5		
			LE	M_S = 7.9		18.0	571
CN2	55.4	298	−P	22 45 10.3	−1.5		
			pP	22 45 16.0	−1.9		
			S	22 52 54.0	0.8		
			SME			1.0	65.0
			LE	M_S = 7.8		18.0	467
SNY	57.8	298	+iP	22 45 30.0	1.2		
			PMZ	m_B = 7.4		10.0	52.8
			lS	22 53 27.0	1.0		
			LN	M_S = 8.3		19.0	708
			LE			15.0	875
DL2	61.0	297	+iP	22 45 51.0	0.0		
			S	22 54 08.0	1.6		
			LN	M_S = 8.2		24.0	959
			LE			24.0	888

International Seismological Centre

BJI	62.6	302	eP	22 46 01.5	−0.7			
			PMZ	$m_B = 7.4$		11.0	58.1	
			S	22 54 34.0	6.5			
			LN	$M_S = 8.2$		14.0	482	
			LE			16.0	723	
HHC	64.1	306	+P	22 46 11.0	−0.8			
			PMZ	$m_B = 7.1$		8.0	21.7	
			S	22 54 48.0	2.7			
			LN	$M_S = 7.9$		18.0	307	
			LE			18.0	300	
BTO	64.9	307	−iP	22 46 17.5	0.0			
			PMZ			3.0	6.70	
			pP	22 46 23.0	−0.6			
			sP	22 46 26.0	−0.4			
			PcS	22 50 52.0	−0.2			
			iS	22 54 59.0	1.3			
			SMN	$m_B = 6.9$		9.0	6.90	
			SME			9.0	9.40	
			sS	22 55 12.0	4.2			
			SS	22 59 10.0	0.3			
TIA	65.3	299	−P	22 46 19.5	0.0			
			PMZ			13.0	24.6	
			S	22 55 03.0	2.8			
			SMN			14.0	123	
			LN	$M_S = 8.2$		25.0	1138	
TIY	66.2	303	+P	22 46 25.2	−0.5			
			PMZ	$m_B = 7.5$		10.0	54.8	
			PcP	22 46 56.5	1.7			
			PP	22 48 52.0	−0.8			
			PPMZ			9.0	31.5	
			iS	22 55 15.0	1.6			
			SMN			15.0	105	
			SME			15.0	97.8	
			sS	22 55 28.0	4.5			
			ScS	22 56 12.5	−4.5			
			LE	$M_S = 8.1$		17.0	705	
			LZ	$M_S = 7.5$		22.0	303	
SSE	67.4	292	+P	22 46 33.5	0.3			
			PMZ			16.0	48.7	
			PcP	22 46 57.0	−2.8			
			S	22 55 28.0	1.7			
			SME	$m_B = 7.3$		8.0	23.8	
			LN	$M_S = 8.0$		14.0	346	
			LE			14.0	119	
NJ2	67.8	295	−iP	22 46 36.0	0.4			
			iS	22 55 36.0	3.8			
			LE	$M_S = 7.8$		16.5	279	
GTA	70.2	313	−iP	22 46 49.6	−0.9			
			PMZ	$m_B = 7.4$		11.0	47.9	
			PP	22 49 28.0	1.5			
			S	22 55 57.0	−2.1			
			SME	$m_B = 7.5$		12.0	49.8	
			LN	$M_S = 8.1$		23.0	831	
			LZ	$M_S = 7.4$		34.0	387	
WMQ	70.7	324	P	22 46 53.0	−0.5			
			PMZ	$m_B = 7.8$		4.0	47.2	
			PP	22 49 35.0	3.8			
			PPMZ			10.0	42.6	
			S	22 56 09.0	4.1			
			LE	$M_S = 8.3$		20.0	1021	
XAN	70.9	303	−iP	22 46 54.4	−0.1			
			PP	22 49 34.0	1.3			
			PPMZ			10.0	38.9	
			S	22 56 06.0	−1.0			
			SMN	$m_B = 7.2$		8.0	16.8	
			SKS	22 56 50.0	−1.0			
			SS	23 00 40.0	−1.4			
			LE	$M_S = 7.6$		17.0	197	
WHN	71.2	297	P	22 46 55.5	−1.2			
			PMZ	$m_B = 7.4$		10.0	45.0	
			PP	22 49 36.0	0.2			
			iS	22 56 14.0	1.3			
			LZ	$M_S = 8.1$		22.0	1090	
LZH	71.4	308	−iP	22 46 57.5	−0.2			
			pP	22 47 02.0	−1.6			
			S	22 56 14.0	1.2			
			LN	$M_S = 8.0$		21.0	389	
			LE			20.0	313	
QZH	73.8	291	−P	22 47 12.0	0.4			
			PMZ	$m_B = 7.2$		5.0	13.3	
			PPMZ			9.0	40.8	
			iS	22 56 43.0	1.5			
			SS	23 01 26.0	0.0			
			SMN	$m_B = 7.3$		10.0	21.2	
			SME			10.0	10.7	
			LN	$M_S = 7.5$		18.0	134	
CD2	75.8	306	−iP	22 47 23.8	0.2			
			PMZ			3.0	4.73	
			S	22 57 07.0	4.0			
			LE	$M_S = 7.9$		20.0	373	
GZH	77.9	294	+P	22 47 35.7	0.3			
			sP	22 47 46.0	1.7			
			PP	22 50 29.0	−3.4			
			iS	22 57 29.0	1.5			
			LE	$M_S = 7.7$		24.0	292	
KSH	78.1	330	−iP	22 47 38.0	1.5			
			ePP	22 50 38.0	4.2			
			iS	22 57 36.0	6.2			
			SME	$m_B = 7.5$		10.0	38.6	
			LE	$M_S = 7.7$		22.0	265	
GYA	78.3	301	P	22 47 38.8	1.3			
			PMZ	$m_B = 7.0$		6.0	11.3	
			PP	22 50 40.0	4.6			
			S	22 57 31.0	1.1			
			LN	$M_S = 8.3$		22.0	733	
			LE			22.0	798	
KMI	81.2	303	−iP	22 47 54.0	0.5			
			PP	22 50 57.0	−3.0			
			S	22 58 00.0	−0.7			
			iSKS	22 58 05.0	−1.3			
			LE	$M_S = 8.2$		23.0	801	
LSA	82.1	315	−P	22 47 58.0	−0.2			
			pP	22 48 04.0	0.3			
			PP	22 51 10.0	3.3			
			S	22 58 12.5	3.0			
			LN	$M_S = 7.2$		14.0	26.0	
			LE			13.0	32.0	
QZN	83.1	294	−P	22 48 04.0	1.2			
			pP	22 48 08.0	−0.9			
			sP	22 48 10.0	−1.7			
			PP	22 51 16.0	1.4			
			S	22 58 19.5	−0.1			
			SME			13.0	13.0	
			sS	22 58 26.0	−5.5			
			SS	23 03 48.0	1.0			
			LN	$M_S = 7.6$		13.0	68.4	
			LE			14.0	85.0	

MAR 6d 23h 05m 53.4 ± 0.04s, SD1.06 / 17
57.01 N ± 0.73km, 143.05 W ± 0.66km, h3 ± 0.16km
Gulf of Alaska

					(15)
CN2	55.5	299	eP	23 15 31.0	−1.2
			pP	23 15 37.4	0.7
XAN	71.0	303	P	23 17 14.2	−0.9
GYA	78.4	301	P	23 17 58.0	0.1

International Seismological Centre

MAR 6d 23h 14m 35.6 ± 0.08s, SD0.88 / 79
57.78 N ± 1.59km, 142.94 W ± 1.19km, h15 ± 0.24km
Gulf of Alaska (15)

MDJ	52.6	296	eP	23 23 51.0	−0.3			
CN2	55.1	298	−iP	23 24 10.2	−0.2			
			sP	23 24 19.0	−0.7			
SNY	57.5	298	−iP	23 24 27.6	0.1			
DL2	60.8	297	eP	23 24 47.0	−2.8			
BJI	62.4	302	eP	23 25 00.5	−0.3			
HHC	63.8	305	P	23 25 10.5	0.2			
BTO	64.7	306	P	23 25 15.4	−0.6			
TIA	65.0	299	−P	23 25 18.4	0.1			
TIY	66.0	303	eP	23 25 24.4	0.0			
SSE	67.2	292	+P	23 25 32.5	0.3			
			pP	23 25 41.0	2.3			
NJ2	67.6	295	−P	23 25 36.0	1.4			
WMQ	70.3	324	P	23 25 52.2	0.7			
XAN	70.6	303	P	23 25 53.0	−0.2			
WHN	71.0	297	eP	23 25 55.5	−0.1			
QZH	73.6	291	−P	23 26 11.0	0.1			
CD2	75.6	305	eP	23 26 23.1	0.8			
KSH	77.7	330	P	23 26 35.4	0.7			
GYA	78.1	301	P	23 26 37.0	0.6			
LSA	81.8	315	−P	23 26 57.0	0.2			
QZN	82.9	294	eP	23 27 05.0	3.0			

MAR 7d 11h 20m 02.6 ± 0.32s, SD2.08 / 32
11.57 S ± 1.98km, 73.96 W ± 1.45km, h22 ± 2.97km
Peru (116)

WMQ	144.2	23	PKP	11 39 36.8	−1.2			
SNY	146.2	336	ePKP	11 39 41.8	0.4			
BJI	150.3	344	ePKP	11 39 52.5	4.5			
GTA	151.7	10	ePKP	11 39 50.8	0.5			
TIY	153.3	349	ePKP	11 39 56.0	3.4			

MAR 7d 12h 51m 49.2 ± 0.08s, SD1.06 / 73
2.31 S ± 1.58km, 99.94 E ± 1.75km, h29 ± 0.39km
Southern Sumatera (274)
M_S4.8 / 1,

QZN	23.3	24	eP	12 56 57.0	0.8			
GYA	29.3	12	+P	12 57 51.2	−0.8			
LSA	32.9	346	+P	12 58 23.8	−0.3			
CD2	33.2	6	eP	12 58 25.0	−1.4			
WHN	35.4	22	−iP	12 58 46.0	0.7			
			LZ		M_S = 4.9	16.0	1.80	
XAN	37.1	12	+iP	12 58 58.4	−1.2			
LZH	38.4	5	P	12 59 10.0	−0.1			
NJ2	38.6	26	+P	12 59 12.5	0.7			
SSE	38.9	30	+P	12 59 15.5	1.2			
			eS	13 05 12.0	1.3			
			esS	13 05 28.0	3.0			
			LZ		M_S = 4.3	20.0	0.47	
TIY	41.5	15	eP	12 59 32.0	−3.7			
			S	13 05 51.0	2.7			
			LN		M_S = 4.8	14.0	0.56	
			LZ		M_S = 4.4	20.0	0.50	
GTA	41.5	360	P	12 59 35.9	−0.3			
TIA	41.5	21	eP	12 59 35.5	−0.7			
BTO	43.7	11	eP	12 59 54.0	0.1			
BJI	44.7	18	eP	13 00 02.0	0.2			
KSH	47.1	335	eP	13 00 19.0	−2.1			
			eS	13 07 08.0	−3.0			
WMQ	47.2	348	+iP	13 00 23.0	1.1			
			S	13 07 14.4	3.2			
			SMN			2.0	0.020	
CN2	51.3	24	+iP	13 00 52.2	−1.1			
MDJ	53.7	26	+P	13 01 10.7	−0.5			
			LZ		M_S = 4.9	12.0	0.60	

MAR 7d 13h 45m 55.9 ± 0.11s, SD1.61 / 36
15.97 S ± 2.19km, 172.77 W ± 2.12km, h32 ± 0.23km
Tonga (173)

MDJ	79.8	322	eP	13 58 03.5	−0.1			
			pP	13 58 13.5	0.5			
			S	14 08 08.0	6.0			
			LZ		M_S = 5.3	12.0	0.94	
CN2	81.9	320	eP	13 58 14.0	−0.5			
WHN	83.9	304	eP	13 58 23.2	−1.5			
BJI	86.3	313	eP	13 58 34.5	−2.0			
			eS	14 09 12.0	3.4			
GYA	88.8	298	P	13 58 54.2	5.2			
XAN	89.5	306	eP	13 58 52.4	0.6			
BTO	90.9	312	eP	13 58 55.0	−3.5			

MAR 7d 15h 21m 06.0 ± 0.06s, SD1.09 / 111
41.77 N ± 1.57km, 152.23 E ± 1.14km, h9 ± 0.20km
North Pacific Ocean (611)
M_S5.2 / 48, m_B6.1 / 39,

MDJ	16.7	287	−P	15 25 00.5	−2.2			
			pP	15 25 07.5	0.4			
			S	15 28 01.0	−6.7			
			LZ		M_S = 4.9	12.0	3.60	
CN2	19.7	285	−iP	15 25 38.7	−0.4			
			PMZ		m_B = 6.1	5.0	4.90	
			pP	15 25 46.0	2.0			
			S	15 29 16.0	0.5			
			SMN		m_B = 6.0	7.0	3.90	
			SME			7.0	3.60	
			LE		M_S = 5.1	12.0	3.50	
			LZ		M_S = 5.3	12.0	7.20	
SNY	21.3	280	+iP	15 25 57.0	1.2			
			PMZ		m_B = 6.2	6.5	6.49	
			pP	15 26 06.0	5.1			
			S	15 29 45.0	−2.4			
			SMN		m_B = 5.9	6.0	3.01	
			SME			9.0	3.09	
			LE		M_S = 5.0	23.0	4.57	
			LZ		M_S = 5.0	24.0	6.89	
DL2	23.4	273	+iP	15 26 18.0	1.2			
			PMZ		m_B = 6.5	4.0	7.27	
			S	15 30 32.0	6.1			
			LN		M_S = 5.3	12.0	1.01	
			LE			12.0	3.72	
SSE	27.0	257	−iP	15 26 50.0	−0.7			
			PMZ			3.0	2.23	
			pP	15 26 59.0	3.0			
			sS	15 31 30.0	−5.6			
			LN		M_S = 5.1	12.0	1.73	
			LE			12.0	1.16	
			LZ		M_S = 5.1	16.0	4.43	
BJI	27.2	278	eP	15 26 52.0	−0.3			
			PMZ			3.0	1.29	
			eS	15 31 28.0	−1.5			
			LE		M_S = 5.1	14.0	2.38	
			LZ		M_S = 4.9	28.0	4.59	
TIA	27.7	270	P	15 26 56.0	−1.1			
			S	15 31 40.0	2.7			
			SMN		m_B = 5.6	9.0	1.26	
			LN		M_S = 5.1	13.0	0.83	
			LE			12.5	2.05	
			LZ		M_S = 4.8	12.5	1.68	
NJ2	28.2	261	+iP	15 27 02.0	0.1			
			PMZ		m_B = 6.2	3.5	1.68	
			S	15 31 52.0	6.3			
			LN		M_S = 5.2	12.0	1.26	
			LE			13.0	2.15	

		LZ	$M_S=4.8$		20.0	2.56
HHC	30.4	282	+P	15 27 21.5	0.5		
			S	15 32 20.0	0.5		
			SMN	$m_B=5.7$	7.0	0.81
			SME		7.0	0.91
			LN	$M_S=5.3$	13.0	2.72
			LE		10.0	0.89
TIY	30.7	276	+iP	15 27 24.5	0.8		
			PMZ	$m_B=6.2$	5.0	2.35
			S	15 32 31.0	6.5		
			SMN	$m_B=6.0$	8.0	1.41
			SME		7.0	2.11
			LN	$M_S=5.5$	12.0	2.25
			LE		12.0	3.59
			LZ	$M_S=4.9$	28.0	3.99
BTO	31.6	282	+iP	15 27 32.0	0.4		
			PMZ	$m_B=6.2$	4.0	1.70
			sP	15 27 43.0	3.4		
			PP	15 28 37.0	1.9		
			S	15 32 40.0	1.6		
			SMN	$m_B=5.7$	8.0	0.90
			SME		9.0	1.10
			LN	$M_S=5.3$	18.0	2.30
			LE		16.0	2.10
			LZ	$M_S=5.1$	18.0	3.90
WHN	32.3	262	+iP	15 27 38.0	−0.2		
			PMZ	$m_B=6.3$	4.0	2.20
			pP	15 27 48.0	4.5		
			S	15 32 48.0	−2.4		
			SME	$m_B=5.9$	6.0	1.40
			LE	$M_S=5.2$	14.0	2.27
			LZ	$M_S=5.1$	20.0	4.10
QZH	32.5	250	−iP	15 27 40.0	0.6		
			PMZ	$m_B=6.1$	4.0	1.30
			eS	15 32 50.0	−3.3		
			LN	$M_S=5.1$	9.0	1.16
XAN	34.7	272	+iP	15 27 59.0	−0.1		
			PMZ	$m_B=5.9$	4.0	0.70
			PP	15 29 15.9	0.4		
			S	15 33 25.5	−2.2		
			SMN	$m_B=5.7$	6.0	0.80
			LN	$M_S=5.0$	12.0	1.00
GZH	37.4	252	+iP	15 28 21.5	0.4		
			PMZ	$m_B=6.1$	5.0	1.87
			PP	15 29 45.0	−3.2		
			S	15 34 10.0	2.0		
			LN	$M_S=5.4$	15.0	2.30
			LE		15.0	2.10
LZH	37.7	278	+iP	15 28 25.0	1.0		
			PMZ	$m_B=6.3$	4.0	2.16
			PP	15 29 56.0	4.1		
			eS	15 34 11.0	−3.1		
			PcS	15 34 31.0	2.6		
			SMN	$m_B=5.9$	7.0	1.64
			LE	$M_S=5.1$	13.0	1.28
GTA	39.4	285	+iP	15 28 39.0	0.8		
			PMZ	$m_B=6.1$	5.0	1.80
			S	15 34 37.5	−1.0		
			SMN	$m_B=5.8$	7.0	1.20
			LE	$M_S=5.3$	12.0	1.80
			LZ	$M_S=5.2$	13.0	2.20
CD2	40.1	270	+iP	15 28 44.0	0.2		
			PP	15 30 14.0	−5.4		
			iS	15 34 52.0	2.1		
			LN	$M_S=5.4$	14.0	2.70
GYA	40.2	262	+P	15 28 45.0	−0.3		
			pP	15 28 54.2	3.7		
			PP	15 30 26.0	4.9		
			S	15 34 50.0	−1.4		
			SS	15 37 38.0	−5.1		
			LN	$M_S=5.3$	16.0	1.30
			LE		16.0	1.80
QZN	42.5	251	−P	15 29 04.8	1.3		
			PP	15 30 48.0	3.5		
			S	15 35 26.0	1.5		
			eSS	15 38 34.0	6.2		
			LE	$M_S=5.2$	17.0	1.80
KMI	43.9	264	+iP	15 29 15.5	0.1		
			PP	15 30 59.0	0.4		
			S	15 35 44.0	−1.4		
			LE	$M_S=5.7$	18.0	5.20
WMQ	46.3	295	+iP	15 29 35.2	0.6		
			PMZ	$m_B=6.2$	5.0	2.09
			PP	15 31 24.0	1.4		
			S	15 36 24.0	3.8		
			SS	15 39 32.4	−5.7		
			LE	$M_S=5.8$	11.0	4.21
LSA	50.1	277	+P	15 30 04.0	−0.3		
			PP	15 32 02.0	2.9		
			S	15 37 11.7	−1.4		
KSH	56.1	295	+iP	15 30 50.0	1.2		
			PcP	15 31 48.0	2.3		
			eS	15 38 36.0	−0.7		
			ScS	15 40 36.0	2.3		
			LE	$M_S=5.8$	12.0	3.30

MAR 7d 21h 13m 49.0 ± 0.10s, SD1.41 / 42
3.56 N ± 1.45km, 128.42 E ± 2.92km, h33 ± 0.34km
Talaud Islands (263)

WHN	29.9	335	eP	21 19 58.0	1.4	
			pP	21 20 11.0	5.2	
KMI	32.7	313	−P	21 20 22.0	0.8	
XAN	35.3	331	eP	21 20 42.8	−0.9	
TIY	37.0	339	eP	21 20 57.6	−0.2	
BJI	38.0	345	eP	21 21 05.5	−0.2	
SNY	38.3	354	eP	21 21 07.8	−1.1	
LZH	39.5	328	eP	21 21 19.0	0.1	
HHC	40.1	340	−P	21 21 24.4	0.7	
BTO	40.4	338	eP	21 21 29.4	3.0	
MDJ	40.9	1	eP	21 21 30.5	0.4	
LSA	43.8	310	eP	21 21 55.5	1.0	
GTA	44.1	328	eP	21 21 55.4	−1.2	
WMQ	53.8	324	eP	21 23 10.1	−1.4	

MAR 8d 09h 24m 24.5 ± 0.06s, SD1.08 / 77
45.66 N ± 2.23km, 151.47 E ± 1.51km, h30 ± 0.62km
Kurile Islands (221)
M_S4.7 / 13,

MDJ	15.5	274	eP	09 28 03.0	0.5	
			pP	09 28 06.0	−3.4	
			S	09 30 56.0	3.1	
			LE	$M_S=4.7$	16.0	2.60
CN2	18.6	274	+P	09 28 40.2	−1.1	
			epP	09 28 49.0	0.6	
			eS	09 32 00.0	−4.3	
			LE	$M_S=4.7$	15.0	1.70
			LZ	$M_S=4.5$	15.0	1.60
SNY	20.5	269	+P	09 29 02.1	−0.6	
DL2	23.0	264	eP	09 29 28.5	0.4	
BJI	26.3	270	eP	09 30 00.0	0.0	
			epP	09 30 10.0	1.6	
			(S)	09 34 30.0	0.8	
			LN	$M_S=4.7$	15.0	0.52
			LE		15.0	0.84
			LZ	$M_S=4.5$	16.0	0.94
TIA	27.4	262	P	09 30 09.6	−0.5	

International Seismological Centre

SSE	27.6	249	+P	09 30 12.0	0.0			
			pP	09 30 22.0	1.5			
			eS	09 34 52.0	1.6			
			sS	09 35 08.0	3.3			
			LE		M_S=4.3	14.0	0.39	
			LZ		M_S=4.5	16.0	0.89	
NJ2	28.6	253	eP	09 30 20.0	−0.5			
			LZ		M_S=4.0	18.0	0.36	
HHC	29.2	275	−P	09 30 26.8	0.3			
TIY	30.0	269	eP	09 30 33.5	0.5			
			eS	09 35 27.0	−1.0			
			sS	09 35 38.5	−3.6			
			LE		M_S=4.5	14.0	0.55	
			LZ		M_S=4.5	16.0	0.83	
BTO	30.4	275	eP	09 30 36.0	−1.0			
			sP	09 30 51.0	1.7			
			eS	09 35 33.0	−2.1			
			LN		M_S=4.8	13.0	0.40	
			LE			15.0	0.80	
			LZ		M_S=4.6	15.0	1.00	
WHN	32.6	255	−P	09 30 55.0	−0.6			
			ScS	09 41 21.2	1.5			
			LZ		M_S=4.3	20.0	0.67	
XAN	34.3	265	P	09 31 10.2	−0.5			
LZH	36.8	272	+iP	09 31 32.5	0.4			
GTA	38.0	279	+P	09 31 42.5	0.1			
			LE		M_S=4.8	13.0	0.67	
			LZ		M_S=4.6	16.0	0.83	
CD2	39.7	265	+iP	09 31 56.2	0.3			
GYA	40.4	257	P	09 32 01.6	−0.2			
KMI	43.9	259	−P	09 32 31.0	−0.1			
WMQ	44.3	291	eP	09 32 34.0	0.3			

MAR 8d 11h 02m 08.3 ± 0.06s, SD0.95 / 86
28.65 N ± 1.14km, 142.58 E ± 1.22km, h37 ± 0.34km
Bonin Islands region (212)
M_S4.6 / 22, m_B5.2 / 3, m_b5.0 / 1,

SSE	18.7	283	P	11 06 26.1	−0.1			
			sS	11 10 02.0	−1.2			
			LE		M_S=4.3	12.0	0.58	
			LZ		M_S=4.2	16.0	0.89	
MDJ	19.0	330	eP	11 06 28.5	−1.3			
			pP	11 06 36.0	−1.9			
			PP	11 06 47.0	1.0			
			S	11 10 00.0	4.0			
			LZ		M_S=4.2	20.0	0.94	
DL2	20.2	306	P	11 06 42.5	0.1			
			eS	11 10 22.0	0.1			
SNY	20.3	315	eP	11 06 43.1	−0.6			
			S	11 10 22.0	−1.8			
			LN		M_S=4.4	21.0	0.92	
			LE			22.0	0.62	
CN2	20.4	322	−P	11 06 44.4	−0.8			
			pP	11 06 50.4	−4.0			
			eS	11 10 26.0	−1.3			
			LN		M_S=4.7	13.0	1.50	
			LZ		M_S=4.4	18.0	1.40	
NJ2	20.7	285	+P	11 06 48.4	−0.1			
			LN		M_S=4.5	12.0	0.66	
			LE			14.0	0.57	
			LZ		M_S=4.0	18.0	0.48	
QZH	21.7	266	eP	11 07 01.5	3.2			
			eS	11 10 54.0	2.5			
			SME		m_B=5.1	8.0	0.50	
TIA	22.7	296	P	11 07 08.9	0.5			
BJI	24.5	305	eP	11 07 25.0	−0.6			
			eS	11 11 40.0	−0.8			
			LE		M_S=4.7	16.0	1.23	
			LZ		M_S=4.4	20.0	1.25	
WHN	24.6	281	eP	11 07 27.0	0.5			
			pP	11 07 35.0	−1.2			
			sS	11 11 57.0	−1.4			
			LE		M_S=4.6	12.0	0.73	
			LZ		M_S=4.5	16.0	1.20	
TIY	26.7	298	eP	11 07 46.0	−0.5			
			S	11 12 23.5	6.8			
			LE		M_S=4.7	14.0	0.92	
			LZ		M_S=4.5	20.0	1.24	
HHC	28.1	304	+P	11 07 58.8	−0.4			
XAN	29.2	289	P	11 08 08.7	0.1			
			S	11 12 57.4	1.3			
			LN		M_S=4.6	12.0	0.50	
BTO	29.2	303	eP	11 08 08.5	−0.2			
			epP	11 08 17.0	−1.4			
			eS	11 12 59.0	1.8			
			LN		M_S=4.7	14.0	0.60	
			LE			14.0	0.60	
			LZ		M_S=4.5	14.0	0.70	
GYA	31.8	275	−P	11 08 32.2	−0.3			
			pP	11 08 41.0	−1.1			
			S	11 13 39.4	1.0			
CD2	33.7	284	P	11 08 47.6	−0.6			
			S	11 14 05.0	−1.7			
			LN		M_S=5.1	13.0	1.45	
KMI	35.6	274	+P	11 09 05.0	0.1			
			pP	11 09 15.0	0.3			
			S	11 14 36.0	−0.6			
			LE		M_S=4.6	14.0	0.50	
			LZ		M_S=4.4	18.0	0.60	
GTA	36.7	298	+P	11 09 13.6	−0.8			
			eS	11 14 51.0	−4.3			
			LE		M_S=4.6	13.5	0.43	
			LZ		M_S=4.4	20.0	0.62	
WMQ	46.0	305	P	11 10 30.0	−0.2			
			pP	11 10 41.5	1.3			
			S	11 17 15.0	4.3			
			ScS	11 20 25.0	5.8			
			LZ		M_S=4.6	20.0	0.71	

MAR 8d 15h 38m 25.9 ± 0.08s, SD1.07 / 97
2.19 S ± 1.08km, 125.34 E ± 1.32km, h46 ± 0.20km
Ceram Sea (270)
M_S5.4 / 44, m_B5.8 / 17, m_b5.5 / 1,

QZN	26.0	325	+P	15 43 57.6	0.8			
			PP	15 44 34.0	−4.0			
			S	15 48 21.0	−0.2			
			SS	15 49 26.0	−3.5			
			LN		M_S=5.4	14.0	2.00	
			LE			15.0	5.20	
GZH	27.7	336	+iP	15 44 15.0	2.7			
			S	15 48 48.0	−0.7			
			LN		M_S=5.6	30.0	6.20	
			LE			24.0	11.2	
QZH	27.8	347	eP	15 44 15.0	2.3			
			S	15 48 53.5	4.1			
			SME		m_B=5.6	9.0	1.38	
			sS	15 49 03.0	−6.7			
			LN		M_S=5.0	10.0	1.20	
SSE	33.3	354	P	15 45 02.0	0.0			
			pP	15 45 12.0	−1.5			
			SME		m_B=5.6	12.0	1.45	
			SS	15 52 24.0	2.3			
			LN		M_S=5.1	14.0	1.15	
			LE			14.0	1.16	
			LZ		M_S=5.1	20.0	3.75	
GYA	33.7	329	P	15 45 04.4	−1.0			

			sP	15 45 17.6	−4.2			
			S	15 50 22.0	−1.3			
			SS	15 52 30.0	−0.4			
			LN	M_S=5.8		16.0	6.40	
			LE			16.0	6.00	
WHN	34.2	343	eP	15 45 10.0	0.6			
			sP	15 45 24.0	−2.0			
			S	15 50 32.0	1.2			
			LZ	M_S=5.1		30.0	5.81	
NJ2	34.6	350	+P	15 45 13.8	0.9			
			S	15 50 34.0	−3.1			
			LN	M_S=5.3		13.0	1.44	
			LE			9.0	1.20	
			LZ	M_S=4.8		23.0	1.86	
KMI	34.9	322	+P	15 45 15.5	−0.2			
			ePP	15 46 33.0	−0.2			
			S	15 50 41.0	−0.5			
			sS	15 51 06.0	3.9			
			SS	15 52 53.0	−4.4			
			LN	M_S=5.2		14.0	2.00	
			LZ	M_S=5.2		24.0	5.40	
CD2	38.8	330	eP	15 45 47.8	−0.6			
			S	15 51 37.0	−4.5			
			SS	15 54 28.0	2.3			
			LN	M_S=5.6		16.0	4.82	
TIA	39.0	349	P	15 45 48.7	−1.0			
			S	15 51 43.8	0.0			
			SME	m_B=5.8		11.0	1.92	
			LE	M_S=5.3		16.0	2.53	
XAN	39.2	338	−P	15 45 52.0	0.2			
			S	15 51 49.0	1.4			
			LN	M_S=5.2		14.0	1.70	
DL2	41.0	356	eP	15 46 07.9	1.1			
			S	15 52 16.0	1.2			
			LE	M_S=5.7		18.0	5.39	
TIY	41.5	344	+P	15 46 10.4	−0.1			
			S	15 52 27.0	5.9			
			LN	M_S=5.4		16.0	2.49	
			LZ	M_S=5.2		22.0	3.63	
BJI	42.9	350	eP	15 46 21.0	−0.8			
			eS	15 52 38.0	−4.5			
			eSS	15 55 44.0	−4.6			
			LN	M_S=5.2		19.0	1.81	
			LZ	M_S=5.2		28.0	4.52	
LZH	43.0	334	eP	15 46 23.5	0.0			
			PMZ	m_b=5.5		2.0	0.15	
			eS	15 52 46.0	0.4			
			sS	15 53 06.0	0.8			
			LN	M_S=5.6		18.0	0.57	
			LE			18.0	4.30	
SNY	43.8	358	−P	15 46 29.8	0.1			
			lS	15 52 57.0	0.1			
			SMN	m_B=5.9		11.0	0.68	
			SME			8.0	1.76	
			sS	15 53 17.0	0.2			
			LN	M_S=5.6		38.0	6.41	
			LE			28.0	3.46	
			LZ	M_S=5.1		38.0	4.60	
HHC	44.6	345	eP	15 46 36.3	0.0			
			S	15 53 14.0	6.5			
			SMN	m_B=5.8		6.0	0.51	
			SME			8.0	1.09	
			LN	M_S=5.4		30.0	3.31	
			LE			30.0	2.69	
BTO	44.8	343	eP	15 46 41.0	3.2			
			esP	15 46 54.5	0.1			
			ePP	15 48 26.5	3.3			
			S	15 53 17.0	6.9			
			eSS	15 56 26.0	1.5			
			LN	M_S=5.5		15.0	2.30	
			LE			15.0	1.00	
			LZ	M_S=5.1		15.0	1.90	
LSA	45.5	317	+P	15 46 43.0	−0.8			
			pP	15 46 52.0	−3.1			
			LE	M_S=5.1		13.0	1.00	
CN2	45.8	0	+P	15 46 44.0	−1.3			
MDJ	46.7	4	−P	15 46 53.0	0.0			
			sP	15 47 08.0	−1.6			
			PP	15 48 43.0	0.8			
			SME	m_B=5.8		8.0	1.10	
			LN	M_S=5.2		12.0	1.00	
GTA	47.6	333	+P	15 46 58.9	−0.7			
			sP	15 47 19.0	2.8			
			eS	15 53 49.0	−1.7			
			eSS	15 57 17.0	5.0			
			LE	M_S=5.5		16.0	2.72	
			LZ	M_S=5.1		21.0	2.16	
WMQ	56.9	328	eP	15 48 09.3	0.3			
			sP	15 48 27.5	1.7			
			S	15 55 59.0	2.9			
			SME	m_B=6.0		6.0	1.28	
			LN	M_S=6.0		28.0	8.67	
			LE			24.0	3.59	
KSH	61.4	318	+iP	15 48 42.0	1.6			
			sP	15 48 55.0	−2.2			
			SME	m_B=6.1		8.0	2.10	
			LN	M_S=5.8		18.0	3.80	

MAR 8d 16h 27m 17.5 ± 0.07s, SD0.94 / 92
51.50 N ± 2.14km, 176.75 E ± 0.97km, h32 ± 0.13km
Rat Islands **(6)**
M_S5.8 / 40, m_B5.9 / 27,

MDJ	31.8	276	+P	16 33 41.0	−0.8			
			pP	16 33 50.0	−0.6			
			PP	16 34 50.0	3.0			
			S	16 38 52.0	3.9			
			LZ	M_S=5.6		20.0	13.7	
CN2	34.8	278	+iP	16 34 07.8	0.2			
			PMZ	m_B=5.9		5.0	0.90	
			pP	16 34 17.0	0.4			
			PP	16 35 26.0	1.1			
			S	16 39 34.0	−0.5			
			SMN	m_B=5.8		12.0	2.20	
			LN	M_S=5.7		15.0	6.40	
			LZ	M_S=5.5		19.0	7.90	
SNY	37.0	276	+iP	16 34 27.0	0.6			
			PMZ	m_B=5.9		10.0	2.18	
			pP	16 34 38.0	2.6			
			PP	16 35 55.0	2.3			
			PPMZ			10.0	3.84	
			PcP	16 36 44.0	−2.8			
			S	16 40 11.0	2.3			
			LN	M_S=5.8		18.0	4.69	
			LE			15.0	5.87	
			LZ	M_S=5.5		16.0	6.77	
DL2	39.9	274	P	16 34 52.0	1.4			
			S	16 40 55.0	2.3			
			LN	M_S=5.9		15.0	7.56	
			LE			15.0	2.70	
BJI	42.6	279	+P	16 35 14.0	1.1			
			eS	16 41 36.0	2.2			
			LN	M_S=5.7		17.0	5.10	
			LZ	M_S=5.5		20.0	5.94	
TIA	44.4	274	P	16 35 27.2	−0.1			
			S	16 42 03.2	4.7			
			SMN	m_B=6.0		12.0	1.82	

International Seismological Centre

			SME				12.0	1.82
			LN		$M_S=5.9$		17.0	2.30
			LE				17.0	7.10
			LZ		$M_S=5.2$		17.0	2.70
HHC	45.0	283	P	16 35 34.4		2.3		
			pP	16 35 43.0		1.9		
			PMZ		$m_B=5.9$		4.0	0.71
			S	16 42 12.0		5.1		
			PP	16 37 20.0		2.1		
			ScS	16 45 28.0		4.5		
			SMN		$m_B=6.2$		8.0	2.80
			LN		$M_S=5.9$		15.0	6.08
			LE				15.0	4.06
SSE	45.2	265	−P	16 35 35.0		1.0		
			PMZ		$m_B=6.0$		4.0	0.87
			S	16 42 14.0		3.4		
			SMN				14.0	2.30
			SME				12.0	1.45
			SS	16 45 32.0		6.5		
			LN		$M_S=5.8$		16.0	5.37
			LE				16.0	2.70
			LZ		$M_S=5.4$		20.0	4.21
NJ2	46.0	268	+P	16 35 41.0		0.6		
			S	16 42 23.0		0.9		
			LN		$M_S=5.7$		15.0	2.23
			LE				15.0	3.77
			LZ		$M_S=5.2$		16.0	2.30
BTO	46.1	284	+iP	16 35 42.0		1.2		
			PMZ		$m_B=6.0$		7.0	1.60
			pP	16 35 51.0		1.2		
			PP	16 37 30.5		2.1		
			S	16 42 24.0		1.5		
			SMN				13.0	2.40
			SME				11.0	1.50
			eSS	16 45 40.0		−0.2		
			LN		$M_S=6.0$		15.0	6.50
			LE				15.0	4.50
			LZ		$M_S=5.6$		15.0	4.80
TIY	46.3	279	+iP	16 35 44.5		1.5		
			PMZ		$m_B=5.9$		10.0	1.67
			PP	16 37 34.0		2.7		
			SMN				13.0	2.08
			SME				11.0	1.37
			LN		$M_S=5.8$		14.0	4.95
			LZ		$M_S=5.7$		17.0	8.13
WHN	49.9	270	eP	16 36 10.2		−0.1		
			S	16 43 20.0		3.8		
			ScS	16 45 56.0		0.5		
			SME				16.0	2.70
			LZ		$M_S=5.5$		16.0	3.59
XAN	50.9	278	+P	16 36 18.6		0.4		
			PP	16 38 16.0		1.4		
			S	16 43 35.5		5.2		
			SMN		$m_B=5.6$		10.0	0.85
			LN		$M_S=5.8$		14.0	2.05
			LE				14.0	3.06
QZH	51.2	262	+iP	16 36 21.0		0.6		
			PMZ		$m_B=6.1$		4.0	0.95
			pP	16 36 31.5		1.9		
			iS	16 43 40.5		5.0		
			SMN		$m_B=5.9$		7.0	1.01
LZH	52.7	283	P	16 36 33.0		1.4		
			PMZ		$m_B=6.0$		5.0	0.98
			sP	16 36 46.0		1.5		
			eS	16 44 00.0		3.9		
			SME				13.0	1.26
			LN		$M_S=6.3$		15.0	10.7
			LE				17.0	6.68
GTA	52.9	289	+P	16 36 32.8		−0.7		
			PP	16 38 35.5		1.8		
			PMZ		$m_B=6.1$		5.0	1.18
			S	16 44 03.5		5.5		
			sS	16 44 11.5		−3.0		
			ScS	16 46 19.1		2.7		
			SME		$m_B=5.7$		12.0	1.17
			LN		$M_S=6.0$		15.0	5.83
			LZ		$M_S=5.8$		15.0	6.20
CD2	56.2	279	−iP	16 36 57.9		0.4		
			S	16 44 44.0		1.6		
			LE		$M_S=5.8$		15.0	3.96
WMQ	56.9	300	P	16 37 02.1		−0.4		
			PMZ		$m_B=6.2$		5.0	1.48
			pP	16 37 14.5		2.8		
			PP	16 39 10.5		0.7		
			PcS	16 42 00.0		3.9		
			S	16 44 56.5		4.9		
			LN		$M_S=6.3$		20.0	16.9
GYA	57.5	273	−P	16 37 07.2		0.2		
			pP	16 37 18.0		1.8		
			PP	16 39 20.0		4.5		
			S	16 45 03.0		3.2		
			ScS	16 46 53.0		3.6		
			LN		$M_S=5.8$		20.0	3.40
			LE				20.0	3.90
KMI	60.9	275	−P	16 37 30.5		−0.2		
			sP	16 37 44.0		0.4		
			PP	16 39 51.0		4.9		
			S	16 45 48.0		4.0		
			LZ		$M_S=5.4$		16.0	2.50
QZN	61.0	264	eP	16 37 31.0		0.2		
			S	16 45 51.0		6.4		
			SMN				13.0	1.50
			SME				12.0	1.10
			LN		$M_S=5.7$		15.0	1.80
			LE				15.0	1.70
LSA	64.8	286	eP	16 37 55.6		−0.6		
			pP	16 38 04.0		−1.1		
			sP	16 38 09.0		0.0		
			S	16 46 32.0		0.3		
			LE		$M_S=5.9$		15.0	4.00
KSH	66.2	304	+iP	16 38 06.0		1.0		
			sP	16 38 19.0		0.9		
			eS	16 46 56.0		5.3		
			sS	16 47 12.0		6.1		

MAR 8d 17h 36m 16.7±0.08s, SD1.75/44
35.93 N±2.21km, 141.40 E±1.89km, h42±1.61km
Near east coast of Honshu (228)
M_S4.2/1,

SNY	15.1	298	eP	17 39 49.8	1.2
BJI	20.3	289	eP	17 40 50.0	−1.7
WHN	23.2	264	eP	17 41 21.0	−0.2
TIY	23.2	283	eP	17 41 22.5	1.2
BTO	25.0	290	eP	17 41 39.0	0.4
XAN	26.6	275	eP	17 41 53.2	−0.4
GTA	32.9	289	+P	17 42 49.8	0.2
WMQ	41.3	298	P	17 44 02.9	2.3

MAR 8d 20h 08m 54.4±0.15s, SD1.50/20
15.28 N±1.26km, 144.92 E±2.87km, h33±0.20km
Marianas (216)
m_b5.1/1,

BJI	35.2	320	eP	20 15 47.0	−0.5
XAN	37.4	307	eP	20 16 08.0	1.5
BTO	39.4	317	eP	20 16 24.4	1.0
LZH	42.0	307	eP	20 16 45.5	0.6

International Seismological Centre

			PMZ		$m_b = 5.1$		2.5	0.070
GTA	46.1	310	eP	20 17 18.6		0.7		
WMQ	56.0	313	eP	20 18 33.2		0.5		

MAR 9d 04h 42m 51.8 ± 0.13s, SD1.43 / 78
4.69 S ± 1.59km, 131.16 E ± 2.05km, h32 ± 0.23km
Banda Sea (280)
M_S4.8 / 14, m_B5.4 / 2, m_b5.5 / 1,

QZN	31.6	319	eP	04 49 17.0		3.1		
			S	04 54 19.0		0.4		
			SS	04 56 04.0		−4.5		
SSE	36.8	346	P	04 50 03.6		4.4		
			LE		$M_S = 4.7$		18.0	0.75
			LZ		$M_S = 4.6$		20.0	0.94
NJ2	38.4	343	+P	04 50 12.5		0.4		
			S	04 56 03.0		−0.7		
			LZ		$M_S = 4.2$		22.0	0.44
WHN	38.5	336	eP	04 50 13.5		−0.1		
			sP	04 50 28.0		1.3		
			eS	04 56 07.0		−0.4		
			SMN		$m_B = 5.5$		6.0	0.54
			LN		$M_S = 4.9$		26.0	1.48
GYA	39.0	324	P	04 50 18.0		0.5		
			PcP	04 52 28.8		1.5		
			S	04 56 11.0		−2.4		
			sS	04 56 24.0		−5.4		
			LE		$M_S = 4.7$		16.0	0.60
KMI	40.5	318	−P	04 50 32.0		1.9		
			sP	04 50 45.0		2.1		
			S	04 56 35.0		−0.9		
			LZ		$M_S = 4.4$		20.0	0.60
TIA	42.8	343	eP	04 50 47.5		−0.9		
			eS	04 57 04.5		−5.6		
			LN		$M_S = 4.8$		16.0	0.39
			LE				16.0	0.42
XAN	43.9	333	−P	04 50 56.8		−0.7		
			pP	04 51 12.0		5.3		
			sS	04 57 45.0		3.5		
CD2	44.0	325	eP	04 51 03.5		4.8		
			S	04 57 23.0		−4.6		
TTY	45.6	339	−P	04 51 11.6		−0.1		
			sP	04 51 26.0		1.3		
			PP	04 53 02.5		3.9		
			PPMZ				5.0	0.43
			S	04 57 48.5		−2.3		
			SME		$m_B = 5.2$		6.0	0.22
			sS	04 58 08.0		1.0		
			LE		$M_S = 4.9$		11.0	0.50
			LZ		$M_S = 4.6$		25.0	0.97
BJI	46.6	344	−P	04 51 18.5		−0.6		
			S	04 58 07.0		2.6		
SNY	46.8	352	+iP	04 51 20.8		0.0		
			eS	04 58 06.0		−2.4		
			LN		$M_S = 5.1$		20.0	1.33
			LZ		$M_S = 4.9$		20.0	1.34
LZH	48.0	330	eP	04 51 30.0		0.0		
			PMZ		$m_b = 5.5$		2.0	0.15
			sP	04 51 44.0		1.1		
			eS	04 58 20.0		−5.1		
CN2	48.5	354	eP	04 51 34.5		0.1		
			epP	04 51 44.0		0.5		
			eS	04 58 32.0		−1.0		
			LE		$M_S = 4.8$		13.0	0.40
			LZ		$M_S = 4.9$		22.0	1.40
HHC	48.7	340	eP	04 51 36.0		−0.1		
BTO	49.1	339	eP	04 51 37.5		−1.0		
			esP	04 51 52.0		0.6		
			eS	04 58 36.0		−4.5		

MDJ	49.1	359	eP	04 51 38.5		−0.2		
			pP	04 51 43.0		−4.9		
			S	04 58 34.0		−5.7		
			LZ		$M_S = 4.8$		28.0	1.58
LSA	51.4	314	+P	04 51 55.6		−0.9		
			sP	04 52 12.0		2.9		
			S	04 59 09.0		−2.2		
			LE		$M_S = 4.6$		8.0	0.16
GTA	52.5	329	eP	04 52 04.8		−0.2		
WMQ	62.1	326	P	04 53 13.0		0.4		
			S	05 01 33.0		0.0		
			LZ		$M_S = 4.6$		24.0	0.51
KSH	67.2	316	eP	04 53 47.0		1.6		
			PcP	04 54 14.0		1.6		
			S	05 02 38.0		2.8		
			sS	05 02 55.0		3.0		

MAR 9d 05h 00m 34.4 ± 0.10s, SD1.02 / 42
31.15 S ± 1.27km, 68.68 W ± 0.52km, h105 ± 0.88km
San Juan Province, Argentina (137)

KSH	150.1	64	ePKP	05 20 10.0	1.2	
WMQ	157.5	49	ePKP	05 20 19.0	0.0	
GTA	167.5	46	PKP	05 20 29.4	0.4	
			PKP2	05 21 36.2	0.5	
TIA	173.0	318	ePKP	05 20 32.1	0.1	
GYA	173.8	138	PKP	05 20 32.2	−2.1	
XAN	176.5	34	+PKP	05 20 33.6	0.5	
WHN	177.3	258	ePKP	05 20 33.9	0.7	

MAR 9d 17h 08m 46.4 ± 0.12s, SD1.19 / 72
52.06 N ± 2.61km, 175.30 E ± 1.19km, h34 ± 0.20km
Near Islands (5)
M_S4.9 / 9,

MDJ	30.9	274	eP	17 15 01.5		−0.6		
			PP	17 16 06.0		2.6		
			S	17 20 08.0		6.3		
			LZ		$M_S = 4.7$		32.0	2.80
CN2	33.8	276	−P	17 15 27.6		−0.4		
SNY	36.1	274	eP	17 15 46.2		−0.9		
			LN		$M_S = 4.8$		24.0	1.30
			LZ		$M_S = 4.5$		28.0	1.27
BJI	41.6	277	eP	17 16 34.0		0.4		
			pP	17 16 45.0		2.0		
			S	17 22 52.0		5.0		
			LZ		$M_S = 4.5$		20.0	0.61
TIA	43.5	272	−P	17 16 49.3		0.8		
HHC	44.0	281	P	17 16 54.1		1.4		
SSE	44.4	264	+P	17 16 57.5		1.6		
			eS	17 23 28.0		0.1		
			LZ		$M_S = 4.7$		24.0	1.00
BTO	45.1	282	P	17 17 03.0		1.6		
			pP	17 17 12.0		1.2		
			ePP	17 18 50.0		2.8		
			eS	17 23 41.0		3.1		
			LN		$M_S = 4.9$		14.0	0.50
			LE				14.0	0.40
NJ2	45.2	267	eP	17 17 03.0		0.9		
			LZ		$M_S = 4.3$		30.0	0.60
TIY	45.4	277	P	17 17 05.4		1.4		
			pP	17 17 13.5		0.1		
			PP	17 18 45.5		−4.9		
			PPMZ				5.0	0.42
			LE		$M_S = 4.8$		14.0	0.55
			LZ		$M_S = 4.8$		22.0	1.17
WHN	49.0	269	eP	17 17 32.0		−0.1		
			LZ		$M_S = 4.7$		20.0	0.76
XAN	49.9	276	eP	17 17 39.7		0.1		
LZH	51.7	282	eP	17 17 54.0		1.2		

International Seismological Centre

GTA	51.9	288	+P	17 17 54.7	0.3			
			eS	17 25 14.5	0.6			
			LE	M_S=5.0		16.0	0.76	
			LZ	M_S=4.7		20.0	0.75	
WMQ	55.8	299	P	17 18 23.5	−0.1			
			eS	17 26 10.0	2.6			
			LZ	M_S=4.9		24.0	1.28	
GYA	56.6	271	P	17 18 29.0	−0.2			
LSA	63.7	285	eP	17 19 18.2	0.0			

MAR 9d 21h 33m 53.8±0.11s, SD1.33/99
17.18 S±2.53km, 74.01 W±2.23km, h26±0.70km
Off coast of Peru (114)
M_S6.0/29, m_B6.2/18,

KSH	145.7	43	iPKP	21 53 33.0	1.9			
			sPKP	21 53 47.0	5.5			
			PP	21 56 55.0	0.2			
			PPMZ	m_B=6.6		6.0	2.40	
			SKS	22 00 36.0	2.0			
			LN	M_S=6.1		14.0	1.50	
MDJ	146.2	329	PKP	21 53 32.0	0.1			
			PKP2	21 53 40.8	6.4			
			SKKS	22 03 45.0	1.5			
			LZ	M_S=6.0		28.0	3.49	
CN2	148.8	332	PKP	21 53 35.4	−0.6			
			sPKP	21 53 50.0	3.4			
			ePP	21 57 07.0	−5.4			
			PPMZ	m_B=6.3		5.5	1.00	
			SKS	22 00 37.0	−1.4			
			LN	M_S=5.9		22.0	1.50	
			LZ	M_S=5.9		21.0	1.70	
WMQ	149.3	26	PKP	21 53 37.5	0.6			
			LZ	M_S=5.8		28.0	2.16	
SNY	151.2	332	PKP	21 53 39.0	−0.7			
			LN	M_S=6.0		30.0	1.78	
			LE			24.0	1.28	
DL2	154.4	331	PKP	21 53 44.0	−0.3			
			PP	21 57 41.0	−3.8			
BJI	155.6	341	PKP	21 53 46.0	0.2			
			PKP2	21 54 09.0	−4.0			
			pPKP2	21 54 18.0				
			PP	21 57 46.0	−5.2			
			LN	M_S=5.8		18.0	1.03	
			LZ	M_S=6.0		23.0	2.54	
HHC	155.9	350	PKP	21 53 48.0	1.5			
			PP	21 57 48.0	−5.3			
			PPMZ	m_B=6.1		4.0	0.69	
			SKKS	22 04 30.0	−6.9			
			SS	22 17 35.0	−1.6			
			LN	M_S=5.9		34.0	1.95	
			LE			24.0	1.12	
			LZ	M_S=6.0		26.0	2.80	
BTO	156.4	352	iPKP	21 53 48.0	0.9			
			pPKP	21 53 59.0	4.5			
			PP	21 57 54.0	−1.8			
			eSKKS	22 04 46.0	6.4			
			LN	M_S=6.0		19.0	1.10	
			LE			19.0	1.50	
			LZ	M_S=6.1		19.0	2.40	
GTA	157.2	12	iPKP	21 53 48.6	0.3			
			PKP2	21 54 16.5	−3.6			
			PP	21 57 58.0	−1.8			
			SKKS	22 04 44.0	−0.4			
			LN	M_S=6.1		23.0	2.37	
			LZ	M_S=6.1		26.0	3.11	
TIA	158.6	335	PKP	21 53 50.1	0.2			
			ePP	21 58 02.4	−5.4			
			PPMZ	m_B=5.8		9.0	0.76	
			LE	M_S=6.0		20.0	2.00	
TIY	158.8	346	ePKP	21 53 50.8	0.6			
			pPKP	21 54 03.5	5.9			
			PP	21 58 04 5	−4.0			
			PPMZ	m_B=6.3		4.0	1.09	
			LN	M_S=6.3		20.0	3.25	
			LZ	M_S=6.2		23.0	3.70	
SSE	160.4	318	PKP	21 53 52.0	0.1			
			pPKP	21 54 02.0	2.6			
			SS	22 18 20.0	−3.7			
			LN	M_S=5.6		16.0	0.64	
			LZ	M_S=6.0		20.0	1.87	
LZH	161.1	5	−iPKP	21 53 54.5	1.8			
			PP	21 58 17.0	−4.0			
NJ2	161.2	324	−PKP	21 53 53.5	0.9			
			PP	21 58 19.0	−2.5			
			LN	M_S=6.1		20.0	2.00	
			LE			18.0	1.20	
			LZ	M_S=5.7		20.0	0.98	
LSA	161.6	45	PKP	21 53 54.4	0.9			
			PP	21 58 25.0	1.5			
			PPMZ	m_B=6.5		5.0	2.00	
XAN	163.0	352	PKP	21 53 55.2	0.7			
			PP	21 58 27.0	−3.7			
			PPMZ	m_B=6.1		8.0	1.33	
			LE	M_S=5.9		20.0	1.46	
WHN	164.7	332	−iPKP	21 53 57.0	0.9			
			PKP2	21 54 50.0	−2.3			
			PP	21 58 38.0	−2.0			
			PPMZ	m_B=6.4		5.0	1.67	
			LN	M_S=5.9		20.0	1.72	
			LZ	M_S=6.0		32.0	3.53	
QZH	165.9	305	PKP	21 53 58.0	0.7			
			PP	21 58 43.0	−3.3			
			LE	M_S=6.0		24.0	2.02	
CD2	166.2	8	PKP	21 53 58.4	0.8			
			PP	21 58 45.0	−2.6			
			LN	M_S=6.4		20.0	4.42	
GYA	170.7	356	PKP	21 54 01.0	0.5			
			pPKP	21 54 10.2	2.4			
			PKP2	21 55 16.2	−2.8			
			PP	21 59 07.0	−3.4			
			SS	22 20 12.0	4.1			
			LE	M_S=5.8		20.0	1.40	
GZH	170.9	312	PKP	21 54 02.0	1.6			
			iPKP2	21 55 20.5	0.6			
			PP	21 59 10.0	−1.3			
			PPMZ	m_B=6.1		6.0	1.20	
KMI	171.5	20	PKP	21 54 01.5	0.5			
			pPKP	21 54 11.0	2.7			
			sPKP	21 54 17.0	5.7			
			PP	21 59 11.0	−3.3			
			iSKKS	22 06 01.5	4.6			
			LE	M_S=5.9		20.0	2.00	
			LZ	M_S=5.8		20.0	1.50	
QZN	175.9	297	PKP	21 54 03.0	0.5			
			PP	21 59 34.0	−2.2			
			SKS	22 01 00.0	0.5			
			SKKS	22 06 16.0	−1.8			
			SS	22 20 59.0	1.5			
			LE	M_S=5.7		20.0	2.00	

MAR 10d 03h 37m 37.8±0.09s, SD0.95/47
10.12 S±0.98km, 161.07 E±0.33km, h104±0.98km
Solomon Islands (193)

SSE	56.1	318	P	03 47 07.5	−1.2			
			pP	03 47 33.0	−0.5			
MDJ	61.5	335	−P	03 47 46.5	0.2			

International Seismological Centre

SNY	62.1	329	eP	03 47 48.8	−1.7			
CN2	62.7	332	−iP	03 47 54.3	0.0			
GYA	64.1	306	P	03 48 05.6	1.6			
BJI	64.9	323	eP	03 48 08.0	−1.1			
XAN	66.1	314	+P	03 48 16.8	−0.1			
HHC	68.2	322	eP	03 48 30.7	0.8			
BTO	69.0	321	eP	03 48 35.0	0.1			
LZH	70.8	314	eP	03 48 42.0	−3.6			
GTA	75.1	315	eP	03 49 12.2	1.0			
	MAR 10d 04h 16m 30.6 ± 0.11s, SD0.98 / 70							
	59.37 N ± 2.30km, 144.65 W ± 1.16km, h14 ± 0.28km							
	Gulf of Alaska						(15)	
	M_S5.8 / 25, m_B5.7 / 12,							
MDJ	51.1	294	eP	04 25 37.0	1.7			
			PP	04 27 36.0	4.1			
			S	04 32 50.0	−0.3			
			LZ		M_S = 5.6		16.0	5.20
CN2	53.6	296	+P	04 25 54.5	0.1			
			sP	04 26 05.0	1.6			
			eS	04 33 28.0	1.7			
			LE		M_S = 5.6		13.0	2.40
			LZ		M_S = 5.3		13.0	1.80
SNY	56.0	296	+P	04 26 12.0	0.1			
			S	04 34 00.0	2.6			
			LE		M_S = 5.8		15.0	3.42
			LZ		M_S = 5.7		17.0	5.31
BJI	60.8	300	eP	04 26 46.0	0.7			
			eS	04 35 03.0	2.0			
			LN		M_S = 5.7		11.0	1.24
			LE				12.0	1.80
HHC	62.2	304	eP	04 26 53.6	−1.0			
			S	04 35 23.5	6.6			
			SMN		m_B = 5.7		8.0	0.67
			SME				7.0	0.17
			LN		M_S = 6.0		15.0	3.04
			LE				14.0	4.01
BTO	63.0	305	eP	04 26 59.0	−1.3			
			epP	04 27 04.5	−1.8			
			ePP	04 29 20.0	0.5			
			S	04 35 28.0	0.3			
			LN		M_S = 6.0		15.0	4.40
			LE				15.0	3.20
			LZ		M_S = 5.7		13.0	3.50
TIA	63.5	297	eP	04 27 02.8	−0.7			
			SMN		m_B = 5.6		10.0	0.44
			SME				10.0	0.52
			LN		M_S = 5.9		16.0	2.50
			LE				16.0	3.20
TIY	64.4	301	eP	04 27 10.8	1.6			
			sS	04 35 53.0	−3.2			
			LN		M_S = 6.0		12.0	3.54
			LE				13.0	2.07
SSE	65.8	290	eP	04 27 18.0	−0.4			
			pP	04 27 24.0	−0.6			
			LN		M_S = 5.5		14.0	1.38
			LZ		M_S = 5.4		15.0	1.94
NJ2	66.1	293	+P	04 27 21.0	0.5			
			LN		M_S = 5.8		15.0	1.04
			LE				15.0	2.34
GTA	68.2	311	P	04 27 32.6	−0.8			
			S	04 36 36.0	5.6			
			SMN		m_B = 5.7		9.0	0.58
			LN		M_S = 5.7		14.0	2.18
			LZ		M_S = 5.7		16.0	3.57
WMQ	68.5	322	eP	04 27 36.5	0.9			
			S	04 36 37.0	2.2			
			LZ		M_S = 5.4		16.0	1.88
XAN	69.0	301	P	04 27 37.8	−0.8			
			S	04 36 46.0	5.4			
			LN		M_S = 6.2		13.0	2.63
			LE				13.0	5.23
LZH	69.4	306	P	04 27 41.0	−0.2			
			pP	04 27 48.0	0.9			
			eS	04 36 48.0	0.9			
			LN		M_S = 6.0		13.0	2.71
			LE				14.0	2.20
WHN	69.5	295	eP	04 27 42.5	0.9			
			S	04 36 48.0	1.4			
			SMN		m_B = 5.9		8.0	0.80
			sS	04 36 54.0	−4.2			
			LE		M_S = 5.6		14.0	1.62
			LZ		M_S = 5.3		18.0	1.47
CD2	73.9	304	eP	04 28 08.2	0.2			
			eS	04 37 39.0	0.2			
			LE		M_S = 6.1		14.0	4.90
GYA	76.5	299	P	04 28 23.8	0.9			
			sP	04 28 33.0	1.4			
			S	04 38 09.0	3.3			
			ScS	04 38 35.0	1.4			
			LN		M_S = 5.7		18.0	2.10
LSA	80.0	313	eP	04 28 42.5	−0.3			
	MAR 10d 04h 52m 29.2 ± 0.47s, SD1.97 / 15							
	23.79 N ± 3.36km, 122.45 E ± 3.84km, h24 ± 0.85km							
	Taiwan						(244)	
	M_L3.7 / 11,							
QZH	3.7	289	ePn	04 53 27.0	1.7			
SSE	7.4	352	P	04 54 18.0	−0.1			
			SMN		M_L = 3.5		1.0	0.018
			SME				1.0	0.019
GYA	14.5	284	P	04 55 58.2	2.4			
	MAR 10d 06h 17m 22.1 ± 0.25s, SD2.40 / 98							
	10.37 N ± 5.19km, 60.73 W ± 3.15km, h48 ± 1.58km							
	Near coast of Venezuela						(97)	
	M_S6.8 / 45, m_B6.4 / 17,							
KSH	116.1	36	ePKP	06 36 05.0	4.0			
			LN		M_S = 6.7		18.0	11.5
WMQ	118.9	26	ePKP	06 36 07.5	1.1			
			PP	06 37 30.0	0.4			
			PPMZ		m_B = 6.4		7.0	1.44
			LZ		M_S = 6.8		24.0	26.5
MDJ	124.5	351	PKP	06 36 18.5	1.4			
			PP	06 38 07.0	−0.1			
			SKS	06 43 20.0	−1.1			
			SKKS	06 44 50.0	−3.4			
			LN		M_S = 7.0		26.0	27.3
CN2	125.8	354	PKP	06 36 20.0	0.4			
			iPP	06 38 16.0	0.2			
			PPMZ		m_B = 6.5		6.0	1.90
			SKS	06 43 25.0	1.5			
			SKKS	06 45 06.0	4.0			
			SS	06 55 05.0	−4.3			
			LN		M_S = 6.9		22.0	18.9
			LZ		M_S = 6.7		22.0	19.8
GTA	127.3	19	iPKP	06 36 23.7	1.0			
			PP	06 38 23.0	−1.9			
			PPMZ		m_B = 6.3		6.5	1.32
			SKKS	06 45 13.0	1.8			
			LN		M_S = 6.9		22.0	18.6
			LZ		M_S = 6.7		24.0	20.5
SNY	127.9	356	PKP	06 36 24.0	0.3			
			sPKP	06 36 40.0	−3.0			
			PP	06 38 32.0	2.5			
			PKS	06 40 01.0	3.4			

International Seismological Centre

			SKS	06 43 34.0	6.6			
			SKKS	06 45 19.0	3.2			
			SS	06 55 36.0	0.3			
			LN	M_S=6.9		22.5	15.9	
			LE			20.5	6.75	
			LZ	M_S=6.6		24.0	15.3	
HHC	128.5	7	PKP	06 36 27.3	2.3			
			PP	06 38 34.0	−0.1			
			PPMZ	m_B=6.2		8.0	1.21	
			SS	06 55 48.0	4.0			
			LN	M_S=7.0		20.0	12.7	
			LE			22.0	14.0	
BTO	128.6	9	PKP	06 36 27.0	1.9			
			sPKP	06 36 45.0	0.8			
			PP	06 38 37.0	2.7			
			SKKS	06 45 19.0	−0.7			
			SS	06 55 44.0	−0.4			
			LN	M_S=6.9		22.0	9.30	
			LE			22.0	13.9	
			LZ	M_S=6.6		21.0	13.9	
BJI	129.8	3	ePKP	06 36 28.0	0.8			
			ePP	06 38 40.0	−1.6			
			PPMZ	m_B=5.8		9.0	0.54	
			LN	M_S=6.6		21.0	8.14	
DL2	130.9	358	PKP	06 36 32.0	2.6			
			PKS	06 40 06.0	2.8			
			LN	M_S=6.6		18.0	6.31	
			LE			19.0	3.79	
LZH	131.6	17	ePKP	06 36 32.5	1.7			
			sPKP	06 36 52.0	2.1			
			SKKS	06 45 40.0	1.4			
			LN	M_S=6.9		25.0	16.8	
			LE			24.0	6.40	
TIY	131.7	7	PKP	06 36 32.8	1.7			
			sPKP	06 36 51.0	0.7			
			PP	06 38 56.0	1.4			
			PPMZ	m_B=6.6		7.0	2.52	
			PKS	06 40 03.5	−1.2			
			SS	06 56 23.0	−0.4			
			LN	M_S=7.0		22.0	19.7	
			LZ	M_S=7.0		24.0	32.9	
LSA	131.8	33	PKP	06 36 33.0	1.3			
			PP	06 38 53.0	−2.1			
			LN	M_S=6.2		12.0	1.00	
			LE			14.0	2.00	
XAN	134.8	12	PKP	06 36 40.3	3.6			
			PP	06 39 10.0	−3.7			
			LN	M_S=6.8		24.0	15.9	
CD2	136.3	19	PKP	06 36 39.1	−0.5			
			LE	M_S=6.9		22.0	15.4	
NJ2	137.8	1	−PKP	06 36 46.0	3.7			
			PP	06 39 34.5	1.6			
			LN	M_S=6.8		20.0	7.27	
			LE			22.0	9.75	
			LZ	M_S=6.5		22.0	9.76	
SSE	138.7	358	PKP	06 36 43.0	−0.9			
			sPKP	06 37 01.5	−1.7			
			PP	06 39 36.0	−2.5			
			PKS	06 40 21.0	3.7			
			SKKS	06 46 24.0	1.4			
			SS	06 57 47.0	1.4			
			LN	M_S=6.8		21.0	9.94	
			LE			21.0	6.20	
			LZ	M_S=6.7		22.0	14.4	
WHN	139.1	6	PKP	06 36 46.5	2.0			
			PP	06 39 40.0	−0.4			
			PPMZ	m_B=6.6		7.0	2.11	
			SKKS	06 46 24.0	−0.6			
			LZ	M_S=6.7		28.0	20.3	
KMI	141.2	24	PKP	06 36 45.0	−3.7			
			PP	06 39 50.0	−3.4			
			LN	M_S=6.9		25.0	16.8	
GYA	141.4	18	PKP	06 36 44.4	−4.5			
			PP	06 39 53.0	−1.5			
			LN	M_S=6.9		21.0	12.5	
			LE			21.0	9.40	
QZH	144.9	1	PKP	06 36 56.0	1.2			
			SKKS	06 47 01.0	2.4			
			SS	06 58 58.0	0.7			
			LN	M_S=6.5		19.0	4.90	
GZH	146.2	10	iPKP	06 37 00.0	2.9			
			PP	06 40 22.5	−1.0			
			LN	M_S=7.0		25.0	16.0	
			LE			24.0	16.7	
QZN	149.3	18	PKP	06 37 04.0	1.8			
			PP	06 40 43.5	2.5			
			PKS	06 40 40.0	5.7			
			SKS	06 44 07.0	5.0			
			SKKS	06 47 26.0	1.9			
			SS	06 59 54.0	6.6			
			LN	M_S=6.8		24.0	11.4	
			LE			23.0	6.60	

MAR 10d 07h 58m 21.0 ± 0.07s, SD0.96 / 103
7.22 S ± 1.29km, 122.31 E ± 1.58km, h612 ± 0.46km
Flores Sea (279)
m_B5.7 / 33,

QZN	28.8	335	+iP	08 03 34.0	0.0			
			PMZ	m_B=6.0		5.0	2.20	
			S	08 07 43.0	−0.4			
			ScP	08 09 09.3	2.4			
GZH	31.4	344	+iP	08 03 56.5	1.0			
			PMZ	m_B=6.3		3.5	2.75	
			S	08 08 20.0	−2.6			
QZH	32.2	354	+iP	08 04 02.5	0.3			
			PMZ	m_B=6.1		4.0	2.08	
			S	08 08 33.0	−1.7			
GYA	36.8	336	+P	08 04 41.0	0.6			
			PMZ	m_B=5.9		5.0	1.50	
			PP	08 06 33.0	5.8			
			PcP	08 06 47.0	1.3			
			ScP	08 09 37.0	2.6			
			S	08 09 42.0	−1.4			
			ScS	08 13 45.0	1.7			
KMI	37.4	330	+iP	08 04 46.0	0.5			
			S	08 09 56.0	3.6			
SSE	38.1	358	−iP	08 04 52.0	0.7			
			lS	08 10 00.0	−4.1			
WHN	38.3	349	+iP	08 04 54.0	1.0			
			ScP	08 09 42.0	1.7			
			S	08 10 06.0	−0.2			
NJ2	39.2	355	+iP	08 05 00.5	0.5			
			PMZ	m_B=5.9		5.0	1.88	
			iScP	08 09 45.5	1.9			
			lS	08 10 16.0	−3.8			
CD2	41.9	336	+iP	08 05 21.3	−0.2			
			epP	08 07 08.0	1.6			
			ScP	08 09 56.0	1.7			
			S	08 10 54.0	−3.2			
XAN	43.0	344	+iP	08 05 29.2	−0.7			
			PcP	08 07 06.0	0.0			
			pP	08 07 17.0	1.5			
			ScP	08 10 00.6	2.0			
			lS	08 11 10.0	−3.5			
			SMN	m_B=5.3		7.0	1.03	
			ScS	08 14 20.6	0.1			

			SS	08 14 36.0	−1.4			
TIA	43.5	354	eP	08 05 32.8	−1.1			
			PcP	08 07 08.0	0.2			
			ScP	08 10 02.7	2.0			
			S	08 11 17.0	−2.8			
			SME	m_B = 5.4		8.0	1.27	
TIY	45.6	349	+iP	08 05 49.7	−1.0			
			PMZ	m_B = 5.7		5.0	1.09	
			ScP	08 10 12.0	2.4			
			S	08 11 47.0	−3.0			
			SME	m_B = 5.4		6.0	0.78	
			ScS	08 14 40.0	2.1			
DL2	45.9	359	+iP	08 05 52.0	−0.5			
			PMZ	m_B = 5.7		6.0	1.33	
			S	08 11 52.0	−1.5			
			ScS	08 14 41.0	1.4			
LZH	46.4	339	+iP	08 05 57.0	0.1			
			ScP	08 10 15.0	2.0			
			eS	08 11 58.0	−4.5			
			ScS	08 14 43.0	−0.2			
BJI	47.4	354	+P	08 06 03.0	−0.6			
			cPcP	08 07 21.0	−0.7			
			eScP	08 10 19.0	2.1			
			eS	08 12 10.0	−4.8			
			ScS	08 14 50.0	0.7			
LSA	47.4	322	+iP	08 06 03.8	−0.4			
			S	08 12 12.0	−1.9			
			SS	08 15 46.0	−6.8			
			SME	m_B = 5.9		6.0	2.10	
SNY	48.8	1	+iP	08 06 13.0	−1.5			
			PMZ	m_B = 5.8		5.0	1.50	
			iS	08 12 30.0	−4.7			
			SME	m_B = 5.6		7.0	1.20	
HHC	48.8	349	+iP	08 06 14.0	−0.8			
BTO	48.9	348	+iP	08 06 14.0	−1.3			
CN2	50.9	3	+iP	08 06 27.9	−1.6			
			PcP	08 07 35.0	0.4			
			ScP	08 10 33.0	1.2			
			eS	08 12 57.0	−5.2			
			ScS	08 15 15.0	1.9			
			SS	08 16 43.0	−5.3			
GTA	50.9	338	+iP	08 06 29.4	−0.2			
			PcP	08 07 34.6	0.0			
			pP	08 08 20.8	0.3			
			ScP	08 10 34.8	3.0			
			PcS	08 11 31.2	3.0			
			ScS	08 15 14.8	1.7			
MDJ	52.0	7	+iP	08 06 37.5	−0.2			
			PP	08 08 46.0	0.0			
			ScP	08 10 38.5	1.7			
			S	08 13 16.0	−0.4			
			SME	m_B = 6.3		6.0	5.03	
			ScS	08 15 22.5	1.3			
WMQ	59.7	332	+iP	08 07 30.2	−0.2			
			PMZ			3.0	1.69	
			S	08 14 55.0	0.2			
			ScS	08 16 18.0	1.1			
KSH	63.2	321	+iP	08 07 54.0	0.5			
			PP	08 10 26.0	2.0			
			iS	08 15 41.0	0.8			
			SME	m_B = 6.2		5.0	2.20	
			ScS	08 16 46.0	2.1			
			sS	08 19 14.0	5.3			

MAR 10d 10h 25m 04.2 ± 0.14s, SD0.96 / 106
20.92 S ± 1.23km, 178.53 W ± 1.68km, h619 ± 1.21km
Fiji region (181)
m_B6.2 / 50, m_b6.6 / 4,

QZH	76.2	304	−iP	10 35 53.0	0.3			
			PMZ	m_B = 6.1		5.0	4.71	
			sP	10 38 58.0	−2.8			
			iS	10 44 50.5	1.3			
			SME	m_B = 6.0		8.0	2.87	
			ScS	10 45 10.0	1.0			
SSE	77.6	310	+P	10 35 59.0	−0.9			
			pP	10 38 06.0	−1.4			
			S	10 45 04.0	2.2			
			SMN	m_B = 5.7		10.0	1.90	
GZH	79.5	300	−iP	10 36 10.5	0.5			
			PMZ	m_B = 6.1		6.0	4.50	
			sP	10 39 20.0	0.9			
			iS	10 45 27.0	3.9			
			SME	m_B = 6.6		9.0	11.1	
NJ2	79.8	310	−iP	10 36 11.9	0.5			
			PMZ			3.0	0.89	
			S	10 45 26.0	1.8			
QZN	80.6	294	P	10 36 16.0	0.4			
			PP	10 39 31.0	−0.7			
			sP	10 39 23.5	−1.5			
			S	10 45 36.0	3.7			
			SMN	m_B = 6.0		11.5	3.00	
			SME			14.5	2.70	
MDJ	80.6	325	−iP	10 36 15.7	0.1			
			PMZ	m_B = 6.3		4.0	4.90	
			pP	10 38 26.0	1.7			
			PP	10 39 33.5	1.7			
			S	10 45 35.0	2.7			
			SME	m_B = 6.7		8.0	14.8	
			sS	10 49 19.0	1.4			
DL2	81.7	317	−iP	10 36 23.0	1.7			
			PP	10 39 43.0	2.1			
			eS	10 45 46.0	1.0			
SNY	82.2	320	−iP	10 36 23.0	−0.9			
			PMZ			17.0	4.25	
			pP	10 38 38.0	4.8			
			iS	10 45 45.0	−5.1			
			SMN			26.0	7.43	
			SME			23.0	7.08	
WHN	82.3	307	−iP	10 36 24.7	0.3			
			PMZ			3.0	3.65	
			sP	10 39 34.0	−0.2			
			iS	10 45 48.0	−2.9			
			SMN	m_B = 6.1		12.0	4.46	
CN2	82.3	323	−iP	10 36 28.3	3.7			
			PMZ	m_b = 6.6		2.5	5.10	
			epP	10 38 32.5	−1.3			
			ePP	10 39 43.0	−2.8			
			PPMZ			4.0	1.50	
			S	10 45 45.0	−4.6			
			SMN	m_B = 5.8		9.0	1.20	
			SME			9.0	1.50	
			sS	10 49 29.0	−6.3			
TIA	83.2	313	−P	10 36 28.6	−0.3			
			PMZ			18.0	3.47	
			S	10 45 54.5	−3.4			
			SMN	m_B = 6.2		10.0	2.45	
			SME			9.0	4.45	
BJI	85.8	316	−P	10 36 41.5	−0.2			
			eSKS	10 46 08.0	0.6			
			eS	10 46 30.0	5.4			
GYA	86.4	300	−P	10 36 45.0	0.4			
			SKS	10 46 16.0	4.8			
			SMN	m_B = 6.4		11.0	2.00	
			SME			11.0	6.20	
TIY	87.2	312	−iP	10 36 48.5	0.3			
			PMZ	m_B = 6.4		4.0	3.12	

International Seismological Centre

			pP	10 39 01.0	2.0			
			sP	10 40 04.5	5.4			
			PP	10 40 29.0	3.6			
			SKS	10 46 20.0	4.0			
			SME	$m_B = 6.2$		12.0	4.16	
XAN	88.0	308	–iP	10 36 52.0	0.1			
			PMZ	$m_B = 6.2$		6.0	2.75	
			pP	10 39 05.0	2.0			
			PP	10 40 32.0	0.3			
			SKS	10 46 20.0	–0.9			
			S	10 46 48.0	5.4			
			SMN	$m_B = 6.3$		8.0	3.07	
KMI	89.1	297	–P	10 36 58.0	0.7			
			iSKS	10 46 31.0	3.5			
			S	10 46 54.0	1.6			
HHC	89.3	315	+P	10 36 57.8	–0.2			
			PMZ	$m_B = 6.0$		8.0	1.84	
			pP	10 39 11.5	2.0			
			sP	10 40 10.0	0.5			
			PP	10 40 43.5	1.6			
			PPMZ			9.0	1.26	
			SKS	10 46 30.0	1.3			
			S	10 46 54.0	–0.1			
BTO	90.2	314	P	10 37 02.0	–0.3			
			pP	10 39 14.0	0.0			
			PP	10 40 50.0	0.9			
			iSKS	10 46 35.5	1.4			
			S	10 47 03.0	0.7			
			SMN	$m_B = 6.3$		10.0	1.40	
			SME			10.0	3.30	
CD2	90.6	303	eP	10 37 04.2	0.2			
			pP	10 39 12.0	–3.8			
			sP	10 40 20.0	4.3			
			SKS	10 46 38.0	1.7			
LZH	92.6	308	–iP	10 37 13.5	0.1			
			PMZ	$m_b = 6.5$		2.0	1.02	
			pP	10 39 28.0	2.7			
			PP	10 41 06.0	–2.3			
			SKS	10 46 50.0	2.5			
			S	10 47 30.0	6.9			
GTA	96.9	309	–P	10 37 31.4	–1.1			
			PP	10 41 37.0	–3.7			
			PPMZ	$m_B = 6.2$		7.5	1.12	
			SKS	10 47 11.0	1.6			
			SKKS	10 47 41.0	–1.8			
			SME	$m_B = 5.7$		10.0	1.73	
LSA	100.3	298	eP	10 37 50.0	1.5			
			SMN	$m_B = 6.0$		6.0	0.90	
KSH	114.8	305	ePKP	10 42 38.0	1.0			
			PP	10 43 50.5	–0.2			
			sPKP	10 45 54.0	–1.0			
			SKKS	10 49 40.0	0.2			

MAR 10d 12h 17m 56.2 ± 0.09s, SD2.12 / 15
37.94 N ± 0.78km, 113.99 E ± 0.76km, h15 ± 0.10km
North–Eastern China (658)
M_L3.2 / 12,

TIY	1.3	260	iPg	12 18 18.5	–0.1			
			Sg	12 18 34.9	–0.7			
			SMN	$M_L = 3.2$		0.5	0.39	
			SME			0.6	0.37	
BJI	2.7	39	ePn	12 18 39.0	–0.6			
			ePg	12 18 42.5	–1.4			
			eSg	12 19 17.0	–3.9			
			SMN	$M_L = 2.9$		0.5	0.050	
			SME			0.5	0.060	
TIA	3.0	124	ePg	12 18 51.0	0.8			
			Sn	12 19 21.7	–0.9			
			Sg	12 19 32.7	0.9			
			SMN	$M_L = 3.0$		0.5	0.056	
			SME			0.3	0.048	
HHC	3.5	328	Pg	12 18 55.6	–1.9			
			Sg	12 19 41.8	–2.7			
			SMN	$M_L = 3.2$		0.6	0.050	
			SME			0.6	0.080	
BTO	4.1	312	Pg	12 19 06.3	–1.9			
XAN	5.7	228	Pn	12 19 21.0	0.6			
			Sg	12 20 49.5	–4.1			

MAR 10d 14h 25m 14.3 ± 0.08s, SD0.94 / 37
57.35 N ± 1.62km, 143.49 W ± 0.87km, h12 ± 0.13km
Gulf of Alaska (15)

CN2	55.1	298	+P	14 34 49.4	0.2
TIY	66.0	303	eP	14 36 04.0	0.5
NJ2	67.5	294	+P	14 36 13.6	0.4
WMQ	70.5	323	eP	14 36 32.5	0.7
XAN	70.6	303	P	14 36 32.2	–0.2
WHN	70.9	297	eP	14 36 35.0	0.6
LZH	71.1	308	eP	14 36 36.0	0.3
GYA	78.0	300	P	14 37 16.4	0.9

MAR 10d 14h 42m 12.2 ± 0.08s, SD1.38 / 30
23.81 S ± 1.50km, 177.57 W ± 1.29km, h267 ± 0.27km
South of Fiji (171)

WHN	84.7	307	eP	14 54 18.0	–0.3
BJI	88.5	315	eP	14 54 34.0	–2.6
GYA	88.6	300	P	14 54 37.0	–0.2
TIY	89.8	312	eP	14 54 43.4	0.8
			SKS	15 04 44.0	–0.7
XAN	90.4	307	P	14 54 45.6	–0.1

MAR 10d 15h 33m 54.2 ± 0.06s, SD1.52 / 49
40.36 N ± 1.75km, 141.37 E ± 1.25km, h118 ± 1.42km
Honshu (227)

MDJ	9.7	300	eP	15 36 13.2	1.5
DL2	15.3	271	eP	15 37 25.0	0.2
SSE	18.8	247	P	15 38 05.5	–1.4
BJI	19.2	277	eP	15 38 09.5	–2.3
TIA	19.5	265	eP	15 38 12.7	–1.5
NJ2	19.9	253	+P	15 38 18.9	–0.2
TIY	22.6	273	P	15 38 46.5	0.8
WHN	24.0	254	eP	15 39 00.0	0.8
XAN	26.5	267	P	15 39 20.8	–2.0
GTA	31.7	282	P	15 40 08.6	–0.6
GYA	31.9	255	P	15 40 10.6	–0.3
WMQ	39.4	293	eP	15 41 15.0	0.7

MAR 11d 00h 30m 48.3 ± 0.07s, SD1.22 / 73
32.59 N ± 0.99km, 138.48 E ± 1.36km, h304 ± 1.42km
South of Honshu (211)

MDJ	13.9	333	–P	00 33 54.8	0.2
			S	00 36 23.0	1.1
SSE	14.8	269	eP	00 34 03.5	–1.7
			eS	00 36 44.0	1.8
SNY	15.0	312	eP	00 34 07.2	–0.8
DL2	15.1	299	P	00 34 11.5	3.0
CN2	15.1	321	–iP	00 34 08.4	–1.1
			sP	00 35 22.0	–0.9
			eS	00 36 49.0	–1.2
NJ2	16.6	273	+P	00 34 26.0	0.7
TIA	18.0	287	eP	00 34 40.0	0.4
BJI	19.4	299	eP	00 34 53.5	–0.5
			eS	00 38 16.5	3.9
WHN	20.7	271	eP	00 35 07.0	0.9
TIY	21.9	291	+iP	00 35 19.4	1.4
HHC	23.0	299	+iP	00 35 29.8	0.8

BTO	24.1	297	–iP	00 35 39.8	0.6			
XAN	24.7	281	P	00 35 43.8	–0.6			
GYA	28.3	266	P	00 36 17.0	0.2			
CD2	29.5	276	eP	00 36 26.8	–0.6			
GTA	31.8	293	–P	00 36 46.8	–0.9			
LSA	40.4	279	P	00 38 00.0	0.6			
WMQ	40.9	301	P	00 38 03.5	0.3			
KSH	50.2	297	eP	00 39 17.4	1.4			

MAR 11d 02h 36m 58.1±0.09s, SD1.07/48
37.35 S±2.61km, 47.96 E±1.96km, h9±0.10km
Atlantic–Indian Ridge (428)

LSA	78.0	37	P	02 49 00.4	0.6			
KSH	80.7	22	eP	02 49 14.5	0.5			
			eS	02 59 20.0	–1.0			
QZN	80.8	58	P	02 49 15.6	1.1			
GYA	84.1	50	P	02 49 32.0	0.6			
CD2	85.6	45	eP	02 49 39.0	–0.2			
WMQ	88.5	28	eP	02 49 53.0	0.0			
LZH	89.6	42	eP	02 49 57.0	–1.3			
GTA	90.0	38	–iP	02 50 00.0	–0.5			
XAN	90.9	47	P	02 50 04.0	–0.3			
WHN	91.7	52	eP	02 50 08.5	0.4			
TIY	95.5	46	eP	02 50 24.8	–0.7			

MAR 11d 03h 44m 56.2±0.13s, SD1.68/54
9.23 N±2.74km, 82.93 W±2.40km, h19±0.88km
Costa Rica (78)
M_S6.3/17,

MDJ	118.9	334	ePKP	04 03 46.0	1.3			
WMQ	126.5	8	PKP	04 04 00.0	0.4			
			LN	M_S=6.5		24.0	7.71	
			LZ	M_S=6.3		24.0	8.11	
KSH	127.7	21	ePKP	04 04 05.0	3.1			
			PP	04 06 05.0	–1.0			
BJI	127.9	341	ePKP	04 04 03.0	0.9			
			LN	M_S=6.3		18.0	3.43	
BTO	129.0	347	ePKP	04 04 05.0	0.6			
			PP	04 06 15.0	–0.2			
			eSKKS	04 13 10.5	6.7			
			SS	04 23 27.5	–3.0			
			LN	M_S=6.4		20.0	4.30	
			LE			17.0	1.60	
			LZ	M_S=6.2		20.0	4.90	
TIA	131.0	338	ePKP	04 04 08.6	0.5			
			LN	M_S=6.5		20.0	5.20	
			LE			20.0	2.00	
			LZ	M_S=6.3		20.0	6.40	
TIY	131.1	344	PKP	04 04 10.1	1.7			
			PKS	04 07 36.0	–6.1			
			LN	M_S=6.4		22.0	4.61	
			LE			19.0	1.26	
			LZ	M_S=6.2		24.0	5.67	
GTA	131.5	357	ePKP	04 04 09.8	0.5			
			ePP	04 06 34.0	2.5			
			LN	M_S=6.6		20.0	5.80	
			LE			20.0	4.20	
			LZ	M_S=6.2		20.0	4.50	
LZH	134.5	352	ePKP	04 04 16.0	1.2			
			LN	M_S=6.4		20.0	4.00	
			LE			20.0	1.90	
XAN	135.5	346	ePKP	04 04 17.5	0.9			
WHN	137.1	338	ePKP	04 04 16.5	–3.0			
			LN	M_S=6.3		18.0	3.30	
			LZ	M_S=6.2		20.0	4.45	
CD2	139.6	351	ePKP	04 04 25.1	1.1			
GYA	143.3	346	PKP	04 04 29.0	–1.6			
			pPKP	04 04 34.0	–1.6			
			PP	04 07 45.0	0.8			
			LN	M_S=6.2		20.0	2.20	
			LE			20.0	2.30	
KMI	145.4	351	PKP	04 04 36.0	1.6			
			LE	M_S=6.1		20.0	2.27	
			LZ	M_S=5.9		26.0	2.40	
QZN	149.2	336	ePKP	04 04 40.0	–0.4			
			ePP	04 08 20.0	1.5			
			eSS	04 27 26.0	–1.2			
			LN	M_S=6.2		19.0	2.70	

MAR 11d 04h 20m 41.6±0.13s, SD1.25/22
19.47 S±0.31km, 177.47 W±1.31km, h552±1.54km
Fiji region (181)

CN2	81.8	322	eP	04 32 05.0	0.2			
			epP	04 34 08.0	5.3			
			eS	04 41 28.0	–5.3			
XAN	87.9	307	P	04 32 35.0	0.4			

MAR 11d 04h 21m 51.5±0.48s, SD4.49/7
36.94 N±2.87km, 96.21 E±3.84km, h33±km
Qinghai Province (325)
M_L3.1/4,

GTA	3.8	48	ePn	04 22 50.3	2.5			
			SMN	M_L=2.9		0.8	0.035	
			SME			0.8	0.026	
LZH	6.2	96	Pg	04 23 42.5	1.0			
WMQ	9.4	319	eP	04 24 13.2	4.8			
			SMN			0.9	0.050	

MAR 11d 07h 38m 38.4±0.11s, SD1.29/63
37.27 N±1.63km, 56.26 E±1.14km, h33±0.24km
Iran (348)
M_S5.0/10,

KSH	15.6	76	eP	07 42 14.0	–3.6			
			pP	07 42 22.5	–2.2			
			eS	07 45 04.0	–5.7			
			sS	07 45 18.0	–2.9			
			LN	M_S=5.4		12.0	10.2	
WMQ	24.7	65	P	07 43 58.0	0.0			
			eS	07 48 18.0	2.9			
			LN	M_S=5.2		7.0	1.26	
			LE			6.5	1.28	
			LZ	M_S=4.7		10.0	1.13	
GTA	34.0	73	eP	07 45 22.0	0.4			
			LE	M_S=4.9		13.0	1.00	
			LZ	M_S=4.7		16.0	1.19	
LZH	37.9	77	eP	07 45 55.5	0.9			
CD2	39.5	85	eP	07 46 09.0	0.9			
BTO	41.4	68	eP	07 46 25.0	1.1			
XAN	42.5	78	P	07 46 32.2	–0.3			
HHC	42.5	67	eP	07 46 33.8	1.0			
GYA	43.7	89	P	07 46 43.2	0.6			
TIY	44.0	72	eP	07 46 45.2	0.3			
			eS	07 53 17.0	2.4			
			LN	M_S=4.9		13.0	0.56	
			LZ	M_S=4.6		20.0	0.75	
BJI	46.1	67	eP	07 47 02.0	0.3			
WHN	48.0	80	eP	07 47 14.5	–2.4			
QZN	50.0	96	eP	07 47 31.0	–0.7			
			eS	07 54 37.0	–2.0			
CN2	51.6	60	eP	07 47 43.0	–1.2			
			LN	M_S=5.0		13.0	0.60	
			LZ	M_S=4.6		16.0	0.50	

MAR 11d 08h 28m 29.6±0.22s, SD1.84/27
43.34 N±1.25km, 147.25 E±1.41km, h49±2.23km
Off coast of Hokkaido (225)

International Seismological Centre

BJI	23.4	273	eP	08 33 34.0	−0.9		
HHC	26.5	277	eP	08 34 05.0	0.4		
TIY	26.9	270	eP	08 34 12.1	3.4		
BTO	27.7	277	eP	08 34 14.8	−0.7		
XAN	31.1	266	P	08 34 45.0	−1.0		
WMQ	42.3	292	P	08 36 22.0	1.2		

MAR 11d 09h 09m 38.9 ± 0.07s, SD0.92 / 85
7.31 S ± 0.97km, 122.30 E ± 1.50km, h632 ± 0.32km
Flores Sea (279)

QZN	28.9	335	+P	09 14 51.7	0.2		
			eS	09 18 57.0	−4.6		
GZH	31.5	344	−P	09 15 13.0	−0.1		
QZH	32.3	354	eP	09 15 20.0	0.2		
GYA	36.8	336	P	09 15 58.6	0.8		
KMI	37.4	330	+iP	09 16 04.5	1.6		
SSE	38.2	358	+iP	09 16 09.5	0.7		
WHN	38.4	349	+iP	09 16 11.5	1.1		
NJ2	39.3	355	+P	09 16 18.4	0.9		
CD2	41.9	336	eP	09 16 38.0	−0.8		
XAN	43.0	344	+iP	09 16 46.4	−0.8		
TIA	43.6	354	+P	09 16 49.9	−1.4		
DL2	46.0	359	P	09 17 09.5	−0.3		
LZH	46.5	339	+P	09 17 14.5	0.4		
LSA	47.4	322	P	09 17 21.3	0.0		
BJI	47.4	354	eP	09 17 20.0	−0.9		
SNY	48.9	1	−iP	09 17 30.7	−1.1		
HHC	48.9	349	P	09 17 31.4	−0.7		
BTO	49.0	348	P	09 17 31.9	−0.6		
GTA	50.9	338	+iP	09 17 46.8	0.1		
CN2	50.9	3	+P	09 17 45.4	−1.3		
MDJ	52.1	7	eP	09 17 55.0	0.1		
WMQ	59.7	332	P	09 18 47.5	0.2		

MAR 11d 12h 58m 11.4 ± 0.10s, SD1.08 / 63
3.49 N ± 0.81km, 124.13 E ± 1.00km, h393 ± 1.24km
Celebes Sea (262)

QZN	20.8	319	eP	13 02 26.3	1.6		
QZH	22.0	346	+P	13 02 36.4	0.6		
GYA	28.3	325	P	13 03 33.2	0.2		
WHN	28.4	342	+P	13 03 35.5	1.5		
CD2	33.4	327	eP	13 04 16.0	−0.5		
XAN	33.5	337	P	13 04 17.0	−0.9		
			ScP	13 09 55.0	1.2		
DL2	35.3	357	P	13 04 33.5	0.6		
TIY	35.7	344	+P	13 04 36.4	0.2		
BJI	37.1	350	eP	13 04 47.0	−0.6		
LZH	37.5	332	eP	13 04 52.0	1.2		
SNY	38.2	359	+iP	13 04 57.2	0.7		
HHC	38.9	345	−P	13 05 03.1	0.6		
BTO	39.1	343	eP	13 05 04.8	0.7		
CN2	40.2	1	eP	13 05 12.8	−0.1		
LSA	40.7	313	+P	13 05 18.0	0.4		
MDJ	41.2	6	eP	13 05 23.0	1.4		
GTA	42.0	332	−P	13 05 28.0	0.0		
			ScP	13 10 27.0	1.2		
WMQ	51.5	327	+iP	13 06 41.0	0.3		

MAR 11d 13h 00m 27.8 ± 0.08s, SD2.44 / 7
32.39 N ± 0.92km, 121.57 E ± 0.88km, h24 ± 1.10km
Eastern China (664)
M_L3.2 / 5,

SSE	1.3	194	Pn	13 00 52.2	0.8		
			Pg	13 00 53.7	2.1		
			Sn	13 01 10.0	0.1		
			Sg	13 01 11.5	1.5		
			SMN	M_L = 3.3	0.5	0.40	
			SME		0.5	0.56	
NJ2	2.3	262	−Pg	13 01 10.0	0.9		
			Sg	13 01 41.0	0.0		
			SMN	M_L = 3.2	0.4	0.12	
			SME		0.4	0.18	

MAR 12d 00h 44m 14.3 ± 0.17s, SD1.75 / 29
32.80 S ± 1.95km, 178.91 W ± 2.93km, h61 ± 0.92km
South of Kermadec Islands (179)

MDJ	90.2	326	eP	00 57 10.5	0.5		
DL2	90.2	318	P	00 57 12.0	1.9		
GYA	92.1	300	P	00 57 20.0	1.0		
BJI	94.1	316	eP	00 57 29.0	1.0		
WMQ	114.1	308	ePKP	01 02 46.5	−0.8		

MAR 12d 01h 44m 39.4 ± 0.07s, SD0.75 / 15
38.66 S ± 1.99km, 47.59 E ± 0.72km, h10 ± 0.10km
Atlantic−Indian Ridge (428)

GYA	85.1	51	P	01 57 18.6	0.6		
CD2	86.8	46	eP	01 57 26.4	0.4		
WMQ	89.8	28	P	01 57 41.0	0.6		
			S	02 08 33.0	4.2		
			LZ	M_S = 4.9	24.0	0.60	
GTA	91.3	38	eP	01 57 47.3	−0.1		

MAR 12d 04h 32m 09.9 ± 0.18s, SD1.81 / 73
10.08 N ± 2.98km, 60.60 W ± 1.75km, h47 ± 1.37km
Near coast of Venezuela (97)
M_S5.8 / 7,

WMQ	119.1	26	PKP	04 50 55.0	0.4		
			LN	M_S = 5.9	24.0	1.26	
			LE		24.0	1.80	
			LZ	M_S = 5.6	24.0	1.88	
MDJ	124.8	351	ePKP	04 51 06.0	0.5		
CN2	126.1	355	PKP	04 51 08.0	0.0		
GTA	127.5	19	PKP	04 51 11.4	0.5		
			LN	M_S = 5.8	22.0	1.55	
SNY	128.2	356	iPKP	04 51 13.4	1.3		
HHC	128.8	8	PKP	04 51 15.0	1.6		
BTO	128.8	9	ePKP	04 51 18.0	4.5		
BJI	130.1	3	ePKP	04 51 16.5	0.9		
DL2	131.2	358	PKP	04 51 19.0	1.1		
			PP	04 53 40.0	0.6		
LZH	131.8	17	ePKP	04 51 21.0	1.8		
TIY	132.0	7	PKP	04 51 21.5	2.0		
			sPKP	04 51 36.5	−2.0		
			LN	M_S = 6.0	23.0	2.29	
			LZ	M_S = 5.8	23.0	2.24	
TIA	133.9	3	−PKP	04 51 23.7	0.7		
XAN	135.0	12	−PKP	04 51 25.8	0.7		
CD2	136.6	20	ePKP	04 51 29.3	1.3		
NJ2	138.1	1	+PKP	04 51 32.3	1.6		
SSE	139.0	358	ePKP	04 51 28.8	−3.5		
			ePP	04 54 26.0	−2.1		
			PKS	04 55 06.0	0.3		
			SKKS	05 01 15.0	2.7		
			SS	05 12 36.0	−0.9		
			LZ	M_S = 5.6	20.0	1.11	
WHN	139.3	7	PKP	04 51 34.5	1.6		
			PP	04 54 32.0	2.1		
			eSKKS	05 01 12.0	−2.1		
			LZ	M_S = 5.7	24.0	1.40	
KMI	141.4	25	ePKP	04 51 38.0	1.1		
			PP	04 54 42.0	−0.5		
			LZ	M_S = 5.5	25.0	1.08	
GYA	141.6	19	PKP	04 51 33.6	−3.5		
			sPKP	04 51 50.0	−6.1		
QZH	145.2	1	ePKP	04 51 44.0	0.9		
GZH	146.5	10	ePKP	04 51 47.5	2.1		

International Seismological Centre

QZN	149.6	18	PKP	04 51 53.2	2.8			
			PP	04 55 33.0	2.7			
			SKKS	05 02 11.0	−1.9			
			SS	05 14 40.0	2.1			

MAR 12d 08h 17m 47.4 ± 0.09s, SD1.28 / 26
6.03 S ± 0.74km, 147.25 E ± 1.10km, h57 ± 0.54km
Eastern New Guinea region (207)

SSE	44.5	327	eP	08 25 56.0	0.3			
XAN	53.9	320	P	08 27 06.5	−1.0			
BJI	54.0	331	eP	08 27 08.0	−0.8			
GTA	62.9	320	eP	08 28 10.6	−0.3			

MAR 12d 08h 38m 48.7 ± 0.14s, SD1.93 / 70
54.87 N ± 2.74km, 161.66 E ± 1.72km, h21 ± 0.36km
Near east coast of Kamchatka (218)
M_S4.9 / 5,

MDJ	22.9	257	eP	08 43 52.0	−0.8			
CN2	25.8	260	eP	08 44 20.5	0.2			
DL2	31.2	256	eP	08 45 08.0	−0.8			
SSE	37.2	247	eP	08 46 01.8	1.1			
			sP	08 46 12.0	0.7			
			S	08 51 49.0	3.7			
TIY	37.2	263	eP	08 46 06.0	5.0			
			LN	M_S = 4.7		16.0	0.65	
			LZ	M_S = 4.7		17.0	1.08	
NJ2	37.7	251	eP	08 46 05.0	−0.1			
WHN	41.3	254	eP	08 46 35.0	−0.3			
			pP	08 46 44.0	1.4			
XAN	41.8	262	eP	08 46 44.0	4.8			
LZH	43.3	269	eP	08 46 57.0	5.6			
GTA	43.3	276	eP	08 46 50.4	−1.4			
			LZ	M_S = 4.8		14.0	0.77	
WMQ	47.3	289	eP	08 47 21.0	−2.0			
			PcS	08 52 49.0	1.5			
			eS	08 54 16.0	1.4			
			LZ	M_S = 4.7		20.0	0.87	
GYA	48.8	257	P	08 47 37.0	2.1			

MAR 12d 11h 00m 49.8 ± 0.07s, SD1.12 / 57
53.32 N ± 1.91km, 155.95 E ± 1.14km, h325 ± 0.05km
North-west of Kurile Islands (220)

MDJ	19.3	254	eP	11 04 53.0	0.2			
CN2	22.2	257	+P	11 05 20.7	−0.1			
			eS	11 09 00.0	0.7			
SNY	24.5	255	eP	11 05 41.0	−1.0			
BJI	29.9	260	eP	11 06 31.0	0.1			
BTO	33.2	266	eP	11 07 00.0	0.4			
SSE	33.5	242	eP	11 07 02.3	0.8			
WHN	37.7	250	eP	11 07 36.5	0.0			
XAN	38.3	259	P	11 07 38.6	−2.9			
			PcP	11 09 47.6	−0.8			
LZH	39.9	266	eP	11 07 55.5	0.7			
GTA	40.1	273	−iP	11 07 58.0	1.2			
WMQ	44.5	287	P	11 08 33.0	0.7			
			pP	11 09 39.0	1.3			
			eS	11 14 40.0	−3.3			
GYA	45.1	253	P	11 08 37.0	−0.2			
LSA	51.9	270	P	11 09 28.3	−0.8			

MAR 12d 12h 11m 12.0 ± 0.08s, SD0.94 / 98
0.67 S ± 1.02km, 133.54 E ± 1.20km, h49 ± 0.22km
West Irian region (196)
M_S5.5 / 47, m_B5.8 / 27,

QZH	29.3	331	eP	12 17 12.0	−0.3			
			S	12 22 06.0	6.5			
			SMN			16.0	2.85	
			LN	M_S = 5.1		11.0	1.48	
QZN	30.4	311	−P	12 17 22.2	0.0			
			PP	12 18 24.5	2.6			
			S	12 22 20.0	2.8			
			SME	m_B = 5.6		11.0	1.70	
			LN	M_S = 5.4		12.0	1.60	
			LE			11.0	2.90	
GZH	30.7	322	−P	12 17 25.2	0.2			
			eS	12 22 28.0	5.1			
			LN	M_S = 5.5		12.0	3.00	
			LE			12.0	2.10	
SSE	33.7	341	+P	12 17 51.5	0.5			
			PP	12 19 08.0	4.2			
			PcP	12 20 26.0	−3.2			
			S	12 23 13.0	4.4			
			SMN			20.0	5.55	
			SME			20.0	3.50	
			sS	12 23 35.0	4.8			
			LN	M_S = 5.5		12.0	3.18	
			LZ	M_S = 5.4		20.0	6.94	
NJ2	35.4	338	+P	12 18 06.2	0.7			
			iS	12 23 36.0	0.4			
			LN	M_S = 5.8		14.0	2.77	
			LE			16.0	7.02	
WHN	36.0	331	P	12 18 12.0	1.2			
			S	12 23 50.0	5.7			
			sS	12 24 10.0	3.9			
			SME	m_B = 5.5		11.0	1.10	
			LE	M_S = 5.5		14.0	3.57	
			LZ	M_S = 5.3		16.0	4.10	
GYA	37.4	318	P	12 18 23.0	0.4			
			pP	12 18 34.0	−0.6			
			PP	12 19 55.0	4.7			
			S	12 24 10.0	4.4			
			sS	12 24 30.0	2.6			
			LN	M_S = 5.6		16.0	3.50	
			LE			16.0	3.50	
KMI	39.3	313	+iP	12 18 39.5	0.9			
			PMZ	m_B = 5.8		6.0	0.90	
			pP	12 18 54.0	3.4			
			eS	12 24 31.0	−5.0			
			LE	M_S = 5.6		16.0	4.18	
			LZ	M_S = 5.3		20.0	4.30	
TIA	39.7	339	+P	12 18 41.5	−0.5			
			PMZ	m_B = 5.5		11.0	0.94	
			SMN	m_B = 5.9		10.0	1.40	
			SME			10.0	1.40	
			LN	M_S = 5.6		15.0	3.50	
			LE			14.0	1.80	
			LZ	M_S = 5.1		15.0	2.20	
DL2	40.9	346	eP	12 18 54.0	2.7			
			S	12 25 04.0	6.1			
			SME	m_B = 5.9		10.0	1.99	
			sS	12 25 26.0	6.2			
			LN	M_S = 5.7		12.0	1.75	
			LE			14.0	4.55	
XAN	41.5	329	P	12 18 56.4	−0.5			
			PMZ	m_B = 5.6		9.0	0.84	
			S	12 25 09.0	1.1			
			SME	m_B = 5.6		10.0	1.07	
			LN	M_S = 5.5		14.0	3.08	
CD2	42.3	321	P	12 19 02.7	−0.1			
			epP	12 19 18.0	3.0			
			eS	12 25 20.0	0.4			
			LZ	M_S = 5.4		14.0	3.72	
TIY	42.9	335	+P	12 19 07.9	0.0			
			PMZ			13.0	1.80	
			pP	12 19 17.5	−2.6			
			S	12 25 32.0	4.6			

International Seismological Centre

			SS	12 28 37.0	2.3			
			LN	M_S=5.5		12.5	2.41	
			LE			11.5	1.11	
			LZ	M_S=5.4		17.0	4.07	
SNY	43.2	349	+P	12 19 10.0	−0.8			
			PMZ			16.0	1.29	
			S	12 25 30.0	−2.8			
			SMN			20.0	7.88	
			SME			22.0	3.33	
			LN	M_S=5.6		32.0	6.52	
			LE			22.0	3.76	
BJI	43.5	341	+P	12 19 13.0	0.1			
			PMZ	m_B=5.8		8.0	1.07	
			ePP	12 20 57.0	1.0			
			eS	12 25 38.0	0.4			
			esS	12 26 04.0	5.4			
			eSS	12 28 48.0	2.2			
			LE	M_S=5.7		18.0	5.78	
CN2	44.9	352	−P	12 19 22.8	−1.0			
			PMZ	m_B=5.9		5.0	0.80	
			pP	12 19 35.0	−1.1			
			eS	12 25 55.0	−2.2			
			SMN			20.0	4.70	
			SS	12 29 16.0	5.2			
			LN	M_S=5.4		11.0	1.50	
			LZ	M_S=5.2		18.0	2.90	
MDJ	45.2	356	+P	12 19 26.0	−0.7			
			pP	12 19 36.0	−3.0			
			S	12 26 00.0	−1.4			
			SS	12 29 12.0	−4.7			
			ScS	12 29 20.0	4.6			
			LZ	M_S=5.5		16.0	4.65	
LZH	45.8	326	eP	12 19 32.0	0.3			
			PMZ	m_B=5.8		10.0	1.18	
			eS	12 26 07.5	−3.9			
			SMN	m_B=5.7		8.0	0.82	
			sS	12 26 35.0	2.8			
			LN	M_S=5.6		14.0	2.70	
			LE			15.0	1.73	
HHC	45.9	337	−P	12 19 32.5	0.3			
			PP	12 21 15.0	−4.5			
			SMN	m_B=6.0		6.0	0.51	
			SME			9.0	1.67	
			sS	12 26 34.0	0.8			
			LN	M_S=5.5		13.0	1.97	
			LE			10.0	1.00	
BTO	46.3	335	P	12 19 35.5	0.0			
			pP	12 19 50.0	2.3			
			PP	12 21 25.0	1.4			
			S	12 26 18.5	1.5			
			SMN	m_B=5.9		10.0	0.70	
			SME			10.0	1.50	
			LN	M_S=5.5		13.0	1.40	
			LE			13.0	1.60	
			LZ	M_S=5.0		13.0	1.10	
GTA	50.4	326	+iP	12 20 07.4	−0.1			
			PP	12 22 06.0	2.9			
			S	12 27 18.0	3.3			
			SS	12 30 50.0	4.1			
			LN	M_S=5.5		13.0	0.90	
			LE			13.0	1.80	
			LZ	M_S=5.3		18.0	2.70	
LSA	50.4	310	+iP	12 20 07.4	−0.5			
			SMN	m_B=5.9		7.0	1.00	
WMQ	60.2	323	+iP	12 21 18.0	−0.3			
			PMZ	m_B=5.8		12.0	1.40	
			SME			13.0	2.30	
			LN	M_S=5.7		16.0	2.90	
			LE			20.0	1.70	
			LZ	M_S=5.2		20.0	2.00	
KSH	66.0	314	P	12 21 57.0	0.7			
			eS	12 30 38.0	−0.9			
			SMN	m_B=6.0		8.0	1.50	
			LN	M_S=5.7		14.0	2.00	

MAR 12d 12h 46m 30.6±0.08s, SD1.73/44
23.77 N±1.27km, 121.70 E±1.11km, h49±1.15km
Taiwan (244)
M_L4.3/18, m_b4.5/1,

QZH	3.1	293	iP	12 47 17.6	−0.4			
			iS	12 47 49.8	−2.8			
			SMN	M_L=4.5		0.6	2.02	
			SME			0.6	1.52	
SSE	7.3	357	eP	12 48 17.0	−0.6			
			SMN	M_L=3.8		1.0	0.029	
			SME			1.0	0.038	
GZH	7.7	267	eP	12 48 22.0	−1.0			
			S	12 49 42.4	−6.2			
			SMN	M_L=4.6		1.0	0.30	
			SME			1.0	0.11	
NJ2	8.6	344	−P	12 48 34.0	−1.8			
			SMN	M_L=4.4		1.0	0.072	
WHN	9.4	317	eP	12 48 45.5	−0.9			
			SMN			1.0	0.10	
			SME			1.0	0.11	
GYA	13.9	284	eP	12 49 51.0	4.2			
BJI	16.9	345	eP	12 50 28.5	3.3			
CD2	17.4	298	eP	12 50 34.8	2.5			
LZH	19.7	313	eP	12 51 01.0	1.8			
			PMZ	m_b=4.5		2.0	0.049	
GTA	24.2	315	P	12 51 46.3	2.1			
WMQ	34.3	314	eP	12 53 16.0	1.4			

MAR 12d 19h 00m 55.7±0.12s, SD1.48/41
0.02 N±1.36km, 123.57 E±1.19km, h129±1.11km
Minahassa Peninsula (Celebes) (265)

QZN	23.2	325	P	19 05 54.0	1.9
GYA	30.9	330	P	19 07 03.8	0.9
KMI	32.1	323	+P	19 07 15.0	1.9
CD2	36.0	330	eP	19 07 47.3	0.7
XAN	36.5	339	P	19 07 50.5	−0.3
LSA	42.7	317	P	19 08 42.0	−0.5
GTA	44.8	334	eP	19 08 59.6	0.5
WMQ	54.1	328	eP	19 10 08.3	−1.4

MAR 12d 22h 54m 21.3±0.08s, SD0.74/95
29.76 N±0.79km, 139.04 E±0.95km, h394±0.31km
South of Honshu (211)

SSE	15.5	279	P	22 57 40.4	−0.8
			eS	23 00 18.0	−4.4
			sS	23 00 25.5	3.8
MDJ	16.6	336	−P	22 57 53.5	0.5
DL2	17.0	307	eP	22 57 57.0	0.0
SNY	17.4	318	−iP	22 58 01.2	0.7
NJ2	17.5	283	−iP	22 58 02.5	0.7
			iS	23 01 04.0	3.8
CN2	17.7	326	−P	22 58 04.0	−0.2
QZH	18.8	260	−P	22 58 16.0	1.2
TIA	19.5	295	−P	22 58 21.6	0.1
BJI	21.3	305	eP	22 58 38.5	−0.9
WHN	21.4	278	eP	22 58 40.5	0.7
HHC	24.9	304	+P	22 59 12.0	−0.5
XAN	25.9	287	−iP	22 59 20.9	−0.3
			PcP	23 02 37.8	−0.4
BTO	26.0	302	eP	22 59 22.0	0.0
QZN	28.6	255	P	22 59 46.8	1.7

			eS	23 04 04.0	−0.8			
GYA	28.7	271	−P	22 59 46.0	−0.3			
			PcP	23 02 45.2	0.1			
			S	23 04 03.8	−1.9			
LZH	30.1	291	−P	22 59 57.5	−1.0			
CD2	30.4	281	eP	23 00 00.8	−0.2			
KMI	32.5	271	−iP	23 00 19.0	0.2			
GTA	33.5	297	−iP	23 00 27.3	−0.1			
			ScP	23 06 03.0	−0.4			
LSA	41.3	282	P	23 01 32.7	−0.1			
WMQ	42.8	304	−P	23 01 44.3	0.3			
			PcP	23 03 27.0	−0.1			
			eS	23 07 37.0	−2.0			
KSH	51.9	299	eP	23 02 54.0	0.1			

MAR 13d 01h 39m 18.6 ± 0.09s, SD1.57 / 45
24.32 N ± 1.63km, 122.32 E ± 1.08km, h24 ± 0.70km
Taiwan (244)
M_S3.9 / 2, M_L4.2 / 17,

QZH	3.4	281	iPn	01 40 12.7	1.4			
			SMN	M_L = 3.7		0.2	0.22	
			SME			0.2	0.21	
SSE	6.8	352	eP	01 41 00.5	0.5			
			eS	01 42 12.5	−5.1			
			SMN	M_L = 3.9		1.0	0.063	
			SME			1.0	0.066	
			LE	M_S = 3.7		4.0	0.29	
NJ2	8.3	339	+P	01 41 19.0	−1.4			
			S	01 42 47.4	−6.6			
			SMN	M_L = 4.4		1.0	0.097	
			SME			1.0	0.091	
WHN	9.4	313	eP	01 41 34.5	−1.4			
			eS	01 43 16.5	−5.5			
			SMN			1.0	0.080	
			SME			1.5	0.11	
			LE	M_S = 4.1		4.0	0.41	
GYA	14.3	282	P	01 42 42.0	−0.2			
			S	01 45 25.0	4.5			
XAN	15.2	313	eP	01 42 49.4	−4.0			
CD2	17.7	296	P	01 43 25.4	−0.1			
BTO	19.2	330	eP	01 43 45.0	0.8			
CN2	19.6	7	P	01 43 49.0	0.8			
LZH	19.8	311	eP	01 43 51.5	1.2			
GTA	24.2	314	eP	01 44 36.0	0.9			

MAR 13d 06h 18m 04.5 ± 0.11s, SD1.32 / 28
8.30 S ± 1.28km, 111.02 E ± 0.68km, h135 ± 1.47km
Java (277)

SSE	40.4	14	P	06 25 32.1	1.2			
XAN	42.1	357	−P	06 25 46.2	0.5			
LZH	44.7	352	eP	06 26 07.0	0.9			
BJI	48.3	5	eP	06 26 34.5	−0.2			
GTA	48.6	348	+P	06 26 38.0	1.1			
SNY	51.2	12	−iP	06 26 54.7	−1.8			

MAR 13d 09h 27m 15.7 ± 0.09s, SD1.69 / 74
13.94 N ± 1.33km, 119.35 E ± 1.62km, h37 ± 0.32km
Philippine Islands region (248)
M_S4.5 / 14, m_S5.1 / 2,

QZN	10.4	300	eP	09 29 44.2	−1.8			
			eS	09 31 39.5	−3.0			
			LE	M_S = 4.1		11.0	0.90	
WHN	17.2	345	eP	09 31 16.5	2.2			
			eS	09 34 26.0	3.6			
			sS	09 34 36.0	0.8			
			LE	M_S = 4.7		11.0	1.54	
SSE	17.2	5	P	09 31 15.5	1.1			
			epP	09 31 28.0	5.6			
			sS	09 34 38.0	2.8			
			LZ	M_S = 4.0		16.0	0.62	
GYA	17.2	318	P	09 31 17.8	2.6			
NJ2	18.0	359	+P	09 31 30.0	4.7			
			LE	M_S = 4.5		7.0	0.54	
KMI	19.2	308	+P	09 31 43.0	3.6			
XAN	22.1	336	eP	09 32 10.5	0.5			
			S	09 36 11.5	5.6			
			SMN	m_S = 5.0		12.0	0.62	
			LN	M_S = 4.6		12.0	0.51	
			LE			11.0	0.69	
CD2	22.2	322	eP	09 32 10.4	0.2			
			eS	09 36 10.0	2.8			
			LE	M_S = 4.7		11.0	1.08	
TIA	22.3	355	P	09 32 11.0	−0.2			
			SMN	m_S = 5.1		8.0	0.37	
			SME			8.0	0.27	
			LN	M_S = 4.5		11.0	0.47	
			LE			19.0	0.71	
TIY	24.5	347	eP	09 32 31.0	−1.8			
			S	09 36 49.5	2.6			
			sS	09 37 09.5	6.0			
			LN	M_S = 4.7		12.0	0.70	
			LE			11.0	0.62	
			LZ	M_S = 4.3		16.0	0.71	
LZH	26.1	330	eP	09 32 47.0	−1.2			
BJI	26.1	354	eP	09 32 47.0	−1.6			
HHC	27.7	347	eP	09 33 03.0	0.4			
BTO	27.8	345	eP	09 33 09.0	5.2			
			LN	M_S = 4.9		11.0	0.60	
			LE			11.0	0.90	
SNY	28.0	7	eP	09 33 05.8	0.0			
CN2	30.2	9	eP	09 33 29.5	4.2			
GTA	30.7	329	eP	09 33 28.2	−1.2			
			LE	M_S = 4.7		11.0	0.53	
			LZ	M_S = 4.5		17.0	0.84	
MDJ	31.8	14	+P	09 33 39.0	−0.3			
			pP	09 33 49.0	0.0			

MAR 13d 11h 31m 32.6 ± 0.19s, SD2.13 / 62
33.64 S ± 3.12km, 72.24 W ± 2.10km, h40 ± 1.62km
Near coast of Central Chile (135)
M_S6.0 / 11,

MDJ	159.9	309	ePKP	11 51 34.0	5.9			
			pPKP	11 51 45.0	5.4			
			PKP2	11 52 08.0	−0.4			
			PP	11 55 50.0	−0.9			
			SKKS	12 02 35.0	2.0			
			LZ	M_S = 6.3		24.0	5.06	
WMQ	161.4	51	ePKP	11 51 30.3	0.6			
			PKP2	11 52 16.5	1.6			
			PP	11 56 03.5	3.9			
			LZ	M_S = 6.2		20.0	3.23	
CN2	162.9	312	PKP	11 51 34.0	2.9			
SNY	165.1	308	ePKP	11 51 32.0	−1.3			
			PP	11 56 13.0	−5.9			
			LN	M_S = 6.1		38.0	3.97	
LSA	165.3	101	ePKP	11 51 30.5	−3.5			
QZN	165.3	188	ePKP	11 51 34.0	0.5			
			sPKP	11 51 49.0	−0.6			
			ePP	11 56 25.0	4.8			
			LN	M_S = 6.0		19.0	1.80	
DL2	167.6	299	ePKP	11 51 34.0	−1.2			
SSE	168.4	261	ePKP	11 51 40.0	4.4			
			PP	11 56 40.0	4.6			
			SKKS	12 03 20.0	3.5			
			eSS	12 17 24.0	3.6			
			LE	M_S = 5.8		22.0	1.37	

International Seismological Centre

International Seismological Centre

			LZ		M_S=5.8		20.0	1.39
KMI	170.4	151	ePKP	11	51 37.0	−0.2		
			sPKP	11	51 54.0	1.1		
			PP	11	56 44.0	−1.8		
			LZ		M_S=5.9		24.0	2.03
BJI	170.7	316	ePKP	11	51 38.0	0.9		
			LZ		M_S=5.8		20.0	1.39
GTA	171.4	46	ePKP	11	51 37.0	−0.7		
			PKP2	11	52 59.8	1.0		
			ePP	11	56 50.0	−0.5		
			SKKS	12	03 38.0	6.4		
			LE		M_S=5.8		17.0	1.29
			LZ		M_S=5.9		18.0	1.70
TIA	171.9	291	ePKP	11	51 35.9	−1.9		
BTO	172.8	346	ePKP	11	51 35.3	−3.1		
WHN	173.6	243	ePKP	11	51 38.0	−0.6		
			sP	11	51 53.0	−1.2		
			ePP	11	57 02.0	0.4		
			SKKS	12	03 48.0	6.0		
			LE		M_S=5.9		18.0	1.90
			LZ		M_S=6.1		20.0	3.20
TIY	174.4	318	ePKP	11	51 41.0	2.0		
			PPMZ				15.0	0.83
			SKKS	12	03 50.0	4.2		
			LN		M_S=6.1		18.0	3.11
			LE				20.0	1.97
			LZ		M_S=6.2		19.0	4.55
LZH	176.0	52	ePKP	11	51 40.5	1.1		
			LE		M_S=5.7		24.0	2.18
XAN	179.0	293	ePKP	11	51 40.0	0.3		
			PKP2	11	53 30.0	−2.2		
			PP	11	57 27.0	−0.3		
			SKKS	12	04 10.0	2.6		

MAR 13d 12h 25m 41.1±0.11s, SD0.80/84
16.36 S±0.95km, 168.00 E±1.76km, h197±0.57km
Vanuatu (New Hebrides) (186)
m_B5.6/3, m_b5.3/1,

SSE	65.2	316	eP	12	36 02.5	−1.3		
QZN	67.1	299	eP	12	36 16.5	0.2		
NJ2	67.3	316	+P	12	36 18.0	0.5		
WHN	69.5	312	P	12	36 31.0	−0.1		
DL2	70.0	323	P	12	36 34.0	0.0		
MDJ	70.0	332	eP	12	36 34.2	0.1		
TIA	71.0	318	P	12	36 39.0	−1.0		
CN2	71.4	329	P	12	36 41.0	−1.3		
GYA	73.2	305	−P	12	36 53.0	−0.2		
BJI	74.0	321	eP	12	36 57.0	−0.4		
TIY	74.9	317	eP	12	37 03.4	0.4		
			pP	12	37 51.0	1.8		
			S	12	46 19.0	−2.6		
			LE				19.0	1.27
			LZ				25.0	1.52
XAN	75.3	313	−iP	12	37 05.0	−0.1		
KMI	75.8	302	−iP	12	37 09.5	1.7		
HHC	77.3	320	+P	12	37 16.8	0.7		
CD2	77.6	308	P	12	37 18.0	0.4		
			S	12	46 54.0	4.0		
BTO	78.1	319	eP	12	37 21.0	0.3		
			epP	12	38 08.0	0.8		
			eS	12	46 55.0	−2.7		
			LN				21.0	1.80
			LE				21.0	1.80
LZH	79.9	312	−iP	12	37 31.5	0.9		
			eS	12	47 12.0	−5.1		
			LN				20.0	2.40
GTA	84.3	314	−iP	12	37 53.8	0.8		
			S	12	47 56.5	−2.7		
			LN				17.0	1.70
			LZ				23.0	1.98
LSA	87.0	302	−P	12	38 06.2	−0.5		
WMQ	94.4	314	−iP	12	38 40.8	0.4		
			SKS	12	48 55.4	1.4		
KSH	101.8	308	eP	12	39 13.0	−1.1		
			eS	12	50 36.0	0.7		
			sS	12	52 04.0	4.5		
			LN				18.0	2.90

MAR 13d 12h 59m 14.6±0.13s, SD1.21/77
37.28 S±2.25km, 51.74 E±2.65km, h10±0.11km
South Indian Ocean (425)
M_S6.0/25, m_B6.1/11,

LSA	76.2	35	+P	13	11 05.2	−0.8		
			LN		M_S=6.0		25.0	6.00
QZN	78.3	55	eP	13	11 18.0	0.8		
			sP	13	11 29.0	3.8		
			S	13	21 12.5	2.5		
			sS	13	21 20.0	−0.6		
			SS	13	26 20.0	5.0		
			LN		M_S=5.9		19.0	2.90
			LE				19.0	2.20
KMI	78.4	46	eP	13	11 18.0	−0.4		
			sP	13	11 26.0	−0.2		
			S	13	21 15.0	3.2		
			LE		M_S=6.0		18.0	4.00
KSH	79.6	19	eP	13	11 25.5	0.9		
			PP	13	14 26.0	0.5		
			eS	13	21 29.0	3.1		
			LN		M_S=6.2		20.0	6.40
GYA	81.7	48	P	13	11 36.0	0.1		
			sP	13	11 43.0	−0.8		
			S	13	21 52.0	5.7		
			LN		M_S=5.9		16.0	1.80
			LE				16.0	2.10
GZH	83.4	55	+P	13	11 46.0	1.4		
CD2	83.5	43	P	13	11 44.8	0.0		
			eS	13	22 05.0	−0.7		
			LN		M_S=6.0		20.0	3.84
WMQ	87.1	25	eP	13	12 03.8	1.1		
			SKS	13	22 30.0	3.9		
			ScS	13	22 48.0	2.9		
			LN		M_S=6.4		18.0	6.35
			LE				18.0	5.20
			LZ		M_S=6.1		18.0	7.65
LZH	87.5	40	eP	13	12 05.0	0.0		
			PMZ		m_B=6.0		6.0	0.69
QZH	88.2	57	eP	13	12 11.0	3.0		
			PMZ		m_B=6.1		7.0	1.00
			SMN		m_B=5.9		8.0	0.90
			LN		M_S=5.8		20.0	2.20
GTA	88.2	35	eP	13	12 07.7	−0.5		
			SKS	13	22 39.0	5.7		
			LN		M_S=6.1		20.0	2.90
			LE				20.0	3.10
			LZ		M_S=5.8		20.0	3.90
XAN	88.7	44	P	13	12 10.6	0.1		
			S	13	23 00.0	5.9		
			SMN		m_B=6.3		9.0	0.83
			SME				10.0	2.50
			LE		M_S=5.9		20.0	2.74
WHN	89.3	50	eP	13	12 12.5	−1.0		
			sS	13	23 04.0	−6.8		
			LZ		M_S=5.7		20.0	3.20
NJ2	93.2	52	eP	13	12 26.0	−5.2		
TIY	93.3	44	eP	13	12 34.0	2.0		
			sP	13	12 43.5	3.6		

			LN		$M_S=6.0$	17.0	2.94
SSE	94.0	54	P	13 12 35.5	0.5		
			esP	13 12 46.0	3.0		
			PP	13 16 20.0	−2.9		
			LE		$M_S=5.9$	18.0	2.41
			LZ		$M_S=5.8$	20.0	3.24
BTO	94.1	40	eP	13 12 35.0	−0.7		
TIA	94.9	48	P	13 12 38.7	−0.7		
HHC	95.1	41	eP	13 12 40.6	0.4		
BJI	97.0	44	eP	13 12 48.0	−0.8		

MAR 13d 13h 05m 20.9 ± 0.09s, SD1.58 / 25
37.48 S ± 2.91km, 51.82 E ± 2.80km, h10 ± 0.21km
South Indian Ocean (425)

QZN	78.3	55	eP	13 17 19.6	−4.2		
KMI	78.5	46	−iP	13 17 26.0	0.8		
KSH	79.8	19	eP	13 17 33.5	1.8		
GYA	81.8	48	P	13 17 43.0	0.3		
WMQ	87.2	25	−iP	13 18 10.5	0.8		
GTA	88.3	35	eP	13 18 15.0	−0.1		

MAR 13d 13h 48m 30.5 ± 0.10s, SD2.30 / 29
42.29 N ± 1.63km, 75.45 E ± 1.45km, h33 ± 0.31km
Kirgiziya (716)
M_S4.2 / 2, M_L4.6 / 5,

KSH	2.8	172	Pn	13 49 14.5	0.9		
			Sn	13 49 52.0	4.6		
			LE			4.0	9.60
WMQ	9.1	76	eP	13 50 40.5	−2.3		
			SMN			1.2	0.070
			SME			1.0	0.11
GTA	18.6	91	eP	13 52 48.0	−0.2		
			LN		$M_S=4.4$	15.0	0.86
			LZ		$M_S=4.2$	14.0	0.83
LZH	22.8	96	eP	13 53 35.0	3.0		
TIY	28.5	87	eP	13 54 27.5	1.6		

MAR 13d 23h 27m 32.1 ± 0.17s, SD1.63 / 43
36.27 S ± 3.22km, 78.48 E ± 3.58km, h9 ± 0.17km
Mid-Indian Rise (429)
M_S5.4 / 7, m_B5.7 / 2,

QZN	62.5	34	eP	23 38 00.0	1.2		
			LN		$M_S=5.3$	16.0	1.00
KMI	65.2	24	eP	23 38 18.0	1.1		
			PcP	23 38 45.0	−3.2		
			SME		$m_B=5.6$	10.0	0.54
			LN		$M_S=5.5$	18.0	1.96
			LZ		$M_S=5.0$	36.0	1.64
LSA	66.7	12	eP	23 38 26.0	−0.6		
			S	23 47 20.0	4.5		
GYA	67.8	27	P	23 38 34.0	0.6		
			pP	23 38 43.6	4.9		
			S	23 47 35.0	5.9		
CD2	70.9	23	eP	23 38 51.6	−0.8		
WHN	74.5	32	eP	23 39 14.5	1.0		
XAN	75.5	26	P	23 39 18.0	−1.3		
			S	23 49 01.1	3.6		
			SMN		$m_B=5.8$	10.0	0.43
			SME			10.0	0.68
LZH	75.8	21	eP	23 39 21.0	0.1		
GTA	77.8	17	eP	23 39 31.4	−1.1		
TIY	80.0	27	eP	23 39 44.0	−0.5		
			S	23 49 44.0	−2.3		
			LN		$M_S=5.4$	18.0	1.10
			LZ		$M_S=5.3$	23.0	1.45
WMQ	80.1	7	P	23 39 44.0	−1.1		
			S	23 49 52.0	4.6		
			LN		$M_S=5.8$	26.0	3.54
			LZ		$M_S=5.5$	28.0	3.28
BTO	81.8	24	eP	23 39 54.0	0.2		
			S	23 50 08.0	3.5		

MAR 13d 23h 28m 51.2 ± 0.07s, SD1.25 / 34
13.73 N ± 2.67km, 88.84 W ± 2.38km, h87 ± km
El Salvador (73)
M_S5.8 / 1,

BJI	121.7	338	ePKP	23 47 36.0	−0.1		
WMQ	122.7	3	ePKP	23 47 37.5	−0.6		
GTA	126.5	352	PKP	23 47 45.6	0.0		
SSE	126.9	328	ePKP	23 47 47.5	1.3		
			LN		$M_S=5.8$	16.0	1.07
			LZ		$M_S=5.7$	16.0	1.14
XAN	129.6	341	PKP	23 47 52.0	0.6		
WHN	130.6	333	ePKP	23 47 54.0	0.6		
LSA	136.8	0	PKP	23 48 05.4	0.0		
GYA	137.3	339	PKP	23 48 07.2	1.3		

MAR 14d 02h 26m 38.9 ± 0.08s, SD1.49 / 28
24.96 N ± 1.27km, 62.90 E ± 1.24km, h32 ± 0.16km
Near coast of Pakistan (356)
M_S4.4 / 1,

KSH	18.2	34	eP	02 30 51.0	0.0		
			eS	02 34 08.0	−2.2		
			LN		$M_S=4.4$	12.0	0.80
WMQ	27.6	41	P	02 32 27.6	1.5		
GTA	34.1	56	P	02 33 24.8	1.2		
XAN	40.8	66	eP	02 34 17.7	−1.6		

MAR 14d 07h 29m 52.8 ± 0.12s, SD2.26 / 41
35.92 N ± 1.31km, 80.67 E ± 1.43km, h30 ± 0.19km
Kashmir–Tibet border region (304)
M_S4.2 / 4, M_L5.0 / 3,

KSH	5.2	315	ePn	07 31 13.5	4.4		
			eSn	07 32 14.0	4.3		
			LN			3.0	9.10
WMQ	9.6	32	P	07 32 10.3	−1.3		
			LN		$M_S=4.5$	9.0	1.95
LSA	10.8	122	eP	07 32 28.0	−0.8		
			LE		$M_S=4.3$	8.0	1.00
GTA	15.6	71	eP	07 33 36.5	4.6		
			LE		$M_S=4.0$	9.5	0.29
LZH	18.7	83	eP	07 34 11.5	−0.5		
CD2	19.9	98	eP	07 34 26.9	2.0		
KMI	21.8	113	−P	07 34 43.5	−1.2		
XAN	23.2	86	P	07 35 03.7	5.4		
BTO	23.5	70	eP	07 35 03.0	2.1		
TIY	25.4	76	eP	07 35 21.4	1.5		
			LZ		$M_S=4.4$	10.0	0.51

MAR 14d 10h 32m 45.1 ± 0.15s, SD1.91 / 38
14.41 S ± 2.91km, 73.38 W ± 2.55km, h72 ± 1.46km
Peru (116)

WMQ	146.5	25	PKP	10 52 19.0	1.1		
BJI	153.1	344	ePKP	10 52 28.0	0.0		
GTA	154.4	12	PKP	10 52 31.0	1.2		
XAN	160.3	354	PKP	10 52 38.0	0.8		
GYA	168.0	360	PKP	10 52 45.4	1.3		

MAR 14d 11h 40m 46.9 ± 0.39s, SD2.85 / 11
23.66 N ± 3.68km, 117.23 E ± 2.10km, h10 ± km
Near south-eastern coast of China (242)
M_L3.6 / 11,

QZH	1.8	44	ePn	11 41 16.0	−2.1		
			Pg	11 41 20.4	2.1		
			Sn	11 41 45.2	2.5		
			SMN		$M_L=3.3$	0.2	0.23

International Seismological Centre

			SME				0.3	0.37
GZH	3.6	262	ePg	11	41	53.8	3.0	
			Sg	11	42	38.6	−1.6	
			SMN			$M_L = 3.9$	0.8	0.36
			SME				0.7	0.23

MAR 14d 12h 29m 49.6 ± 0.15s, SD2.27 / 63
7.30 S ± 3.22km, 74.57 W ± 4.49km, h136 ± 0.97km
Northern Peru (111)

WMQ	140.5	20	ePKP	12	48	58.2	−5.8	
SNY	142.0	338	−PKP	12	49	00.4	−6.2	
DL2	145.3	338	−iPKP	12	49	11.3	−1.0	
BJI	146.0	345	−PKP	12	49	13.5	0.0	
HHC	146.2	352	PKP	12	49	15.0	1.1	
BTO	146.6	354	PKP	12	49	16.0	1.4	
GTA	147.6	8	ePKP	12	49	16.9	0.6	
TIY	149.1	349	PKP	12	49	19.3	0.7	
			sPKP	12	50	04.5	−4.0	
			PP	12	52	56.0	−0.7	
			LN				13.0	0.48
			LZ				15.0	0.47
TIA	149.3	341	PKP	12	49	18.8	−0.1	
SSE	152.1	330	PKP	12	49	29.7	6.6	
NJ2	152.4	335	−PKP	12	49	23.7	0.3	
XAN	153.2	354	PKP	12	49	25.0	0.3	
LSA	154.0	29	PKP	12	49	26.4	0.2	
WHN	155.4	341	ePKP	12	49	29.0	1.4	
CD2	156.5	4	ePKP	12	49	30.2	1.2	
GYA	160.9	357	PKP	12	49	34.8	0.4	

MAR 14d 18h 00m 26.4 ± 0.08s, SD0.88 / 48
52.28 S ± 1.53km, 123.80 E ± 1.61km, h10 ± 0.30km
South of Australia (437)

QZN	72.0	346	P	18	11	54.5	1.1	
KMI	79.2	341	+P	18	12	35.5	0.8	
WHN	82.9	352	−P	18	12	53.5	−0.1	
NJ2	84.1	356	−P	18	12	58.2	−1.5	
CD2	84.7	343	P	18	13	02.4	−0.4	
LSA	86.5	332	+P	18	13	11.3	−0.9	
XAN	86.9	348	+P	18	13	14.2	0.3	
TIA	88.3	355	P	18	13	20.9	0.4	
LZH	89.7	344	eP	18	13	27.5	0.2	
TIY	90.2	351	P	18	13	29.6	0.2	
BJI	92.2	354	+P	18	13	38.5	−0.1	
BTO	93.3	350	eP	18	13	43.0	−0.7	
HHC	93.4	351	+P	18	13	44.9	0.8	
GTA	93.7	342	+P	18	13	45.0	−0.6	
CN2	95.7	1	−P	18	13	54.6	−0.2	
MDJ	96.6	4	eP	18	13	57.5	−1.5	
WMQ	100.7	334	eP	18	14	16.0	−1.3	

MAR 14d 18h 40m 26.8 ± 0.07s, SD1.24 / 48
45.12 N ± 2.23km, 151.02 E ± 1.43km, h36 ± 0.39km
Kurile Islands region (222)
M_S4.4 / 3,

MDJ	15.2	276	eP	18	44	04.0	3.3	
			pP	18	44	08.0	−0.3	
			eS	18	46	54.0	5.6	
			LZ			$M_S = 4.3$	18.0	1.71
CN2	18.3	275	eP	18	44	38.0	−1.6	
SNY	20.1	270	eP	18	45	00.0	−0.9	
BJI	26.0	271	eP	18	46	00.0	1.3	
HHC	29.0	276	eP	18	46	25.4	−0.2	
TIY	29.7	269	P	18	46	32.4	0.8	
			LN			$M_S = 4.4$	13.0	0.40
			LZ			$M_S = 4.2$	22.0	0.65
BTO	30.2	276	eP	18	46	35.0	−1.1	
			esP	18	46	48.0	−2.1	
			eS	18	51	30.0	−1.7	
			LN			$M_S = 4.7$	16.0	0.30
			LE				16.0	0.80
			LZ			$M_S = 4.5$	16.0	0.80
WHN	32.1	256	eP	18	46	52.5	−0.7	
XAN	33.9	266	eP	18	47	08.2	−0.9	
LZH	36.5	273	eP	18	47	31.0	0.0	
GTA	37.8	280	P	18	47	41.2	−0.8	
KMI	43.5	259	eP	18	48	29.5	0.3	
WMQ	44.2	292	eP	18	48	35.2	0.8	
LSA	48.9	273	P	18	49	11.5	−0.6	

MAR 14d 19h 17m 02.7 ± 0.10s, SD1.41 / 73
49.71 N ± 2.60km, 156.37 E ± 1.56km, h61 ± 0.19km
Kurile Islands (221)
M_S4.9 / 8, m_B5.4 / 2, m_b5.0 / 1,

MDJ	18.9	265	eP	19	21	22.0	1.4	
			LZ			$M_S = 4.7$	24.0	4.42
SNY	24.0	263	eP	19	22	14.0	0.6	
			S	19	26	18.0	−4.3	
			LN			$M_S = 4.9$	32.0	3.57
			LE				32.0	1.15
BJI	29.8	267	eP	19	23	06.0	0.0	
SSE	32.2	248	eP	19	23	28.5	0.9	
			LN			$M_S = 4.8$	20.0	1.39
HHC	32.3	271	eP	19	23	27.5	−1.3	
BTO	33.5	272	eP	19	23	35.0	−3.6	
			esP	19	23	57.0	−2.2	
			eS	19	28	48.0	−6.5	
			LN			$M_S = 5.0$	15.0	1.00
			LE				15.0	0.90
			LZ			$M_S = 4.8$	15.0	1.40
TIY	33.5	266	P	19	23	38.5	−0.2	
			sS	19	29	24.0	4.6	
			LE			$M_S = 4.7$	14.0	0.73
			LZ			$M_S = 4.5$	20.0	1.00
WHN	36.8	255	eP	19	24	07.5	0.6	
			LZ			$M_S = 4.5$	20.0	0.76
XAN	38.0	264	eP	19	24	18.0	1.3	
LZH	40.0	271	eP	19	24	33.5	−0.3	
			PMZ			$m_b = 5.0$	2.0	0.049
GTA	40.7	278	P	19	24	38.6	−0.9	
			LE			$M_S = 5.2$	16.0	1.60
			LZ			$M_S = 5.0$	16.0	1.73
CD2	43.3	265	eP	19	25	01.0	0.2	
WMQ	45.9	290	P	19	25	21.4	−0.3	
KMI	47.9	260	+P	19	25	37.5	−0.1	
QZN	48.0	247	P	19	25	39.6	1.6	
			eS	19	32	34.0	3.8	
			sS	19	32	59.0	3.2	

MAR 14d 19h 27m 32.8 ± 0.09s, SD4.48 / 6
44.37 N ± 1.10km, 113.49 E ± 0.68km, h32 ± 1.02km
North−Eastern China (658)
M_L3.2 / 5,

HHC	3.8	203	ePg	19	28	44.0	3.7	
			SMN			$M_L = 3.4$	0.4	0.10
			SME				0.3	0.080
BTO	4.6	215	ePn	19	28	44.8	4.6	
			Pg	19	28	53.4	−0.1	
			Sg	19	29	49.2	−6.8	

MAR 14d 19h 28m 19.8 ± 0.11s, SD3.43 / 9
27.09 N ± 1.02km, 102.65 E ± 1.18km, h10 ± 0.25km
Sichuan Province (307)
M_L3.0 / 4,

KMI	2.0	177	Pg	19	28	55.5	0.8	
			Sg	19	29	23.0	1.9	

			SME		$M_L=3.0$		1.4	0.14
CD2	3.9	14	Pg	19 29 34.0		4.6		
			Sg	19 30 24.1		1.1		
			SMN		$M_L=3.3$		0.8	0.030
			SME				0.8	0.10
XAN	8.8	36	P	19 30 25.7		−4.5		

MAR 14d 20h 19m 02.5 ± 0.08s, SD1.40 / 26
30.02 N ± 1.24km, 67.84 E ± 1.40km, h15 ± 0.24km
Pakistan (710)
M_S4.3 / 2,

KSH	11.6	33	eP	20 21 50.0		−0.6		
			eS	20 23 57.0		−3.7		
			LE		$M_S=4.5$		10.0	1.90
LSA	20.2	85	P	20 23 40.0		−0.5		
WMQ	20.9	43	eP	20 23 48.5		0.7		
GTA	27.8	62	P	20 24 54.4		0.9		
KMI	31.2	90	−P	20 25 25.0		0.5		
XAN	34.9	73	eP	20 25 56.0		0.0		

MAR 15d 04h 23m 40.8 ± 0.12s, SD2.62 / 32
36.92 N ± 2.13km, 73.13 E ± 1.98km, h72 ± 0.82km
Afghanistan–USSR border region (717)
M_S4.3 / 3,

KSH	3.4	39	eP	04 24 35.0		1.8		
			S	04 25 17.0		4.9		
GTA	21.1	75	eP	04 28 21.6		−0.2		
			LE		$M_S=4.3$		8.5	0.33
LZH	24.7	83	eP	04 29 01.5		5.0		
XAN	29.2	85	eP	04 29 37.5		−0.5		
GYA	30.2	100	eP	04 29 49.2		1.8		

MAR 15d 09h 25m 06.4 ± 0.71s, SD1.22 / 60
12.29 N ± 7.24km, 143.17 E ± 7.19km, h5 ± km
South of the Marianas (210)
M_S5.3 / 30, m_B5.5 / 6,

SSE	27.6	316	eP	09 30 54.0		−3.1		
			LN		$M_S=4.9$		14.0	1.54
			LZ		$M_S=5.0$		20.0	4.17
WHN	32.2	309	−P	09 31 41.0		2.5		
			LE		$M_S=5.2$		13.0	1.94
			LZ		$M_S=5.0$		20.0	3.18
DL2	32.7	328	eP	09 31 40.0		−2.3		
			LN		$M_S=5.0$		14.0	1.37
QZN	32.7	286	eP	09 31 40.0		−2.8		
			PP	09 32 50.0		−1.4		
			S	09 36 58.0		−0.3		
			LE		$M_S=4.9$		15.0	1.20
TIA	33.4	320	eP	09 31 47.6		−1.1		
			LN		$M_S=5.4$		21.0	3.43
			LE				15.0	2.05
SNY	34.0	333	+P	09 31 54.0		0.0		
			eS	09 37 18.0		−1.2		
			SMN				24.0	8.56
			SME				25.0	1.44
			LN		$M_S=5.3$		16.0	2.11
			LE				17.0	1.86
			LZ		$M_S=5.2$		16.0	4.00
MDJ	34.2	343	+P	09 31 55.0		−0.9		
			LZ		$M_S=5.2$		22.0	5.00
CN2	34.9	337	+P	09 32 02.0		0.4		
			pP	09 32 08.0		1.8		
			PP	09 33 19.0		0.4		
			eS	09 37 33.0		0.1		
			LN		$M_S=5.3$		14.0	2.20
			LZ		$M_S=5.2$		17.0	3.70
BJI	36.5	324	eP	09 32 14.5		−0.3		
			LN		$M_S=5.4$		16.0	2.45
			LE				17.0	2.98
			LZ		$M_S=5.3$		19.0	4.49
GYA	37.1	298	P	09 32 20.4		0.5		
TIY	37.3	318	−iP	09 32 22.9		0.8		
			pP	09 32 28.0		1.3		
			PP	09 33 53.5		4.6		
			LN		$M_S=5.5$		14.0	3.07
			LZ		$M_S=5.0$		18.0	2.42
XAN	37.9	311	P	09 32 26.0		−1.1		
			LE		$M_S=5.4$		20.2	3.66
HHC	39.7	322	eP	09 32 42.6		0.5		
			PP	09 34 12.0		−4.7		
			PcS	09 38 40.0		2.7		
			LN		$M_S=5.3$		17.0	1.40
			LE				18.0	2.20
KMI	40.2	294	eP	09 32 47.0		0.7		
			LE		$M_S=5.2$		18.0	2.10
			LZ		$M_S=5.2$		20.0	3.10
BTO	40.5	320	eP	09 32 49.0		0.3		
			pP	09 32 54.0		0.7		
			ePP	09 34 28.0		3.2		
			LN		$M_S=5.3$		16.0	1.40
			LE				16.0	1.40
			LZ		$M_S=5.0$		16.0	1.90
CD2	40.8	303	eP	09 32 50.7		−0.2		
			LE		$M_S=5.2$		11.0	1.20
LZH	42.6	311	eP	09 33 06.0		0.4		
			eS	09 39 27.0		−2.0		
			LN		$M_S=5.4$		16.0	2.50
GTA	46.8	313	P	09 33 39.4		−0.3		
			S	09 40 28.0		−1.0		
			SMN		$m_B=5.2$		9.0	0.35
			LN		$M_S=5.1$		15.5	1.07
			LZ		$M_S=5.0$		20.0	1.75
LSA	51.1	298	P	09 34 12.1		−1.3		
WMQ	56.8	315	eP	09 34 54.1		−0.9		
			LN		$M_S=5.7$		20.0	2.31
			LE				20.0	2.97
			LZ		$M_S=5.5$		20.0	3.55
KSH	64.8	308	eP	09 35 49.5		0.5		
			LE		$M_S=5.6$		16.0	2.00

MAR 15d 15h 55m 24.7 ± 0.10s, SD1.92 / 27
42.35 N ± 1.46km, 75.50 E ± 1.48km, h34 ± 0.33km
Kirgiziya (716)
M_L4.5 / 5,

KSH	2.8	173	P	15 56 09.5		0.5		
			sP	15 56 21.0		0.4		
			S	15 56 45.0		2.9		
			LE				3.0	8.50
WMQ	9.1	77	eP	15 57 34.8		−1.4		
			SMN				1.0	0.070
			SME				1.2	0.10
LSA	17.8	130	eP	15 59 31.5		−1.1		
GTA	18.6	91	eP	15 59 40.5		−1.3		
LZH	22.8	96	eP	16 00 26.0		0.3		

MAR 15d 20h 22m 29.4 ± 0.10s, SD1.16 / 46
13.31 N ± 1.15km, 124.93 E ± 1.79km, h54 ± 0.25km
Samar (251)

WHN	19.7	332	eP	20 27 01.6		4.0		
			LZ		$M_S=4.4$		16.0	1.20
GYA	21.6	310	P	20 27 17.6		1.1		
KMI	24.0	303	+P	20 27 41.0		0.6		
XAN	25.2	328	+P	20 27 51.5		−0.9		
CD2	26.2	315	eP	20 28 00.8		−0.6		
TIY	26.7	338	eP	20 28 06.1		−0.1		
BJI	27.7	345	eP	20 28 14.0		−1.1		

International Seismological Centre

GTA	34.2	324	P	20 29 11.6	−0.4		
LSA	35.2	303	+P	20 29 20.8	−0.8		
WMQ	44.0	321	eP	20 30 33.5	−0.6		

MAR 15d 20h 28m 46.3 ± 0.06s, SD1.19 / 37
28.32 N ± 1.22km, 130.40 E ± 0.95km, h52 ± 0.64km
Ryukyu Islands (238)
M_S4.4 / 1,

SSE	8.5	291	eP	20 30 48.5	−0.7		
			LZ	M_S = 3.8		16.0	0.89
NJ2	10.7	293	+P	20 31 20.0	0.8		
CN2	15.9	347	P	20 32 31.2	2.2		
BJI	16.6	319	eP	20 32 37.5	0.8		
TIY	17.7	306	−iP	20 32 53.5	2.3		
			S	20 36 06.5	3.4		
			LE	M_S = 4.4		11.0	0.68
			LZ	M_S = 4.2		16.0	0.95
XAN	19.2	293	+P	20 33 07.9	−1.3		
BTO	20.7	311	eP	20 33 23.2	−2.1		
QZN	20.9	248	eP	20 33 28.6	1.2		
GYA	21.1	271	P	20 33 30.2	0.6		
CD2	23.3	283	eP	20 33 51.2	0.6		
LZH	23.7	296	eP	20 33 55.0	0.1		
KMI	24.9	269	−P	20 34 07.0	0.7		
GTA	27.6	302	eP	20 34 29.6	−1.5		

MAR 15d 23h 51m 54.1 ± 0.48s, SD2.10 / 18
24.45 N ± 2.78km, 122.07 E ± 3.40km, h11 ± 0.17km
Taiwan (244)
M_L3.7 / 14,

QZH	3.2	279	iPn	23 52 45.7	0.9		
			Sn	23 53 19.5	−5.4		
			SMN	M_L = 3.6		0.2	0.24
			SME			0.2	0.19
SSE	6.7	353	eP	23 53 34.5	−0.1		
			SME	M_L = 3.6		0.8	0.035
NJ2	8.1	340	−P	23 53 53.6	−0.8		
			S	23 55 21.6	−4.9		
			LN			0.8	0.030
WHN	9.2	313	eP	23 54 07.5	−1.8		
GYA	14.1	281	P	23 55 15.6	−0.4		

MAR 15d 23h 56m 12.9 ± 0.13s, SD1.42 / 32
57.10 N ± 2.01km, 142.76 W ± 1.41km, h12 ± 0.56km
Gulf of Alaska (15)

CN2	55.6	299	−P	24 05 50.4	−0.6
SNY	58.0	298	eP	24 06 06.0	−2.1
BJI	62.8	302	eP	24 06 40.5	−1.0
BTO	65.2	307	eP	24 06 56.0	−0.8
TIY	66.4	303	eP	24 07 09.5	4.6
GTA	70.4	313	eP	24 07 29.2	−0.6
WMQ	70.9	324	P	24 07 33.0	0.1
XAN	71.1	304	eP	24 07 32.8	−0.9
LZH	71.6	308	eP	24 07 37.0	0.1
GYA	78.5	301	P	24 08 16.8	0.3
LSA	82.3	315	eP	24 08 38.2	0.9

MAR 16d 00h 37m 50.3 ± 0.10s, SD1.84 / 30
24.67 N ± 2.01km, 125.86 E ± 1.90km, h64 ± 0.99km
South−western Ryukyu Islands (246)
M_S4.5 / 2,

TIY	17.3	322	eP	00 41 52.0	2.3		
			LE	M_S = 4.5		11.0	0.93
BJI	17.4	334	eP	00 41 50.5	0.6		
GYA	17.4	280	P	00 41 52.6	1.8		
HHC	20.1	327	+P	00 42 21.9	0.4		
CD2	20.5	293	−iP	00 42 24.8	−1.1		
BTO	20.7	324	eP	00 42 27.0	−0.9		
KMI	21.0	276	+P	00 42 30.5	−0.4		
GTA	26.4	310	P	00 43 22.3	−1.0		

MAR 16d 00h 44m 47.0 ± 0.14s, SD1.65 / 53
3.52 S ± 1.46km, 146.56 E ± 2.48km, h17 ± 0.31km
Eastern New Guinea region (207)
M_S5.7 / 25, m_B5.7 / 5,

SSE	42.1	327	eP	00 52 42.5	2.4		
			LN	M_S = 5.8		16.0	4.29
			LE			16.0	4.32
			LZ	M_S = 5.8		20.0	13.0
QZN	42.5	303	eP	00 52 44.6	0.9		
			PcP	00 54 35.0	−1.1		
			eS	00 59 06.0	0.9		
			sS	00 59 19.0	2.9		
			eSS	01 02 12.5	4.3		
			LN	M_S = 5.5		15.0	1.80
			LE			16.0	2.20
NJ2	44.1	325	eP	00 53 00.0	3.5		
			LN	M_S = 5.7		14.0	2.36
			LE			14.0	3.51
			LZ	M_S = 5.4		18.0	4.18
WHN	45.7	320	eP	00 53 10.5	0.7		
			S	00 59 53.0	1.9		
			sS	01 00 00.0	−3.2		
			LE	M_S = 5.7		10.0	2.87
			LZ	M_S = 5.6		20.0	6.36
TIA	48.1	328	eP	00 53 27.5	−1.3		
			S	01 00 30.5	5.3		
			SMN	m_B = 5.7		11.0	0.94
			SME			11.0	0.51
			LN	M_S = 5.7		16.0	2.30
			LE			16.0	3.90
			LZ	M_S = 5.4		16.0	3.10
MDJ	50.3	344	eP	00 53 48.0	2.9		
			S	01 00 58.0	3.3		
			LZ	M_S = 5.4		32.0	6.56
CN2	50.8	340	eP	00 53 50.0	1.0		
			sP	00 53 56.5	−2.1		
			eS	01 01 06.0	3.0		
			LN	M_S = 5.8		16.0	3.50
			LE			20.0	4.80
KMI	51.2	306	eP	00 53 54.5	2.4		
			LN	M_S = 5.5		18.0	2.40
			LZ	M_S = 5.3		20.0	2.80
XAN	51.5	320	−P	00 53 53.3	−1.2		
			LN	M_S = 5.6		16.0	1.44
			LE			15.0	2.66
BJI	51.5	330	eP	00 53 54.0	−0.7		
			eS	01 01 14.0	0.7		
			LN	M_S = 5.6		18.0	3.16
			LZ	M_S = 5.5		20.0	4.43
CD2	53.2	313	eP	00 54 07.0	−0.6		
			S	01 01 40.0	4.4		
			LN	M_S = 5.3		13.0	1.03
			LZ	M_S = 4.9		18.0	1.10
HHC	54.5	328	eP	00 54 17.3	0.4		
			sP	00 54 29.5	3.0		
			eS	01 01 56.0	2.0		
			sS	01 02 07.0	2.1		
			SMN	m_B = 5.9		5.0	0.41
			SME			5.0	0.56
			LE	M_S = 5.7		17.0	3.20
BTO	55.2	326	eP	00 54 21.0	−0.7		
			pP	00 54 25.0	−3.3		
			eS	01 02 02.0	−0.9		
			sS	01 02 10.0	−3.7		
			SS	01 05 47.0	1.8		

			LN		$M_S=5.7$		17.0	2.50
			LE				17.0	1.90
			LZ		$M_S=5.3$		17.0	2.40
LZH	56.1	319	eP	00 54 28.0		−0.2		
			sP	00 54 43.5		5.8		
			LN		$M_S=5.7$		20.0	3.61
			LE				15.0	1.73
GTA	60.6	320	P	00 54 58.5		−1.3		
			eS	01 03 14.0		0.2		
			LN		$M_S=5.8$		15.5	1.54
			LE				17.0	3.07
WMQ	70.6	319	P	00 56 03.8		−0.6		
			S	01 05 18.0		2.8		
			LN		$M_S=5.9$		16.0	2.34
			LE				18.0	2.56
			LZ		$M_S=5.4$		20.0	2.44

MAR 16d 05h 30m 13.1±0.64s, SD2.74/11
24.06 N±4.06km, 122.65 E±4.29km, h12±0.12km
Taiwan region (243)
M_L3.9/13,

QZH	3.8	284	ePn	05 31 12.5		0.6		
			Pg	05 31 23.0		2.8		
			SMN		$M_L=3.9$		1.0	0.35
			SME				1.0	0.24
SSE	7.1	350	eP	05 32 00.0		0.0		
			SME		$M_L=3.7$		1.0	0.031

MAR 16d 05h 48m 04.2±0.31s, SD1.83/93
10.35 N±3.47km, 60.63 W±2.10km, h53±2.26km
Near coast of Venezuela (97)
M_S5.8/1, m_B6.2/1,

WMQ	118.9	26	ePKP	06 06 48.0		0.4		
CN2	125.8	355	ePKP	06 07 01.0		0.1		
			ePP	06 08 52.0		−5.4		
			LZ		$M_S=5.6$		23.0	1.60
GTA	127.3	19	PKP	06 07 04.8		0.9		
			ePP	06 09 07.4		1.2		
			LN		$M_S=5.8$		20.0	1.16
			LZ		$M_S=5.6$		24.0	1.35
SNY	127.9	356	−PKP	06 07 06.2		1.2		
HHC	128.6	8	PKP	06 07 08.2		1.8		
BTO	128.6	9	PKP	06 07 07.8		1.4		
BJI	129.8	3	ePKP	06 07 09.5		1.0		
			ePP	06 09 24.0		0.9		
			eSS	06 26 44.0		4.0		
DL2	131.0	358	ePKP	06 07 12.5		1.7		
LZH	131.6	17	PKP	06 07 13.5		1.4		
TIY	131.8	7	PKP	06 07 14.0		1.6		
			sPKP	06 07 29.0		−4.8		
			PPMZ		$m_B=6.2$		5.0	0.64
			SS	06 27 10.0		5.6		
TIA	133.6	3	ePKP	06 07 15.9		−0.1		
XAN	134.8	12	ePKP	06 07 19.1		1.1		
CD2	136.3	20	ePKP	06 07 22.2		1.3		
NJ2	137.8	1	−PKP	06 07 22.5		−1.1		
SSE	138.8	358	ePKP	06 07 25.7		0.4		
			ePP	06 10 20.0		−0.1		
			SKKS	06 17 04.0		0.5		
			eSS	06 28 24.0		−2.8		
			LZ		$M_S=5.5$		20.0	0.93
WHN	139.1	7	ePKP	06 07 27.5		1.7		
			PKS	06 11 01.2		2.0		
			LZ		$M_S=5.7$		20.0	1.30
KMI	141.2	24	ePKP	06 07 32.0		2.0		
			sPKP	06 07 48.0		−3.1		
			ePP	06 10 34.0		−0.7		
			LZ		$M_S=5.4$		20.0	0.70
GYA	141.4	18	PKP	06 07 26.6		−3.6		
QZH	144.9	1	PKP	06 07 37.5		1.4		
GZH	146.3	10	PKP	06 07 41.2		2.8		
QZN	149.3	18	PKP	06 07 46.2		2.8		
			PP	06 11 26.0		3.8		
			SKKS	06 18 06.0		1.2		
			SS	06 30 28.0		−0.2		

MAR 16d 10h 44m 23.8±0.06s, SD1.03/48
1.10 S±0.98km, 99.90 E±1.22km, h79±0.55km
Southern Sumatera (274)

QZN	22.3	26	eP	10 49 17.6	2.0
KMI	26.2	6	eP	10 49 53.0	−0.7
GYA	28.2	13	P	10 50 12.0	0.6
LSA	31.7	345	+P	10 50 42.6	−0.8
XAN	36.0	13	eP	10 51 17.4	−1.9
GTA	40.3	360	P	10 51 55.2	−0.4
BJI	43.6	18	eP	10 52 21.0	−1.1
WMQ	46.0	348	P	10 52 43.8	1.9
CN2	50.2	24	−P	10 53 13.4	−0.9
MDJ	52.6	26	eP	10 53 33.5	1.0

MAR 16d 12h 11m 06.5±0.10s, SD0.77/70
17.66 S±1.07km, 175.02 W±1.06km, h262±0.63km
Tonga (173)

QZH	77.3	301	eP	12 22 34.6	0.3
SSE	78.1	308	eP	12 22 38.7	−0.1
NJ2	80.3	308	−P	12 22 50.8	0.2
DL2	81.7	315	eP	12 22 58.0	0.4
CN2	81.8	321	−P	12 22 58.4	−0.2
SNY	81.9	318	−P	12 22 58.7	−0.2
WHN	83.1	305	eP	12 23 05.5	0.5
TIA	83.5	311	P	12 23 06.7	−0.4
BJI	85.9	314	eP	12 23 19.0	0.0
			epP	12 24 23.0	2.2
TIY	87.5	311	eP	12 23 27.4	0.5
			S	12 33 37.5	−5.1
GYA	87.7	299	+P	12 23 29.2	1.3
XAN	88.7	306	+iP	12 23 33.1	0.8
HHC	89.4	313	+P	12 23 35.2	−0.7
BTO	90.4	313	eP	12 23 41.0	0.6
KMI	90.6	296	+P	12 23 43.0	1.5
CD2	91.7	302	eP	12 23 46.8	0.6
LZH	93.3	307	eP	12 23 54.5	0.6
GTA	97.4	309	P	12 24 12.2	−0.2

MAR 16d 18h 36m 39.4±0.10s, SD2.98/9
41.31 N±1.02km, 80.54 E±0.85km, h22±0.32km
Southern Xinjiang Province (321)
M_L3.5/6,

KSH	4.0	245	ePg	18 37 48.5	−1.1		
			Sg	18 38 46.5	3.0		
			SMN	$M_L=3.5$		0.3	0.10
			SME			0.4	0.10
WMQ	5.9	62	ePn	18 38 08.6	3.1		
			Sn	18 39 14.0	0.0		
			Sg	18 39 45.2	2.4		
			SMN	$M_L=3.4$		0.7	0.030
			SME			0.6	0.030

MAR 16d 22h 55m 25.8±0.06s, SD2.74/23
20.33 S±2.17km, 68.39 W±1.10km, h110±km
Chile–Bolivia border region (124)

KSH	144.0	50	ePKP	23 14 54.0	4.5
WMQ	149.2	35	PKP	23 15 03.0	4.6
GTA	158.4	26	PKP	23 15 10.6	−0.6

MAR 17d 03h 44m 28.3±0.13s, SD3.63/5

International Seismological Centre

32.56 N ± 0.73km, 121.64 E ± 1.12km, h28 ± 0.79km
Eastern China (664)
M_L3.0 / 5,

SSE	1.5	195	ePn	03 44 53.2	−0.8			
			Pg	03 44 55.8	0.4			
			Sn	03 45 11.3	−3.0			
			Sg	03 45 12.0	−4.3			
			SMN	M_L = 3.1		0.4	0.17	
			SME			0.5	0.35	
NJ2	2.4	259	+Pg	03 45 09.4	−1.7			
			Sg	03 45 41.0	−3.3			
			SMN	M_L = 3.0		0.1	0.090	
			SME			0.1	0.080	

MAR 17d 08h 45m 44.5 ± 0.09s, SD0.88 / 27
18.16 S ± 1.55km, 179.24 W ± 1.63km, h628 ± 0.36km
Fiji region (181)

MDJ	77.9	325	eP	08 56 41.5	0.1			
CN2	79.7	323	eP	08 56 50.0	−0.9			
BJI	83.4	316	eP	08 57 09.0	−0.5			
TIY	84.8	312	+P	08 57 17.2	0.6			
			pP	08 59 32.0	3.8			
XAN	85.8	308	−P	08 57 21.0	−0.1			
LZH	90.4	308	eP	08 57 43.5	0.7			

MAR 17d 10h 06m 41.5 ± 0.76s, SD2.45 / 14
10.47 N ± 9.42km, 120.52 E ± 3.85km, h33 ± km
Sulu Sea (253)

CD2	25.6	325	eP	10 12 10.6	0.6			
XAN	25.8	337	eP	10 12 14.9	3.6			
			LZ	M_S = 4.1		11.0	0.28	
LZH	29.7	332	eP	10 12 46.5	−0.3			
SNY	31.3	4	eP	10 13 00.3	−1.4			
MDJ	34.9	11	eP	10 13 34.2	1.6			

MAR 17d 10h 23m 06.7 ± 0.08s, SD1.25 / 58
10.11 S ± 1.39km, 154.15 E ± 1.87km, h35 ± 0.30km
D'Entrecasteaux Islands region (194)
M_S5.0 / 3, m_b5.2 / 1,

SSE	51.7	324	eP	10 32 16.0	2.6			
			eS	10 39 35.0	3.3			
			LZ	M_S = 4.8		20.0	0.93	
WHN	55.6	318	eP	10 32 43.0	0.9			
			sP	10 32 56.0	0.1			
			eS	10 40 26.0	1.7			
			LZ	M_S = 5.0		28.0	1.72	
TIA	57.8	325	eP	10 32 56.8	−0.6			
			LN	M_S = 4.7		30.0	0.37	
			LE			30.0	0.49	
			LZ	M_S = 4.6		30.0	0.81	
GYA	58.7	309	P	10 33 04.6	0.5			
BJI	61.0	327	eP	10 33 20.0	0.1			
			eS	10 41 40.0	5.1			
KMI	61.1	306	eP	10 33 21.0	0.4			
			sP	10 33 35.0	0.8			
			LZ	M_S = 4.8		20.0	0.70	
XAN	61.4	318	eP	10 33 21.7	−0.7			
			S	10 41 45.0	6.7			
CD2	63.2	312	eP	10 33 32.5	−2.1			
HHC	64.1	325	P	10 33 40.0	−0.5			
BTO	64.8	324	eP	10 33 47.0	1.8			
LZH	66.0	317	P	10 33 53.0	0.5			
			PMZ	m_b = 5.2		2.5	0.070	
GTA	70.5	318	P	10 34 20.4	0.0			
LSA	72.4	306	P	10 34 31.0	−1.2			
WMQ	80.5	318	+iP	10 35 18.7	0.8			

MAR 17d 12h 02m 41.7 ± 0.32s, SD2.93 / 37
5.71 S ± 5.89km, 77.19 W ± 9.02km, h7 ± 2.00km
Northern Peru (111)
M_S6.4 / 3,

BTO	144.7	350	ePKP	12 22 18.0	−2.5			
GTA	146.3	4	PKP	12 22 22.3	−1.1			
TIY	147.0	346	ePKP	12 22 25.3	0.9			
			PP	12 25 51.0	−2.3			
SSE	149.4	328	ePKP	12 22 30.5	2.3			
			LN	M_S = 6.7		8.0	2.28	
			LE			6.0	2.36	
			LZ	M_S = 6.2		12.0	1.90	
LZH	149.8	358	PKP	12 22 33.0	4.0			
NJ2	149.8	332	−PKP	12 22 32.5	3.6			
XAN	151.2	349	+PKP	12 22 35.3	4.2			
WHN	153.0	338	PKP	12 22 37.0	3.4			
QZH	155.6	323	ePKP	12 22 32.7	−4.4			
			LN	M_S = 6.4		8.0	1.76	

MAR 17d 12h 19m 56.9 ± 0.12s, SD1.25 / 47
17.54 S ± 1.15km, 178.38 W ± 1.55km, h554 ± 1.07km
Fiji region (181)

NJ2	77.7	309	−P	12 31 01.6	2.9			
MDJ	77.9	325	eP	12 31 00.0	0.3			
CN2	79.7	322	eP	12 31 09.0	−0.4			
BJI	83.5	315	eP	12 31 29.0	0.3			
GYA	84.9	300	P	12 31 36.0	0.6			
TIY	85.0	312	+P	12 31 37.0	0.8			
			SKS	12 41 10.0	4.3			
			S	12 41 17.5	−0.6			
			sS	12 44 51.0	1.3			
XAN	86.1	307	P	12 31 41.5	0.5			
HHC	87.0	314	eP	12 31 46.8	1.1			
BTO	88.0	314	eP	12 31 52.7	2.6			
LZH	90.7	308	eP	12 31 57.5	−5.2			
GTA	94.8	310	eP	12 32 21.7	0.1			

MAR 17d 13h 58m 03.5 ± 0.06s, SD1.49 / 33
41.43 N ± 1.60km, 142.10 E ± 1.21km, h75 ± 0.90km
Near east coast of Honshu (228)
M_S5.3 / 1,

MDJ	9.7	293	eP	14 00 24.1	1.6			
CN2	12.5	286	P	14 01 01.5	1.3			
BJI	19.7	275	eP	14 02 27.0	−2.3			
GTA	32.0	281	eP	14 04 24.6	−1.0			
GYA	32.7	254	P	14 04 32.4	0.8			
WMQ	39.5	292	P	14 05 29.5	0.7			

MAR 17d 15h 36m 23.7 ± 0.08s, SD1.38 / 43
21.34 S ± 2.10km, 173.83 W ± 1.96km, h41 ± 0.86km
Tonga (173)

MDJ	83.5	323	eP	15 48 49.2	−0.1			
CN2	85.4	321	+P	15 48 59.0	0.2			
			epP	15 49 15.4	5.3			
SNY	85.4	318	eP	15 48 58.3	−0.6			
WHN	86.1	305	eP	15 49 03.5	1.2			
TIA	86.7	311	P	15 49 06.0	0.5			
BJI	89.2	314	eP	15 49 18.0	0.5			
GYA	90.5	298	P	15 49 25.2	1.8			
TIY	90.8	310	eP	15 49 25.7	0.9			
XAN	91.8	306	−P	15 49 30.0	0.7			
			sP	15 49 49.5	4.4			
HHC	92.7	313	eP	15 49 35.0	1.0			
BTO	93.7	312	eP	15 49 39.0	0.7			

MAR 17d 20h 34m 27.5 ± 0.07s, SD1.43 / 102
35.64 N ± 1.38km, 139.68 E ± 1.49km, h105 ± 0.74km
Near south coast of Honshu (230)
m_B5.8 / 10,

International Seismological Centre

MDJ	11.8	322	+P	20 37 15.0	1.0		
			S	20 39 29.0	5.2		
			ScS	20 49 54.0	3.8		
			LZ			18.0	12.6
CN2	13.6	311	eP	20 37 38.0	0.2		
			eS	20 40 12.0	4.8		
			LN			20.0	10.2
SNY	14.0	301	−P	20 37 44.7	2.3		
			S	20 40 22.0	6.9		
			LN			12.0	6.94
			LE			18.0	2.05
DL2	14.7	288	P	20 37 54.0	2.1		
			S	20 40 39.0	6.5		
			SMN	$m_B = 6.0$		8.0	5.38
			SME			8.0	2.17
			LN			10.0	3.95
SSE	16.1	259	P	20 38 11.6	2.5		
			eS	20 41 09.0	4.9		
			LE			10.0	5.86
			LZ			12.0	8.57
NJ2	17.7	264	−P	20 38 28.2	−0.2		
			LN			7.0	1.44
			LE			9.0	3.09
TIA	18.3	278	eP	20 38 34.8	−0.8		
			pP	20 38 53.0	2.3		
			SMN	$m_B = 5.8$		9.0	2.50
			SME			9.0	0.92
			LN			12.0	1.80
			LE			12.0	5.80
			LZ			12.0	4.30
BJI	19.1	290	eP	20 38 42.5	−1.8		
			ePP	20 39 00.0	−5.4		
			eS	20 42 06.0	−3.8		
QZH	21.1	245	eP	20 39 04.0	−1.0		
			pP	20 39 25.0	−1.2		
			PP	20 39 38.0	5.1		
			S	20 42 49.5	1.7		
			SS	20 43 28.0	−0.3		
			LN			16.0	2.67
WHN	21.8	264	eP	20 39 12.5	0.2		
			pP	20 39 30.6	−3.2		
			S	20 43 05.0	3.8		
			SME	$m_B = 5.5$		10.0	1.23
			SS	20 43 40.0	−6.7		
			LN			8.0	3.75
			LZ			18.0	4.91
TIY	21.9	283	eP	20 39 13.5	−0.2		
			pP	20 39 32.0	−3.2		
			PPMZ			6.0	2.41
			S	20 43 09.0	5.5		
			SS	20 43 54.0	4.2		
			LN			12.0	2.61
			LE			12.0	2.97
			LZ			16.0	6.78
HHC	22.6	292	P	20 39 19.1	−1.6		
			pP	20 39 38.0	−4.4		
			S	20 43 22.0	6.0		
			SS	20 44 08.2	1.5		
			LN			13.0	1.93
			LE			12.0	2.60
BTO	23.8	291	eP	20 39 31.0	−0.8		
			pP	20 39 49.0	−4.9		
			eS	20 43 40.5	3.5		
			SS	20 44 33.0	−1.2		
			LN			14.0	2.00
			LE			12.0	2.20
			LZ			12.0	2.20
XAN	25.2	275	−P	20 39 44.7	−1.0		
			PP	20 40 23.5	−5.0		
			S	20 44 00.0	−0.5		
			ScP	20 46 47.5	2.8		
			LN			13.6	3.51
			LE			9.0	1.03
GZH	26.0	248	+P	20 39 54.6	1.5		
			pP	20 40 14.0	−1.6		
			eS	20 44 11.0	−3.5		
			LE			9.0	1.87
LZH	28.9	282	P	20 40 18.5	−1.1		
			pP	20 40 37.5	−4.7		
			eS	20 45 01.0	−0.6		
			LN			10.0	1.14
			LE			15.0	2.60
GYA	29.6	261	P	20 40 23.6	−1.9		
			pP	20 40 46.0	−2.3		
			S	20 45 18.0	7.0		
			ScS	20 50 53.0	1.5		
			LN			12.0	1.80
			LE			12.0	2.10
CD2	30.3	271	eP	20 40 31.0	−0.4		
			S	20 45 25.0	3.3		
			LE			10.0	2.80
			LZ			20.0	3.60
QZN	31.1	246	eP	20 40 40.5	2.2		
			S	20 45 37.0	3.0		
			LN			15.0	1.90
			LE			14.0	1.00
GTA	31.7	289	eP	20 40 42.7	−0.8		
			S	20 45 44.0	0.8		
			LE			11.0	1.67
			LZ			11.0	1.90
KMI	33.4	262	+P	20 40 57.0	−1.4		
			pP	20 41 19.0	−2.5		
			LZ			16.0	3.20
WMQ	40.2	298	P	20 41 57.5	1.6		
			S	20 47 57.0	2.8		
			LN			20.0	3.45
LSA	40.9	276	P	20 42 02.0	−0.2		
			pP	20 42 24.0	−1.6		
			LE			11.0	10.0
KSH	49.7	295	P	20 43 13.5	1.7		
			LE			11.0	2.00

MAR 18d 00h 54m 45.0 ± 0.06s, SD0.93 / 25
13.81 N ± 1.01km, 144.97 E ± 1.50km, h145 ± 0.43km
Marianas **(216)**

SSE	27.8	312	eP	01 00 22.5	−0.4
BJI	36.3	321	eP	01 01 37.0	0.1
TIY	37.4	315	eP	01 01 46.5	0.2
XAN	38.3	308	eP	01 01 53.5	−0.2
GTA	47.1	311	P	01 03 04.9	0.2
WMQ	57.0	313	eP	01 04 19.0	0.3

MAR 18d 13h 54m 17.7 ± 0.09s, SD1.39 / 51
9.07 N ± 1.03km, 126.52 E ± 1.64km, h55 ± 0.73km
Mindanao **(259)**

QZN	18.9	303	eP	13 58 38.0	0.8
			eS	14 02 06.0	3.5
SSE	22.5	348	+P	13 59 14.3	0.7
			pP	13 59 25.8	−0.3
			eS	14 03 08.0	−3.5
			sS	14 03 30.0	−2.7
NJ2	23.9	344	+P	13 59 29.0	1.0
WHN	24.2	334	eP	13 59 31.0	0.6
XAN	29.7	329	eP	14 00 18.0	−2.7
TIY	31.2	338	eP	14 00 34.8	0.1
BJI	32.2	345	eP	14 00 41.5	−1.5

International Seismological Centre

SNY	32.7	356	+P	14 00 47.6	−0.1			
MDJ	35.5	4	eP	14 01 12.5	0.9			
GTA	38.5	326	eP	14 01 35.8	−1.1			
			PcP	14 03 49.6	1.2			
WMQ	48.3	323	eP	14 02 55.3	−0.8			

MAR 18d 16h 05m 17.3±0.09s, SD1.96/8
39.73 N±0.76km, 118.38 E±0.83km, h19±0.25km
North-Eastern China (658)
M_L3.0/10,

DL2	2.6	107	ePg	16 06 05.0	0.9			
			Sg	16 06 38.0	−2.3			
			SMN	M_L=2.7		0.8	0.053	
			SME			0.8	0.018	
TIA	3.6	196	ePg	16 06 20.8	−1.0			
			Sg	16 07 17.0	5.4			
			SMN	M_L=2.6		0.3	0.0060	
			SME			0.7	0.022	
TIY	5.1	249	ePg	16 06 48.9	1.9			
			Sg	16 07 49.3	−6.8			
			SMN	M_L=3.2		0.6	0.020	
			SME			0.6	0.030	

MAR 18d 16h 45m 21.7±0.14s, SD3.15/9
39.69 N±1.27km, 118.42 E±1.14km, h10±0.04km
North-Eastern China (658)
M_L3.0/10,

BJI	1.8	282	Pg	16 45 51.0	−2.0			
			Sg	16 46 13.0	−4.1			
			SMN	M_L=3.0		0.5	0.13	
			SME			0.5	0.16	
DL2	2.6	106	ePg	16 46 09.0	1.2			
			eSg	16 46 39.4	−4.0			
			SMN	M_L=2.9		0.8	0.080	
			SME			0.8	0.036	
TIA	3.6	197	ePg	16 46 26.4	0.7			
			Sg	16 47 10.9	−4.3			
			SMN	M_L=2.8		0.3	0.014	
			SME			0.3	0.037	
			SMZ	M_L=2.7		0.3	0.014	
BTO	6.5	281	ePg	16 47 21.6	4.8			

MAR 18d 19h 21m 08.4±0.08s, SD2.32/6
43.30 N±0.71km, 81.97 E±0.61km, h16±0.15km
Northern Xinjiang Province (332)
M_L3.0/6,

WMQ	4.2	81	ePg	19 22 25.4	2.7			
			Sg	19 23 19.8	−0.2			
			SMN	M_L=3.4		0.6	0.060	
			SME			0.6	0.080	

MAR 18d 22h 51m 18.6±0.09s, SD1.12/92
3.61 S±1.18km, 146.66 E±2.27km, h33±0.12km
Eastern New Guinea region (207)
M_S6.2/48, m_B6.2/29,

QZH	39.3	318	eP	22 58 47.0	0.1			
			PMZ	m_B=6.2		6.0	2.20	
			pP	22 58 57.0	0.7			
			sP	22 59 01.0	0.7			
			S	23 04 49.0	3.8			
			SMN	m_B=6.3		12.0	5.96	
			LN	M_S=6.0		15.0	11.3	
GZH	42.0	311	+P	22 59 10.5	2.1			
			SMN	m_B=6.5		12.0	6.10	
			SME			14.0	8.65	
			LN	M_S=6.3		20.0	11.9	
			LE			20.0	23.7	
SSE	42.2	327	P	22 59 10.5	0.1			
			PMZ	m_B=6.2		6.0	2.11	
			PP	23 00 53.0	1.5			
			S	23 05 29.0	1.5			
			SMN	m_B=6.2		12.0	4.62	
			sS	23 05 43.0	−0.9			
			SS	23 08 36.0	5.0			
			LN	M_S=6.2		16.0	11.8	
			LE			14.0	6.94	
			LZ	M_S=6.3		20.0	36.1	
QZN	42.6	303	P	22 59 13.5	−0.6			
			S	23 05 37.0	3.1			
			SMN			13.0	3.20	
			SME			12.0	3.00	
			SS	23 08 46.0	6.6			
			LN	M_S=6.0		16.0	5.60	
			LE			17.0	8.80	
NJ2	44.2	325	−iP	22 59 27.6	0.7			
			PMZ	m_B=6.2		6.0	2.17	
			S	23 05 57.0	0.0			
			LN	M_S=6.2		15.0	6.78	
			LE			15.0	11.5	
			LZ	M_S=5.9		20.0	13.4	
WHN	45.9	320	eP	22 59 40.0	−0.2			
			PMZ	m_B=6.3		6.0	2.42	
			sP	22 59 54.0	0.4			
			S	23 06 24.0	3.2			
			SMN	m_B=6.2		12.0	4.15	
			SS	23 09 42.0	4.0			
			LE	M_S=6.2		20.0	18.4	
			LZ	M_S=6.1		20.0	24.8	
DL2	48.2	334	eP	23 00 00.0	1.6			
			eS	23 07 00.0	5.2			
			LN	M_S=6.3		17.0	10.8	
			LE			21.0	14.2	
TIA	48.3	328	+P	22 59 57.6	−1.4			
			PP	23 01 49.5	−0.8			
			S	23 06 56.5	1.7			
			SMN			14.0	3.84	
			LN	M_S=6.2		14.5	7.85	
			LE			16.0	10.2	
			LZ	M_S=5.8		18.0	9.60	
GYA	48.9	310	P	23 00 05.2	1.5			
			pP	23 00 15.8	2.8			
			PP	23 01 57.0	0.7			
			LN	M_S=6.3		18.0	6.90	
			LE			18.0	15.4	
SNY	49.9	337	−P	23 00 11.2	0.0			
			pP	23 00 23.0	2.4			
			S	23 07 13.0	−3.8			
			SMN			21.0	7.75	
			SME			13.0	3.76	
			LN	M_S=6.2		20.0	11.1	
			LE			21.0	9.46	
			LZ	M_S=6.0		20.0	16.3	
MDJ	50.4	344	eP	23 00 15.0	−0.2			
			pP	23 00 26.0	1.4			
			PP	23 02 11.0	−0.1			
			S	23 07 23.0	−1.1			
			sS	23 07 38.0	−2.9			
			LZ	M_S=5.9		24.0	15.8	
CN2	50.9	340	+P	23 00 19.0	−0.2			
			sP	23 00 31.0	−1.5			
			eS	23 07 31.0	−1.4			
			LZ	M_S=6.1		21.0	21.0	
KMI	51.3	306	+P	23 00 22.0	−0.4			
			PMZ	m_B=6.0		7.0	1.50	
			PP	23 02 19.5	0.4			
			eS	23 07 39.0	0.8			

			SS	23 11 12.5	2.3			
			LE	M_S=6.0		18.0	8.90	
			LZ	M_S=5.9		32.0	19.9	
XAN	51.6	320	+iP	23 00 23.3	−1.5			
			pP	23 00 36.0	1.9			
			PP	23 02 23.0	0.9			
			S	23 07 46.0	4.6			
			SS	23 11 18.0	2.5			
			LN	M_S=6.2		18.0	8.45	
			LE			17.0	9.67	
BJI	51.7	330	eP	23 00 23.0	−1.9			
			PMZ	m_B=6.1		6.0	1.56	
			eS	23 07 44.0	1.2			
			LN	M_S=6.0		16.0	7.96	
			LZ	M_S=5.9		24.0	14.3	
TIY	51.9	325	eP	23 00 27.0	−0.1			
			SMN			27.0	9.39	
			SME			23.0	4.49	
			LN	M_S=6.4		26.0	15.1	
			LE			26.0	23.2	
			LZ	M_S=6.2		22.0	25.9	
CD2	53.4	313	eP	23 00 37.2	−0.6			
			PP	23 02 40.0	1.0			
			S	23 08 10.0	4.8			
HHC	54.6	328	eP	23 00 46.6	−0.5			
			SMN	m_B=6.4		10.0	4.86	
			SME			9.0	1.27	
			LN	M_S=6.3		20.0	9.33	
			LE			20.0	14.6	
BTO	55.3	326	+P	23 00 51.0	−0.9			
			pP	23 01 00.0	−1.3			
			PP	23 02 55.0	−1.2			
			S	23 08 32.0	1.0			
			sS	23 08 45.0	−2.9			
			SS	23 12 15.0	−0.3			
			LN	M_S=6.4		20.0	14.3	
			LE			20.0	13.5	
			LZ	M_S=6.1		20.0	15.6	
LZH	56.2	319	P	23 00 58.0	−0.4			
			PMZ	m_B=6.1		6.0	1.38	
			S	23 08 43.0	0.0			
			sS	23 08 54.0	−5.9			
			SMN			15.0	3.46	
			LN	M_S=6.3		17.0	11.2	
			LE			18.0	6.45	
GTA	60.7	320	+P	23 01 29.4	−0.5			
			PMZ	m_B=6.1		6.0	1.58	
			S	23 09 43.0	1.3			
			SME	m_B=6.0		10.0	1.93	
			LN	M_S=6.1		18.0	7.24	
			LZ	M_S=6.0		18.0	10.5	
LSA	62.6	306	P	23 01 41.0	−1.7			
			pP	23 01 54.0	2.2			
			PcP	23 02 15.0	−5.1			
			LE	M_S=6.0		12.0	3.90	
WMQ	70.8	319	eP	23 02 34.4	0.1			
			eS	23 11 50.0	4.1			
			SMN			20.0	3.47	
			SS	23 16 23.0	4.3			
			LN	M_S=6.3		22.0	6.82	
			LE			18.0	8.46	
			LZ	M_S=6.0		18.0	8.81	
KSH	77.6	312	P	23 03 14.0	0.0			
			sP	23 03 28.0	0.6			
			PP	23 06 08.0	−1.9			
			S	23 13 05.0	4.4			
			LN	M_S=6.6		24.0	20.5	

MAR 18d 23h 11m 59.7±0.07s, SD1.03/38
3.64 S±1.01km, 146.70 E±1.79km, h34±0.13km
Eastern New Guinea region (207)
M_S5.7/6,

GZH	42.0	311	eP	23 19 50.4	0.6		
SSE	42.2	327	eP	23 19 51.8	0.0		
			PP	23 21 31.0	−1.9		
			LZ	M_S=5.6		20.0	8.33
QZN	42.7	303	P	23 19 56.4	0.9		
NJ2	44.3	325	+P	23 20 09.2	0.9		
WHN	45.9	320	eP	23 20 22.5	0.9		
DL2	48.3	334	eP	23 20 37.5	−2.2		
GYA	48.9	310	P	23 20 46.0	0.9		
			pP	23 20 55.0	0.5		
SNY	49.9	337	eP	23 20 52.6	0.1		
MDJ	50.4	344	eP	23 20 57.5	1.0		
CN2	51.0	340	eP	23 21 02.0	1.5		
KMI	51.3	306	+P	23 21 04.5	0.8		
			pP	23 21 15.0	2.0		
			S	23 28 18.0	−0.2		
			LN	M_S=5.8		17.0	5.00
BJI	51.7	330	eP	23 21 05.0	−1.2		
TIY	52.0	325	+P	23 21 07.8	−0.6		
HHC	54.7	328	eP	23 21 28.6	0.2		
BTO	55.4	326	eP	23 21 33.2	0.0		
LZH	56.2	318	P	23 21 40.5	0.8		
GTA	60.8	320	+iP	23 22 11.0	−0.2		
LSA	62.6	306	+P	23 22 23.2	−0.8		
WMQ	70.8	319	−P	23 23 15.5	−0.1		
KSH	77.6	312	P	23 23 58.0	2.8		
			LN	M_S=5.7		15.0	1.80

MAR 19d 02h 31m 18.0±0.09s, SD1.32/18
3.78 S±1.03km, 146.79 E±1.19km, h65±0.48km
Eastern New Guinea region (207)

XAN	51.9	320	eP	02 40 20.5	−1.9		
BTO	55.5	326	eP	02 40 50.0	0.6		
LZH	56.4	319	eP	02 40 57.0	1.1		
GTA	60.9	320	P	02 41 26.6	−0.6		
WMQ	71.0	319	P	02 42 32.5	1.1		

MAR 19d 11h 00m 31.5±0.09s, SD1.03/37
3.46 S±2.53km, 68.52 E±2.02km, h10±0.70km
Chagos Archipelago region (426)

LSA	39.5	32	P	11 08 05.4	0.7		
GYA	47.4	49	P	11 09 08.8	0.4		
CD2	47.9	42	eP	11 09 13.0	0.3		
WMQ	50.1	18	P	11 09 29.5	−0.2		
LZH	51.4	37	eP	11 09 39.5	0.4		
GTA	51.5	31	P	11 09 39.3	−0.7		
XAN	53.3	42	−iP	11 09 52.8	−0.7		
WHN	55.3	49	eP	11 10 08.7	0.7		
TIY	57.7	41	eP	11 10 22.3	−3.4		
BTO	58.0	37	eP	11 10 27.0	−0.4		
NJ2	59.4	49	−P	11 10 37.4	0.3		
BJI	61.5	40	eP	11 10 51.5	0.2		
CN2	69.3	40	eP	11 11 41.4	−0.6		
MDJ	72.4	41	eP	11 12 01.0	0.5		

MAR 19d 13h 30m 29.3±0.21s, SD1.74/11
35.96 N±1.94km, 81.10 E±0.90km, h5±km
Kashmir–Tibet border region (304)
M_S3.9/1, M_L4.6/5,

KSH	5.4	312	Pn	13 31 52.0	0.7		
			Sg	13 33 13.0	−6.3		
			LN	M_S=3.9		10.0	1.60
WMQ	9.3	31	eP	13 32 49.0	1.1		
			SMN			1.0	0.070

International Seismological Centre

International Seismological Centre

			SME			1.0	0.080

MAR 19d 19h 42m 23.6±0.11s, SD2.62/20
27.09 N±0.91km, 100.21 E±0.99km, h24±0.51km
Yunnan Province (318)
M_L3.7/10,

KMI	3.0	130	ePg	19 43 15.5	−1.5		
			Sg	19 43 51.0	−6.8		
			SMN	M_L=4.0		1.5	0.50
			SME			1.5	0.70
CD2	4.9	38	ePn	19 43 40.0	3.5		
			Pg	19 43 51.0	0.6		
			Sg	19 44 58.5	1.0		
			SMN	M_L=3.8		1.2	0.080
			SME			1.4	0.17
GYA	5.8	95	Pn	19 43 52.8	4.0		
LSA	8.4	290	P	19 44 26.5	−0.9		
XAN	10.2	45	eP	19 44 50.6	−1.4		

MAR 19d 20h 19m 15.4±0.10s, SD1.24/97
30.07 N±1.58km, 67.89 E±1.27km, h14±0.06km
Pakistan (710)
M_S5.6/48, m_B5.8/16,

KSH	11.5	33	+iP	20 22 02.0	−0.7		
			S	20 24 05.0	−6.6		
			LE	M_S=5.8		10.0	38.3
LSA	20.2	85	−P	20 23 50.0	−3.1		
			PMZ	m_B=5.9		5.0	3.00
			PP	20 24 13.0	1.3		
			S	20 27 34.0	1.0		
			LN	M_S=4.9		11.0	2.10
WMQ	20.9	44	P	20 24 00.3	0.2		
			S	20 27 47.0	−0.1		
			LN	M_S=5.8		15.0	14.2
			LE			14.0	14.8
			LZ	M_S=5.4		12.0	8.02
GTA	27.7	62	P	20 25 06.4	0.4		
			LE	M_S=5.5		11.0	4.31
			LZ	M_S=5.2		13.0	3.70
LZH	30.6	69	P	20 25 32.0	0.2		
			pP	20 25 40.0	2.3		
			eS	20 30 32.0	−0.5		
			SMN	m_B=5.6		7.0	0.93
			LN	M_S=5.5		10.0	3.33
			LE			11.0	1.74
CD2	30.8	79	P	20 25 34.0	0.2		
			PP	20 26 31.5	−2.9		
			S	20 30 36.0	0.9		
			sS	20 30 40.0	−6.2		
			LE	M_S=5.8		12.0	8.60
			LZ	M_S=5.6		15.0	8.80
KMI	31.2	91	−iP	20 25 36.5	−0.6		
			pP	20 25 47.0	4.1		
			iS	20 30 43.0	1.0		
			LE	M_S=5.6		14.0	6.10
			LZ	M_S=5.4		14.0	5.40
GYA	34.2	86	P	20 26 02.8	−0.6		
			sP	20 26 10.4	−2.0		
			PP	20 27 17.6	0.2		
			S	20 31 28.0	0.0		
			ScS	20 36 26.6	3.1		
			LN	M_S=5.5		15.0	4.70
XAN	34.8	73	−P	20 26 07.7	−0.9		
			S	20 31 38.0	0.6		
			LN	M_S=5.6		10.0	2.36
			LE			14.0	3.06
BTO	35.6	61	P	20 26 16.0	0.5		
			pP	20 26 21.0	−0.5		
			PP	20 27 35.5	0.3		
			S	20 31 52.5	2.7		
			LN	M_S=5.5		12.0	2.60
			LE			12.0	2.00
			LZ	M_S=5.3		12.0	2.80
HHC	36.8	61	−P	20 26 27.5	2.0		
			S	20 32 10.2	2.1		
			LN	M_S=5.6		12.0	2.36
			LE			12.0	2.43
TIY	37.5	66	+iP	20 26 32.1	1.2		
			pP	20 26 38.0	1.1		
			PP	20 28 02.0	3.6		
			iS	20 32 20.0	1.0		
			SMN	m_B=5.8		7.0	1.31
			sS	20 32 31.0	1.9		
			LE	M_S=5.5		13.0	3.46
			LZ	M_S=5.5		14.0	4.99
QZN	39.5	96	P	20 26 47.0	−0.9		
			PP	20 28 21.0	−1.4		
			S	20 32 49.0	0.1		
			SME	m_B=5.4		11.0	0.80
			SS	20 35 37.0	1.0		
			LN	M_S=5.3		13.0	0.90
			LE			15.0	1.60
WHN	39.9	77	−P	20 26 51.6	0.6		
			sP	20 26 58.0	−2.1		
			S	20 32 56.0	1.5		
			SMN	m_B=5.9		8.0	1.58
			sS	20 33 03.0	−2.7		
			SS	20 35 44.0	−0.2		
			LE	M_S=5.8		15.0	6.15
			LZ	M_S=5.7		16.0	8.39
BJI	40.3	62	eP	20 26 55.0	0.4		
			PP	20 28 29.0	−2.0		
			ScP	20 32 47.0	1.7		
			S	20 33 02.0	0.9		
			eScS	20 37 00.0	2.3		
			LN	M_S=5.7		12.0	3.27
			LE			12.0	2.70
			LZ	M_S=5.5		12.0	4.34
GZH	41.0	89	P	20 26 59.0	−1.4		
			PP	20 28 41.0	3.1		
			eS	20 33 11.5	−0.9		
			LN	M_S=5.6		13.0	3.30
			LE			15.0	2.20
TIA	41.3	68	P	20 27 03.5	0.7		
			S	20 33 17.5	1.6		
			SMN	m_B=5.8		7.0	1.08
			SME			6.5	0.64
			LN	M_S=5.5		11.0	1.78
			LE			11.0	1.83
			LZ	M_S=5.2		11.0	1.88
NJ2	43.4	74	−iP	20 27 20.0	0.4		
			iS	20 33 49.0	2.1		
			LN	M_S=5.7		10.0	2.35
			LE			11.0	1.65
			LZ	M_S=5.0		16.0	1.59
DL2	44.6	64	eP	20 27 31.0	1.4		
			S	20 34 04.0	0.1		
			eScS	20 37 20.0	−3.8		
			LN	M_S=5.4		14.0	1.37
			LE			12.0	1.02
QZH	45.0	84	eP	20 27 30.0	−2.4		
			S	20 34 08.0	−1.0		
			SS	20 37 28.0	5.3		
			LN	M_S=5.8		14.0	3.19
			LE			14.0	3.55
SSE	45.5	75	P	20 27 37.2	0.4		

			pP	20 27 41.8	−1.3		
			LE	M_S=5.5		12.0	2.02
			LZ	M_S=5.2		20.0	2.78
SNY	45.9	59	+iP	20 27 39.9	0.4		
			S	20 34 22.0	0.2		
			SMN			14.0	1.30
			ScS	20 37 34.0	2.2		
			SS	20 37 44.0	5.5		
			LN	M_S=5.7		15.0	3.05
			LE			15.0	3.30
			LZ	M_S=5.3		16.0	2.82
CN2	47.1	57	eP	20 27 49.5	0.1		
			PMZ	m_B=5.6		4.0	0.40
			sP	20 27 57.5	−1.0		
			eS	20 34 38.0	−2.7		
			ScS	20 37 40.0	0.1		
			LN	M_S=5.7		14.0	4.00
			LZ	M_S=5.4		14.0	3.20
MDJ	50.0	55	eP	20 28 11.5	−0.6		
			pP	20 28 17.0	−1.2		
			PP	20 30 06.0	−1.2		
			S	20 35 20.0	−0.5		
			sS	20 35 30.0	−2.1		
			ScS	20 37 58.0	−1.2		
			LZ	M_S=5.7		16.0	6.00

MAR 19d 21h 00m 09.1±0.09s, SD2.03/19
30.07 N±1.72km, 68.02 E±2.35km, h8±0.99km
Pakistan (710)
M_S4.4/1,

KSH	11.4	32	eP	21 02 58.0	1.7		
			S	21 05 08.0	3.1		
			LN	M_S=4.4		12.0	1.50
WMQ	20.8	43	eP	21 04 51.0	−2.9		
GTA	27.6	62	eP	21 06 01.1	1.4		
BTO	35.5	61	eP	21 07 10.2	0.9		

MAR 20d 02h 59m 33.7±0.08s, SD1.77/29
44.03 N±2.86km, 148.77 E±1.71km, h52±1.17km
Kurile Islands region (222)

DL2	20.9	265	eP	03 04 12.5	−2.1
BJI	24.4	272	eP	03 04 49.0	−0.2
TIY	28.0	270	eP	03 05 24.0	1.4
LZH	34.9	273	P	03 06 22.0	−1.2
GTA	36.4	280	P	03 06 34.0	−1.7
CD2	37.6	265	eP	03 06 44.0	−1.6
GYA	38.1	257	P	03 06 50.4	0.3

MAR 20d 03h 27m 07.1±0.11s, SD1.45/39
9.88 S±1.35km, 154.12 E±1.48km, h32±0.32km
D'Entrecasteaux Islands region (194)

TIA	57.6	325	eP	03 36 55.9	−0.8
BJI	60.8	327	eP	03 37 20.0	0.7
KMI	61.0	306	+P	03 37 21.0	0.7
XAN	61.2	318	P	03 37 21.0	−0.9
BTO	64.6	324	eP	03 37 44.6	0.0
LZH	65.8	317	eP	03 37 53.0	0.9
GTA	70.3	318	P	03 38 20.8	0.8
LSA	72.2	306	−P	03 38 31.2	−0.8
WMQ	80.3	318	eP	03 39 18.0	0.3

MAR 20d 04h 05m 27.2±0.09s, SD1.04/73
10.03 S±1.30km, 154.04 E±2.29km, h35±0.27km
D'Entrecasteaux Islands region (194)
m_B5.6/1, m_b5.5/1,

SSE	51.6	324	eP	04 14 32.0	−1.0		
			eS	04 21 52.0	1.6		
			LZ	M_S=4.8		20.0	0.94
QZN	52.3	304	eP	04 14 38.8	1.0		
			eS	04 22 00.0	0.8		
NJ2	53.7	323	−P	04 14 48.4	0.0		
WHN	55.5	318	eP	04 15 02.5	0.9		
			eS	04 22 43.0	0.0		
			sS	04 22 56.0	−3.4		
			LZ	M_B=5.0		24.0	1.40
DL2	57.3	330	eP	04 15 14.5	0.1		
TIA	57.6	325	P	04 15 15.4	−1.6		
GYA	58.6	309	P	04 15 24.8	1.1		
MDJ	58.7	340	eP	04 15 23.5	−1.0		
CN2	59.5	336	+P	04 15 28.8	−1.4		
			eS	04 23 34.0	−2.2		
			LZ	M_S=4.7		20.0	0.60
BJI	60.9	327	eP	04 15 38.5	−1.1		
			eS	04 24 00.0	6.2		
KMI	61.0	306	+P	04 15 41.0	0.8		
			pP	04 15 46.0	−3.9		
XAN	61.3	318	P	04 15 40.9	−1.1		
CD2	63.1	312	eP	04 15 54.0	−0.3		
HHC	64.0	325	eP	04 16 00.8	0.6		
BTO	64.7	324	P	04 16 05.0	0.1		
			esP	04 16 18.0	−0.8		
			eS	04 24 42.0	0.3		
LZH	65.8	317	eP	04 16 12.5	0.3		
			PMZ	m_b=5.5		2.0	0.12
GTA	70.3	318	P	04 16 40.7	0.6		
LSA	72.2	306	+P	04 16 50.0	−1.9		
WMQ	80.4	318	+P	04 17 38.5	0.8		

MAR 20d 10h 41m 51.9±0.11s, SD1.46/93
9.95 S±1.86km, 153.90 E±2.50km, h50±0.11km
D'Entrecasteaux Islands region (194)
M_S5.4/28, m_B5.8/16,

QZH	48.9	316	P	10 50 36.0	1.0		
			eS	10 57 33.0	−0.7		
			SS	11 01 05.0	5.8		
			LE	M_S=5.6		36.0	6.86
SSE	51.5	324	eP	10 50 57.0	2.0		
			pP	10 51 05.8	−1.8		
			sP	10 51 10.0	−2.8		
			LE	M_S=5.4		20.0	2.06
			LZ	M_S=5.4		20.0	3.74
GZH	51.5	310	P	10 50 57.5	2.2		
			eS	10 58 14.5	4.1		
			SMN			24.0	3.40
			SME			24.0	3.10
			LE	M_S=5.6		12.0	2.40
QZN	52.1	304	P	10 51 00.0	0.2		
			sP	10 51 20.0	2.3		
			eS	10 58 19.0	0.4		
			LE	M_S=5.4		18.0	1.90
NJ2	53.5	323	−P	10 51 12.4	2.0		
WHN	55.3	318	eP	10 51 24.5	0.9		
			sP	10 51 43.0	1.3		
			S	10 59 04.0	2.7		
			sS	10 59 28.0	3.8		
			LE	M_S=5.5		22.0	2.56
			LZ	M_S=5.5		28.0	5.47
DL2	57.1	330	eP	10 51 36.0	−0.5		
TIA	57.5	325	P	10 51 37.6	−1.5		
			S	10 59 28.7	−1.1		
			LN	M_S=5.5		16.0	1.56
			LE			16.0	1.27
GYA	58.4	309	P	10 51 47.2	1.6		
			sP	10 52 05.0	1.5		
			S	10 59 48.0	6.1		
			LN	M_S=5.3		24.0	1.30

International Seismological Centre

			LE				24.0	1.40
SNY	58.6	334	−P	10	51	43.0	−3.5	
			S	10	59	49.5	5.8	
			SMN			$m_B = 5.8$	10.0	1.27
			LN			$M_S = 5.4$	25.0	1.65
			LE				26.0	1.46
			LZ			$M_S = 5.2$	24.0	2.41
MDJ	58.6	340	eP	10	51	47.0	0.3	
			pP	10	52	01.0	1.6	
			LZ			$M_S = 5.3$	26.0	3.16
CN2	59.4	336	−P	10	51	53.0	0.6	
			PMZ			$m_B = 5.7$	4.0	0.40
			pP	10	52	07.0	1.9	
			eS	10	59	56.0	0.0	
			SMN			$m_B = 5.6$	10.0	0.80
			LN			$M_S = 5.2$	13.0	0.80
			LZ			$M_S = 5.3$	36.0	3.90
BJI	60.8	327	eP	10	52	00.0	−1.7	
			sP	10	52	24.0	4.3	
KMI	60.8	306	+P	10	52	03.5	1.3	
			eS	11	00	18.0	3.6	
			LZ			$M_S = 5.3$	25.0	2.80
XAN	61.1	318	P	10	52	02.8	−1.3	
			SMN			$m_B = 5.7$	10.0	1.10
TIY	61.3	323	P	10	52	04.4	−0.6	
			PP	10	54	22.0	0.9	
			SMN			$m_B = 5.7$	9.0	0.88
			LN			$M_S = 5.6$	20.0	2.00
			LE				20.0	1.97
CD2	62.9	312	eP	10	52	16.5	0.2	
			esP	10	52	35.0	0.6	
			SMN				15.0	2.40
			LZ			$M_S = 5.3$	35.0	3.90
HHC	63.9	325	+P	10	52	23.0	0.7	
			S	11	00	52.0	1.1	
			LN			$M_S = 5.2$	12.5	0.58
			LE				11.0	0.31
BTO	64.6	324	+P	10	52	28.0	1.0	
			sP	10	52	50.5	5.4	
			ePP	10	54	50.0	0.1	
			eS	11	01	02.0	0.8	
			LN			$M_S = 5.5$	18.0	1.00
			LE				18.0	1.30
			LZ			$M_S = 5.2$	18.0	1.60
LZH	65.7	317	P	10	52	35.0	0.7	
			PMZ				3.0	0.75
			eS	11	01	20.0	5.0	
			SMN			$m_B = 5.8$	10.0	1.14
			LN			$M_S = 5.5$	28.0	1.42
			LE				28.0	2.65
GTA	70.2	318	P	10	53	02.4	0.2	
			SMN			$m_B = 5.8$	12.0	1.21
			LE			$M_S = 5.4$	34.0	2.23
			LZ			$M_S = 5.2$	36.0	2.45
LSA	72.1	306	P	10	53	13.0	−0.9	
WMQ	80.2	318	P	10	54	00.5	0.6	
			pP	10	54	11.0	−1.7	
			sP	10	54	16.0	−2.0	
			LN			$M_S = 5.5$	18.0	1.20
KSH	87.1	311	P	10	54	37.0	2.2	
			S	11	05	12.0	5.1	
			SMN			$m_B = 5.9$	8.0	0.90

MAR 20d 11h 09m 46.5 ± 0.10s, SD1.13 / 37
5.77 S ± 0.83km, 150.99 E ± 0.93km, h56 ± 0.57km
New Britain region (192)

QZH	43.9	315	eP	11	17	50.3	0.8	
WHN	50.3	318	+P	11	18	41.4	1.2	
TIA	52.4	325	P	11	18	55.4	−0.8	
GYA	53.6	309	P	11	19	05.4	0.8	
XAN	56.1	318	P	11	19	21.8	−1.1	
TIY	56.2	323	eP	11	19	23.8	0.1	
CD2	58.0	312	eP	11	19	35.0	−1.5	
HHC	58.8	326	eP	11	19	42.7	0.6	
LZH	60.7	317	eP	11	19	55.5	0.4	
GTA	65.2	318	P	11	20	24.2	−0.4	

MAR 20d 14h 38m 46.5 ± 0.16s, SD3.10 / 8
21.52 N ± 1.41km, 111.67 E ± 1.35km, h3 ± 0.36km
Eastern China (664)
M_L3.6 / 4,

GZH	2.2	45	Pg	14	39	25.5	0.2	
			Sn	14	39	50.5	−3.3	
			SMN			$M_L = 3.4$	0.8	0.30
			SME				0.8	0.20
QZN	3.0	215	ePn	14	39	38.2	2.7	
			Sn	14	40	15.2	1.0	
			SMN			$M_L = 3.2$	0.6	0.10
			SME				0.6	0.10
GYA	6.7	318	Pg	14	40	50.0	4.6	
			Sg	14	42	19.2	2.3	
LSA	20.2	298	eP	14	43	23.3	−2.8	

MAR 20d 14h 39m 30.2 ± 0.09s, SD0.82 / 37
70.97 N ± 0.94km, 6.27 W ± 1.34km, h10 ± 0.15km
Jan Mayen Island region (639)
M_S4.9 / 1,

WMQ	50.6	69	P	14	48	33.0	1.3	
GTA	58.2	61	P	14	49	27.9	0.2	
CN2	60.4	38	+P	14	49	42.4	−0.6	
BJI	62.0	47	eP	14	49	53.0	−0.3	
TIY	63.2	51	eP	14	50	02.6	0.7	
			LE			$M_S = 4.9$	20.0	0.50
LSA	64.6	73	−P	14	50	11.6	0.3	
XAN	65.8	55	eP	14	50	18.1	−0.3	
WHN	70.5	52	eP	14	50	48.0	0.0	

MAR 21d 04h 45m 16.9 ± 0.05s, SD0.91 / 51
23.81 N ± 1.05km, 142.98 E ± 0.96km, h33 ± 0.13km
Volcano Islands region (213)

SSE	20.6	295	−P	04	49	56.0	−0.4	
			LZ			$M_S = 3.9$	20.0	0.47
NJ2	22.8	296	−P	04	50	18.5	0.3	
MDJ	23.5	335	eP	04	50	24.0	−0.6	
SNY	24.2	323	+P	04	50	30.6	−0.8	
CN2	24.6	328	eP	04	50	35.0	−0.6	
TIA	25.5	305	+P	04	50	43.6	−0.5	
WHN	26.3	291	eP	04	50	50.0	−1.6	
BJI	27.8	312	eP	04	51	05.0	−0.1	
TIY	29.5	305	eP	04	51	21.9	0.9	
			LZ			$M_S = 4.0$	20.0	0.37
XAN	31.4	297	eP	04	51	35.0	−2.3	
GYA	32.9	282	P	04	51	51.4	0.5	
CD2	35.4	290	eP	04	52	12.1	−0.1	
KMI	36.6	281	+P	04	52	23.6	1.5	
GTA	39.5	304	eP	04	52	46.4	−0.4	
WMQ	49.1	308	eP	04	54	03.2	−0.6	

MAR 21d 12h 20m 33.2 ± 0.06s, SD1.07 / 30
57.36 N ± 1.70km, 143.38 W ± 1.11km, h13 ± 0.11km
Gulf of Alaska (15)

CN2	55.1	298	eP	12	30	07.0	−1.1	
GTA	70.0	313	P	12	31	47.0	−0.3	
WMQ	70.5	323	eP	12	31	51.0	0.5	
XAN	70.6	303	P	12	31	50.6	−0.6	
GYA	78.1	301	P	12	32	35.0	0.7	

International Seismological Centre

MAR 21d 13h 17m 37.0 ± 0.08s, SD1.30 / 78
8.18 S ± 1.20km, 118.99 E ± 1.68km, h23 ± 0.03km
Sumbawa region (285)
M_S4.8 / 10,

QZN	28.5	342	eP	13 23 36.0	2.8		
			eS	13 28 20.0	1.7		
			SS	13 29 41.0	−2.1		
			LE	M_S = 4.6		13.0	0.70
GYA	36.5	341	P	13 24 42.8	0.1		
KMI	36.7	335	−P	13 24 46.0	1.2		
			LE	M_S = 4.8		14.0	0.64
WHN	38.8	354	+P	13 25 01.5	−0.4		
			eS	13 30 58.0	0.1		
			LE	M_S = 5.0		14.0	0.97
NJ2	40.0	360	−P	13 25 13.4	1.2		
CD2	41.5	340	−iP	13 25 24.8	0.0		
			eS	13 31 38.0	−1.3		
			LE	M_S = 5.1		10.0	0.87
XAN	43.1	348	−P	13 25 37.0	−0.4		
			pP	13 25 46.0	1.0		
TIY	46.1	353	eP	13 26 01.0	−0.6		
			S	13 32 48.5	4.4		
			LE	M_S = 4.9		12.0	0.48
LSA	46.2	326	−P	13 26 02.8	−0.4		
LZH	46.3	343	eP	13 26 03.5	0.1		
BJI	48.0	357	eP	13 26 16.5	−0.6		
			eS	13 33 12.0	−1.4		
BTO	49.2	351	eP	13 26 26.0	−0.4		
HHC	49.3	353	eP	13 26 26.4	−0.2		
GTA	50.6	341	P	13 26 37.2	0.5		
			eS	13 33 46.0	−3.0		
			LE	M_S = 4.8		20.0	0.60
			LZ	M_S = 4.5		26.0	0.70
CN2	52.1	6	−P	13 26 47.0	−0.8		
			epP	13 26 56.2	0.8		
			eS	13 34 09.0	−0.2		
			LZ	M_S = 4.4		20.0	0.40
MDJ	53.4	9	eP	13 26 57.4	−0.5		
			S	13 34 28.0	1.6		
			pP	13 27 08.0	2.5		
			SS	13 38 08.0	2.2		
			LZ	M_S = 4.9		24.0	1.30
WMQ	59.0	334	P	13 27 37.0	−1.1		
			eS	13 35 40.0	−2.1		
			LZ	M_S = 4.7		16.0	0.53
KSH	62.0	323	P	13 28 03.0	4.6		
			eS	13 36 20.0	−0.3		
			LE	M_S = 5.4		4.0	0.30

MAR 21d 14h 05m 16.8 ± 0.10s, SD2.55 / 21
26.95 N ± 0.88km, 102.79 E ± 0.92km, h26 ± 0.38km
Sichuan Province (307)
M_L3.7 / 11,

KMI	1.8	181	ePg	14 05 50.5	1.0		
			Sg	14 06 14.0	−0.2		
			SMN	M_L = 3.8		1.5	1.06
			SME			1.0	0.83
			LE			7.0	2.30
GYA	3.5	97	Pn	14 06 12.8	2.5		
			Pg	14 06 22.0	3.2		
			Sn	14 06 55.4	3.0		
			Sg	14 07 11.2	4.4		
			SMN	M_L = 3.7		1.4	0.20
			SME			1.4	0.20
CD2	4.0	12	Pn	14 06 18.8	1.3		
			Pg	14 06 30.2	2.0		
			Sg	14 07 21.6	−1.9		
			SMN			1.6	0.15
			SME			1.1	0.29
XAN	8.8	35	eP	14 07 21.7	−4.3		

MAR 21d 15h 15m 40.5 ± 0.07s, SD1.14 / 39
8.23 S ± 0.95km, 119.01 E ± 1.30km, h33 ± 0.11km
Sumbawa region (285)

GYA	36.5	341	P	15 22 46.8	1.6
KMI	36.7	335	+P	15 22 49.0	1.7
WHN	38.8	354	eP	15 23 06.5	2.2
CD2	41.6	340	P	15 23 27.2	−0.1
XAN	43.1	348	P	15 23 39.0	−0.9
LZH	46.3	343	eP	15 24 06.0	0.1
BJI	48.1	357	eP	15 24 20.0	0.5
GTA	50.6	341	P	15 24 39.1	−0.1
CN2	52.1	6	eP	15 24 50.0	−0.2
MDJ	53.5	9	eP	15 25 00.4	0.2
WMQ	59.1	334	eP	15 25 39.5	−1.0

MAR 21d 16h 26m 29.0 ± 0.10s, SD3.58 / 8
39.41 N ± 1.51km, 74.21 E ± 0.65km, h3 ± 1.35km
Tadzhikistan−Xinjiang border region (719)
M_L3.9 / 5,

KSH	1.3	85	iPg	16 26 52.5	−0.1		
			Sg	16 27 08.0	−2.6		
			SMN	M_L = 4.4		0.6	3.90
			SME			1.0	6.70
WMQ	11.0	62	eP	16 29 09.0	−1.9		

MAR 21d 19h 03m 12.5 ± 0.06s, SD0.90 / 77
6.85 S ± 0.91km, 125.10 E ± 1.66km, h542 ± 0.37km
Banda Sea (280)

QZN	29.8	330	eP	19 08 37.3	0.1
GYA	37.6	332	P	19 09 43.4	0.5
			PcP	19 11 48.0	1.6
SSE	37.9	355	+P	19 09 45.5	0.4
KMI	38.5	326	−P	19 09 52.0	1.8
WHN	38.6	345	−iP	19 09 52.5	2.0
NJ2	39.1	352	−iP	19 09 56.5	1.5
CD2	42.7	333	−iP	19 10 24.0	0.0
DL2	45.6	356	−P	19 10 46.0	−0.4
TIY	45.9	346	−P	19 10 47.8	−0.6
			S	19 16 51.0	−1.8
LZH	47.1	336	−iP	19 10 58.5	0.4
			eS	19 17 11.0	−0.9
BJI	47.4	351	eP	19 10 59.0	−0.7
SNY	48.5	358	−iP	19 11 07.4	−0.5
LSA	48.8	320	−P	19 11 10.7	−0.5
HHC	49.1	346	+P	19 11 12.2	−0.4
BTO	49.2	345	eP	19 11 11.4	−2.2
CN2	50.4	0	P	19 11 21.4	−0.9
MDJ	51.4	4	−P	19 11 29.5	0.0
GTA	51.6	335	eP	19 11 31.6	0.1
			ScP	19 15 42.5	3.6
WMQ	60.7	330	P	19 12 34.0	0.2
KSH	64.7	320	P	19 13 00.6	0.9

MAR 21d 19h 23m 56.2 ± 0.06s, SD0.94 / 25
6.81 S ± 0.93km, 154.10 E ± 0.84km, h10 ± 0.07km
New Britain region (192)

CN2	56.6	335	eP	19 33 41.0	−1.5
KMI	59.2	304	eP	19 34 00.0	−0.5
CD2	61.0	311	eP	19 34 12.9	0.0
GTA	68.0	317	P	19 34 58.6	0.1
WMQ	78.1	317	eP	19 35 58.0	0.3

MAR 21d 23h 24m 26.2 ± 0.13s, SD0.79 / 64
20.93 S ± 0.57km, 178.83 W ± 1.55km, h638 ± 1.23km

International Seismological Centre

Fiji region (181)

SSE	77.4	310	+P	23 35 19.5	0.3	
GZH	79.3	300	eP	23 35 30.5	1.3	
NJ2	79.6	310	+P	23 35 31.6	0.8	
MDJ	80.4	325	+P	23 35 35.4	0.1	
DL2	81.5	317	eP	23 35 40.0	−0.8	
SNY	82.0	320	+IP	23 35 43.4	−0.1	
WHN	82.1	307	eP	23 35 44.0	0.3	
CN2	82.2	323	−P	23 35 43.4	−0.7	
TIA	83.0	313	−P	23 35 48.4	0.1	
BJI	85.7	316	eP	23 36 01.0	−0.2	
GYA	86.2	300	P	23 36 04.0	0.1	
TIY	87.0	312	eP	23 36 07.8	0.2	
			SKS	23 45 32.0	−1.6	
			S	23 45 53.5	1.0	
XAN	87.8	308	P	23 36 11.5	0.3	
KMI	88.9	297	−P	23 36 17.0	0.5	
HHC	89.1	315	+P	23 36 17.7	0.2	
BTO	90.0	314	P	23 36 21.2	−0.5	
CD2	90.4	303	P	23 36 24.2	1.0	
LZH	92.4	308	P	23 36 33.0	0.3	
GTA	96.6	310	P	23 36 51.6	−0.3	

MAR 21d 23h 31m 20.2 ± 0.06s, SD0.84 / 93
77.61 N ± 0.85km, 125.61 E ± 1.14km, h10 ± 0.04km
Laptev Sea (655)
M_S6.7 / 50, m_B6.3 / 46,

MDJ	33.1	175	+P	23 37 59.0	−0.4		
			pP	23 38 07.0	2.3		
			PP	23 39 09.5	−0.2		
			S	23 43 16.0	−1.1		
			LZ	M_S = 6.1		12.0	21.3
CN2	33.9	180	−iP	23 38 05.8	−0.3		
			PMZ	m_B = 6.2		5.0	1.80
			pP	23 38 11.0	−0.5		
			S	23 43 29.0	−0.1		
			LZ	M_S = 6.3		16.0	50.3
SNY	35.9	183	−iP	23 38 22.0	−1.0		
			PMZ	m_B = 6.0		9.0	2.36
			sP	23 38 30.0	−1.2		
			S	23 44 00.0	0.2		
			SMN			18.0	7.47
			SME			16.0	3.53
			LN	M_S = 6.6		14.0	40.1
			LE			10.0	5.66
WMQ	37.2	227	P	23 38 34.0	0.3		
			PMZ	m_B = 6.8		4.0	6.42
			PP	23 39 59.0	−0.9		
			S	23 44 24.0	4.9		
			LN	M_S = 7.0		12.0	87.7
HHC	37.3	198	−P	23 38 36.0	0.7		
			sP	23 38 48.0	4.7		
			S	23 44 25.0	3.2		
			SMN			15.5	6.96
			SME			10.0	1.86
			LN	M_S = 6.6		12.0	32.2
			LE			12.0	11.5
			LZ	M_S = 6.3		12.0	30.6
BTO	37.7	200	−P	23 38 37.5	−0.8		
			PMZ	m_B = 6.0		6.0	1.50
			sP	23 38 45.0	−1.3		
			PP	23 40 06.0	−0.3		
			S	23 44 28.0	0.8		
			SMN	m_B = 5.9		12.0	2.20
			SME			12.0	1.80
			sS	23 44 33.5	−3.7		
			PcS	23 44 48.0	5.5		
			SS	23 47 03.5	2.1		
			LN	M_S = 6.8		14.0	56.6
			LE			14.0	38.2
			LZ	M_S = 6.6		14.0	70.0
BJI	37.9	192	−P	23 38 41.0	1.2		
			PMZ	m_B = 6.5		4.0	3.18
			eS	23 44 30.0	−1.1		
			eSS	23 47 00.0	−5.8		
DL2	38.9	185	−iP	23 38 48.0	0.2		
			PMZ	m_B = 6.4		4.0	2.80
			S	23 44 48.0	3.2		
			SMN	m_B = 6.1		10.0	3.11
			SME			10.0	1.70
			LN	M_S = 6.6		12.0	20.9
			LE			10.0	19.6
GTA	39.8	212	−iP	23 38 56.4	0.3		
			PP	23 40 26.0	−5.1		
			S	23 45 00.0	0.5		
			SS	23 47 46.0	−2.4		
			SMN	m_B = 6.3		12.0	7.13
			LN	M_S = 6.8		14.0	61.1
			LZ	M_S = 6.6		14.0	58.8
TIY	40.4	196	−iP	23 39 02.3	1.5		
			PMZ	m_B = 6.3		5.0	2.46
			sP	23 39 10.5	1.6		
			PP	23 40 37.5	0.4		
			PcP	23 40 58.5	−5.2		
			S	23 45 15.0	6.9		
			SMN			18.0	9.81
			LN	M_S = 6.5		12.0	23.9
			LZ	M_S = 6.4		14.0	40.4
TIA	41.7	190	−P	23 39 11.3	0.2		
			PMZ	m_B = 6.2		5.0	2.20
			pP	23 39 21.1	4.6		
			eS	23 45 28.3	0.4		
			SMN	m_B = 6.0		10.0	1.70
			SME			10.0	1.70
			LN	M_S = 7.0		13.0	83.4
			LE			13.0	20.3
			LZ	M_S = 6.6		13.0	57.3
LZH	42.7	206	−iP	23 39 20.0	0.3		
			PMZ	m_B = 6.2		5.0	2.13
			sP	23 39 31.0	3.3		
			PP	23 41 05.0	4.2		
			eS	23 45 45.5	2.2		
			SMN	m_B = 6.1		10.0	3.40
			LN	M_S = 6.7		10.0	12.0
			LE			13.0	35.9
KSH	43.4	239	−iP	23 39 27.0	1.8		
			ePP	23 41 04.0	−3.6		
			iS	23 45 59.0	5.8		
			SMN	m_B = 6.8		8.0	11.6
			LE	M_S = 6.8		12.0	42.0
XAN	44.3	200	−P	23 39 32.5	−0.1		
			PP	23 41 18.0	1.3		
			PcS	23 45 08.0	−0.5		
			S	23 46 06.0	0.7		
			ScS	23 49 24.0	−3.9		
			LN	M_S = 6.8		12.0	11.8
			LE			14.0	45.2
NJ2	45.8	188	−iP	23 39 44.0	−0.2		
			PMZ	m_B = 6.3		4.5	2.25
			iS	23 46 28.0	0.7		
			LN	M_S = 6.7		13.0	29.4
			LE			12.5	20.5
			LZ	M_S = 6.2		18.0	23.0
SSE	46.7	185	+P	23 39 51.0	−0.2		
			PMZ	m_B = 6.4		4.0	2.62
			pP	23 39 57.0	0.3		

International Seismological Centre

			PcP	23 41 22.0	−2.7			
			S	23 46 38.0	−1.0			
			SMN			20.0	6.01	
			SME			20.0	2.23	
			ScS	23 49 42.0	−1.0			
			eSS	23 49 58.0	0.3			
			LN	M_S=6.7		14.0	33.0	
			LE			14.0	17.7	
			LZ	M_S=6.5		18.0	52.2	
WHN	47.4	193	−iP	23 39 57.5	0.1			
			PMZ	m_B=6.5		4.0	3.21	
			pP	23 40 02.0	−0.9			
			S	23 46 50.0	−0.2			
			SMN	m_B=6.1		12.0	3.17	
			sS	23 46 56.0	−4.4			
			LE	M_S=6.6		14.0	29.2	
			LZ	M_S=6.4		18.0	40.0	
CD2	47.8	206	−iP	23 40 00.8	0.2			
			eS	23 46 57.0	0.0			
			LE	M_S=6.8		10.0	32.9	
LSA	50.5	220	−P	23 40 21.2	−0.4			
			PP	23 42 15.0	−2.0			
GYA	52.0	202	P	23 40 32.2	−0.4			
			sP	23 40 40.0	−0.6			
			PcP	23 41 45.0	0.9			
			S	23 47 54.0	0.4			
			SS	23 51 29.0	0.6			
			LN	M_S=6.9		14.0	42.5	
			LE			14.0	23.1	
QZH	52.8	188	−iP	23 40 37.0	−1.8			
			PMZ	m_B=6.3		5.0	1.97	
			S	23 48 05.5	0.3			
			ScS	23 50 24.0	−0.6			
			SS	23 51 44.0	1.1			
			LN	M_S=6.9		13.0	29.5	
			LE			18.0	46.0	
KMI	53.7	206	−iP	23 40 44.0	−1.1			
			PMZ	m_B=6.3		5.0	2.25	
			PcP	23 41 48.0	−2.4			
			S	23 48 18.0	1.7			
			SMN	m_B=6.0		10.0	1.90	
			SS	23 51 57.0	0.9			
			LE	M_S=6.8		13.0	36.1	
			LZ	M_S=6.4		17.0	26.2	
GZH	54.9	194	−iP	23 40 52.0	−2.0			
			eS	23 48 34.5	0.4			
			LN	M_S=6.8		13.0	29.1	
			LE			15.0	11.4	
QZN	59.1	197	−P	23 41 24.0	−0.1			
			sP	23 41 32.0	−0.2			
			S	23 49 30.0	1.0			
			SS	23 53 29.0	4.3			
			LN	M_S=6.5		17.0	12.3	
			LE			13.5	14.6	

MAR 22d 07h 05m 02.3 ± 0.08s, SD1.30 / 39
46.81 N ± 2.91km, 153.82 E ± 1.87km, h29 ± 1.12km
Kurile Islands (221)
M_S4.5 / 3, m_b5.2 / 1,

MDJ	17.1	271	eP	07 09 00.0	−0.4			
CN2	20.1	272	−P	07 09 36.0	−1.1			
			LZ	M_S=4.2		15.0	0.70	
SNY	22.1	268	eP	07 09 55.0	−2.3			
BJI	28.0	270	eP	07 10 54.0	1.2			
HHC	30.8	274	P	07 11 18.0	0.0			
TIY	31.6	268	eP	07 11 25.0	−0.6			
			eS	07 16 30.5	−1.5			
			LE	M_S=4.5		13.0	0.39	
			LZ	M_S=4.4		16.0	0.59	
XAN	36.0	266	P	07 12 03.2	0.0			
LZH	38.4	272	eP	07 12 23.5	0.3			
			PMZ	m_b=5.2		2.5	0.10	
GTA	39.4	279	P	07 12 31.6	−0.5			
CD2	41.4	266	P	07 12 48.6	0.7			
GYA	42.2	258	P	07 12 55.0	0.1			

MAR 22d 10h 03m 34.4 ± 0.07s, SD0.86 / 56
6.87 S ± 0.83km, 124.97 E ± 0.99km, h528 ± 1.04km
Banda Sea (280)

GYA	37.6	333	P	10 10 07.0	1.6			
SSE	37.9	355	−P	10 10 09.0	1.0			
WHN	38.6	345	−iP	10 10 14.7	1.5			
CD2	42.7	333	+P	10 10 47.2	0.7			
XAN	43.4	340	−iP	10 10 52.0	−0.3			
DL2	45.6	356	eP	10 11 10.0	0.6			
TIY	45.9	346	+iP	10 11 10.8	−0.4			
LZH	47.1	337	eP	10 11 21.0	0.2			
			eS	10 17 34.0	−1.1			
SNY	48.5	359	−iP	10 11 30.3	−0.6			
HHC	49.1	347	eP	10 11 35.6	0.2			
CN2	50.4	0	+P	10 11 44.8	−0.7			
MDJ	51.4	4	eP	10 11 52.5	−0.2			
GTA	51.6	335	−iP	10 11 54.3	0.1			
WMQ	60.7	330	−iP	10 12 56.6	0.0			

MAR 22d 19h 39m 58.7 ± 0.08s, SD1.49 / 16
24.92 N ± 1.22km, 123.12 E ± 0.52km, h159 ± 1.11km
Taiwan region (243)

SSE	6.4	345	eP	19 41 32.5	1.0			
XAN	15.3	310	P	19 43 30.2	2.1			
TIY	15.7	327	eP	19 43 34.0	1.7			

MAR 22d 20h 25m 42.0 ± 0.07s, SD1.25 / 36
38.49 N ± 0.99km, 73.37 E ± 1.07km, h108 ± 0.19km
Tadzhikistan (715)

KSH	2.2	62	P	20 26 21.0	2.1			
			S	20 26 49.0	3.5			
			LN			3.0	16.8	
WMQ	12.0	59	P	20 28 30.0	−1.4			
LSA	17.1	115	+P	20 29 38.2	1.7			
GTA	20.6	79	+iP	20 30 14.8	0.3			
LZH	24.3	86	eP	20 30 52.5	1.4			
CD2	26.0	98	eP	20 31 10.7	3.6			
XAN	28.9	88	eP	20 31 32.0	−1.2			
GYA	30.4	103	eP	20 31 47.0	0.5			
TIY	30.6	79	eP	20 31 48.8	0.5			

MAR 23d 01h 42m 02.0 ± 0.07s, SD1.56 / 39
25.24 N ± 1.18km, 122.78 E ± 1.08km, h228 ± 1.44km
Taiwan region (243)

QZH	3.8	266	P	01 43 03.2	0.0			
			iS	01 43 47.0	−3.4			
			SMN			1.0	0.17	
			SME			0.9	0.17	
SSE	6.0	347	eP	01 43 28.2	−2.3			
TIA	12.0	337	−P	01 44 47.2	0.4			
DL2	13.7	356	P	01 45 09.0	1.1			
GYA	14.6	278	P	01 45 20.2	1.0			
TIY	15.2	327	+P	01 45 29.0	1.7			
BJI	15.8	341	eP	01 45 33.0	−0.5			
HHC	18.2	332	eP	01 46 00.6	0.4			
CN2	18.6	6	−P	01 46 03.8	−1.2			
BTO	18.7	328	eP	01 46 05.4	0.1			
LZH	19.5	308	eP	01 46 14.5	0.4			
GTA	23.9	312	P	01 46 55.6	−1.3			

International Seismological Centre

MAR 23d 05h 07m 14.3±0.11s, SD1.37/25
26.77 S±8.43km, 176.35 W±3.81km, h12±1.78km
Kermadec Islands region (177)

SSE	82.9	310	eP	05 19 40.0	−1.0		
DL2	87.3	316	eP	05 20 04.0	0.8		
WHN	87.4	306	P	05 20 04.0	0.6		
CN2	88.2	322	−P	05 20 07.0	−0.3		
TIA	88.6	312	+P	05 20 09.3	−0.1		
GYA	91.0	299	P	05 20 21.4	0.4		
BJI	91.4	315	eP	05 20 22.0	−0.4		
TIY	92.6	311	+P	05 20 29.0	1.1		
			S	05 31 31.0	3.0		
			LZ	M_s=4.9		24.0	0.54
KMI	93.5	296	eP	05 20 33.5	1.1		

MAR 23d 07h 48m 46.2±0.16s, SD1.02/30
7.45 S±0.79km, 128.32 E±0.19km, h174±1.54km
Banda Sea (280)

SSE	38.9	350	eP	07 55 54.5	−2.5		
GYA	39.7	329	P	07 56 04.6	0.9		
WHN	40.1	341	+P	07 56 07.5	1.0		
NJ2	40.3	348	−P	07 56 09.0	0.7		
TIY	47.3	343	eP	07 57 04.5	−0.1		
LZH	49.0	334	eP	07 57 17.5	−0.5		
GTA	53.6	333	P	07 57 51.9	−0.1		
			LN			30.0	0.85

MAR 23d 08h 00m 10.7±0.17s, SD3.09/15
26.81 N±1.19km, 102.69 E±0.88km, h32±0.83km
Sichuan Province (307)
M_L3.4/9,

KMI	1.7	178	ePn	08 00 43.5	4.9		
			Pg	08 00 45.0	4.2		
			Sg	08 01 08.0	3.9		
GYA	3.6	95	Pn	08 01 07.0	2.5		
			Pg	08 01 16.2	2.3		
			Sn	08 01 49.8	2.8		
			Sg	08 02 06.4	3.5		
			SMN	M_L=3.4		1.2	0.10
			SME			1.2	0.10
CD2	4.2	13	iPn	08 01 13.6	0.7		
			Pg	08 01 23.6	−1.2		
			Sn	08 02 02.7	0.4		
			Sg	08 02 16.2	−6.0		
			SMN	M_L=3.8		0.8	0.16
			SME			0.6	0.17

MAR 23d 08h 04m 52.0±0.15s, SD1.06/54
3.97 S±6.67km, 131.62 E±3.88km, h46±3.32km
Banda Sea (280)
M_S5.0/5, m_b5.5/1,

QZN	31.3	318	eP	08 11 13.6	3.0		
			eS	08 16 17.0	4.0		
WHN	38.1	335	eP	08 12 09.1	0.8		
			eS	08 17 59.0	1.7		
			LE	M_S=4.9		10.0	0.61
			LZ	M_S=4.7		20.0	1.27
GYA	38.7	323	P	08 12 14.0	0.3		
KMI	40.3	317	−P	08 12 27.5	0.6		
			S	08 18 31.0	1.4		
			LZ	M_S=4.4		25.0	0.68
TIA	42.2	342	eP	08 12 42.2	−0.3		
XAN	43.4	332	eP	08 12 51.5	−1.2		
DL2	43.6	349	P	08 12 56.0	1.8		
			S	08 19 23.0	3.9		
CD2	43.7	324	eP	08 12 54.0	−0.8		
TIY	45.1	338	+P	08 13 06.0	−0.3		
			S	08 19 39.0	−1.6		
			LE	M_S=5.0		18.0	1.08
			LZ	M_S=4.6		22.0	0.78
BJI	46.0	344	eP	08 13 12.5	−0.9		
			eS	08 19 51.0	−3.4		
SNY	46.2	352	−P	08 13 15.2	0.8		
			S	08 20 00.0	4.8		
			LN	M_S=5.1		18.0	1.19
LZH	47.6	329	eP	08 13 25.0	−0.6		
			PMZ	m_b=5.5		2.0	0.14
CN2	47.9	354	+P	08 13 28.0	0.2		
HHC	48.2	340	P	08 13 31.8	1.1		
MDJ	48.4	358	eP	08 13 32.0	0.1		
BTO	48.6	338	eP	08 13 33.0	−0.3		
GTA	52.2	329	P	08 13 59.6	−1.1		
WMQ	61.8	325	P	08 15 08.6	−0.4		
			S	08 23 30.0	4.3		
			LN	M_S=5.2		24.0	1.26

MAR 23d 09h 56m 21.3±0.06s, SD2.10/8
32.74 N±0.59km, 104.15 E±0.48km, h17±0.25km
Sichuan Province (307)
M_L3.2/3,

LZH	3.4	356	Pg	09 57 20.0	−0.8		
			Sg	09 58 04.0	−2.4		
			SMN	M_L=3.2		1.0	0.060
			SME			1.5	0.079
XAN	4.2	71	ePn	09 57 24.0	−1.1		
			Pg	09 57 35.0	−0.5		
			Sg	09 58 26.4	−6.5		
			SMN	M_L=3.6		1.0	0.16
			SME			1.0	0.090

MAR 23d 12h 18m 57.0±0.11s, SD1.60/92
17.92 N±1.56km, 121.43 E±1.71km, h33±0.43km
Luzon (249)
M_S4.4/27, M_L4.4/6, m_B5.3/3,

QZH	7.5	340	eP	12 20 45.5	−1.0		
			S	12 22 06.0	−4.8		
			SMN	M_L=4.4		0.9	0.12
			SME			0.9	0.13
GZH	9.2	306	+P	12 21 06.5	−3.4		
			S	12 22 46.1	−6.6		
			SMN			1.0	0.35
			SME			1.0	0.18
			LE	M_S=4.4		11.0	2.36
QZN	11.0	278	P	12 21 32.8	−3.2		
			LN	M_S=4.4		13.0	0.90
			LE			16.0	1.80
SSE	13.1	359	P	12 22 01.5	−2.4		
			sP	12 22 15.0	−0.9		
			SS	12 24 44.0	−0.8		
			LN	M_S=4.3		18.0	1.50
			LE			14.0	0.46
			LZ	M_S=3.9		20.0	0.94
WHN	14.1	334	eP	12 22 18.0	1.0		
			pP	12 22 27.0	2.8		
			eS	12 24 54.0	0.4		
			LE	M_S=4.4		12.0	1.22
			LZ	M_S=4.6		16.0	3.00
NJ2	14.3	351	+P	12 22 21.4	2.6		
			eS	12 24 52.0	−5.0		
			LN	M_S=4.4		15.0	1.20
			LE			15.0	1.06
			LZ	M_S=4.0		14.0	0.65
GYA	16.1	304	P	12 22 43.6	0.9		
			sP	12 22 54.8	0.1		
			S	12 25 44.4	5.2		
			LN	M_S=4.8		14.0	2.40

			LE			14.0	1.60
TIA	18.6	349	eP	12 23 15.0	0.9		
			SMN	m_B=5.1		11.0	0.42
			SME			11.0	0.76
KMI	18.8	296	+P	12 23 18.5	1.9		
			pP	12 23 27.0	3.1		
			LE	M_S=4.7		14.0	1.60
			LZ	M_S=4.5		16.0	1.53
XAN	19.6	328	P	12 23 25.0	−0.2		
			pP	12 23 34.0	0.7		
			S	12 26 58.0	−0.3		
			LN	M_S=4.6		14.0	0.68
			LE			14.0	1.02
CD2	20.6	312	P	12 23 35.8	−0.4		
			S	12 27 18.0	−1.3		
			LE	M_S=4.8		13.0	1.71
DL2	20.9	0	−P	12 23 39.0	−0.3		
			eS	12 27 24.0	−1.9		
			LN	M_S=4.3		17.0	0.76
TIY	21.2	340	+P	12 23 44.0	1.2		
			pP	12 23 53.0	1.5		
			S	12 27 35.5	4.1		
			sS	12 27 44.0	−2.2		
			LN	M_S=4.9		15.0	2.21
			LZ	M_S=4.6		17.0	2.15
BJI	22.5	349	eP	12 23 55.0	−0.3		
			eS	12 27 58.0	2.5		
			LN	M_S=4.2		14.0	0.44
			LZ	M_S=4.3		16.0	0.88
LZH	23.9	323	eP	12 24 10.0	1.2		
			PMZ	m_b=5.2		2.0	0.20
			pP	12 24 19.0	1.4		
			eS	12 28 25.0	5.0		
			SMN	m_B=5.4		7.0	0.82
SNY	23.9	4	+iP	12 24 08.0	−0.9		
			S	12 28 24.0	4.6		
HHC	24.4	342	+iP	12 24 15.0	1.3		
			pP	12 24 24.0	1.4		
			LN	M_S=5.0		15.0	1.46
			LE			18.0	1.89
BTO	24.7	339	+P	12 24 17.5	1.2		
			pP	12 24 27.0	1.8		
			S	12 28 34.0	1.7		
			LN	M_S=4.5		12.0	0.50
			LE			12.0	0.30
			LZ	M_S=4.3		12.0	0.50
CN2	26.0	7	eP	12 24 28.4	−0.8		
MDJ	27.5	13	eP	12 24 42.0	−0.6		
GTA	28.5	323	P	12 24 51.4	−0.3		
			LN	M_S=4.6		12.0	0.61
			LZ	M_S=4.5		14.0	0.83
LSA	30.0	299	+P	12 25 05.2	−0.3		
WMQ	38.4	320	P	12 26 18.6	1.5		
			eS	12 32 14.5	5.0		
			LZ	M_S=4.7		15.0	0.82

MAR 23d 13h 43m 58.0±0.15s, SD1.56/30
26.95 S±1.92km, 176.26 W±3.00km, h161±0.77km
Kermadec Islands region (177)

MDJ	86.7	325	eP	13 56 25.0	−0.4		
DL2	87.5	316	eP	13 56 32.0	2.7		
			eS	14 06 52.0	−3.3		
WHN	87.5	306	eP	13 56 28.0	−1.5		
			LN			6.0	0.40
CN2	88.3	322	eP	13 56 34.5	1.1		
TIA	88.8	312	eP	13 56 35.1	−0.3		
GYA	91.2	299	P	13 56 48.0	1.1		
BJI	91.6	315	eP	13 56 50.0	1.6		
TIY	92.7	311	eP	13 56 52.8	−1.1		
			LZ			22.0	1.04
XAN	93.3	307	P	13 56 58.5	2.2		
KMI	93.7	296	+P	13 56 58.5	0.2		

MAR 23d 15h 15m 29.6±0.13s, SD1.16/39
54.03 N±2.34km, 160.38 E±1.39km, h36±0.25km
Near east coast of Kamchatka (218)

MDJ	22.0	257	eP	15 20 24.0	1.2		
CN2	24.9	260	eP	15 20 50.0	−1.0		
BTO	35.9	269	eP	15 22 31.0	2.0		
LZH	42.5	269	eP	15 23 25.0	0.9		
GTA	42.7	276	eP	15 23 25.3	0.0		
WMQ	46.8	289	P	15 23 58.5	0.0		

MAR 23d 15h 50m 23.1±0.19s, SD2.86/29
12.06 N±6.39km, 44.03 W±4.22km, h5±1.80km
North Atlantic Ridge (403)
M_S6.1/7,

WMQ	109.2	35	PKP	16 08 51.5	−3.4		
			PP	16 09 28.0	0.6		
GTA	118.7	31	ePKP	16 09 16.5	2.8		
			LN	M_S=6.1		26.0	3.39
			LZ	M_S=5.5		31.0	1.68
LZH	123.3	31	ePKP	16 09 27.5	4.9		
			LN	M_S=6.1		30.0	2.45
			LE			30.0	3.26
CN2	123.6	9	ePKP	16 09 25.0	2.0		
BJI	125.0	19	ePKP	16 09 27.0	1.3		
			PP	16 11 20.0	2.8		
			eSKS	16 16 40.0	5.5		
			eSS	16 28 14.0	3.2		
			LZ	M_S=5.7		24.0	1.95
TIY	125.8	23	ePKP	16 09 30.6	3.3		
			SS	16 28 23.0	2.9		
			LN	M_S=6.2		21.0	2.61
			LE			18.0	1.98
			LZ	M_S=6.1		24.0	4.72
XAN	127.4	28	ePKP	16 09 28.0	−2.5		
			LN	M_S=6.2		19.0	3.14
TIA	128.8	20	ePKP	16 09 34.9	1.8		
			LE	M_S=5.9		50.0	3.95
GYA	132.3	36	PKP	16 09 42.0	2.2		
			LN	M_S=5.9		30.0	2.30
SSE	134.8	18	ePKP	16 09 48.0	3.6		
			ePP	16 12 24.0	2.9		
			PKS	16 13 21.0	3.0		
			LN	M_S=5.9		18.0	1.51
			LZ	M_S=6.1		22.0	3.84

MAR 23d 18h 08m 02.5±0.08s, SD2.89/7
43.98 N±1.48km, 87.34 E±0.56km, h5±km
Northern Xinjiang Province (332)
M_L3.4/4,

WMQ	0.3	122	iPg	18 08 05.2	−3.0		
			Sg	18 08 07.0	−5.3		
GTA	10.4	112	eP	18 10 38.3	2.7		

MAR 23d 19h 08m 37.5±0.10s, SD1.69/32
37.07 N±1.38km, 71.43 E±1.30km, h116±0.12km
Hindu Kush region (718)

KSH	4.3	54	P	19 09 45.0	2.6		
			S	19 10 35.0	3.6		
			LE			3.0	3.90
WMQ	14.1	56	P	19 11 52.0	−1.3		
			S	19 14 28.0	1.4		
LSA	18.0	108	−P	19 12 40.5	−1.9		
GTA	22.4	75	P	19 13 28.9	1.7		

International Seismological Centre

International Seismological Centre

LZH	26.0	82	cP	19 14 02.5	0.8		
XAN	30.5	84	eP	19 14 41.7	−0.7		
GYA	31.6	99	P	19 14 52.0	0.1		

MAR 23d 19h 19m 31.3 ± 0.14s, SD1.86 / 61
23.92 N ± 1.68km, 122.61 E ± 1.72km, h33 ± 0.41km
Taiwan region (243)
M_S4.5 / 20, M_L4.4 / 13, m_b4.5 / 1,

QZH	3.8	286	ePn	19 20 27.5	−0.5		
			Sn	19 21 07.5	−5.7		
			SMN	M_L = 4.3		1.2	0.87
			SME			1.1	0.67
			LN	M_S = 4.4		4.0	3.19
SSE	7.3	350	P	19 21 16.5	−1.3		
			S	19 22 38.6	−1.2		
			SMN	M_L = 4.4		1.0	0.081
			SME			1.0	0.19
			LN	M_S = 4.2		12.0	1.73
			LE			10.0	1.22
			LZ	M_S = 4.4		14.0	3.54
NJ2	8.8	339	−P	19 21 37.8	−0.8		
			S	19 23 13.4	−3.6		
			LN	M_S = 4.9		4.5	1.03
			LE			5.0	3.42
			LZ	M_S = 4.2		14.0	1.78
WHN	9.9	314	eP	19 21 54.0	−0.1		
			LE	M_S = 4.3		12.0	1.70
			LZ	M_S = 4.4		16.0	3.00
QZN	12.8	250	eP	19 22 37.4	3.0		
			eS	19 25 00.0	2.7		
			LN	M_S = 4.2		15.0	1.20
XAN	15.6	313	eP	19 23 10.5	−0.6		
			LE	M_S = 4.5		15.0	1.61
TIY	16.3	330	eP	19 23 22.6	3.3		
			LN	M_S = 4.8		13.0	2.48
			LZ	M_S = 4.7		14.0	3.09
BJI	17.0	343	eP	19 23 32.0	4.2		
SNY	17.9	2	eP	19 23 40.1	0.8		
			LN	M_S = 4.4		16.0	0.88
			LE			16.0	0.59
			LZ	M_S = 4.3		16.0	1.18
CD2	18.1	297	eP	19 23 41.2	−1.1		
			eS	19 26 54.0	−6.6		
			LN	M_S = 4.9		7.0	1.37
KMI	18.1	278	−P	19 23 46.0	3.4		
			LE	M_S = 4.6		10.0	1.00
			LZ	M_S = 4.5		14.0	1.47
BTO	19.7	331	eP	19 24 03.0	1.9		
			sP	19 24 13.0	−0.6		
			ePP	19 24 21.0	1.8		
			eS	19 27 39.0	2.4		
			LN	M_S = 4.8		13.0	1.70
			LE			13.0	1.00
			LZ	M_S = 4.7		13.0	1.90
CN2	20.0	6	eP	19 24 04.0	0.2		
LZH	20.2	311	eP	19 24 06.5	−0.3		
			PMZ	m_b = 4.5		2.0	0.049
GTA	24.7	314	P	19 24 51.8	0.6		
WMQ	34.8	313	P	19 26 20.8	−0.4		

MAR 23d 20h 22m 43.6 ± 0.08s, SD0.98 / 86
52.65 N ± 2.58km, 169.41 W ± 1.06km, h31 ± 0.25km
Fox Islands (9)
M_S5.3 / 16, m_b5.3 / 1,

MDJ	40.0	284	eP	20 30 16.5	−1.1		
			S	20 36 25.0	4.7		
			LZ	M_S = 5.2		20.0	3.80
CN2	42.9	285	+P	20 30 40.6	−1.0		
			epP	20 30 45.6	−5.1		
			S	20 37 02.0	−1.3		
			LN	M_S = 5.3		17.0	1.20
			LE			20.0	1.80
SNY	45.2	284	−P	20 31 00.3	0.4		
			S	20 37 36.0	−0.4		
			LN	M_S = 5.2		24.0	1.75
			LE			24.0	1.28
			LZ	M_S = 4.9		24.0	1.75
DL2	48.2	282	eP	20 31 24.0	0.4		
			eS	20 38 24.0	4.0		
BJI	50.7	287	eP	20 31 42.0	−0.6		
			eS	20 38 56.0	1.5		
			LN	M_S = 5.2		18.0	1.37
			LZ	M_S = 5.0		24.0	1.95
TIA	52.7	283	−P	20 31 56.8	−0.8		
			eS	20 39 20.5	−1.3		
			LN	M_S = 5.1		15.0	0.80
HHC	52.8	291	P	20 31 59.8	1.0		
SSE	53.7	275	+P	20 32 06.0	0.4		
			LE	M_S = 5.0		16.0	0.76
			LZ	M_S = 5.0		20.0	1.40
BTO	53.8	292	P	20 32 07.5	1.0		
			sP	20 32 15.0	−4.4		
			ePP	20 34 11.0	2.8		
			eS	20 39 40.0	1.8		
			LN	M_S = 5.7		19.0	2.70
			LE			19.0	2.90
			LZ	M_S = 5.5		19.0	4.50
TIY	54.4	287	eP	20 32 11.4	0.9		
			S	20 39 50.0	5.7		
			sS	20 39 55.5	−5.2		
			LN	M_S = 5.2		18.0	1.28
			LZ	M_S = 5.1		20.0	1.87
NJ2	54.5	278	−P	20 32 11.0	−0.1		
WHN	58.3	280	eP	20 32 37.0	−1.1		
			S	20 40 35.0	−0.5		
			LZ	M_S = 5.2		22.0	1.99
XAN	59.0	287	eP	20 32 42.0	−1.3		
QZH	59.8	272	P	20 32 48.8	0.2		
GTA	60.3	297	eP	20 32 50.8	−1.8		
			LN	M_S = 5.6		26.0	1.22
			LE			20.0	3.16
LZH	60.5	292	eP	20 32 52.5	−1.0		
			PMZ	m_b = 5.3		2.0	0.073
			LN	M_S = 5.8		17.0	2.15
			LE			20.0	3.42
WMQ	63.3	308	P	20 33 12.5	−0.2		
			eS	20 41 41.0	−0.7		
			LZ	M_S = 5.2		20.0	1.84
CD2	64.3	288	−P	20 33 18.8	0.1		
GZH	64.3	275	+P	20 33 19.4	0.3		
GYA	65.8	282	P	20 33 29.0	0.0		
			pP	20 33 33.2	−5.0		
KMI	69.2	284	+P	20 33 50.0	0.0		
			S	20 42 56.0	4.9		
			LZ	M_S = 5.0		32.0	1.30
QZN	69.5	275	eP	20 33 53.6	1.6		
			eS	20 42 59.0	2.2		
KSH	72.2	312	eP	20 34 10.0	1.9		
			ePP	20 36 53.0	3.6		
			eS	20 43 30.0	2.0		
			LE	M_S = 5.6		18.0	1.90
LSA	72.3	296	+P	20 34 09.0	−0.2		

MAR 23d 23h 55m 07.2 ± 0.12s, SD1.60 / 18
13.70 N ± 1.46km, 40.40 E ± 1.61km, h8 ± 0.31km
Ethiopia (558)

International Seismological Centre

KSH	40.4	44	eP	24 02 50.0	1.6			
WMQ	50.2	44	eP	24 04 06.0	−0.5			
GTA	57.9	52	P	24 05 02.0	−0.6			
LZH	60.7	56	eP	24 05 19.0	−3.0			
GYA	62.9	67	P	24 05 39.0	1.8			

MAR 24d 12h 14m 30.5 ± 0.39s, SD1.54 / 18
24.09 N ± 2.53km, 122.44 E ± 2.59km, h5 ± km
Taiwan (244)
M_S3.6 / 1, M_L3.8 / 12,

QZH	3.6	284	ePn	12 15 28.0	0.7			
			SMN	M_L = 3.8		1.4	0.33	
			SME			1.0	0.19	
SSE	7.1	351	P	12 16 16.5	−0.8			
			SMN	M_L = 3.6		1.0	0.018	
			SME			1.0	0.037	
			LE	M_S = 3.6		6.0	0.28	
NJ2	8.5	339	+P	12 16 37.0	−0.9			
			LN			1.2	0.10	
			LE			1.0	0.059	
WHN	9.6	314	eP	12 16 51.0	−2.2			
GTA	24.5	314	P	12 19 52.2	0.2			

MAR 24d 17h 21m 56.1 ± 0.12s, SD1.39 / 33
80.08 N ± 1.33km, 0.06 W ± 1.43km, h11 ± 0.29km
Greenland Sea (640)

WMQ	46.8	83	−iP	17 30 29.5	1.1			
CN2	52.7	48	+P	17 31 13.6	0.3			
GTA	53.2	73	−P	17 31 17.3	0.3			
SNY	54.4	50	−P	17 31 25.8	0.0			
BJI	55.1	57	eP	17 31 32.0	0.9			
TIY	56.8	61	eP	17 31 44.9	1.2			
			LZ	M_S = 4.7		20.0	0.62	
GYA	66.9	69	P	17 32 51.4	−0.3			

MAR 24d 17h 55m 07.3 ± 0.08s, SD0.63 / 53
21.97 S ± 1.14km, 179.47 W ± 0.36km, h594 ± 1.15km
South of Fiji (171)

GZH	79.3	300	eP	18 06 13.5	−0.4			
NJ2	79.8	311	−P	18 06 17.2	0.6			
MDJ	80.9	326	−P	18 06 22.8	0.2			
WHN	82.2	307	eP	18 06 29.0	−0.1			
SNY	82.5	321	+P	18 06 29.6	−0.7			
CN2	82.6	323	+iP	18 06 30.8	−0.4			
			epP	18 08 37.0	0.5			
TIA	83.3	313	−P	18 06 34.5	0.2			
BJI	86.0	316	eP	18 06 47.0	−0.5			
GYA	86.2	300	P	18 06 48.8	0.1			
TIY	87.2	313	eP	18 06 53.8	0.2			
XAN	87.9	308	eP	18 06 57.0	0.2			
KMI	88.8	298	−P	18 07 01.5	0.4			
HHC	89.4	315	P	18 07 04.2	0.5			
BTO	90.3	314	eP	18 07 08.2	0.3			
GTA	96.8	310	P	18 07 37.0	−0.6			

MAR 25d 00h 29m 51.1 ± 0.17s, SD1.08 / 53
20.22 N ± 4.04km, 156.57 W ± 1.53km, h5 ± km
Hawaiian Islands region (612)

MDJ	64.7	311	eP	00 40 32.6	−0.6			
CN2	67.8	310	−P	00 40 52.4	−0.3			
SNY	69.4	308	+P	00 41 03.6	0.8			
BJI	75.3	308	eP	00 41 38.0	0.4			
HHC	78.4	309	eP	00 41 54.5	−1.1			
TIY	78.7	306	eP	00 41 56.7	−0.2			
			LZ	M_S = 4.8		24.0	0.54	
WHN	79.2	299	eP	00 42 01.0	1.2			
BTO	79.6	309	eP	00 42 01.8	−0.3			
XAN	82.5	303	eP	00 42 16.5	−0.8			
LZH	85.7	307	eP	00 42 34.0	0.4			
GYA	87.0	297	P	00 42 39.4	−0.2			
GTA	87.4	311	P	00 42 41.1	−0.5			
CD2	87.7	302	eP	00 42 44.8	1.6			
KMI	90.7	297	eP	00 42 59.5	1.8			
WMQ	93.3	319	P	00 43 12.8	3.3			

MAR 25d 02h 07m 55.2 ± 0.08s, SD1.95 / 36
44.72 N ± 1.57km, 79.67 E ± 1.28km, h31 ± 0.40km
Eastern Kazakhstan (329)
M_S4.3 / 3, M_L4.6 / 4,

WMQ	5.8	96	Pn	02 09 21.5	1.2			
			Sg	02 10 52.0	−6.4			
KSH	5.9	209	ePn	02 09 23.0	1.9			
			Sn	02 10 30.0	0.7			
			LN			3.0	7.50	
GTA	15.9	103	eP	02 11 36.1	−2.1			
			LE	M_S = 4.3		11.0	0.68	
			LZ	M_S = 4.0		13.0	0.60	
BTO	22.6	90	eP	02 12 56.0	0.9			
CD2	23.4	118	eP	02 13 06.0	3.5			
TIY	25.5	94	eP	02 13 23.5	0.6			
			S	02 17 44.5	−0.6			
			sS	02 18 06.5	6.3			
			LN	M_S = 4.2		12.0	0.28	
			LZ	M_S = 4.3		18.0	0.73	
KMI	27.0	129	+P	02 13 39.0	1.6			
GYA	28.3	121	P	02 13 51.0	2.1			
WHN	30.6	106	+P	02 14 11.5	2.2			

MAR 25d 03h 57m 05.2 ± 0.14s, SD2.28 / 19
32.11 S ± 4.75km, 14.35 W ± 2.82km, h2 ± 1.12km
South Atlantic Ridge (410)

GTA	127.1	62	ePKP	04 16 12.7	0.2			
BJI	139.7	64	ePKP	04 16 32.0	−3.9			
SNY	145.3	62	iPKP	04 16 44.6	−1.1			
CN2	146.5	58	ePKP	04 16 47.0	−0.8			
MDJ	149.3	56	ePKP	04 16 55.5	3.1			

MAR 25d 04h 19m 42.9 ± 0.15s, SD2.38 / 12
32.14 S ± 3.71km, 14.56 W ± 3.46km, h9 ± 1.08km
South Atlantic Ridge (410)

SNY	145.5	62	+PKP	04 39 21.4	−1.1			
CN2	146.7	58	ePKP	04 39 27.0	2.4			
MDJ	149.5	56	ePKP	04 39 32.5	3.4			

MAR 25d 05h 21m 44.4 ± 0.09s, SD0.94 / 64
19.22 S ± 1.05km, 177.47 W ± 1.22km, h557 ± 0.74km
Fiji region (181)
m_B5.4 / 4,

SSE	77.3	309	−P	05 32 42.5	−1.0			
			eS	05 41 46.0	−3.1			
QZN	80.8	294	eP	05 33 02.5	0.3			
CN2	81.6	322	−P	05 33 05.8	−0.4			
			pP	05 35 05.0	0.0			
			SKS	05 42 25.0	−4.5			
			S	05 42 33.0	1.2			
			SME	m_B = 5.7		6.0	0.80	
WHN	82.1	306	eP	05 33 09.0	0.3			
			S	05 42 38.0	1.3			
			SME	m_B = 5.5		10.0	0.90	
TIA	82.8	312	P	05 33 11.6	−0.7			
BJI	85.3	315	eP	05 33 24.0	−0.8			
			pP	05 35 28.0	3.2			
			eSKS	05 42 49.0	−5.6			
GYA	86.5	299	P	05 33 30.8	0.6			
			pP	05 35 36.0	5.6			
			SKS	05 43 04.0	2.1			

International Seismological Centre

			S	05 43 23.0	4.7			
TIY	86.8	312	+P	05 33 32.2	0.4			
			S	05 43 24.5	3.0			
			SME	$m_B = 5.3$		10.0	0.41	
XAN	87.8	307	eP	05 33 36.5	0.2			
			SKS	05 43 08.0	−2.0			
			S	05 43 30.0	−0.2			
KMI	89.2	297	eP	05 33 44.0	0.7			
			S	05 43 50.0	6.7			
BTO	89.8	313	eP	05 33 45.0	−0.7			
CD2	90.5	303	eP	05 33 49.5	0.4			
LZH	92.4	307	eP	05 33 57.5	−0.3			
GTA	96.6	309	P	05 34 15.4	−1.3			
			SMN			18.0	0.61	

MAR 25d 15h 43m 14.1 ± 0.10s, SD1.46 / 61
13.87 N ± 1.48km, 124.48 E ± 1.93km, h32 ± 0.34km
Luzon (249)
M_S4.0 / 2,

QZN	14.9	292	eP	15 46 41.0	−3.9			
			eS	15 49 25.0	−5.3			
			LE	$M_S = 4.1$		15.0	0.60	
WHN	19.0	332	eP	15 47 35.5	−0.9			
GYA	20.9	310	P	15 47 56.4	0.3			
TIA	23.2	345	eP	15 48 19.0	−0.3			
KMI	23.3	302	+P	15 48 22.5	1.9			
CD2	25.5	315	P	15 48 41.8	0.2			
TIY	26.1	338	eP	15 48 46.5	−0.2			
			LZ	$M_S = 4.1$		18.0	0.48	
BJI	27.1	346	eP	15 48 55.0	−1.0			
SNY	27.9	359	eP	15 49 03.0	−0.2			
LZH	28.8	324	eP	15 49 12.5	0.3			
BTO	29.5	337	eP	15 49 17.4	−0.4			
CN2	29.8	1	eP	15 49 22.0	1.2			
MDJ	30.9	7	eP	15 49 34.5	3.8			
GTA	33.5	324	P	15 49 52.2	−0.5			
LSA	34.6	303	+P	15 50 02.5	−0.2			
WMQ	43.3	321	eP	15 51 16.0	0.7			

MAR 25d 16h 20m 46.6 ± 0.13s, SD1.75 / 30
10.20 N ± 2.20km, 60.66 W ± 1.22km, h49 ± 1.14km
Near coast of Venezuela (97)

GTA	127.4	19	ePKP	16 39 50.0	2.7			
BJI	129.9	3	ePKP	16 39 55.0	3.1			
XAN	134.9	12	ePKP	16 40 03.2	1.8			
GYA	141.5	18	PKP	16 40 15.4	1.9			

MAR 25d 17h 20m 53.5 ± 0.11s, SD1.80 / 34
31.31 S ± 2.35km, 67.89 W ± 3.74km, h26 ± 0.67km
San Juan Province, Argentina (137)

KSH	149.6	64	ePKP	17 40 42.0	4.8			
LSA	161.9	90	PKP	17 40 53.6	0.0			
GTA	167.1	48	PKP	17 40 58.0	−0.1			
KMI	169.7	124	ePKP	17 41 00.0	0.3			
CD2	172.8	91	ePKP	17 41 01.8	0.5			
GYA	173.2	134	PKP	17 41 01.4	−0.1			
			pPKP	17 41 10.4	1.6			
			PKP2	17 42 28.6	−1.1			
			pPKP2	17 42 37.2				
TIA	173.6	321	PKP	17 41 06.0	4.5			
XAN	176.2	44	ePKP	17 41 02.2	−0.2			

MAR 25d 18h 37m 00.3 ± 0.07s, SD1.07 / 59
23.55 N ± 1.53km, 143.40 E ± 1.50km, h50 ± 0.26km
Volcano Islands region (213)
M_S4.0 / 1,

SSE	21.1	296	+iP	18 41 42.5	−0.5			
			eS	18 45 32.0	2.5			
			esS	18 45 52.0	3.7			
			LZ	$M_S = 4.0$		18.0	0.54	
NJ2	23.3	297	−P	18 42 05.0	0.5			
MDJ	23.9	335	eP	18 42 10.6	0.4			
SNY	24.6	323	+iP	18 42 17.0	−0.5			
CN2	25.0	328	eP	18 42 21.5	0.0			
TIA	26.0	305	P	18 42 29.3	−0.9			
WHN	26.7	291	eP	18 42 38.0	0.5			
BJI	28.2	312	eP	18 42 49.0	−2.0			
GYA	33.3	283	P	18 43 36.4	0.1			
CD2	35.9	291	eP	18 43 57.2	−0.5			
KMI	37.0	281	eP	18 44 08.0	0.6			
GTA	40.0	304	P	18 44 33.5	1.2			
LSA	46.8	289	+P	18 45 28.3	0.6			
WMQ	49.6	308	P	18 45 49.3	0.3			
KSH	58.4	303	P	18 46 56.0	2.0			

MAR 25d 19h 36m 45.3 ± 0.05s, SD0.66 / 97
62.24 N ± 0.81km, 124.25 W ± 0.94km, h11 ± 0.15km
Northwest Territories (679)
M_S6.8 / 52, m_B6.5 / 49,

MDJ	58.3	306	eP	19 46 42.5	−0.7			
			PP	19 48 54.0	0.8			
			S	19 54 40.0	−2.8			
			sS	19 54 47.0	−6.6			
			LZ	$M_S = 6.2$		15.0	14.7	
CN2	60.5	309	+iP	19 46 57.8	−0.9			
			PMZ	$m_B = 6.7$		5.0	5.20	
			sP	19 47 03.0	−4.1			
			PP	19 49 11.0	−2.3			
			eS	19 55 06.0	−7.0			
			SMN	$m_B = 6.4$		8.0	3.30	
			eSS	19 59 05.0	−6.0			
			LN	$M_S = 6.6$		13.0	11.0	
			LE			17.0	15.7	
SNY	62.9	309	+iP	19 47 14.0	−0.8			
			PMZ	$m_B = 6.6$		7.0	5.30	
			PcP	19 47 51.5	−0.3			
			PP	19 49 36.0	2.1			
			S	19 55 40.0	−2.1			
			SMN			16.0	3.11	
			SME			16.0	2.55	
			LN	$M_S = 6.8$		20.0	18.0	
			LE			20.0	36.0	
DL2	66.2	309	+iP	19 47 36.5	0.5			
			PMZ	$m_B = 6.7$		6.0	5.77	
			PP	19 50 08.0	4.8			
			iS	19 56 28.0	4.2			
			SMN	$m_B = 6.5$		8.0	3.24	
			SME			10.0	3.12	
			LN	$M_S = 6.8$		14.0	10.5	
			LE			14.0	21.9	
BJI	67.1	314	+P	19 47 41.0	−0.8			
			PMZ	$m_B = 6.3$		7.0	2.91	
			PP	19 50 10.0	−0.5			
			eS	19 56 36.0	1.2			
			LN	$M_S = 6.9$		16.0	12.3	
			LE			18.0	35.2	
HHC	67.9	317	+iP	19 47 46.5	−0.5			
			pP	19 47 56.5	3.9			
			PP	19 50 20.0	2.4			
			S	19 56 45.5	2.6			
			SS	20 01 06.5	0.6			
			LN	$M_S = 6.7$		15.0	17.5	
			LE			15.0	11.8	
BTO	68.6	318	+iP	19 47 51.0	−0.4			
			PMZ	$m_B = 6.4$		6.0	2.90	
			PcP	19 48 14.0	−1.4			

International Seismological Centre

			PP	19 50 24.0	−0.2			
			S	19 56 52.0	0.5			
			eSS	20 01 20.0	2.6			
			LN	M_S=6.7		14.0	16.8	
			LE			14.0	13.1	
			LZ	M_S=6.5		14.0	21.5	
TIA	70.2	311	P	19 48 00.0	−1.1			
			S	19 57 14.0	3.6			
			SMN	m_B=6.2		11.0	2.34	
			LN	M_S=6.8		17.0	9.44	
			LE			17.0	28.3	
TIY	70.5	315	+iP	19 48 02.0	−0.7			
			PMZ	m_B=6.5		6.5	3.66	
			PP	19 50 39.0	−0.6			
			S	19 57 15.5	2.2			
			SKS	19 57 55.0	−3.9			
			ScS	19 58 02.0	1.1			
			SS	20 01 46.5	0.7			
			LZ	M_S=6.7		14.0	29.3	
WMQ	71.2	336	+iP	19 48 08.0	0.7			
			PMZ	m_B=6.4		5.0	2.17	
			sP	19 48 16.5	0.9			
			PP	19 50 45.0	−1.3			
			S	19 57 28.0	6.0			
			SMN	m_B=6.5		7.0	2.71	
			LN	M_S=6.6		12.0	9.85	
			LE			14.0	11.3	
GTA	72.7	326	+iP	19 48 16.3	0.4			
			PP	19 51 00.0	1.5			
			PMZ	m_B=6.3		9.0	2.93	
			iS	19 57 43.5	3.2			
			SMN	m_B=6.2		7.5	1.62	
			SS	20 02 24.0	4.0			
			LN	M_S=6.7		15.0	19.3	
			LZ	M_S=6.5		15.0	19.3	
SSE	73.3	305	−iP	19 48 20.0	0.4			
			PMZ	m_B=6.6		7.0	5.43	
			PP	19 51 03.0	−1.1			
			S	19 57 50.0	4.1			
			SMN	m_B=6.3		7.0	1.96	
			LN	M_S=6.5		16.0	5.90	
			LE			16.0	13.0	
			LZ	M_S=6.4		16.0	16.0	
NJ2	73.3	308	+iP	19 48 20.0	0.3			
			PMZ	m_B=6.7		5.0	4.33	
			iS	19 57 47.0	−0.6			
			LN	M_S=6.8		16.5	6.15	
			LE			15.0	24.1	
			LZ	M_S=5.9		18.0	6.56	
LZH	74.6	321	+iP	19 48 28.0	0.5			
			PMZ	m_B=6.7		5.0	3.91	
			eS	19 57 57.0	−5.7			
			LN	M_S=6.8		15.0	7.47	
			LE			18.0	28.7	
XAN	75.0	317	+P	19 48 28.4	−0.9			
			S	19 58 06.0	1.5			
			LN	M_S=7.2		18.0	36.5	
			LE			18.0	63.7	
WHN	76.3	311	+iP	19 48 37.8	0.8			
			PMZ	m_B=6.8		5.0	5.56	
			PP	19 51 32.0	2.9			
			iS	19 58 22.0	1.1			
			SMN	m_B=6.6		6.0	3.20	
			LE	M_S=6.8		17.0	23.7	
			LZ	M_S=6.2		20.0	12.1	
KSH	77.3	344	+iP	19 48 44.0	1.5			
			iS	19 58 37.0	5.3			
			SMN	m_B=6.6		7.0	3.20	
			LN	M_S=6.8		12.0	17.0	
CD2	79.5	319	+iP	19 48 54.8	0.3			
			S	19 58 55.5	2.2			
			sS	19 59 10.0	5.6			
			SMN	m_B=6.3		10.0	2.61	
			LN	M_S=6.8		15.0	20.5	
QZH	79.8	305	+iP	19 48 57.0	0.7			
			PMZ	m_B=6.7		4.0	3.56	
			pP	19 49 02.0	0.1			
			S	19 59 00.0	3.1			
			SMN	m_B=6.4		6.0	1.11	
			SME			6.0	1.35	
			LN	M_S=6.2		13.0	4.33	
GYA	82.7	315	+P	19 49 12.0	0.5			
			PP	19 52 20.0	−2.1			
			S	19 59 28.0	1.5			
			LN	M_S=6.7		16.0	15.2	
			LE			16.0	9.60	
GZH	83.5	309	+P	19 49 16.0	0.6			
			PMZ	m_B=6.8		5.0	4.64	
			S	19 59 40.0	5.6			
			LN	M_S=6.7		18.0	6.80	
			LE			19.0	19.9	
LSA	84.1	330	+P	19 49 19.5	0.7			
			pP	19 49 28.0	4.0			
			S	19 59 44.0	3.9			
			LN	M_S=6.5		15.0	3.10	
			LE			14.0	8.10	
KMI	85.2	318	+iP	19 49 25.0	0.7			
			PMZ	m_B=6.8		6.0	5.20	
			sP	19 49 38.0	5.6			
			PP	19 52 42.0	−0.1			
			S	19 59 49.0	−2.4			
			SS	20 05 27.0	−1.5			
			LE	M_S=7.1		18.0	45.1	
			LZ	M_S=6.8		14.0	28.8	
QZN	88.5	310	+iP	19 49 41.0	1.0			
			PMZ	m_B=6.6		7.0	3.50	
			PP	19 53 10.0	0.7			
			SKS	20 00 08.5	3.0			
			S	20 00 26.0	3.5			
			LN	M_S=6.8		17.0	12.3	
			LE			17.0	18.5	

MAR 25d 19h 52m 35.4 ± 0.07s, SD0.85 / 46
62.29 N ± 1.19km, 124.20 W ± 1.00km, h11 ± 0.25km
Northwest Territories (679)

MDJ	58.3	306	eP	20 02 31.5	−1.7
CN2	60.5	309	eP	20 02 48.0	−0.7
SNY	62.9	309	eP	20 03 04.0	−0.8
BJI	67.1	314	eP	20 03 30.0	−1.8
WMQ	71.2	336	P	20 03 57.4	0.3
GTA	72.6	326	P	20 04 05.8	0.0
NJ2	73.3	308	−P	20 04 09.6	−0.1
WHN	76.3	311	−P	20 04 27.5	0.5
CD2	79.5	320	eP	20 04 44.8	0.3
GYA	82.7	315	P	20 05 02.0	0.5

MAR 25d 20h 08m 22.6 ± 0.05s, SD1.05 / 54
45.36 N ± 2.06km, 150.97 E ± 1.50km, h35 ± 0.65km
Kurile Islands region (222)

MDJ	15.1	275	eP	20 11 55.5	−0.4
CN2	18.2	274	eP	20 12 33.5	−1.3
SNY	20.1	270	−iP	20 12 56.2	−0.3
BJI	26.0	271	eP	20 13 55.0	0.7
TIA	27.0	262	eP	20 14 03.8	−0.3
HHC	28.9	275	eP	20 14 21.6	0.5
TIY	29.6	269	eP	20 14 27.9	0.6

International Seismological Centre

BTO	30.1	276	eP	20 14 29.2	−2.4			
WHN	32.1	255	−P	20 14 49.5	0.1			
XAN	33.9	265	eP	20 15 04.5	−0.4			
LZH	36.4	272	eP	20 15 27.0	0.4			
GTA	37.7	280	+iP	20 15 37.9	0.6			
CD2	39.3	265	+P	20 15 51.4	1.2			
GYA	40.0	257	P	20 15 55.6	−0.3			
WMQ	44.0	292	eP	20 16 30.7	1.3			

MAR 25d 21h 58m 19.4 ± 0.05s, SD0.57 / 90
54.93 N ± 1.43km, 159.88 W ± 0.57km, h32 ± 0.05km
Alaska Peninsula (12)
M_S5.2 / 9, m_B6.0 / 3,

MDJ	44.8	287	eP	22 06 32.0	−0.7			
CN2	47.6	289	+iP	22 06 54.8	−0.1			
			PMZ			3.0	0.50	
			LN	M_S = 5.2		26.0	2.20	
SNY	50.0	288	+iP	22 07 13.6	0.6			
			S	22 14 20.0	0.5			
			LN	M_S = 5.4		30.0	2.96	
			LE			30.0	1.53	
DL2	53.1	287	P	22 07 36.0	−0.3			
			eS	22 15 00.0	−3.1			
BJI	55.2	292	eP	22 07 52.0	−0.2			
HHC	57.1	295	−P	22 08 06.0	0.3			
TIA	57.5	288	P	22 08 07.9	−0.5			
BTO	58.1	296	+P	22 08 13.0	0.4			
			pP	22 08 17.0	−4.9			
			ePP	22 10 20.0	−2.2			
			S	22 16 09.0	0.2			
			LN	M_S = 5.2		14.0	0.60	
			LE			14.0	0.70	
TIY	58.9	292	+iP	22 08 18.5	0.0			
			pP	22 08 29.0	1.1			
			eS	22 16 19.0	−2.3			
			LN	M_S = 5.1		13.0	0.48	
			LE			13.0	0.39	
			LZ	M_S = 4.8		30.0	1.24	
SSE	59.0	281	−P	22 08 19.0	0.0			
			PMZ	m_B = 6.0		4.0	0.87	
			S	22 16 24.0	3.1			
			esS	22 16 42.0	4.3			
NJ2	59.6	283	+P	22 08 22.8	−0.3			
WHN	63.3	286	eP	22 08 47.0	−0.8			
XAN	63.6	292	+P	22 08 49.5	−0.3			
GTA	64.1	302	+iP	22 08 53.0	−0.5			
LZH	64.7	297	+iP	22 08 57.5	0.4			
WMQ	66.2	313	+iP	22 09 07.0	0.4			
			S	22 17 55.5	4.9			
			LN	M_S = 5.4		20.0	1.54	
			LZ	M_S = 5.0		22.0	1.15	
CD2	68.7	294	+P	22 09 23.0	0.2			
			S	22 18 26.0	4.4			
GZH	69.6	281	eP	22 09 28.0	0.0			
GYA	70.7	289	+P	22 09 35.0	0.3			
			S	22 18 47.0	2.6			
KMI	73.9	291	+P	22 09 54.0	0.2			
KSH	74.5	318	eP	22 09 58.0	0.5			
			eS	22 19 34.0	4.0			
			LE	M_S = 5.5		7.0	0.60	
QZN	74.8	281	eP	22 10 00.0	1.0			
LSA	76.2	302	+P	22 10 07.0	−0.1			

MAR 26d 03h 34m 40.4 ± 0.11s, SD1.59 / 65
1.07 S ± 1.48km, 126.74 E ± 2.51km, h45 ± 0.36km
Molucca Sea (269)
M_S4.6 / 2,

QZN	26.0	321	eP	03 40 12.1	1.0			
			eS	03 44 42.0	6.0			
SSE	32.4	351	eP	03 41 09.2	0.4			
			pP	03 41 21.5	1.6			
			eS	03 46 18.0	−0.9			
GYA	33.5	326	P	03 41 22.0	3.5			
WHN	33.6	340	eP	03 41 20.1	1.3			
NJ2	33.8	348	+P	03 41 21.6	1.1			
TIA	38.2	347	eP	03 41 56.2	−1.5			
CD2	38.6	327	eP	03 42 00.2	−1.1			
XAN	38.7	336	eP	03 42 01.4	−1.1			
DL2	40.1	354	eP	03 42 12.5	−0.9			
TIY	40.8	343	eP	03 42 19.0	−0.6			
			S	03 48 27.0	1.0			
			LE	M_S = 4.8		15.0	0.65	
BJI	42.0	348	eP	03 42 29.0	−0.7			
LZH	42.7	332	eP	03 42 36.0	0.8			
SNY	42.8	357	−P	03 42 34.8	−1.2			
BTO	44.2	342	eP	03 42 52.0	4.6			
CN2	44.7	359	+P	03 42 56.2	4.9			
MDJ	45.6	3	eP	03 42 57.0	−1.2			
GTA	47.2	331	+iP	03 43 11.9	0.2			
WMQ	56.7	327	P	03 44 22.3	0.0			
			eS	03 52 06.9	−3.0			

MAR 26d 06h 11m 19.8 ± 0.11s, SD1.10 / 37
57.90 N ± 1.41km, 143.15 W ± 0.84km, h22 ± 0.65km
Gulf of Alaska (15)

CN2	55.0	298	−P	06 20 51.6	−0.8			
			pP	06 20 57.6	−2.4			
BJI	62.2	302	eP	06 21 42.5	−0.4			
GTA	69.7	313	P	06 22 31.0	0.1			
XAN	70.5	303	P	06 22 35.0	−0.3			
LZH	70.9	308	eP	06 22 39.0	0.7			
CD2	75.4	305	eP	06 23 00.1	−4.4			
GYA	77.9	301	P	06 23 19.0	0.3			

MAR 26d 06h 58m 12.5 ± 0.22s, SD1.64 / 5
42.11 N ± 1.09km, 117.78 E ± 1.84km, h10 ± km
North-Eastern China (658)
M_L3.7 / 4,

SNY	4.3	92	ePg	06 59 30.1	1.1			
			Sg	07 00 27.3	−0.9			
			SMN	M_L = 3.7		1.0	0.10	
			SME			1.0	0.14	
DL2	4.3	136	ePn	06 59 18.0	−1.0			
			Sn	07 00 12.0	0.2			
			SMN	M_L = 3.7		0.4	0.15	
			SME			0.4	0.093	
CN2	5.9	71	Pg	06 59 55.8	−0.5			
			SMN	M_L = 3.7		0.8	0.040	
			SME			0.8	0.080	

MAR 26d 08h 42m 17.8 ± 0.25s, SD2.90 / 21
29.71 N ± 4.11km, 67.40 E ± 2.13km, h5 ± km
Pakistan (710)
M_S4.4 / 3,

KSH	12.0	33	eP	08 45 18.0	4.6			
			eS	08 47 34.0	4.7			
			LN	M_S = 4.6		10.0	1.90	
WMQ	21.4	43	P	08 47 11.0	1.6			
GTA	28.3	61	eP	08 48 13.6	−1.0			

MAR 26d 09h 42m 37.5 ± 0.07s, SD1.08 / 36
18.26 S ± 1.14km, 168.05 E ± 1.28km, h16 ± 0.22km
Vanuatu (New Hebrides) (186)

WHN	70.9	313	eP	09 53 55.5	−0.9
DL2	71.6	323	eP	09 54 00.5	−0.1
MDJ	71.7	332	+P	09 54 01.4	−0.3

International Seismological Centre

CN2	73.0	329	−P	09 54 08.4	−1.1			
			sP	09 54 20.0	1.2			
BJI	75.5	321	eP	09 54 22.5	−1.0			
LZH	81.2	312	eP	09 54 55.5	0.1			
GTA	85.6	314	P	09 55 17.6	−0.2			

MAR 26d 12h 07m 28.8 ± 0.07s, SD0.82 / 45
33.14 N ± 0.91km, 13.23 E ± 1.06km, h10 ± 0.21km
Near coast of Libya (401)
M_S5.2 / 1,

WMQ	57.5	56	P	12 17 20.5	−0.5			
GTA	67.5	57	P	12 18 27.0	−1.0			
LZH	71.8	58	eP	12 18 55.0	0.3			
BTO	73.9	52	eP	12 19 07.2	0.4			
KMI	76.3	69	eP	12 19 21.0	0.1			
XAN	76.5	58	eP	12 19 21.6	0.1			
TIY	77.0	53	−P	12 19 24.5	0.0			
			eS	12 29 12.5	0.3			
			sS	12 29 26.0	4.9			
			LE	M_S = 5.2		16.0	0.64	
			LZ	M_S = 5.0		22.0	0.78	
BJI	78.2	50	eP	12 19 31.0	−0.1			
GYA	78.7	66	P	12 19 33.2	−0.7			
CN2	81.6	43	eP	12 19 49.0	−0.5			
			eS	12 29 57.0	−4.0			
			LZ	M_S = 5.2		18.0	0.90	

MAR 26d 18h 49m 18.4 ± 0.08s, SD0.98 / 27
62.38 N ± 0.27km, 147.47 W ± 0.69km, h62 ± 0.75km
Southern Alaska (2)

MDJ	48.7	289	eP	18 57 59.0	0.0			
CN2	51.1	292	eP	18 58 17.0	−0.8			
SNY	53.5	292	eP	18 58 35.4	−0.4			
GTA	65.2	308	eP	18 59 55.6	−0.5			
GYA	73.9	296	P	19 00 48.8	−0.6			

MAR 26d 20h 35m 12.4 ± 0.06s, SD0.89 / 72
40.19 N ± 1.00km, 19.92 E ± 1.04km, h38 ± 0.45km
Greece–Albania border region (392)
M_S5.2 / 2, m_b5.1 / 1,

KSH	42.4	72	eP	20 43 06.5	1.2			
WMQ	49.2	62	P	20 44 00.0	0.4			
			S	20 51 04.0	3.4			
			LZ	M_S = 4.6		18.0	0.61	
GTA	59.3	63	+iP	20 45 12.8	−0.7			
LZH	63.7	64	eP	20 45 43.0	−0.3			
			PMZ	m_b = 5.1		2.0	0.054	
BTO	65.4	57	eP	20 45 53.0	−1.3			
HHC	66.3	56	eP	20 46 00.2	0.4			
CD2	66.5	69	−P	20 46 00.3	−0.5			
XAN	68.3	63	+P	20 46 11.8	−0.8			
TIY	68.6	58	eP	20 46 14.0	−0.3			
			LN	M_S = 5.0		15.0	0.43	
			LZ	M_S = 4.9		18.0	0.61	
KMI	69.0	74	−P	20 46 16.0	−1.0			
BJI	69.6	54	eP	20 46 20.5	−0.1			
GYA	71.1	71	P	20 46 28.6	−1.0			
TIA	72.5	57	P	20 46 37.2	−0.7			
CN2	72.9	47	+P	20 46 40.4	0.5			
SNY	73.0	49	−iP	20 46 41.3	0.4			
WHN	74.1	63	eP	20 46 47.0	−0.2			
MDJ	74.6	44	eP	20 46 49.5	−0.5			
NJ2	76.2	60	−P	20 46 59.0	−0.3			
QZN	77.9	75	eP	20 47 09.4	0.5			
SSE	78.3	59	eP	20 47 11.0	−0.2			

MAR 26d 21h 25m 12.3 ± 0.16s, SD1.51 / 24
9.98 S ± 3.09km, 107.32 E ± 1.83km, h37 ± 0.49km
South of Java (282)

KMI	35.2	353	eP	21 32 07.0	1.6			
GYA	36.2	359	P	21 32 14.6	0.4			
WHN	40.9	9	eP	21 32 53.0	0.4			
LSA	42.4	339	P	21 33 05.1	−0.9			
XAN	43.8	2	eP	21 33 15.6	−1.2			
GTA	49.6	352	P	21 34 02.2	−0.6			
WMQ	56.4	343	P	21 34 52.5	−0.8			

MAR 26d 22h 58m 41.9 ± 0.07s, SD1.30 / 103
38.41 N ± 1.41km, 73.23 E ± 1.12km, h117 ± 0.37km
Tadzhikistan (715)
m_B5.6 / 18, m_b5.6 / 2,

KSH	2.4	61	iP	22 59 22.0	1.0			
			S	22 59 54.0	4.5			
			LN			4.0	28.2	
WMQ	12.2	59	+iP	23 01 30.5	−2.2			
			sP	23 02 05.0	0.8			
			S	23 03 45.0	−0.9			
			LN			5.0	10.9	
LSA	17.2	115	P	23 02 35.0	−1.7			
			PMZ	m_B = 5.6		4.0	1.10	
			S	23 05 35.0	−6.4			
GTA	20.7	79	+iP	23 03 15.6	0.8			
			PMZ			3.0	1.76	
			sP	23 03 52.0	−0.4			
			S	23 07 00.0	6.4			
			SMN	m_B = 6.0		4.5	1.80	
			LE			9.5	1.80	
			LZ			10.0	1.29	
LZH	24.4	86	+iP	23 03 53.0	1.7			
			PMZ	m_b = 5.5		2.0	0.37	
			sP	23 04 25.5	−4.4			
			eS	23 08 05.0	4.7			
			SME			20.0	1.13	
			LN			11.0	0.92	
			LE			7.0	1.11	
CD2	26.1	97	eP	23 04 07.4	0.3			
			epP	23 04 32.0	0.2			
			S	23 08 31.0	3.8			
			LE			6.0	1.38	
KMI	28.2	109	+P	23 04 26.0	−0.6			
			S	23 09 02.0	0.5			
			SME	m_B = 5.2		6.0	0.46	
			SS	23 10 31.5	−3.1			
			LN			11.0	0.80	
BTO	28.3	74	+P	23 04 27.0	−0.4			
			pP	23 04 50.0	−2.2			
			sP	23 05 05.0	−1.5			
			ePP	23 05 24.0	1.1			
			S	23 09 05.0	1.8			
			sS	23 09 54.0	5.9			
			LN			9.0	0.70	
			LE			12.0	1.00	
			LZ			12.0	1.00	
XAN	29.0	88	+iP	23 04 32.8	−0.4			
			sP	23 05 11.7	−0.8			
			S	23 09 12.0	−1.7			
			sS	23 09 59.0	0.2			
			LN			11.0	0.92	
			LE			13.0	1.16	
HHC	29.5	73	+P	23 04 38.0	0.5			
			pP	23 05 04.0	1.5			
			S	23 09 26.0	4.9			
			LN			5.0	1.86	
			LE			5.0	1.24	
GYA	30.5	103	P	23 04 45.4	−0.9			
			pP	23 05 10.4	−1.1			

International Seismological Centre

			S	23 09 38.0	1.2		
TIY	30.7	79	+P	23 04 48.5	0.0		
			pP	23 05 15.5	1.8		
			S	23 09 45.5	4.8		
			SME	$m_B = 5.3$		7.0	0.78
			sS	23 10 22.0	−4.2		
			LE			7.0	0.94
			LZ			30.0	2.33
BJI	33.1	73	eP	23 05 09.0	0.2		
			PcP	23 07 49.5	0.3		
			eS	23 10 18.0	−0.3		
			eScP	23 11 22.0	0.8		
WHN	34.6	90	+iP	23 05 22.5	0.9		
			sP	23 05 56.5	−5.0		
			eS	23 10 42.0	0.6		
			SME	$m_B = 5.7$		4.0	0.94
TIA	34.7	80	P	23 05 23.7	0.6		
			S	23 10 46.0	2.8		
			LN			8.5	0.71
			LE			8.5	0.77
QZN	37.1	111	eP	23 05 44.4	1.0		
			ePP	23 07 11.5	−0.2		
			eS	23 11 18.0	−2.9		
			eSS	23 13 58.0	1.3		
GZH	37.4	102	eP	23 05 47.0	1.6		
DL2	37.4	74	eP	23 05 47.0	1.2		
			PP	23 07 16.0	0.8		
			S	23 11 24.0	−0.4		
NJ2	37.5	86	+P	23 05 47.2	0.8		
			PcP	23 08 02.6	0.4		
			S	23 11 27.0	1.6		
SNY	38.2	68	+iP	23 05 52.0	−0.3		
			pP	23 06 18.0	−0.5		
			PP	23 07 20.0	−4.1		
			PcP	23 08 05.3	0.9		
			S	23 11 36.0	−0.1		
			SME	$m_B = 5.5$		6.0	0.59
			LN			9.0	0.86
CN2	39.2	65	+iP	23 06 00.7	0.4		
			PcP	23 08 07.8	0.4		
			S	23 11 52.0	1.4		
			SMN	$m_B = 5.4$		4.0	0.30
SSE	39.7	86	+P	23 06 06.0	1.3		
			pP	23 06 30.0	−1.0		
			esP	23 06 39.5	−5.4		
			ePP	23 07 44.0	2.9		
			S	23 12 00.0	1.4		
			SMN	$m_B = 5.3$		9.0	0.28
			SME			9.0	0.47
			sS	23 12 46.0	0.6		
			SS	23 14 53.0	0.2		
			ScS	23 15 54.0	−3.1		
			LE			11.0	0.31
			LZ			16.0	0.44
MDJ	41.9	63	eP	23 06 23.5	0.5		
			pP	23 06 49.0	−0.4		
			PcP	23 08 16.0	−0.4		
			eS	23 12 35.0	2.4		
			SMN			16.0	1.46

MAR 27d 03h 31m 16.2 ± 0.07s, SD0.99 / 43
6.20 S ± 0.66km, 130.18 E ± 1.19km, h127 ± 0.65km
Banda Sea (280)
m_b5.0 / 1,

QZN	32.1	322	eP	03 37 34.0	0.3		
GYA	39.7	326	P	03 38 38.0	0.2		
CD2	44.7	327	eP	03 39 18.5	−0.4		
XAN	44.8	335	+P	03 39 18.4	−1.0		
TIY	46.7	341	eP	03 39 34.5	−0.1		
LZH	48.8	331	eP	03 39 51.5	0.6		
			PMZ	$m_b = 5.0$		2.0	0.049
GTA	53.4	331	+iP	03 40 25.0	−0.3		
WMQ	62.8	327	P	03 41 31.0	−0.3		

MAR 27d 06h 01m 00.8 ± 0.08s, SD1.26 / 46
30.16 N ± 1.74km, 67.89 E ± 1.10km, h18 ± 0.31km
Pakistan (710)
M_S4.7 / 8,

KSH	11.4	33	eP	06 03 48.0	1.3		
			pP	06 03 55.0	2.8		
			eS	06 05 56.0	0.9		
			LN	$M_S = 5.1$		11.0	7.20
WMQ	20.8	44	P	06 05 45.0	0.7		
			S	06 09 25.0	−5.3		
			sS	06 09 43.2	2.0		
			SS	06 10 03.0	1.4		
			LN	$M_S = 4.8$		20.0	2.85
GTA	27.7	62	P	06 06 51.0	0.6		
			LE	$M_S = 4.4$		10.0	0.32
KMI	31.2	91	−P	06 07 22.0	0.1		
GYA	34.2	86	−P	06 07 47.8	−0.4		
XAN	34.8	73	eP	06 07 52.5	−0.6		
WHN	39.9	77	eP	06 08 35.1	−0.5		
			eS	06 14 38.0	−1.5		
			LE	$M_S = 4.7$		10.0	0.33
BJI	40.3	62	eP	06 08 40.5	1.4		
TIA	41.3	68	eP	06 08 47.8	0.4		
NJ2	43.3	74	−P	06 09 03.8	−0.4		

MAR 27d 07h 46m 19.9 ± 0.09s, SD0.85 / 61
15.41 S ± 1.43km, 174.84 W ± 1.41km, h286 ± 0.54km
Tonga (173)

MDJ	78.2	323	eP	07 57 49.5	−0.6		
GZH	80.0	297	P	07 58 00.0	0.5		
CN2	80.2	321	−P	07 58 00.0	−0.8		
QZN	81.6	292	eP	07 58 09.0	0.8		
TIA	82.2	311	P	07 58 11.1	0.1		
BJI	84.5	314	eP	07 58 22.5	−0.1		
TIY	86.2	311	−P	07 58 31.8	0.6		
GYA	86.8	298	−P	07 58 35.2	0.9		
XAN	87.5	306	−P	07 58 37.8	0.3		
HHC	88.0	313	eP	07 58 40.5	0.6		
KMI	89.8	296	−P	07 58 50.0	1.7		
CD2	90.6	302	P	07 58 52.9	0.8		
GTA	96.1	309	P	07 59 17.0	−0.3		

MAR 27d 09h 04m 51.7 ± 0.08s, SD1.32 / 27
0.16 S ± 1.90km, 97.39 E ± 1.96km, h40 ± 0.85km
South−west of Sumatera (273)
M_S4.5 / 1,

QZN	22.7	32	eP	09 09 53.0	2.2		
			eS	09 13 54.0	2.6		
KMI	25.7	11	eP	09 10 21.0	0.9		
GYA	27.9	18	P	09 10 40.6	−0.3		
XAN	35.7	17	+P	09 11 47.6	−1.2		
			pP	09 11 54.8	−4.4		
GTA	39.4	3	eP	09 12 16.0	−4.2		
			LE	$M_S = 4.5$		13.0	0.31
BJI	43.5	21	eP	09 12 54.0	0.4		
WMQ	44.6	350	eP	09 13 03.2	0.6		
CN2	50.4	26	eP	09 13 47.0	−0.9		

MAR 27d 09h 09m 36.4 ± 0.22s, SD2.50 / 17
3.84 N ± 1.66km, 76.94 W ± 3.54km, h77 ± 1.52km
Near west coast of Colombia (102)

CD2	145.4	359	ePKP	09 29 06.8	0.1		

GYA	149.7	354	PKP	09 29 18.4	4.7			

MAR 27d 11h 29m 32.6 ± 0.03s, SD0.87 / 20
24.95 N ± 0.52km, 122.07 E ± 0.43km, h144 ± 0.66km
Taiwan (244)

QZH	3.2	271	P	11 30 22.0	−0.7			
			iS	11 30 59.8	−0.9			
			SMN			0.3	0.11	
			SME			0.3	0.080	
SSE	6.2	353	−P	11 31 03.0	0.4			
			SME			1.2	0.016	
NJ2	7.6	339	eP	11 31 21.4	−0.8			
WHN	8.8	311	P	11 31 39.0	0.9			
CN2	19.0	8	−P	11 33 46.2	0.4			

MAR 27d 15h 10m 51.6 ± 0.08s, SD1.46 / 44
36.42 N ± 1.12km, 70.98 E ± 1.19km, h93 ± 0.24km
Hindu Kush region (718)

WMQ	14.8	55	P	15 14 16.2	−0.7			
			eS	15 16 52.0	−6.7			
			SMN			1.0	0.020	
			SME			1.0	0.030	
LSA	18.2	106	P	15 15 00.5	0.8			
GTA	22.9	74	P	15 15 50.0	1.6			
LZH	26.4	81	eP	15 16 18.0	−4.0			
CD2	27.7	92	eP	15 16 34.2	0.4			
KMI	29.4	104	eP	15 16 48.0	−0.8			
XAN	31.0	83	eP	15 17 01.6	−0.8			
GYA	31.9	98	P	15 17 10.0	−0.4			
TIY	32.9	75	eP	15 17 19.8	0.3			

MAR 27d 23h 18m 17.6 ± 0.07s, SD0.90 / 64
3.44 S ± 0.85km, 130.99 E ± 1.11km, h71 ± 0.34km
Seram (272)
m_b5.3 / 1,

WHN	37.3	336	eP	23 25 25.5	0.2			
			eS	23 31 09.0	1.3			
			LZ	M_S = 4.4		20.0	0.64	
GYA	37.9	323	P	23 25 30.8	0.6			
			PcP	23 27 47.2	2.4			
KMI	39.5	318	−P	23 25 45.0	1.7			
XAN	42.7	333	P	23 26 09.0	−0.6			
CD2	42.9	325	eP	23 26 11.2	−0.2			
DL2	43.0	349	eP	23 26 12.5	0.3			
TIY	44.4	339	−P	23 26 23.5	−0.2			
			S	23 32 55.0	3.2			
			LZ	M_S = 4.4		22.0	0.52	
BJI	45.4	344	eP	23 26 30.5	−0.5			
SNY	45.6	352	+P	23 26 32.0	−0.6			
LZH	46.8	330	eP	23 26 43.5	0.9			
			PMZ	m_b = 5.3		2.5	0.10	
CN2	47.3	355	eP	23 26 46.0	−0.3			
HHC	47.5	340	eP	23 26 48.0	−0.2			
BTO	47.8	338	eP	23 26 50.0	−0.8			
MDJ	47.9	359	eP	23 26 50.5	−0.2			
GTA	51.4	329	P	23 27 17.8	−0.2			
WMQ	61.0	325	P	23 28 26.5	−0.1			
KSH	66.1	316	eP	23 29 02.0	1.5			

MAR 28d 03h 33m 39.0 ± 0.10s, SD1.17 / 83
20.06 N ± 2.70km, 156.55 W ± 1.79km, h1 ± 0.18km
Hawaiian Islands region (612)
M_S5.3 / 14, m_g5.7 / 3,

MDJ	64.8	311	−P	03 44 22.4	−0.1			
			pP	03 44 24.7	−1.9			
			S	03 53 04.0	1.9			
			SMN			32.0	2.53	
CN2	67.9	310	−P	03 44 41.0	−1.0			
			PMZ	m_g = 5.7		5.0	0.50	
			eS	03 53 40.0	−0.5			
			LE	M_S = 5.2		13.0	0.60	
			LZ	M_S = 5.2		20.0	1.50	
SNY	69.5	308	eP	03 44 51.4	−0.7			
			S	03 54 00.0	1.5			
			LE	M_S = 5.1		26.0	0.90	
			LZ	M_S = 4.9		30.0	1.10	
DL2	71.5	305	eP	03 45 04.0	−0.1			
			S	03 54 23.0	1.4			
SSE	73.5	298	eP	03 45 20.0	3.9			
			ePP	03 48 02.0	1.2			
			eS	03 54 48.0	1.9			
			LE	M_S = 5.0		14.0	0.39	
			LZ	M_S = 5.2		22.0	1.53	
NJ2	75.2	299	+P	03 45 26.2	0.2			
			LZ	M_S = 4.9		18.0	0.60	
BJI	75.4	308	eP	03 45 26.0	−0.8			
			eS	03 55 04.0	−2.8			
TIA	75.6	304	eP	03 45 27.4	−0.6			
			eS	03 55 11.0	1.8			
			LE	M_S = 5.5		16.0	1.16	
QZH	77.3	292	P	03 45 39.0	1.2			
			eS	03 55 30.0	1.7			
			LE	M_S = 5.2		24.0	0.94	
HHC	78.5	309	+P	03 45 44.5	−0.2			
TIY	78.8	306	P	03 45 44.0	−2.0			
			S	03 55 47.5	5.0			
			LE	M_S = 5.4		16.0	0.90	
			LZ	M_S = 5.0		26.0	0.99	
WHN	79.3	299	−P	03 45 49.5	0.6			
			S	03 55 49.0	0.8			
			LZ	M_S = 5.2		24.0	1.40	
BTO	79.7	309	P	03 45 51.0	−0.2			
			sP	03 45 55.5	−1.9			
			ePP	03 48 56.0	3.3			
			S	03 55 56.0	3.5			
			LN	M_S = 5.3		17.0	0.50	
			LE			17.0	0.50	
GZH	82.5	292	eP	03 46 06.0	0.6			
XAN	82.6	303	+P	03 46 05.8	−0.6			
			S	03 56 21.0	−1.3			
LZH	85.8	307	P	03 46 23.0	0.3			
QZN	86.9	289	eP	03 46 28.4	0.8			
			PP	03 49 54.0	2.2			
			eSKS	03 56 53.0	1.0			
			eS	03 57 06.5	0.6			
GYA	87.0	297	P	03 46 28.8	0.2			
			SKS	03 56 56.0	2.9			
			S	03 57 08.0	2.2			
GTA	87.5	311	+iP	03 46 30.4	−0.4			
			LE	M_S = 5.2		13.0	0.35	
CD2	87.8	302	eP	03 46 32.4	0.2			
KMI	90.8	297	−P	03 46 47.0	0.4			
			SKS	03 57 16.0	−0.4			
			S	03 57 47.0	6.4			
			LZ	M_S = 5.0		24.0	0.70	
WMQ	93.5	319	eP	03 46 59.0	0.4			
			S	03 58 10.0	6.2			
			LN	M_S = 5.5		22.0	1.28	
KSH	103.1	321	eP	03 47 47.0	4.6			

MAR 28d 11h 51m 25.5 ± 0.12s, SD2.57 / 45
29.99 N ± 1.64km, 95.10 E ± 1.29km, h33 ± 0.06km
India–China border region (313)
M_S4.4 / 12, M_L4.2 / 4,

LSA	3.4	266	Pn	11 52 21.0	3.2			
			Pg	11 52 26.4	−0.1			

International Seismological Centre

			Sg	11 53 09.8	−4.0			
			LE	M_S=4.5		8.0	9.40	
CD2	7.5	81	ePn	11 53 17.1	3.6			
			LE	M_S=4.8		9.0	6.60	
KMI	8.3	124	eP	11 53 28.0	0.8			
			S	11 55 06.0	5.2			
			LN	M_S=4.1		10.0	0.80	
			LE			10.0	1.00	
LZH	9.5	48	eP	11 53 44.5	0.8			
GTA	10.2	21	+iP	11 53 47.6	−4.9			
			LN	M_S=4.1		10.0	0.92	
			LZ	M_S=4.2		9.5	1.09	
GYA	10.8	106	P	11 54 00.2	−0.8			
			S	11 56 04.0	2.8			
			LN	M_S=4.3		8.0	0.70	
			LE			8.0	0.80	
XAN	12.4	67	eP	11 54 21.7	−1.1			
			LN	M_S=4.3		9.0	0.42	
			LE			8.0	0.61	
BTO	16.1	45	eP	11 55 15.0	3.6			
			esP	11 55 26.0	2.7			
			eS	11 58 15.0	6.0			
			LN	M_S=4.3		11.0	0.50	
			LE			11.0	0.40	
			LZ	M_S=4.2		11.0	0.80	
TIY	16.3	57	eP	11 55 09.0	−5.0			
			pP	11 55 16.5	−4.7			
			LN	M_S=4.4		10.0	0.53	
			LE			11.0	0.68	
			LZ	M_S=4.4		14.0	1.43	
WHN	16.6	83	eP	11 55 18.0	0.0			
			LZ	M_S=4.4		13.0	1.32	
HHC	17.2	47	−P	11 55 25.4	0.0			
BJI	19.9	54	P	11 55 57.5	0.1			
CN2	27.7	52	eP	11 57 13.0	−0.4			

MAR 28d 13h 04m 39.4±0.17s, SD3.98/7
24.51 N±0.45km, 99.13 E±1.17km, h17±2.01km
Burma–China border region (297)
M_L3.3/5,

KMI	3.3	79	ePn	13 05 33.5	2.1			
			Pg	13 05 42.5	4.3			
			Sg	13 06 24.0	0.1			
			SMN	M_L=3.3		1.0	0.10	
			SME			1.0	0.10	
GYA	7.1	73	Pn	13 06 24.0	1.2			

MAR 28d 13h 39m 53.0±0.15s, SD1.66/34
30.05 N±1.37km, 67.97 E±1.60km, h18±0.18km
Pakistan (710)
M_S4.5/1,

KSH	11.5	33	eP	13 42 40.0	0.5			
			eS	13 44 53.0	4.5			
			LN	M_S=4.5		10.0	1.70	
LSA	20.1	85	P	13 44 29.3	0.0			
WMQ	20.8	43	eP	13 44 36.8	0.1			
			S	13 48 29.5	6.5			
GTA	27.7	62	+P	13 45 43.6	1.1			
KMI	31.1	91	eP	13 46 15.5	2.0			
GYA	34.2	86	P	13 46 40.6	0.8			
XAN	34.8	73	eP	13 46 45.0	0.0			

MAR 28d 15h 40m 51.8±0.10s, SD0.77/30
30.76 N±0.23km, 50.10 E±0.60km, h52±1.02km
Western Iran (347)
M_S4.5/1,

KSH	22.8	60	eP	15 45 53.0	1.6			
			eS	15 49 58.0	5.7			
			sS	15 50 13.0	0.7			
			LE	M_S=4.5		10.0	0.60	
WMQ	32.4	56	eP	15 47 19.5	0.5			
GTA	41.1	64	P	15 48 33.4	0.1			
KMI	46.5	83	eP	15 49 17.0	0.5			
XAN	49.2	70	eP	15 49 36.6	−0.7			
GYA	49.4	80	P	15 49 39.2	0.1			
TIY	51.2	64	eP	15 49 53.3	0.8			

MAR 28d 18h 36m 27.0±0.18s, SD2.55/74
35.79 S±6.49km, 102.83 W±4.45km, h9±0.63km
Southern Pacific Ocean (692)
M_S5.5/3, m_B6.0/1,

MDJ	139.6	299	ePKP	18 55 54.5	−1.8			
CN2	142.5	297	ePKP	18 56 00.5	−0.9			
			pPKP	18 56 04.6	1.2			
			ePP	18 59 10.5	−0.9			
			eSS	19 17 42.0	−2.7			
			LZ	M_S=5.4		24.0	0.80	
SNY	143.7	294	iPKP	18 56 00.7	−2.7			
DL2	144.8	289	ePKP	18 56 02.5	−2.9			
NJ2	145.4	276	−PKP	18 56 05.8	−0.6			
QZN	146.7	249	ePKP	18 56 03.0	−5.7			
			sPKP	18 56 17.0	5.1			
			ePP	18 59 33.0	−3.8			
TIA	147.8	283	PKP	18 56 12.2	1.7			
WHN	148.6	271	−PKP	18 56 15.0	3.3			
			LZ	M_S=5.5		28.0	0.94	
BJI	149.1	290	ePKP	18 56 14.5	2.0			
			eSS	19 18 56.0	−3.3			
TIY	151.8	284	ePKP	18 56 21.4	4.6			
			PPMZ	m_B=6.0		5.5	0.64	
			SKS	19 03 13.5	−6.7			
			LZ	M_S=5.5		22.0	0.78	
HHC	152.7	291	ePKP	18 56 16.6	−1.4			
GYA	153.2	258	PKP	18 56 21.4	2.6			
BTO	153.8	291	ePKP	18 56 20.0	0.3			
XAN	154.0	275	ePKP	18 56 25.4	5.6			
LZH	158.4	279	ePKP	18 56 31.0	5.2			
GTA	161.7	288	ePKP	18 56 28.0	−1.3			
			eSS	19 21 14.0	−1.0			
			LN	M_S=5.5		28.0	0.74	
			LZ	M_S=5.5		20.0	0.62	
WMQ	168.6	318	ePKP	18 56 36.7	1.6			
			PKP2	18 57 45.5	0.0			
			LN	M_S=5.7		24.0	1.26	
KSH	176.2	15	ePKP	18 56 39.0	0.3			
			PP	19 02 10.0	−3.1			
			LN	M_S=5.5		12.0	0.80	

MAR 28d 22h 21m 54.5±0.12s, SD2.63/7
47.21 N±0.21km, 89.31 E±0.78km, h10±1.25km
Northern Xinjiang Province (332)
M_L3.6/7,

WMQ	3.6	199	Pn	22 22 52.5	1.9			
			Pg	22 23 00.8	3.0			
			Sn	22 23 40.0	5.2			
			SMN	M_L=3.2		0.5	0.070	

MAR 29d 01h 16m 21.1±0.06s, SD0.78/66
57.48 N±1.33km, 143.06 W±0.84km, h12±0.11km
Gulf of Alaska (15)
M_S5.2/1,

MDJ	52.6	296	eP	01 25 37.3	−0.5			
CN2	55.2	298	+iP	01 25 56.0	−0.9			
SNY	57.6	298	+P	01 26 14.0	0.0			
DL2	60.8	297	P	01 26 36.0	−0.2			
BJI	62.5	302	eP	01 26 47.0	−0.4			

HHC	63.9	305	+P	01 26 57.0	0.1		
BTO	64.8	306	eP	01 27 02.0	−0.7		
TIA	65.1	299	+P	01 27 04.3	−0.4		
TIY	66.1	303	+P	01 27 11.1	0.2		
			LN	M_S=5.2		12.0	0.42
			LE			12.0	0.41
			LZ	M_S=4.8		16.0	0.48
NJ2	67.7	295	+P	01 27 21.0	0.1		
GTA	70.0	313	+iP	01 27 35.6	−0.1		
WMQ	70.5	324	+iP	01 27 39.0	0.3		
XAN	70.7	303	+iP	01 27 39.4	−0.4		
LZH	71.2	308	+iP	01 27 43.0	0.1		
CD2	75.7	305	eP	01 28 08.4	−0.5		
GYA	78.2	301	+P	01 28 23.4	0.5		
KMI	81.1	303	eP	01 28 38.5	−0.4		

MAR 29d 08h 31m 30.7 ± 0.08s, SD1.10 / 90
52.44 N ± 2.58km, 168.22 W ± 1.17km, h31 ± 0.21km
Fox Islands (9)
M_S5.8 / 35, m_B5.8 / 13, m_b5.6 / 1,

MDJ	40.8	285	eP	08 39 11.0	0.1		
			PP	08 40 48.0	−0.2		
			PcP	08 41 15.0	3.1		
			S	08 45 14.0	−4.6		
			sS	08 45 30.0	−4.5		
			LZ	M_S=5.2		15.0	2.44
CN2	43.7	286	+P	08 39 34.0	−0.8		
			PMZ	m_B=5.7		5.0	0.60
			pP	08 39 43.0	−0.8		
			PP	08 41 19.0	0.8		
			S	08 46 07.0	5.6		
			LN	M_S=5.6		15.0	3.40
			LZ	M_S=5.5		18.0	5.80
SNY	46.0	285	+P	08 39 52.5	−0.5		
			PMZ	m_B=5.8		10.0	1.28
			eS	08 46 34.0	−1.3		
			SMN			20.0	1.94
			LN	M_S=5.8		18.0	4.74
			LE			17.0	4.18
			LZ	M_S=5.6		18.0	6.54
DL2	48.9	283	eP	08 40 16.0	−0.4		
			ePP	08 42 12.0	2.7		
			eS	08 47 20.0	2.4		
			LN	M_S=5.5		15.0	2.16
BJI	51.4	288	eP	08 40 34.5	−0.9		
			PMZ	m_B=5.5		12.0	0.72
			ePP	08 42 30.0	−2.6		
			LN	M_S=5.9		17.0	4.40
			LE			18.0	5.30
			LZ	M_S=5.7		18.0	7.41
TIA	53.4	284	−P	08 40 49.5	−0.7		
			LN	M_S=5.6		17.0	2.53
			LE			17.0	1.75
			LZ	M_S=5.5		17.0	3.80
HHC	53.6	292	−P	08 40 54.0	2.6		
			LN	M_S=6.0		15.0	4.40
			LE			15.0	3.70
SSE	54.5	276	+P	08 40 58.0	−0.1		
			PMZ	m_B=6.1		5.0	1.29
			pP	08 41 09.0	1.6		
			eS	08 48 36.0	2.3		
			sS	08 48 54.0	5.1		
			LE	M_S=5.4		14.0	1.54
			LZ	M_S=5.3		20.0	2.78
BTO	54.6	292	P	08 40 58.5	−0.6		
			esP	08 41 08.5	−3.5		
			PP	08 43 05.0	3.0		
			S	08 48 36.0	2.0		
			sS	08 48 50.0	−0.4		
			SS	08 52 21.0	4.8		
			LN	M_S=6.0		17.0	5.20
			LE			16.0	5.60
			LZ	M_S=5.7		17.0	6.00
TIY	55.2	288	−P	08 41 03.6	0.5		
			PMZ	m_B=5.9		6.0	0.94
			sP	08 41 17.5	1.5		
			PP	08 43 06.0	−1.2		
			sS	08 49 03.0	5.2		
			LN	M_S=5.8		16.0	2.09
			LE			17.0	4.27
			LZ	M_S=5.7		18.0	6.06
NJ2	55.2	279	+P	08 41 03.8	0.2		
			LZ	M_S=5.3		11.0	1.56
WHN	59.0	281	eP	08 41 30.5	0.1		
			S	08 49 33.0	0.6		
			SMN	m_B=6.0		6.0	1.20
			sS	08 49 50.0	1.1		
			LE	M_S=5.5		17.0	2.15
			LZ	M_S=5.4		17.0	2.42
XAN	59.8	287	eP	08 41 34.4	−1.2		
			S	08 49 48.5	6.6		
			SMN	m_B=5.8		8.0	1.00
			LN	M_S=5.9		14.0	1.70
			LE			17.0	4.00
QZH	60.5	273	+P	08 41 41.0	0.4		
			PMZ	m_B=6.0		4.0	0.78
			S	08 49 58.0	6.4		
			LN	M_S=5.3		35.0	1.77
			LE			35.0	1.94
GTA	61.1	298	+iP	08 41 43.0	−1.7		
			eS	08 50 00.0	−0.4		
			LN	M_S=5.8		16.5	3.32
			LZ	M_S=5.6		20.0	4.50
LZH	61.2	293	eP	08 41 46.0	0.3		
			PMZ	m_b=5.6		2.5	0.21
			LN	M_S=6.1		16.0	6.59
			LE			20.0	1.88
WMQ	64.0	309	P	08 42 03.5	−0.8		
			LN	M_S=6.1		22.0	8.02
			LZ	M_S=5.9		16.0	6.09
CD2	65.0	289	eP	08 42 10.4	−0.3		
			S	08 50 55.0	6.8		
			LE	M_S=5.8		18.0	3.73
GZH	65.1	276	eP	08 42 12.0	1.0		
			eS	08 50 50.0	−0.2		
GYA	66.6	283	−P	08 42 21.4	0.6		
			pP	08 42 29.6	−0.4		
			PcP	08 42 48.4	−0.7		
			S	08 51 12.0	4.6		
			sS	08 51 26.0	2.0		
			LN	M_S=5.7		18.0	1.90
			LE			18.0	2.10
KMI	69.9	285	eP	08 42 42.0	0.3		
			PMZ	m_B=6.0		5.0	0.90
			pP	08 42 52.5	1.8		
			sP	08 42 56.0	1.4		
			PcP	08 43 01.5	−1.5		
			PP	08 45 22.0	4.8		
			iS	08 51 54.0	5.0		
			LE	M_S=5.8		20.0	3.10
			LZ	M_S=5.2		20.0	1.50
QZN	70.3	276	P	08 42 45.5	2.0		
			eS	08 51 53.0	0.4		
			LE	M_S=5.7		17.0	2.20
KSH	72.9	313	P	08 43 02.0	2.7		
			eS	08 52 28.0	5.2		

International Seismological Centre

			LN		M_S=6.1	15.0		5.10
LSA	73.1	297	P	08	43 01.1	0.4		
			pP	08	43 09.0	−0.4		
			S	08	52 30.0	6.9		
			LE		M_S=5.9	15.0		3.10

MAR 29d 10h 50m 11.4±0.08s, SD1.46/36
43.59 N±2.34km, 148.06 E±1.64km, h40±0.59km
Kurile Islands (221)

MDJ	13.3	281	eP	10	53 20.5	0.0		
CN2	16.4	279	eP	10	54 03.5	3.7		
DL2	20.4	266	eP	10	54 50.0	2.4		
BJI	24.0	273	eP	10	55 22.0	−1.1		
TIA	24.8	263	eP	10	55 30.6	−0.3		
NJ2	25.7	253	+P	10	55 40.0	0.6		
TIY	27.5	270	eP	10	55 57.0	0.3		
LZH	34.4	273	eP	10	56 57.5	−0.3		
GTA	36.0	280	P	10	57 09.8	−1.1		
CD2	37.0	265	eP	10	57 18.9	−0.9		
GYA	37.5	257	−P	10	57 23.6	−0.3		

MAR 29d 13h 37m 56.3±0.24s, SD3.11/29
10.65 N±3.99km, 65.15 W±3.04km, h16±1.00km
Near coast of Venezuela (97)

GTA	128.3	15	ePKP	13	57 04.0	0.4		
BJI	129.6	359	ePKP	13	57 09.0	3.2		
TIY	131.8	3	ePKP	13	57 15.0	4.7		
XAN	135.2	7	ePKP	13	57 20.0	3.4		
WHN	139.0	1	ePKP	13	57 27.5	4.0		
GYA	142.3	12	PKP	13	57 32.6	3.2		

MAR 29d 15h 33m 03.1±0.11s, SD0.75/76
54.29 N±2.05km, 163.54 W±0.89km, h33±0.15km
Unimak Island region (10)
M_S5.1/1, m_b5.1/1,

CN2	45.8	287	+iP	15	41 23.5	−0.7		
SNY	48.2	286	−iP	15	41 43.1	0.6		
DL2	51.2	285	eP	15	42 05.8	−0.2		
BJI	53.5	290	eP	15	42 22.0	−0.9		
HHC	55.4	293	eP	15	42 37.9	0.6		
TIA	55.7	286	+P	15	42 38.7	−0.1		
BTO	56.4	294	eP	15	42 44.0	−0.6		
SSE	57.0	279	+P	15	42 48.9	0.2		
TIY	57.2	290	+P	15	42 50.8	0.9		
			eS	15	50 44.0	2.1		
			LN		M_S=5.1	12.0		0.28
			LE			12.0		0.55
			LZ		M_S=5.0	15.0		0.95
NJ2	57.7	281	+P	15	42 52.5	−0.7		
WHN	61.4	283	−iP	15	43 18.5	−0.2		
XAN	61.8	290	P	15	43 21.4	−0.4		
GTA	62.6	300	P	15	43 26.6	−0.7		
LZH	63.0	295	eP	15	43 30.0	−0.1		
			PMZ		m_b=5.1	2.0		0.049
WMQ	65.0	311	P	15	43 43.0	0.1		
CD2	67.0	291	P	15	43 55.6	0.0		
GYA	68.9	286	+P	15	44 07.6	0.5		
			pP	15	44 15.2	−1.4		
KMI	72.1	288	+P	15	44 26.5	−0.3		
LSA	74.7	300	+P	15	44 42.3	0.1		

MAR 29d 15h 50m 43.0±0.08s, SD1.55/39
56.39 N±2.84km, 163.91 E±1.47km, h34±0.19km
Off east coast of Kamchatka (219)
M_S4.6/4,

MDJ	24.5	256	eP	15	55 58.0	−2.9		
CN2	27.3	259	eP	15	56 24.0	−2.9		
BTO	38.0	269	eP	15	58 01.5	1.6		
			epP	15	58 07.0	−2.3		
			eS	16	03 52.5	2.9		
			LN		M_S=4.8	12.0		0.50
			LE			13.0		0.40
			LZ		M_S=4.7	13.0		0.70
GTA	44.5	276	+iP	15	58 53.8	0.5		
			LE		M_S=4.6	12.0		0.29
			LZ		M_S=4.3	19.0		0.36
LZH	44.6	269	eP	15	58 55.5	1.2		
WMQ	48.0	289	+P	15	59 21.5	0.4		
LSA	56.4	274	+P	16	00 24.1	−0.5		

MAR 29d 22h 06m 42.7±0.08s, SD2.29/13
27.35 N±0.80km, 100.98 E±0.94km, h12±0.22km
Yunnan Province (318)
M_L3.5/8,

KMI	2.7	144	ePn	22	07 27.5	0.5		
			Pg	22	07 30.5	−0.4		
			Sg	22	08 05.5	−2.8		
			SMN		M_L=3.7	1.5		0.40
			SME			1.5		0.30
CD2	4.3	34	ePn	22	07 51.4	3.0		
			Pg	22	07 58.7	0.1		
			Sg	22	08 51.5	−5.9		
			SMN		M_L=3.9	1.4		0.17
			SME			1.2		0.27
XAN	9.5	44	eP	22	09 00.4	−2.9		
WHN	12.1	72	eP	22	09 41.0	2.4		

MAR 30d 01h 42m 01.7±0.04s, SD3.20/7
40.26 N±0.49km, 104.62 E±0.31km, h10±km
Northern China (323)
M_L3.7/4,

BTO	4.1	84	ePn	01	43 05.2	−0.2		
HHC	5.3	81	ePg	01	43 33.1	−2.7		
			SMZ		M_L=3.8	0.8		0.060

MAR 30d 02h 12m 42.2±0.11s, SD0.93/97
30.92 N±1.87km, 50.14 E±1.17km, h32±0.11km
Western Iran (347)
M_S6.1/46, m_B6.3/57,

KSH	22.7	61	+iP	02	17 44.0	1.4		
			pP	02	17 54.0	2.9		
			SME		m_B=6.8	10.0		27.7
			LE		M_S=6.3	12.0		43.0
WMQ	32.2	56	+P	02	19 11.9	1.6		
			PMZ		m_B=6.3	6.0		3.00
			PP	02	20 15.0	−2.3		
			PcP	02	21 52.0	−5.8		
			LN		M_S=6.1	12.0		15.2
			LZ		M_S=5.9	24.0		26.0
LSA	35.3	81	+P	02	19 36.0	−1.0		
			sP	02	19 52.5	3.0		
			iS	02	25 10.0	1.3		
			LE		M_S=5.9	13.0		8.00
GTA	41.0	64	+iP	02	20 25.9	1.0		
			PMZ		m_B=6.3	6.0		2.63
			LN		M_S=5.9	14.0		7.70
			LZ		M_S=5.7	20.0		11.6
LZH	44.6	68	+iP	02	20 55.0	1.0		
			PMZ		m_B=6.3	4.0		1.81
			PP	02	22 35.0	−4.0		
			eS	02	27 30.0	2.2		
			SMN		m_B=6.3	7.0		3.27
			LN		M_S=6.2	14.0		9.04
			LE			15.0		7.79
CD2	45.6	76	eP	02	21 01.8	−0.1		
			S	02	27 43.5	2.7		

International Seismological Centre

			ScS	02 30 57.0	4.7		
			LN	M_S=6.2		15.0	12.1
KMI	46.4	84	+iP	02 21 08.0	−0.6		
			PP	02 22 57.0	0.0		
			S	02 27 50.5	−2.2		
			SS	02 31 12.0	0.5		
			LE	M_S=5.7		15.0	4.00
			LZ	M_S=5.7		15.0	6.00
BTO	48.7	61	+iP	02 21 27.0	0.8		
			PMZ	m_B=6.3		5.0	2.20
			pP	02 21 37.0	1.7		
			PP	02 23 20.0	1.5		
			S	02 28 28.0	3.3		
			SMN	m_B=6.0		10.0	1.70
			SME			13.0	1.60
			ScS	02 31 17.0	4.5		
			eSS	02 31 56.0	5.4		
			LN	M_S=6.4		19.0	11.3
			LE			19.0	19.9
			LZ	M_S=6.1		19.0	21.1
XAN	49.1	70	+P	02 21 28.4	−0.7		
			PP	02 23 23.0	0.7		
			S	02 28 32.0	1.9		
			SMN	m_B=6.4		7.0	2.89
			SME			5.0	1.05
			LN	M_S=6.1		15.0	8.47
			LE			15.0	4.44
GYA	49.3	80	P	02 21 30.4	−0.7		
			sP	02 21 45.6	1.6		
			PP	02 23 28.0	3.3		
			S	02 28 35.0	1.5		
			ScS	02 31 21.0	4.4		
			LN	M_S=5.9		15.0	5.00
			LE			15.0	3.40
HHC	49.8	61	+P	02 21 35.4	0.5		
			PMZ	m_B=6.2		4.0	1.18
			PP	02 23 30.5	0.8		
			LN	M_S=6.2		14.0	11.1
			LE			15.0	3.51
TIY	51.1	64	+iP	02 21 44.5	0.2		
			PMZ	m_B=6.5		5.0	2.99
			pP	02 21 54.0	0.7		
			PP	02 23 46.0	5.1		
			S	02 29 03.5	6.0		
			SMN			16.0	2.85
			SME			8.0	2.26
			sS	02 29 19.5	5.6		
			ScS	02 31 30.5	2.1		
			LN	M_S=6.0		12.5	4.42
			LE			14.0	3.12
			LZ	M_S=5.9		20.0	11.8
BJI	53.4	61	+P	02 22 02.0	0.1		
			PMZ	m_B=6.1		6.0	1.56
			S	02 29 34.0	4.1		
			LN	M_S=6.2		15.0	9.84
WHN	54.5	73	P	02 22 09.0	−0.5		
			PMZ	m_B=6.3		5.0	2.04
			PcP	02 23 12.0	0.0		
			PP	02 24 16.0	3.6		
			S	02 29 47.0	3.2		
			SMN	m_B=6.0		9.0	1.79
			ScS	02 31 56.0	4.0		
			LN	M_S=5.9		13.0	4.44
QZN	54.8	88	eP	02 22 12.4	0.2		
			PP	02 24 14.0	−1.7		
			S	02 29 48.0	−0.7		
			ScS	02 31 58.0	3.3		
			LN	M_S=5.8		20.0	3.90
			LE			19.0	3.30
TIA	55.1	65	+P	02 22 13.6	−0.3		
			PMZ	m_B=6.1		6.0	1.43
			PP	02 24 19.6	1.6		
			S	02 29 58.0	6.1		
			SMN	m_B=6.3		6.0	2.44
			SME			6.0	0.83
			ScS	02 31 57.5	1.1		
			LN	M_S=6.0		14.0	1.20
			LE			16.0	6.50
			LZ	M_S=5.6		16.0	4.00
GZH	56.2	82	eP	02 22 21.5	−0.6		
			S	02 30 10.0	3.0		
			LN	M_S=5.9		26.0	6.90
			LE			28.0	3.55
NJ2	57.7	69	+P	02 22 32.4	0.0		
			PMZ	m_B=6.2		5.5	1.78
			S	02 30 30.0	3.9		
			LN	M_S=6.3		19.0	9.35
			LE			16.0	8.07
DL2	57.8	61	+iP	02 22 33.0	−0.4		
			PMZ	m_B=6.3		5.0	2.02
			PP	02 24 48.0	5.4		
			S	02 30 32.0	3.9		
			SMN	m_B=6.4		5.0	2.24
			SME			5.0	0.84
			LN	M_S=6.2		15.0	7.03
			LE			15.0	4.31
SNY	58.5	57	+iP	02 22 37.0	−1.1		
			PMZ	m_B=6.3		6.0	2.30
			PP	02 24 48.0	−0.6		
			S	02 30 32.0	−4.8		
			SMN	m_B=6.1		10.0	2.17
			SME			12.0	1.85
			LN	M_S=6.3		20.0	5.09
			LE			20.0	13.5
			LZ	M_S=6.2		18.0	16.7
CN2	59.3	55	+iP	02 22 43.0	−0.9		
			PMZ	m_B=6.3		6.0	2.50
			sP	02 22 56.0	−1.0		
			PP	02 24 54.0	−2.0		
			PPMZ			7.0	1.00
			eS	02 30 49.0	0.2		
			SMN	m_B=6.0		8.0	1.30
			SME			8.0	0.90
			ScS	02 32 29.0	2.0		
			LE	M_S=6.6		12.0	16.1
			LZ	M_S=6.3		14.0	16.9
SSE	59.9	70	+iP	02 22 47.0	−0.7		
			PMZ	m_B=6.4		6.0	2.79
			PP	02 25 04.0	3.0		
			ScS	02 32 28.0	−3.1		
			LN	M_S=6.0		12.0	1.44
			LE			14.0	4.62
			LZ	M_S=5.9		20.0	9.72
QZH	59.9	77	+iP	02 22 47.0	−1.2		
			PMZ	m_B=6.1		5.0	1.11
			PP	02 25 03.0	1.3		
			PPMZ			6.0	0.85
			S	02 30 55.0	−0.7		
			SMN	m_B=6.0		6.0	1.16
			LN	M_S=5.9		16.0	4.94
MDJ	62.0	53	+P	02 23 00.0	−1.9		
			PP	02 25 21.0	1.1		
			eS	02 31 27.0	4.3		
			ScS	02 32 46.0	−0.7		
			LZ	M_S=5.8		16.0	5.74

International Seismological Centre

MAR 30d 03h 14m 56.4±0.13s, SD0.79/39
30.77 N±0.98km, 50.13 E±0.81km, h45±0.81km
Western Iran (347)
M_S4.8/1,

KSH	22.8	60	P	03 19 59.0	2.7			
			LN	M_S=4.8		14.0	1.50	
WMQ	32.3	56	P	03 21 24.6	0.6			
GTA	41.1	64	P	03 22 39.1	0.8			
KMI	46.5	83	+P	03 23 21.0	−0.6			
BTO	48.8	61	eP	03 23 40.1	0.5			
XAN	49.2	70	eP	03 23 41.8	−0.6			
GYA	49.4	80	P	03 23 43.6	−0.5			
TIY	51.1	64	+iP	03 23 57.8	0.2			
BJI	53.5	61	eP	03 24 15.0	−0.3			
TIA	55.1	65	+P	03 24 27.2	0.0			
DL2	57.9	61	eP	03 24 47.0	0.3			

MAR 30d 04h 40m 08.5±0.17s, SD1.27/18
24.76 S±1.87km, 179.84 E±1.62km, h518±1.19km
South of Fiji (171)

TIY	88.7	313	+iP	04 52 09.0	0.9			
			S	05 02 14.0	5.3			
XAN	89.2	308	P	04 52 10.4	0.0			
CD2	91.4	303	P	04 52 21.9	1.1			

MAR 30d 06h 33m 51.1±0.05s, SD0.76/25
16.41 N±0.76km, 41.10 E±0.79km, h10±0.09km
Ethiopia (558)
M_S5.1/1,

KSH	38.1	46	eP	06 41 14.0	1.8			
			eS	06 47 05.0	0.2			
			LN	M_S=5.1		11.0	1.00	
WMQ	47.9	45	eP	06 42 32.5	0.8			
			eS	06 49 33.0	4.8			
			LZ	M_S=4.7		20.0	0.79	
GTA	55.7	53	P	06 43 29.8	−1.0			
GYA	61.3	69	P	06 44 09.8	−0.1			
XAN	62.8	60	eP	06 44 19.2	−0.6			
TIY	65.5	56	eP	06 44 38.0	0.4			

MAR 30d 07h 52m 48.6±0.06s, SD0.89/105
5.49 N±0.87km, 123.91 E±1.28km, h526±0.37km
Celebes Sea (262)
m_B5.1/8, m_b5.9/4,

QZN	19.2	316	−P	07 56 40.0	0.5			
			eS	07 59 51.0	5.4			
QZH	20.0	346	−iP	07 56 47.5	0.6			
			S	08 00 00.0	1.9			
GZH	20.2	331	−iP	07 56 49.8	0.6			
SSE	25.6	355	+P	07 57 37.7	0.1			
			eS	08 01 24.0	−5.4			
			ScS	08 07 30.0	0.5			
WHN	26.5	341	−iP	07 57 47.0	1.5			
			esP	08 00 10.0	−1.6			
			S	08 01 45.0	2.3			
GYA	26.6	324	P	07 57 46.8	0.4			
			sP	08 00 17.0	4.7			
			S	08 01 45.6	1.7			
NJ2	26.8	350	−P	07 57 49.6	1.0			
			PMZ	m_b=6.0		1.5	0.63	
			S	08 01 50.0	1.8			
			ScP	08 03 45.4	1.7			
KMI	28.2	316	−iP	07 58 01.0	0.6			
TIA	31.2	349	−P	07 58 25.8	−0.5			
			S	08 02 55.5	−0.3			
			SME	m_B=4.8		7.0	0.50	
			ScS	08 07 56.5	0.8			
CD2	31.6	326	−iP	07 58 29.7	0.0			
XAN	31.6	336	P	07 58 29.6	−0.4			
			S	08 03 01.3	−1.0			
			ScP	08 04 00.1	1.1			
			SS	08 05 44.0	−3.5			
DL2	33.3	357	−iP	07 58 44.5	0.3			
			S	08 03 26.0	−2.5			
TIY	33.7	343	−iP	07 58 48.0	0.2			
			PMZ	m_B=5.7		3.5	0.88	
			pP	08 00 24.0	3.9			
			sP	08 01 20.0	2.4			
			S	08 03 32.5	−2.2			
			SME	m_B=4.8		6.0	0.34	
BJI	35.1	350	−iP	07 58 59.0	0.0			
			S	08 03 54.0	−1.2			
			ScP	08 04 12.0	0.9			
			ScS	08 08 18.0	1.7			
LZH	35.6	331	−iP	07 59 04.5	1.1			
			PMZ	m_b=6.1		2.0	1.14	
			eS	08 04 03.0	−1.0			
			ScS	08 08 19.0	−0.1			
SNY	36.2	360	−iP	07 59 07.6	−0.4			
HHC	36.9	344	P	07 59 10.9	−3.2			
BTO	37.1	342	−P	07 59 15.5	−0.3			
			esP	08 01 48.0	1.2			
			S	08 04 26.0	0.7			
CN2	38.2	2	−P	07 59 23.2	−1.2			
			pP	08 00 57.0	−0.7			
			eS	08 04 40.0	−2.0			
LSA	39.2	312	P	07 59 32.5	−0.4			
			S	08 04 57.0	1.4			
MDJ	39.3	6	−P	07 59 33.4	0.0			
GTA	40.2	331	P	07 59 40.7	0.0			
			PcP	08 01 32.2	0.0			
			ScP	08 04 31.5	1.2			
			PMZ	m_b=5.9		2.0	0.68	
			S	08 05 10.4	0.4			
			ScS	08 08 45.3	−0.4			
WMQ	49.7	326	−iP	08 00 54.1	−0.2			
			ScP	08 05 10.3	0.9			
			eS	08 07 23.0	−1.3			
			SME	m_B=5.8		4.0	0.68	
			ScS	08 09 46.0	−0.9			
KSH	54.9	315	−iP	08 01 32.0	0.3			
			PP	08 03 44.0	0.6			
			sP	08 04 06.0	−3.1			

MAR 30d 18h 31m 04.5±0.05s, SD1.45/48
13.32 N±2.36km, 125.35 E±1.82km, h47±1.27km
Samar (251)
M_S4.3/2, m_b4.7/1,

SSE	18.1	348	+P	18 35 15.9	1.5			
			esS	18 38 42.0	−4.6			
			SMN			1.0	0.48	
WHN	19.9	331	eP	18 35 34.0	−1.3			
TIA	24.0	343	+P	18 36 15.6	−0.1			
XAN	25.5	327	P	18 36 29.0	−1.2			
DL2	25.7	353	eP	18 36 33.0	0.7			
CD2	26.5	315	eP	18 36 41.0	1.2			
TIY	26.9	337	eP	18 36 43.0	−0.4			
			S	18 41 17.0	3.2			
			sS	18 41 40.0	5.7			
			LN	M_S=4.2		12.0	0.28	
BJI	27.8	345	eP	18 36 50.5	−1.3			
SNY	28.4	357	eP	18 36 56.7	−0.7			
LZH	29.8	323	eP	18 37 09.5	−0.1			
			PMZ	m_b=4.7		2.0	0.029	
BTO	30.3	336	eP	18 37 14.0	−0.2			
CN2	30.4	0	eP	18 37 13.4	−1.2			

International Seismological Centre

MDJ	31.4	6	eP	18 37 23.5	−0.2			
GTA	34.4	324	P	18 37 48.4	−1.4			
WMQ	44.3	321	eP	18 39 08.0	−4.0			

MAR 30d 18h 41m 14.7 ± 0.09s, SD1.36 / 38
4.90 S ± 0.79km, 153.51 E ± 1.38km, h78 ± 0.70km
New Ireland region (190)

CN2	54.7	335	+P	18 50 37.6	−0.9			
GYA	55.0	307	−P	18 50 42.0	0.9			
XAN	57.2	316	eP	18 50 56.0	−0.5			
CD2	59.3	310	eP	18 51 11.9	0.4			
GTA	66.2	317	+iP	18 51 57.8	0.6			
WMQ	76.3	317	P	18 52 58.3	0.8			
KSH	83.6	311	eP	18 53 38.0	1.4			

MAR 30d 19h 58m 42.7 ± 0.10s, SD2.58 / 32
39.99 N ± 1.84km, 96.28 E ± 1.21km, h10 ± 0.38km
Gansu Province (322)
M_S4.0 / 2, M_L4.6 / 6,

GTA	2.8	101	Pn	19 59 30.8	2.9			
			Pg	19 59 33.9	2.0			
			Sg	20 00 10.4	0.3			
			SMN	M_L = 4.1		1.0	0.40	
			SME			0.5	1.22	
			LE			8.0	1.19	
			LZ			9.0	1.13	
LZH	7.1	121	ePn	20 00 30.0	2.4			
			SMN	M_L = 4.4		1.5	0.15	
			SME			2.0	0.17	
WMQ	7.4	304	Pn	20 00 35.1	3.2			
			Sn	20 01 53.0	−5.7			
			Sg	20 02 33.0	−3.0			
			SMN	M_L = 4.8		1.0	0.27	
			SME			0.9	0.38	
BTO	10.5	82	eP	20 01 14.5	−2.4			
XAN	11.7	117	eP	20 01 30.0	−3.3			
TIY	12.8	95	−P	20 01 44.9	−3.0			
			LN	M_S = 3.9		8.0	0.28	
BJI	15.2	83	eP	20 02 21.5	1.5			
TIA	16.8	96	−P	20 02 44.0	3.7			
WHN	17.5	117	eP	20 02 51.0	2.5			
CN2	22.0	70	eP	20 03 39.0	0.0			
SSE	22.1	106	eP	20 03 40.0	0.2			

MAR 30d 21h 30m 34.5 ± 0.13s, SD1.24 / 33
6.46 N ± 0.87km, 125.99 E ± 0.64km, h141 ± 1.53km
Mindanao (259)

SSE	24.9	350	eP	21 35 47.5	1.3			
NJ2	26.3	346	+P	21 36 00.3	1.1			
TIA	30.7	346	eP	21 36 38.4	−0.2			
XAN	31.7	332	P	21 36 48.7	1.7			
DL2	32.5	354	P	21 36 55.0	0.5			
BJI	34.6	347	eP	21 37 11.5	−0.4			
SNY	35.3	357	+iP	21 37 18.0	0.1			
CN2	37.2	359	−P	21 37 33.4	−0.6			
MDJ	38.1	4	eP	21 37 42.0	0.1			
GTA	40.4	328	eP	21 37 59.8	−0.9			

MAR 30d 23h 50m 57.9 ± 0.23s, SD1.25 / 82
24.85 S ± 2.18km, 70.48 W ± 0.83km, h42 ± 1.79km
Near coast of Northern Chile (122)
M_S6.1 / 26, m_B6.0 / 14,

KSH	148.2	54	ePKP	24 10 38.0	0.8			
			LE	M_S = 6.5		18.0	4.70	
WMQ	154.0	38	PKP	24 10 46.0	0.2			
			pPKP	24 10 54.0	−3.7			
			PKP2	24 11 08.2	−0.1			
			PP	24 14 44.0	−0.7			
			PPMZ	m_B = 6.1		5.0	0.65	
			LN	M_S = 6.3		30.0	5.42	
			LZ	M_S = 6.2		32.0	4.88	
MDJ	154.4	325	PKP	24 10 45.5	−0.7			
			PKP2	24 11 08.0	−2.0			
			PP	24 14 45.0	−1.8			
			LZ	M_S = 6.1		35.0	4.31	
CN2	157.0	329	PKP	24 10 49.0	−0.7			
			PKP2	24 11 20.0	−1.3			
			ePP	24 15 01.0	0.2			
			PPMZ	m_B = 6.0		7.0	0.92	
			LN	M_S = 6.2		20.0	2.92	
			LZ	M_S = 5.6		23.0	0.92	
SNY	159.4	329	iPKP	24 10 53.0	0.4			
			PPMZ			17.0	1.77	
			LN	M_S = 5.9		36.0	2.32	
			LZ	M_S = 6.1		23.0	2.94	
DL2	162.6	327	PKP	24 10 56.0	0.1			
LSA	163.0	69	PKP	24 10 56.5	−0.2			
GTA	163.3	27	PKP	24 10 57.3	0.5			
			PKP2	24 11 47.8	−0.6			
			PP	24 15 31.5	−3.0			
			PPMZ	m_B = 6.1		7.0	1.18	
			LZ	M_S = 5.9		32.0	2.46	
BJI	163.9	341	+PKP	24 10 57.0	−0.1			
			ePKP2	24 11 50.0	−0.7			
			ePP	24 15 34.0	−3.8			
			LN	M_S = 5.8		20.0	1.17	
			LZ	M_S = 6.1		24.0	2.92	
HHC	164.0	354	ePKP	24 10 58.4	1.0			
			PKP2	24 11 53.0	1.8			
			PP	24 15 36.0	−2.4			
			PPMZ	m_B = 5.9		7.0	0.92	
			LN	M_S = 6.2		21.0	2.52	
			LE			19.0	1.43	
BTO	164.3	359	ePKP	24 10 57.5	−0.2			
			PKP2	24 11 52.0	−0.6			
			PP	24 15 37.0	−3.2			
			PPMZ	m_B = 6.0		9.0	1.32	
			eSKKS	24 22 20.5	−0.4			
			SS	24 36 00.0	−4.7			
			LN	M_S = 6.0		21.0	1.32	
			LE			21.0	1.42	
			LZ	M_S = 6.1		21.0	2.82	
TIA	166.9	332	ePKP	24 11 00.0	0.2			
			ePP	24 15 51.0	−2.2			
			PPMZ	m_B = 5.8		8.0	0.72	
			LN	M_S = 6.3		22.0	2.72	
			LE			22.0	2.72	
TIY	166.9	350	ePKP	24 10 59.4	−0.5			
			PKP2	24 12 05.0	0.9			
			PP	24 15 52.0	−1.3			
			PPMZ	m_B = 6.2		6.0	1.36	
			LN	M_S = 6.3		21.0	2.92	
			LE			20.0	1.91	
			LZ	M_S = 6.4		25.0	6.34	
LZH	167.8	22	ePKP	24 11 00.0	−0.5			
			PKP2	24 12 08.0	0.2			
			PP	24 15 52.0	−5.5			
			SKKS	24 22 40.0	1.6			
			LN	M_S = 6.3		28.0	3.30	
			LE			28.0	3.71	
SSE	168.0	304	PKP	24 11 01.0	0.6			
			sPKP	24 11 14.0	−3.3			
			PKP2	24 12 07.0	−1.6			
			PP	24 15 56.0	−2.4			
			SS	24 36 45.0	3.7			
			LN	M_S = 6.2		24.0	3.56	

International Seismological Centre

			LZ		$M_S=6.3$		22.0	4.31
NJ2	169.1	313	−PKP	24 11 01.8		0.7		
XAN	170.8	3	PKP	24 11 02.6		0.3		
			PKP2	24 12 17.0		−4.3		
			PP	24 16 07.0		−5.7		
			SS	24 37 08.0		−1.0		
			LN		$M_S=6.1$		21.0	3.18
QZH	171.8	273	iPKP	24 11 05.0		2.3		
			LE		$M_S=5.8$		30.0	2.33
CD2	172.1	39	PKP	24 11 03.5		0.5		
			pPKP	24 11 17.0		2.1		
			PKP2	24 12 28.0		1.1		
			PP	24 16 18.0		−1.1		
			SKKS	24 23 02.5		2.5		
			LZ		$M_S=6.1$		22.0	3.15
WHN	172.9	324	−PKP	24 11 04.2		0.9		
			PP	24 16 20.5		−2.6		
			SKKS	24 23 07.0		3.0		
			SS	24 37 30.0		0.3		
			LZ		$M_S=6.1$		26.0	4.43
KMI	173.8	86	PKP	24 11 03.0		−1.0		
			pPKP	24 11 13.0		−3.0		
			sPKP	24 11 18.0		−2.6		
			PKP2	24 12 34.0		−0.7		
			PP	24 16 24.0		−3.8		
			SKKS	24 23 11.0		3.1		
			LZ		$M_S=6.0$		20.0	2.82
QZN	174.2	183	PKP	24 11 04.8		0.9		
			PKP2	24 12 36.0		−0.3		
			PP	24 16 30.0		0.4		
			SS	24 37 44.0		2.5		
			LN		$M_S=6.0$		21.0	2.42
			LE				20.0	2.32
GYA	177.0	58	PKP	24 11 04.8		0.2		
			PKP2	24 12 48.0		−0.5		
			PP	24 16 42.0		−0.4		
			SKKS	24 23 24.0		1.7		
			LE		$M_S=5.5$		40.0	2.52

MAR 31d 01h 59m 17.8±0.12s, SD1.00/87
7.16 N±1.50km, 126.77 E±1.34km, h180±0.58km
Mindanao (259)

QZN	20.2	307	−iP	02 03 40.8		−0.1
			S	02 07 18.0		5.7
GZH	20.4	322	+P	02 03 44.0		1.3
SSE	24.4	348	P	02 04 21.5		0.5
NJ2	25.8	344	+P	02 04 33.6		−1.0
WHN	26.0	335	P	02 04 37.2		1.0
GYA	27.1	317	P	02 04 46.4		0.1
			PcP	02 08 02.8		0.7
KMI	29.1	311	+P	02 05 04.0		−0.3
TIA	30.2	344	P	02 05 12.9		−1.2
XAN	31.4	331	+iP	02 05 24.0		−0.6
DL2	31.9	352	P	02 05 29.4		0.3
CD2	32.0	321	+iP	02 05 29.0		−0.4
TIY	33.1	339	eP	02 05 39.0		0.0
BJI	34.1	345	+P	02 05 47.0		−0.4
			PcP	02 08 21.5		1.1
SNY	34.6	356	+iP	02 05 52.4		0.3
LZH	35.6	327	+iP	02 06 02.0		1.4
HHC	36.2	340	eP	02 06 06.0		0.7
BTO	36.5	338	eP	02 06 06.9		−1.1
CN2	36.5	358	+P	02 06 07.6		−0.3
MDJ	37.4	3	eP	02 06 11.0		−4.3
GTA	40.2	327	+iP	02 06 39.8		0.9
			PcP	02 08 40.2		1.1
			ScP	02 12 12.7		3.0
			S	02 12 34.0		2.6
WMQ	50.0	323	−P	02 07 56.2		0.2
			PcP	02 09 13.0		0.1
KSH	55.7	313	P	02 08 39.3		0.8

MAR 31d 03h 25m 29.3±0.14s, SD3.14/15
43.18 N±1.39km, 122.09 E±1.35km, h9±0.17km
North-Eastern China (658)
M_L3.5/15,

SNY	1.7	140	iPg	03 26 01.3		1.2	
			Sg	03 26 24.2		0.3	
			SMN		$M_L=3.6$	0.6	0.62
			SME			0.6	0.50
CN2	2.5	75	Pg	03 26 16.4		2.5	
			eSg	03 26 50.5		2.1	
			SMN		$M_L=3.2$	0.5	0.17
			SME			0.5	0.11
BJI	5.4	237	ePg	03 27 06.0		0.9	

MAR 31d 08h 39m 05.4±0.09s, SD1.29/50
24.66 S±2.08km, 176.15 W±2.03km, h55±1.13km
South of Fiji (171)
M_S5.2/1,

MDJ	84.9	324	−P	08 51 37.5		1.1	
WHN	86.3	306	eP	08 51 43.0		−0.2	
SNY	86.5	319	eP	08 51 43.2		−1.0	
CN2	86.6	322	+P	08 51 44.8		−0.1	
TIA	87.3	312	P	08 51 48.2		−0.2	
BJI	90.0	315	eP	08 52 01.5		0.3	
TIY	91.3	311	+P	08 52 08.4		1.1	
			LZ		$M_S=5.0$	24.0	0.70
XAN	92.0	307	+P	08 52 11.0		0.6	
KMI	92.7	296	+P	08 52 14.5		0.5	
HHC	93.5	314	P	08 52 13.2		−4.0	
BTO	94.4	313	eP	08 52 21.0		−0.3	

MAR 31d 12h 21m 11.5±0.13s, SD2.73/23
34.09 N±2.11km, 140.89 E±2.56km, h66±0.70km
South of Honshu (211)
M_S4.0/2,

MDJ	13.7	324	eP	12 24 27.0		3.3
SNY	15.7	305	eP	12 24 55.0		5.2
WMQ	41.8	300	eP	12 28 56.5		−0.6

MAR 31d 14h 49m 00.4±0.08s, SD1.18/69
0.02 S±1.28km, 124.93 E±1.78km, h81±0.28km
Molucca Sea (269)
M_S4.9/7,

QZN	24.0	323	eP	14 54 08.9		−0.1	
			eS	14 58 19.5		1.8	
			sS	14 58 50.5		1.8	
GZH	25.6	335	eP	14 54 25.0		1.2	
SSE	31.1	354	eP	14 55 15.0		1.0	
			esS	15 00 46.0		0.6	
			LN		$M_S=4.9$	12.0	0.92
			LZ		$M_S=4.8$	10.0	0.95
GYA	31.7	328	P	14 55 19.0		0.4	
			PcP	14 58 10.2		2.0	
WHN	32.0	343	eP	14 55 22.0		0.4	
KMI	32.9	321	−P	14 55 30.5		0.6	
			eS	15 00 46.0		4.6	
			LZ		$M_S=4.6$	8.0	0.50
CD2	36.7	329	P	14 56 02.0		−0.1	
TIA	36.8	349	eP	14 56 00.0		−2.3	
			LN		$M_S=4.9$	11.0	0.52
			LE			11.0	0.46
			LZ		$M_S=4.4$	11.0	0.38
XAN	37.1	338	eP	14 56 03.2		−1.6	
			LN		$M_S=4.7$	12.0	0.51

International Seismological Centre

DL2	38.9	356	eP	14 56 23.0	3.4		
			eS	15 02 16.0	4.4		
TIY	39.3	344	eP	14 56 22.0	−1.2		
			S	15 02 18.0	1.0		
			sS	15 02 56.0	4.9		
			LN	M_S=4.9		11.0	0.51
			LE			11.0	0.37
			LZ	M_S=4.8		13.0	0.84
BJI	40.7	350	eP	14 56 33.0	−1.6		
LZH	40.9	334	eP	14 56 38.5	1.6		
SNY	41.7	358	eP	14 56 41.2	−1.7		
CN2	43.6	1	+P	14 56 59.3	0.4		
			pP	14 57 20.0	1.8		
			PP	14 58 45.8	3.1		
MDJ	44.6	5	+P	14 57 07.0	0.0		
WMQ	54.8	328	P	14 58 25.0	0.0		
KSH	59.5	317	eP	14 58 56.0	−2.2		

MAR 31d 20h 46m 53.6±0.10s, SD1.06/34
13.69 N±1.01km, 120.74 E±1.02km, h134±0.70km
Mindoro (250)

QZN	11.7	298	eP	20 49 35.6	−2.2
GYA	18.3	316	P	20 51 00.8	0.6
TIA	22.7	352	P	20 51 44.3	0.0
XAN	22.9	334	eP	20 51 46.0	−0.9
CD2	23.2	320	eP	20 51 50.3	0.8
TIY	25.0	344	eP	20 52 06.9	−0.3
BJI	26.6	352	eP	20 52 20.0	−1.1
WMQ	41.2	323	eP	20 54 28.4	1.1

MAR 31d 21h 26m 12.3±0.16s, SD2.28/23
8.91 S±3.98km, 78.83 W±3.80km, h52±1.61km
Off coast of Northern Peru (108)

WMQ	143.3	16	PKP	21 45 40.0	−1.7
DL2	144.9	332	ePKP	21 45 43.3	−1.2
BJI	146.2	339	−PKP	21 45 47.0	0.3
BTO	147.5	347	ePKP	21 45 50.0	1.1
TIY	149.6	342	iPKP	21 45 57.0	4.7
GTA	149.6	2	iPKP	21 45 57.1	4.7

MAR 31d 22h 22m 42.7±0.11s, SD1.79/52
35.45 N±1.59km, 140.19 E±1.57km, h84±1.31km
Near south coast of Honshu (230)

MDJ	12.2	322	eP	22 25 35.5	0.1
CN2	14.1	311	eP	22 26 00.6	1.0
SNY	14.4	301	eP	22 26 07.8	3.4
DL2	15.2	289	P	22 26 17.5	3.6
SSE	16.5	260	eP	22 26 32.5	2.5
BJI	19.5	291	eP	22 27 04.0	−2.0
WHN	22.2	265	eP	22 27 34.0	0.8
TIY	22.4	284	eP	22 27 39.2	4.1
XAN	25.7	276	eP	22 28 06.3	−0.6
GYA	30.0	262	P	22 28 45.0	−1.0
CD2	30.7	272	eP	22 28 52.0	−0.3
GTA	32.1	289	P	22 29 04.0	−0.6
WMQ	40.7	298	eP	22 30 17.6	0.7