Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
OCT 1d 02h 59m 05.7±0.15s, SD0.86/68							
30.99 N±1.10km, 51.35 E±0.99km, h42±0.89km							
Iran					(348)		
M_S4.8/7, m_B5.3/1, m_b4.9/6,							
KSH	21.7	60	P	03 03 57.5	1.7		
			pP	03 04 08.0	2.1		
			eS	03 07 54.0	5.1		
			LE	M_S=5.3		8.0	3.00
GTA	40.1	64	+iP	03 06 40.2	0.8		
			LE	M_S=4.7		10.0	0.32
LZH	43.6	69	eP	03 07 09.0	0.6		
			PMZ	m_B=5.3		3.5	0.17
			LZ	M_S=4.4		20.0	0.50
CD2	44.6	76	eP	03 07 16.0	−0.1		
KMI	45.4	84	+P	03 07 22.5	−0.3		
BTO	47.8	61	eP	03 07 40.5	−0.8		
			pP	03 07 54.0	1.8		
			eS	03 14 35.0	0.9		
			LN	M_S=4.9		14.9	0.50
			LE			14.0	0.30
GYA	48.3	81	P	03 07 44.6	−0.9		
HHC	48.9	61	P	03 07 50.2	0.1		
TIY	50.1	65	−P	03 07 59.6	0.3		
			eS	03 15 06.0	−0.6		
			LZ	M_S=4.7		20.0	0.75
BJI	52.5	61	eP	03 08 17.5	0.2		
			ePcP	03 09 28.0	1.4		
WHN	53.5	73	eP	03 08 23.3	−1.1		
			sP	03 08 39.5	−0.6		
QZN	53.8	88	−P	03 08 28.6	1.6		
TIA	54.1	66	eP	03 08 28.5	−0.7		
DL2	56.9	61	eP	03 08 49.5	0.3		
			PMZ	m_b=5.3		0.8	0.030
			pP	03 09 04.5	4.1		
			eS	03 16 40.0	1.9		
SNY	57.6	57	−P	03 08 53.2	−0.9		
CN2	58.4	55	eP	03 08 59.6	−0.5		
OCT 1d 03h 16m 54.1±0.09s, SD1.25/53							
6.61 S±1.46km, 130.14 E±2.35km, h156±0.46km							
Banda Sea					(280)		
m_b4.8/6,							
SSE	38.5	348	eP	03 24 03.0	0.2		
WHN	39.9	339	+P	03 24 16.0	1.1		
			PMZ	m_b=4.7		1.0	0.020
NJ2	39.9	345	eP	03 24 15.0	0.1		
GYA	40.0	326	P	03 24 16.0	0.4		
			pP	03 24 48.8	−0.3		
KMI	41.3	321	+P	03 24 22.5	−4.0		
CD2	45.1	327	eP	03 24 55.5	−1.0		
XAN	45.1	335	+P	03 24 56.5	−0.8		
TIY	47.1	341	eP	03 25 12.1	−0.4		
BJI	48.2	345	eP	03 25 20.5	−0.4		
			epP	03 25 55.0	−0.5		
SNY	48.6	353	−P	03 25 23.6	−0.4		
LZH	49.1	332	eP	03 25 28.5	0.0		
			PMZ	m_b=4.8		2.0	0.046
			pP	03 26 02.5	−0.5		
			sP	03 26 19.0	−1.5		
CN2	50.4	356	eP	03 25 37.0	−0.6		
			eS	03 32 43.0	5.5		
MDJ	51.0	359	eP	03 25 40.5	−1.9		
LSA	52.0	316	+P	03 25 50.8	0.2		
GTA	53.7	331	+iP	03 26 02.6	−0.1		
		63.1	327	P	03 27 08.0	−0.2		
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				PMZ	m_b=5.1		1.0	0.030
WMQ				pP	03 27 43.0	−1.3		
				eS	03 35 24.0	−1.6		
KSH		67.9	317	eP	03 27 40.0	1.5		
				eS	03 36 27.0	3.7		
OCT 1d 09h 10m 27.0±0.12s, SD3.40/16								
34.84 N±1.53km, 101.46 E±1.09km, h15±km								
Qinghai Province						(325)		
M_S3.6/2, M_L3.7/8,								
CD2		4.4	153	ePg	09 11 49.6	5.3		
GTA		4.7	344	Pn	09 11 41.2	2.5		
				Pg	09 11 49.2	−1.6		
				Sg	09 12 56.2	0.4		
				SMN	M_L=3.3		0.8	0.033
				SME			0.8	0.049
XAN		6.2	95	Pn	09 11 59.1	0.3		
				Pg	09 12 20.0	3.3		
				Sg	09 13 44.3	2.5		
				SMN	M_L=3.8		1.0	0.070
				SME			1.0	0.050
WMQ		13.9	314	P	09 13 45.5	−0.8		
				S	09 16 18.5	−2.3		
				SME			2.0	0.040
OCT 1d 12h 50m 46.2±0.08s, SD1.31/24								
25.15 N±0.69km, 122.25 E±0.93km, h205±1.09km								
Taiwan						(244)		
m_b4.6/1,								
QZH		3.3	267	−iP	12 51 40.0	−0.6		
				S	12 52 19.5	−2.8		
				SMN			0.5	0.10
				SME			0.3	0.060
GYA		14.1	279	P	12 54 02.0	3.5		
XAN		14.6	310	P	12 54 05.0	0.6		
TIY		15.1	329	+P	12 54 13.4	3.1		
CD2		17.3	294	eP	12 54 35.5	−1.3		
HHC		18.0	333	eP	12 54 46.0	1.4		
CN2		18.8	7	eP	12 54 52.0	−0.4		
LZH		19.2	309	+P	12 54 56.0	−0.8		
				PMZ	m_b=4.6		2.0	0.046
MDJ		20.3	15	eP	12 55 08.0	0.0		
GTA		23.6	312	eP	12 55 40.0	−0.3		
OCT 1d 15h 15m 46.7±0.20s, SD1.56/24								
6.38 S±0.89km, 148.77 E±1.57km, h92±1.63km								
New Britain region						(192)		
MDJ		53.6	343	eP	15 25 01.5	0.2		
CN2		54.2	339	eP	15 25 06.6	1.0		
BJI		55.1	330	eP	15 25 12.5	0.4		
GTA		64.2	320	eP	15 26 14.2	−0.3		
OCT 1d 19h 14m 32.2±0.16s, SD1.17/62								
7.48 S±2.07km, 154.83 E±2.18km, h40±1.54km								
Solomon Islands						(193)		
M_S5.6/4, m_b5.3/8,								
NJ2		52.2	321	−P	19 23 42.6	1.0		
				LN	M_S=5.5		18.0	2.44
WHN		54.2	316	eP	19 23 55.5	−0.9		
				sP	19 24 10.0	−1.7		
				eS	19 31 24.0	−5.1		
				LZ	M_S=5.4		16.0	2.97
DL2		55.5	329	P	19 24 05.7	−0.3		

			PMZ		$m_b = 5.5$		1.0	0.060
			LE		$M_S = 5.7$		14.0	2.70
			LZ		$M_S = 5.4$		16.0	2.70
TIA	56.1	323	eP	19 24 09.2		−0.9		
MDJ	56.6	339	eP	19 24 13.0		−1.2		
SNY	56.8	332	−P	19 24 14.2		−1.2		
CN2	57.6	335	eP	19 24 19.6		−1.2		
			epP	19 24 31.0		−0.6		
			eS	19 32 13.6		−0.6		
			LN		$M_S = 5.8$		14.0	3.10
			LZ		$M_S = 5.7$		15.0	4.60
GYA	57.6	308	P	19 24 21.6		0.3		
BJI	59.2	326	eP	19 24 32.0		−0.4		
TIY	59.9	322	eP	19 24 36.6		−0.4		
XAN	59.9	316	P	19 24 37.8		0.4		
CD2	62.0	311	eP	19 24 50.7		−0.7		
HHC	62.4	324	P	19 24 54.2		0.2		
BTO	63.1	323	eP	19 24 59.2		0.2		
LZH	64.5	316	eP	19 25 08.5		0.2		
			PMZ		$m_b = 5.3$		1.5	0.057
GTA	69.0	317	−iP	19 25 37.0		0.7		
KSH	86.2	310	P	19 27 14.2		2.4		
			eS	19 37 49.0		6.1		

OCT 1d 19h 24m 32.9 ± 0.06s, SD1.36 / 68
30.98 N ± 1.15km, 131.58 E ± 1.19km, h65 ± 1.22km
Kyushu (235)
M_S4.6 / 17, m_b4.7 / 10,

SSE	8.9	273	eP	19 26 42.2		0.6		
			LE		$M_S = 4.3$		14.0	2.30
			LZ		$M_S = 4.3$		16.0	2.90
NJ2	10.9	279	eP	19 27 07.0		−1.8		
DL2	11.4	317	eP	19 27 15.0		0.2		
			eS	19 29 22.0		1.1		
			LE		$M_S = 4.5$		14.0	2.69
			LZ		$M_S = 4.4$		16.0	2.66
SNY	12.6	331	+P	19 27 32.4		1.2		
			pP	19 27 41.9		−1.0		
			eS	19 29 48.0		−2.5		
			LN		$M_S = 4.7$		14.0	3.03
			LE				13.0	1.65
			LZ		$M_S = 4.8$		14.0	4.59
TIA	13.1	297	eP	19 27 38.4		0.0		
			LE		$M_S = 4.5$		12.0	1.50
			LZ		$M_S = 4.5$		15.0	2.44
WHN	14.8	273	eP	19 28 02.0		1.5		
BJI	15.4	310	eP	19 28 08.0		−0.4		
			PMZ		$m_b = 4.7$		1.3	0.043
			ePP	19 28 20.5		−1.6		
			eS	19 31 02.0		4.0		
			LN		$M_S = 4.7$		14.0	0.86
			LE				13.0	2.04
			LZ		$M_S = 4.8$		16.0	4.66
TIY	17.2	298	eP	19 28 32.0		1.8		
			LE		$M_S = 4.6$		15.0	1.60
			LZ		$M_S = 4.6$		18.0	2.92
HHC	18.9	307	+P	19 28 52.0		0.4		
			LN				0.4	1.58
			LE				0.4	1.56
			LZ		$M_S = 4.8$		16.0	3.57
XAN	19.3	285	P	19 28 55.5		−0.6		
BTO	19.9	305	eP	19 29 01.0		−1.2		
			pP	19 29 14.5		−1.1		
			eS	19 32 35.0		−3.0		
			LN		$M_S = 4.8$		13.0	1.30
			LE				13.0	1.50
GYA	22.3	265	P	19 29 27.0		0.6		
			pP	19 29 42.8		1.9		
LZH	23.6	290	eP	19 29 40.0		0.5		
			PMZ		$m_b = 5.0$		1.5	0.096
			pP	19 29 52.0		−2.3		
			eS	19 33 46.0		−0.5		
			LE		$M_S = 4.7$		13.0	1.12
			LZ		$M_S = 4.8$		16.0	2.40
CD2	23.8	277	P	19 29 41.4		0.1		
GTA	27.2	297	eP	19 30 11.1		−1.8		
			LN		$M_S = 4.6$		12.0	0.64
			LZ		$M_S = 4.4$		16.0	0.87
WMQ	36.7	303	eP	19 31 35.0		−1.1		
			PP	19 33 04.0		2.4		
			eS	19 37 08.5		−6.3		
			LZ		$M_S = 4.7$		26.0	1.56

OCT 2d 07h 55m 40.2 ± 0.07s, SD1.07 / 84
10.53 N ± 1.29km, 126.96 E ± 1.61km, h25 ± 0.14km
Philippine Islands region (248)
M_S4.9 / 4, m_B5.4 / 5, m_b5.4 / 18,

QZH	16.4	332	eP	07 59 30.0		−0.4		
			LZ		$M_S = 4.3$		15.0	1.30
SSE	21.1	346	−P	08 00 27.0		1.0		
			PMZ		$m_b = 5.2$		1.5	0.15
			PP	08 00 46.5		−2.4		
			sS	08 04 24.0		−3.2		
			LZ		$M_S = 4.3$		18.0	1.00
NJ2	22.7	342	+P	08 00 42.2		0.9		
WHN	23.1	331	eP	08 00 46.5		1.0		
			PMZ		$m_b = 5.1$		1.2	0.10
			pP	08 00 50.0		−3.0		
			S	08 04 54.0		3.5		
			SMN		$m_B = 5.6$		10.0	1.89
			LZ		$M_S = 4.5$		16.0	1.19
GYA	24.9	312	−P	08 01 05.0		2.3		
TIA	27.1	342	−P	08 01 22.4		−0.8		
KMI	27.2	305	+P	08 01 23.5		−0.8		
			pP	08 01 28.0		−3.7		
			S	08 06 04.0		5.2		
			LZ		$M_S = 5.0$		15.0	2.80
XAN	28.6	328	P	08 01 36.1		−1.3		
DL2	28.7	351	−P	08 01 37.2		−0.2		
			PMZ		$m_b = 5.4$		1.0	0.070
			pP	08 01 40.5		−4.6		
			eS	08 06 23.0		−0.4		
			LE		$M_S = 4.4$		12.0	0.34
			LZ		$M_S = 4.4$		15.0	0.66
CD2	29.6	317	eP	08 01 45.3		−0.4		
TIY	30.0	337	+iP	08 01 49.8		−0.2		
			eS	08 06 43.0		−2.9		
			PcS	08 08 30.0		−3.2		
			LZ		$M_S = 4.5$		18.0	0.97
BJI	30.9	344	eP	08 01 57.0		−0.5		
			PMZ		$m_b = 5.2$		1.5	0.057
			eSS	08 08 38.0		−4.1		
			LZ		$M_S = 4.6$		14.0	0.82
SNY	31.3	355	−iP	08 02 01.2		0.1		
			PMZ		$m_b = 5.7$		0.9	0.11
			pP	08 02 05.0		−3.8		
			eS	08 07 05.0		−0.5		
			LZ		$M_S = 4.5$		20.0	0.97
LZH	33.0	324	−P	08 02 15.5		−0.2		
			PMZ		$m_b = 5.4$		2.0	0.12
			pP	08 02 20.0		−3.3		
			LZ		$M_S = 4.8$		16.0	1.50
HHC	33.1	338	P	08 02 17.0		0.0		
CN2	33.2	358	−P	08 02 16.5		−0.8		
			PMZ		$m_B = 5.8$		4.0	0.60
			pP	08 02 22.0		−3.1		

			PcP	08 04 59.0	−0.4			
			eS	08 07 34.0	−0.6			
			SME	$m_B = 5.3$		9.0	0.50	
			LZ	$M_S = 4.6$		14.0	0.90	
BTO	33.5	336	eP	08 02 20.0	−0.2			
			sP	08 02 27.0	−4.3			
			eS	08 07 40.0	0.3			
			LN	$M_S = 5.0$		15.0	1.00	
			LE			15.0	0.90	
MDJ	34.0	3	−iP	08 02 24.0	−0.8			
			S	08 07 46.0	−1.1			
			LZ	$M_S = 4.8$		12.0	1.11	
GTA	37.6	325	−iP	08 02 55.1	0.3			
			PMZ	$m_b = 5.6$		1.0	0.10	
			LZ	$M_S = 4.6$		16.0	0.73	
LSA	38.4	305	P	08 03 03.0	0.5			
WMQ	47.4	322	−P	08 04 15.5	0.3			
			sP	08 04 22.0	−4.4			
			S	08 11 09.5	3.3			
			SMN	$m_B = 5.3$		4.0	0.18	
			LZ	$M_S = 4.7$		20.0	0.90	
KSH	53.6	312	eP	08 05 03.0	0.8			
			eS	08 12 34.0	1.0			

OCT 2d 12h 19m 17.9 ± 0.10s, SD1.77 / 22
52.63 N ± 4.00km, 169.29 W ± 2.03km, h32 ± 0.73km
Fox Islands (9)
m_b5.1 / 1,

SSE	53.8	275	eP	12 28 40.5	0.1			
			PMZ	$m_b = 5.1$		1.2	0.028	
GTA	60.4	297	eP	12 29 26.6	−0.7			
WMQ	63.4	308	eP	12 29 47.5	0.1			
GYA	65.9	282	P	12 30 05.2	1.5			

OCT 2d 22h 10m 15.8 ± 0.08s, SD1.39 / 71
47.32 N ± 3.61km, 156.14 E ± 1.88km, h27 ± 0.71km
Kurile Islands region (222)
M_S4.3 / 1, m_b5.0 / 9,

MDJ	18.6	271	eP	22 14 30.5	−3.2			
CN2	21.7	272	+P	22 15 03.6	−3.4			
			epP	22 15 12.6	−2.2			
			eS	22 19 00.0	−0.9			
			LZ	$M_S = 4.2$		15.0	0.60	
SNY	23.7	269	+iP	22 15 27.0	0.1			
			sP	22 15 41.8	3.3			
			eS	22 19 31.0	−6.3			
			LZ	$M_S = 4.4$		13.0	0.77	
DL2	26.4	264	eP	22 15 52.0	−0.2			
			pP	22 16 00.0	−0.1			
			eS	22 20 22.0	0.0			
			sS	22 20 36.0	0.6			
BJI	29.6	271	eP	22 16 23.0	2.3			
			eS	22 21 12.0	−0.9			
			esS	22 21 28.0	1.5			
			LZ	$M_S = 4.0$		15.0	0.29	
TIA	30.8	263	eP	22 16 31.9	−0.4			
NJ2	32.1	255	+P	22 16 43.6	−0.1			
HHC	32.3	275	+P	22 16 45.3	−0.1			
TIY	33.2	269	+P	22 16 57.5	4.2			
			LZ	$M_S = 4.2$		16.0	0.36	
BTO	33.5	276	eP	22 16 54.0	−1.4			
WHN	36.1	258	eP	22 17 15.5	−2.1			
			PMZ	$m_b = 5.0$		0.7	0.020	
XAN	37.6	267	P	22 17 30.0	−0.6			
LZH	39.9	273	eP	22 17 51.5	1.5			
			PMZ	$m_b = 5.0$		1.5	0.038	
			pP	22 17 55.0	−3.1			
GTA	40.9	280	−P	22 17 58.6	0.4			
			PMZ	$m_b = 5.2$		1.2	0.052	
			LZ	$M_S = 4.3$		16.0	0.35	
CD2	43.0	267	eP	22 18 15.0	0.0			
GYA	43.9	260	−P	22 18 23.0	0.8			
WMQ	46.6	292	P	22 18 44.5	0.2			
LSA	52.3	275	P	22 19 28.8	0.6			
KSH	56.4	294	eP	22 19 58.0	0.3			

OCT 3d 15h 21m 44.0 ± 0.08s, SD0.73 / 73
5.54 S ± 0.75km, 147.52 E ± 1.78km, h184 ± 1.00km
Eastern New Guinea region (207)
m_b5.0 / 16,

QZH	41.4	318	−iP	15 29 14.6	0.8			
SSE	44.3	327	+P	15 29 38.0	0.6			
			PMZ	$m_b = 5.0$		0.8	0.032	
			pP	15 30 18.0	1.0			
			eS	15 35 56.0	−1.0			
NJ2	46.3	326	+P	15 29 54.0	0.7			
			PMZ	$m_b = 5.0$		1.0	0.044	
WHN	47.9	320	+P	15 30 07.0	1.1			
			PMZ	$m_b = 4.8$		1.0	0.026	
TIA	50.4	328	eP	15 30 23.8	−0.9			
GYA	50.8	311	P	15 30 28.4	0.5			
			pP	15 31 08.0	−0.5			
SNY	52.0	337	eP	15 30 36.0	−0.7			
MDJ	52.5	344	eP	15 30 40.0	−0.4			
CN2	53.0	340	eP	15 30 44.0	−0.4			
			PcP	15 31 49.0	−0.9			
XAN	53.7	320	+P	15 30 48.6	−0.7			
BJI	53.8	330	eP	15 30 49.5	−0.4			
			PMZ	$m_b = 4.7$		1.5	0.028	
			eS	15 38 08.0	−0.7			
			esS	15 39 20.0	−0.5			
TIY	54.0	326	eP	15 30 51.4	−0.5			
			S	15 38 17.0	6.0			
CD2	55.3	314	P	15 31 01.0	−0.4			
HHC	56.7	328	eP	15 31 10.8	−0.5			
BTO	57.4	327	eP	15 31 15.5	−0.4			
LZH	58.2	319	+P	15 31 22.0	0.2			
			PMZ	$m_b = 5.2$		1.5	0.077	
			pP	15 32 02.0	−1.3			
GTA	62.7	320	+iP	15 31 52.0	−0.4			
			PMZ	$m_b = 5.1$		1.0	0.038	
LSA	64.4	307	P	15 32 05.0	1.5			
WMQ	72.8	319	+P	15 32 54.5	−0.3			
			S	15 42 06.0	3.0			
KSH	79.5	312	eP	15 33 33.7	1.2			
			eS	15 43 21.0	3.1			

OCT 3d 21h 33m 36.8 ± 0.31s, SD1.34 / 61
24.25 S ± 2.31km, 66.81 W ± 1.15km, h173 ± 2.58km
Chile–Argentina border region (127)

KSH	145.2	55	ePKP	21 52 53.0	−1.9
			pPKP	21 53 34.0	−4.7
			PP	21 56 16.0	−1.6
WMQ	151.4	41	PKP	21 53 04.5	−0.3
			PKP2	21 53 22.0	0.9
			sPKP	21 54 10.0	2.8
MDJ	155.7	331	ePKP	21 53 10.0	−0.6
CN2	158.1	336	PKP	21 53 12.8	−1.0
			PP	21 57 32.0	1.4
LSA	159.6	70	PKP	21 53 18.2	2.1
SNY	160.5	336	PKP	21 53 16.4	0.0
GTA	161.1	34	iPKP	21 53 17.5	0.2
HHC	163.4	4	ePKP	21 53 20.0	0.5
BTO	163.5	9	ePKP	21 53 20.8	1.2
BJI	164.1	352	ePKP	21 53 20.0	0.0
			pPKP	21 54 10.0	5.4

LZH	165.7	32	ePKP	21 53 21.5	−0.3		
TIY	166.6	3	ePKP	21 53 23.0	0.7		
TIA	167.6	345	ePKP	21 53 23.7	0.7		
CD2	169.3	49	PKP	21 53 25.2	1.1		
XAN	169.6	20	iPKP	21 53 25.1	0.9		
NJ2	170.8	329	ePKP	21 53 25.0	0.1		
WHN	173.6	351	ePKP	21 53 23.5	−2.6		
GYA	173.7	68	PKP	21 53 27.0	0.8		

OCT 3d 23h 09m 52.7 ± 0.07s, SD1.16 / 84
80.66 N ± 1.09km, 121.74 E ± 1.48km, h31 ± 0.03km
East of Severnaya Zemlya (654)
M_S5.5 / 34, m_g5.4 / 8, m_b5.0 / 10,

MDJ	36.3	171	eP	23 16 55.2	−0.4		
			pP	23 17 03.0	−1.5		
			S	23 22 38.0	5.0		
			LE	M_S = 5.3		13.0	2.10
			LZ	M_S = 5.5		12.0	4.60
CN2	37.0	176	+P	23 17 01.5	−0.3		
			PMZ	m_B = 5.6		4.0	0.40
			pP	23 17 10.0	−0.6		
			PP	23 18 26.0	−2.1		
			PPMZ			10.0	0.50
			eS	23 22 45.0	−0.2		
			SMN	m_B = 5.3		8.0	0.30
			SME			8.0	0.40
			iSS	23 25 18.0	3.6		
			LN	M_S = 5.3		13.0	1.30
			LE			13.0	1.40
			LZ	M_S = 5.4		14.0	4.40
WMQ	38.9	220	P	23 17 18.0	0.6		
			S	23 23 16.0	3.6		
			SMN	m_B = 5.4		7.0	0.50
			LN	M_S = 5.9		16.0	6.23
			LE			18.0	7.92
			LZ	M_S = 4.7		19.0	1.06
SNY	39.0	178	+P	23 17 18.1	0.0		
			pP	23 17 25.8	−1.2		
			sP	23 17 28.6	−2.3		
			PP	23 18 55.0	3.5		
			S	23 23 14.0	0.0		
			SME	m_B = 5.3		9.0	0.47
			LZ	M_S = 5.0		19.0	2.27
HHC	40.1	192	eP	23 17 28.0	0.2		
			S	23 23 35.0	3.8		
			LN	M_S = 5.5		10.0	1.90
			LE			10.0	1.05
BTO	40.4	194	eP	23 17 31.5	1.2		
			pP	23 17 39.0	−0.1		
			PP	23 19 08.0	0.8		
			eS	23 23 39.0	2.1		
			LN	M_S = 5.6		11.0	3.00
			LE			11.0	1.10
BJI	40.8	187	eP	23 17 34.0	0.7		
			PMZ	m_b = 5.2		1.0	0.042
			PMZ	m_B = 5.4		6.0	0.41
			ePP	23 19 12.0	1.3		
			eS	23 23 40.0	−2.3		
			eSS	23 26 40.0	1.3		
			LN	M_S = 5.3		11.0	1.46
			LZ	M_S = 5.5		16.0	5.25
DL2	41.9	180	eP	23 17 42.0	−0.2		
			eS	23 24 00.0	1.6		
			SME	m_B = 5.6		6.0	0.66
			SS	23 27 04.0	4.5		
			LN	M_S = 5.5		12.0	2.04
			LE			12.9	1.67
			LZ	M_S = 4.6		22.0	0.90
GTA	42.2	206	eP	23 17 44.8	0.1		
			PP	23 19 26.0	0.6		
			S	23 24 04.6	3.0		
			SS	23 27 04.0	−0.8		
			LE	M_S = 5.5		15.0	3.22
			LZ	M_S = 4.9		24.0	2.08
TIY	43.2	191	eP	23 17 54.5	1.2		
			sS	23 24 38.0	5.3		
			ScS	23 27 47.0	−1.0		
			LN	M_S = 5.4		11.0	1.72
			LZ	M_S = 5.2		21.0	3.07
KSH	44.5	232	eP	23 18 05.0	1.3		
			sP	23 18 15.0	−1.3		
			PP	23 19 51.0	2.5		
			eS	23 24 41.0	4.2		
			LE	M_S = 5.7		13.0	4.10
			LZ	M_S = 5.5		16.0	4.80
TIA	44.6	185	eP	23 18 04.5	0.1		
			S	23 24 37.5	0.4		
			LN	M_S = 5.6		15.0	2.64
			LE			15.0	2.21
			LZ	M_S = 5.3		17.0	3.20
LZH	45.2	201	eP	23 18 10.0	0.6		
			PMZ	m_b = 5.1		1.5	0.040
			pP	23 18 18.5	0.3		
			PcP	23 19 50.0	1.1		
			eS	23 24 48.0	0.8		
			LN	M_S = 5.6		14.0	2.90
			LZ	M_S = 5.9		14.0	11.1
XAN	47.0	195	P	23 18 23.1	−0.3		
			S	23 25 13.0	1.7		
			LN	M_S = 5.7		13.0	3.30
			LE			13.0	1.80
NJ2	48.7	183	−P	23 18 36.0	−0.9		
			eS	23 25 40.0	3.2		
			LZ	M_S = 5.1		14.0	1.54
SSE	49.7	181	eP	23 18 41.1	−3.0		
			pP	23 18 54.0	0.9		
			eS	23 25 54.0	4.1		
			eSS	23 29 22.0	4.5		
			LE	M_S = 5.4		14.0	1.75
			LZ	M_S = 4.7		20.0	0.84
WHN	50.3	188	eP	23 18 48.5	−0.5		
			PMZ	m_b = 5.0		1.0	0.020
			pP	23 18 59.0	1.0		
			S	23 26 02.0	4.3		
			LN	M_S = 5.6		14.0	2.46
			LZ	M_S = 5.0		20.0	1.38
CD2	50.4	200	P	23 18 49.4	−0.1		
			eS	23 26 04.0	4.3		
			LE	M_S = 5.6		11.0	1.86
			LZ	M_S = 5.2		13.0	1.64
GYA	54.6	197	P	23 19 21.6	0.0		
			pP	23 19 28.6	−1.9		
			LE	M_S = 5.9		18.0	6.40
			LZ	M_S = 5.0		20.0	1.30
QZH	55.8	183	eP	23 19 28.0	−1.9		
			eS	23 27 12.0	−1.7		
			LN	M_S = 5.0		12.0	0.47
			LZ	M_S = 5.2		13.0	1.19

OCT 4d 06h 46m 13.5 ± 0.06s, SD1.40 / 19
23.71 S ± 1.61km, 179.99 E ± 1.41km, h525 ± 0.41km
South of Fiji (171)

WHN	82.9	308	+P	06 57 45.5	1.0		
TIY	88.1	313	eP	06 58 10.8	1.2		

OCT 4d 08h 52m 51.1 ± 0.12s, SD3.12 / 14

38.38 N ± 1.55km, 104.87 E ± 1.04km, h13 ± 0.35km
Northern China (323)
M_L3.7 / 12,

LZH	2.4	200	ePn	08 53 34.0	2.8			
			Pg	08 53 38.0	3.9			
			Sn	08 54 07.0	4.5			
			Sg	08 54 12.0	4.5			
			SMN	M_L = 3.7		1.0	0.49	
			SME			1.0	0.39	
BTO	4.6	59	Pg	08 54 09.0	−2.8			
			SMN	M_L = 3.6		0.4	0.10	
			SME			0.4	0.070	
XAN	5.4	142	Pn	08 54 10.5	−1.8			
			Pg	08 54 29.6	2.5			
			Sg	08 55 40.0	−1.4			
HHC	5.7	62	Pn	08 54 20.0	3.6			
			Pg	08 54 31.0	−1.2			
			SMN	M_L = 4.3		0.8	0.31	
			SME			0.6	0.15	
TIY	6.0	94	ePg	08 54 38.6	1.2			
			SMN	M_L = 4.2		0.8	0.22	
			SME			0.8	0.13	

OCT 4d 11h 30m 01.8 ± 0.09s, SD2.14 / 27
49.94 N ± 1.38km, 78.26 E ± 1.44km, h34 ± 0.27km
Eastern Kazakhstan (329)
M_L4.6 / 6,

WMQ	8.9	130	P	11 32 09.4	−1.8			
			SMN	M_L = 4.6		1.0	0.11	
			SME			1.0	0.12	
GTA	18.5	116	eP	11 34 18.3	0.5			
GYA	32.0	126	P	11 36 28.8	0.9			
WHN	33.2	112	−iP	11 36 39.5	1.3			

OCT 4d 12h 17m 37.8 ± 0.06s, SD1.21 / 89
47.08 N ± 2.54km, 153.82 E ± 1.52km, h28 ± 0.87km
Kurile Islands (221)
M_S4.8 / 16, m_B4.9 / 3, m_b5.2 / 14,

MDJ	17.0	271	eP	12 21 36.0	0.1			
CN2	20.1	271	eP	12 22 11.0	−1.7			
SNY	22.1	267	+P	12 22 29.0	−4.1			
			PMZ	m_b = 5.3		0.8	0.12	
			PMZ	m_B = 4.9		12.0	0.60	
			eS	12 26 30.0	−0.6			
			LN	M_S = 4.6		12.0	0.93	
			LZ	M_S = 4.8		16.0	2.69	
DL2	24.8	263	P	12 22 59.0	0.0			
			PMZ	m_B = 5.1		5.0	0.35	
			eS	12 27 18.0	0.8			
			sS	12 27 32.0	1.5			
			LN	M_S = 4.6		10.0	0.57	
			LZ	M_S = 4.3		14.0	0.63	
BJI	28.0	269	eP	12 23 28.0	−0.5			
			eS	12 28 10.0	0.7			
			LN	M_S = 4.8		16.0	1.21	
			LZ	M_S = 4.8		16.0	2.04	
TIA	29.2	262	eP	12 23 39.2	−0.7			
SSE	29.7	249	P	12 23 43.5	−0.2			
			PMZ	m_b = 5.2		1.0	0.050	
			pP	12 23 53.0	1.0			
			LN	M_S = 4.2		10.0	0.20	
			LZ	M_S = 4.3		16.0	0.60	
NJ2	30.6	253	−P	12 23 51.4	−0.2			
			PMZ	m_b = 5.3		1.0	0.054	
			pP	12 24 01.0	1.2			
HHC	30.8	274	−P	12 23 58.0	4.5			
			LN	M_S = 4.9		14.0	0.89	
			LE			13.0	0.82	
			LZ	M_S = 4.8		17.0	1.70	
TIY	31.6	268	eP	12 24 01.5	0.2			
			PMZ	m_b = 5.3		1.0	0.050	
			S	12 29 12.0	5.2			
			sS	12 29 24.0	2.4			
			LE	M_S = 4.7		16.0	0.82	
			LZ	M_S = 4.8		17.0	1.68	
BTO	31.9	275	eP	12 24 03.0	−0.8			
			pP	12 24 13.0	1.2			
			eS	12 29 11.0	−1.2			
			LN	M_S = 4.8		14.0	0.90	
			LE			15.0	0.40	
WHN	34.5	256	+iP	12 24 25.0	−0.8			
			PMZ	m_b = 5.3		0.8	0.040	
			pP	12 24 35.0	0.8			
			eS	12 29 48.0	−3.8			
QZH	35.6	244	−P	12 24 35.7	0.2			
LZH	38.4	272	+P	12 24 59.0	0.2			
			pP	12 25 03.5	−3.6			
			sP	12 25 08.5	−2.2			
			LE	M_S = 4.9		14.0	0.74	
			LZ	M_S = 5.4		8.0	2.20	
GTA	39.4	279	+P	12 25 07.2	−0.2			
			LN	M_S = 4.8		13.0	0.59	
			LZ	M_S = 4.8		14.0	1.03	
GZH	40.2	248	−P	12 25 13.7	−0.5			
CD2	41.4	265	+iP	12 25 23.8	0.0			
GYA	42.3	258	+P	12 25 30.8	−0.2			
			pP	12 25 43.0	3.7			
			S	12 31 54.0	5.3			
WMQ	45.3	291	P	12 25 55.5	0.3			
			sP	12 26 09.0	1.8			
			eS	12 32 35.5	2.1			
			LN	M_S = 4.8		13.0	0.45	
			LZ	M_S = 5.0		16.0	1.60	
KMI	45.8	260	+P	12 25 59.0	−0.5			
LSA	50.7	273	−iP	12 26 40.4	2.1			
KSH	55.0	293	eP	12 27 08.9	−0.8			

OCT 4d 15h 34m 54.1 ± 0.08s, SD1.28 / 33
0.93 S ± 1.41km, 126.75 E ± 2.10km, h33 ± 0.06km
Molucca Sea (269)
m_b5.0 / 1,

XAN	38.6	336	+P	15 42 16.4	0.1			
TIY	40.7	342	−P	15 42 34.2	0.7			
BJI	41.9	348	eP	15 42 43.0	−0.5			
LZH	42.6	332	eP	15 42 49.0	−0.1			
			PMZ	m_b = 5.0		1.5	0.038	
SNY	42.7	357	+P	15 42 48.7	−1.0			
MDJ	45.4	3	eP	15 43 11.5	−0.5			
GTA	47.1	331	−P	15 43 25.7	0.1			
WMQ	56.6	327	P	15 44 35.5	−1.0			

OCT 4d 22h 42m 28.3 ± 0.10s, SD2.19 / 17
36.72 N ± 1.27km, 82.95 E ± 0.95km, h10 ± 0.23km
Southern Xinjiang Province (321)
M_L4.6 / 6,

KSH	6.2	299	ePn	22 44 01.9	1.5			
			ePg	22 44 15.5	−2.3			
			eSn	22 45 15.0	1.5			
			SMN	M_L = 5.2		0.7	1.70	
			SME			0.5	1.50	
WMQ	8.0	26	P	22 44 28.3	1.1			
			S	22 45 56.4	−1.5			
			SMN	M_L = 4.4		0.8	0.090	
			SME			0.8	0.11	
XAN	21.3	89	P	22 47 16.8	−1.3			
GYA	22.6	110	P	22 47 33.6	2.8			

TIY	23.5	79	eP	22 47 41.4	2.1			
	OCT 5d 02h 45m 58.6 ± 0.10s, SD2.29 / 22							
	39.63 N ± 0.91km, 118.29 E ± 0.90km, h4 ± 0.44km							
	North-Eastern China				(658)			
	M_L3.5 / 18,							
BJI	1.7	285	Pn	02 46 25.0	−4.0			
			Pg	02 46 27.0	−1.2			
			Sg	02 46 49.5	−1.6			
			SMN	M_L = 3.1		0.5	0.18	
			SME			0.5	0.20	
DL2	2.7	105	ePn	02 46 47.5	4.6			
			Sg	02 47 21.0	−1.9			
			SMN	M_L = 3.5		0.4	0.26	
			SME			0.4	0.17	
TIA	3.5	195	Pn	02 46 55.2	0.6			
			Pg	02 47 02.3	1.3			
			Sn	02 47 33.4	−5.4			
			Sg	02 47 48.3	−1.1			
			SMN	M_L = 3.3		0.9	0.072	
			SME			0.8	0.10	
SNY	4.6	60	Pg	02 47 20.8	1.3			
			Sg	02 48 19.5	−2.5			
			SMN	M_L = 3.5		1.0	0.099	
			SME			0.8	0.058	
TIY	5.0	249	ePn	02 47 13.9	−0.4			
			Pg	02 47 27.8	1.6			
			Sg	02 48 28.0	−6.1			
			SMN	M_L = 3.3		0.5	0.040	
			SME			0.6	0.030	
HHC	5.3	285	Pg	02 47 34.8	2.7			
			Sg	02 48 43.1	−1.1			
			SMN	M_L = 3.7		1.0	0.050	
			SME			1.0	0.12	
BTO	6.4	281	ePg	02 47 53.4	1.4			
			Sg	02 49 16.4	−3.0			
			SMN	M_L = 3.4		0.8	0.030	
			SME			0.8	0.010	
CN2	6.8	50	ePg	02 47 59.6	1.1			
			eSn	02 48 57.4	−1.9			
			Sg	02 49 27.4	−3.7			
			SMN	M_L = 3.5		1.0	0.025	
			SME			1.0	0.022	
	OCT 5d 03h 55m 37.2 ± 0.09s, SD2.07 / 29							
	39.53 N ± 0.99km, 118.36 E ± 1.00km, h12 ± 0.23km							
	North-Eastern China				(658)			
	M_L3.9 / 18,							
BJI	1.8	287	Pn	03 56 05.5	−2.4			
			Pg	03 56 07.5	−0.8			
			Sg	03 56 29.0	−3.5			
DL2	2.6	103	ePn	03 56 19.5	−0.1			
			Pg	03 56 26.5	3.2			
			Sg	03 57 01.5	2.4			
			SMN	M_L = 3.8		0.4	0.59	
			SME			0.4	0.37	
TIA	3.5	197	ePn	03 56 32.2	0.9			
			Pg	03 56 42.1	3.8			
			Sn	03 57 12.4	−1.7			
			Sg	03 57 26.4	0.8			
			SMN	M_L = 3.9		0.7	0.30	
			SME			0.7	0.40	
SNY	4.6	58	Pg	03 57 00.0	1.9			
			Sg	03 57 59.0	−1.7			
			SMN	M_L = 3.8		1.0	0.17	
			SME			0.8	0.090	
TIY	5.0	250	Pn	03 56 52.9	0.5			
			Pg	03 57 07.4	2.2			
			Sn	03 57 49.6	−2.3			
			Sg	03 58 08.9	−4.6			
			SMN	M_L = 3.9		0.7	0.16	
			SME			0.8	0.15	
HHC	5.4	286	Pg	03 57 14.4	2.1			
			Sg	03 58 22.1	−3.4			
			SMN	M_L = 4.3		1.0	0.16	
			SME			1.0	0.45	
BTO	6.5	282	ePg	03 57 33.0	1.0			
			Sg	03 58 57.4	−3.1			
			SMN	M_L = 3.8		0.6	0.070	
			SME			0.6	0.040	
CN2	6.8	49	Pg	03 57 40.0	2.6			
			eSn	03 58 35.9	−1.0			
			Sg	03 59 09.6	−0.7			
			SMN	M_L = 4.0		1.0	0.098	
			SME			1.0	0.049	
WHN	9.6	201	eP	03 57 58.5	0.7			
	OCT 5d 08h 11m 45.2 ± 0.06s, SD1.32 / 84							
	27.32 N ± 1.16km, 126.54 E ± 1.00km, h195 ± 0.72km							
	Ryukyu Islands				(238)			
	m_B5.2 / 3, m_b5.5 / 26,							
SSE	6.0	310	+iP	08 13 12.5	−0.9			
			PMZ	m_b = 5.8		2.0	1.48	
			sP	08 13 52.0	−3.3			
			S	08 14 21.0	−0.6			
			LN			6.0	0.62	
			LE			6.0	0.43	
			LZ			12.0	0.45	
QZH	7.5	253	−P	08 13 33.4	0.1			
			eS	08 15 00.0	2.6			
NJ2	8.2	307	+P	08 13 42.0	0.2			
			PMZ	m_b = 5.6		2.0	0.74	
			S	08 15 14.0	1.4			
WHN	11.1	290	P	08 14 20.0	−0.4			
			PMZ	m_b = 5.0		1.0	0.070	
			S	08 16 19.0	−2.8			
TIA	11.9	320	−P	08 14 31.3	0.7			
DL2	12.3	342	eP	08 14 36.0	1.4			
			eS	08 16 50.0	2.1			
SNY	14.7	351	−iP	08 15 06.0	1.0			
			PMZ	m_b = 5.6		1.1	0.27	
			PMZ	m_B = 5.4		8.0	1.13	
			sP	08 15 55.0	0.1			
			S	08 17 48.0	5.6			
			SME			13.0	0.83	
BJI	15.3	328	eP	08 15 14.5	1.5			
			PMZ	m_b = 5.1		1.0	0.085	
			esP	08 16 04.0	0.6			
			eS	08 17 58.0	0.5			
TIY	15.8	315	−iP	08 15 20.0	1.6			
			PMZ	m_b = 5.7		1.0	0.32	
CN2	16.5	357	−iP	08 15 27.5	0.6			
			PMZ	m_b = 5.5		1.0	0.20	
			sP	08 16 18.5	0.3			
			eS	08 18 23.0	−0.1			
			SME			13.0	0.80	
			PcP	08 20 07.5	0.6			
			ScP	08 23 24.0	2.4			
			ScS	08 27 02.0	2.2			
XAN	16.6	298	−iP	08 15 27.5	−0.5			
			PMZ	m_b = 5.7		0.8	0.24	
			S	08 18 24.5	−0.1			
MDJ	17.4	7	eP	08 15 36.7	−1.2			
GYA	17.8	272	P	08 15 41.4	−0.2			
			S	08 18 49.0	−1.1			
			ScP	08 23 27.6	3.4			

			ScS	08 27 06.0	2.6		
HHC	18.3	321	P	08 15 47.0	−0.3		
			sP	08 16 43.0	1.5		
			SMN	$m_B = 5.2$		6.0	0.50
			SME			5.0	0.42
BTO	19.0	318	P	08 15 54.5	−0.3		
CD2	20.2	286	P	08 16 05.2	−1.8		
LZH	21.2	300	−iP	08 16 16.0	−0.5		
			PMZ	$m_b = 5.3$		1.5	0.15
			PP	08 16 50.0	0.8		
KMI	21.5	270	+P	08 16 20.0	0.6		
GTA	25.3	305	−iP	08 16 54.0	−1.7		
			PMZ	$m_b = 5.5$		0.8	0.10
			PcP	08 20 25.0	1.4		
			PcS	08 24 03.6	1.1		
WMQ	35.2	308	−P	08 18 22.0	−1.5		
			PMZ	$m_b = 5.4$		1.0	0.10
			PP	08 19 46.5	−0.5		
			PcP	08 20 50.0	0.5		
			eS	08 23 38.5	−4.0		
			ScP	08 24 12.5	−2.7		
			ScS	08 28 19.0	0.4		
KSH	43.4	300	eP	08 19 31.5	0.3		
			pP	08 20 11.5	−1.1		
			eS	08 25 45.0	0.3		

OCT 5d 08h 35m 12.6 ± 0.08s, SD4.28 / 7
29.83 N ± 0.62km, 99.12 E ± 1.40km, h5 ± 0.89km
Tibet (306)
M_L3.3 / 3,

GYA	7.5	115	Pn	08 37 06.0	3.5		

OCT 5d 14h 47m 07.8 ± 0.12s, SD1.80 / 40
29.29 N ± 2.46km, 67.27 E ± 1.81km, h30 ± 0.35km
Pakistan (710)
M_S4.8 / 12, m_b4.8 / 4,

KSH	12.4	33	eP	14 50 03.0	−3.2		
			S	14 52 20.0	−4.4		
			LE	$M_S = 4.9$		8.0	3.00
LSA	20.8	83	P	14 51 49.2	−0.6		
			pP	14 51 57.0	−0.4		
			sS	14 55 52.0	4.3		
			LN	$M_S = 4.7$		8.0	0.85
WMQ	21.8	43	eP	14 52 00.0	0.1		
			PMZ	$m_b = 4.9$		1.5	0.090
			eS	14 55 52.5	−2.2		
			PcP	14 56 01.5	2.2		
			sS	14 56 06.0	−1.8		
			LN	$M_S = 4.4$		10.0	0.46
			LZ	$M_S = 4.2$		16.0	0.67
GTA	28.6	61	eP	14 53 04.7	0.8		
			LN	$M_S = 4.5$		11.5	0.49
			LZ	$M_S = 4.1$		14.0	0.29
GYA	34.8	85	eP	14 54 01.0	2.3		
BTO	36.5	60	eP	14 54 15.4	2.6		
TIY	38.3	65	eP	14 54 28.8	0.9		
			S	15 00 21.0	2.0		
			ScP	15 00 24.0	−1.7		
			LN	$M_S = 4.7$		11.0	0.46
			LZ	$M_S = 4.7$		15.0	0.83
WHN	40.6	76	eP	14 54 44.5	−2.5		
BJI	41.2	61	eP	14 54 52.0	0.2		
TIA	42.1	67	eP	14 55 01.2	1.7		
SSE	46.3	74	eP	14 55 32.0	−0.8		
			LE	$M_S = 5.0$		8.0	0.43
			LZ	$M_S = 4.7$		13.0	0.63

OCT 5d 18h 09m 26.3 ± 0.16s, SD1.81 / 31
9.52 S ± 1.84km, 119.11 E ± 3.23km, h87 ± 0.44km
South of Sumbawa (291)
m_b4.8 / 2,

WHN	40.1	354	eP	18 16 51.5	−3.6		
NJ2	41.3	360	−P	18 17 06.5	1.2		
CD2	42.8	340	P	18 17 17.4	−0.1		
XAN	44.4	348	P	18 17 30.0	−0.2		
TIY	47.4	353	eP	18 17 53.8	−0.3		
BJI	49.4	357	eP	18 18 08.5	−0.9		
GTA	51.9	341	eP	18 18 28.4	−0.1		
WMQ	60.3	334	eP	18 19 27.5	−0.9		

OCT 5d 23h 09m 20.2 ± 0.21s, SD1.18 / 53
25.61 S ± 4.36km, 179.50 E ± 2.87km, h509 ± 0.80km
South of Fiji (171)
m_b4.8 / 10,

SSE	79.3	312	P	23 20 33.2	−1.0		
			PMZ	$m_b = 4.3$		1.0	0.012
NJ2	81.4	312	−P	23 20 45.2	−0.2		
MDJ	83.4	327	−P	23 20 55.7	0.3		
WHN	83.7	308	eP	23 20 56.7	0.0		
SNY	84.7	322	+iP	23 21 01.8	0.2		
CN2	85.0	324	−iP	23 21 03.0	−0.1		
			PMZ	$m_b = 4.7$		2.0	0.050
TIA	85.1	314	−P	23 21 03.9	0.4		
GYA	87.2	301	P	23 21 14.0	0.1		
BJI	88.0	317	eP	23 21 17.0	−0.2		
TIY	89.0	313	−P	23 21 23.2	0.9		
			PMZ	$m_b = 5.3$		1.0	0.060
			S	23 31 28.0	3.0		
XAN	89.4	308	P	23 21 24.7	0.5		
KMI	89.7	298	−P	23 21 26.0	0.6		
HHC	91.3	315	P	23 21 33.6	0.7		
CD2	91.6	304	+iP	23 21 35.8	1.5		
BTO	92.2	314	eP	23 21 35.8	−1.0		
GTA	98.4	310	eP	23 22 05.2	−0.1		

OCT 5d 23h 54m 58.8 ± 0.06s, SD1.93 / 21
38.21 N ± 0.60km, 119.41 E ± 0.77km, h12 ± 0.12km
North−Eastern China (658)
M_L3.6 / 19,

DL2	1.9	67	ePn	23 55 31.7	0.6		
			Pg	23 55 34.7	2.7		
			Sg	23 55 59.0	1.3		
			SMN	$M_L = 4.0$		0.4	1.51
			SME			0.4	1.33
TIA	2.7	223	Pn	23 55 41.5	−1.0		
			Pg	23 55 47.6	1.1		
			Sg	23 56 22.4	−1.0		
			SMN	$M_L = 3.6$		0.5	0.21
			SME			0.5	0.43
BJI	3.1	307	Pn	23 55 48.0	−0.1		
			Pg	23 55 52.0	−1.7		
			Sn	23 56 23.0	−4.1		
			Sg	23 56 37.0	0.8		
			SMN	$M_L = 3.5$		0.5	0.22
			SME			0.5	0.12
SNY	4.8	40	ePn	23 56 13.0	1.3		
			Pg	23 56 30.7	6.6		
			Sg	23 57 31.4	1.2		
			SMN	$M_L = 3.7$		0.8	0.10
			SME			1.0	0.098
TIY	5.5	267	ePn	23 56 26.9	5.4		
			SMN	$M_L = 3.6$		0.6	0.040
			SME			0.7	0.060
SSE	7.2	168	ePn	23 56 47.5	2.6		
			SME	$M_L = 3.5$		1.0	0.019
WHN	8.7	210	eP	23 57 09.0	1.2		

		SMN	$M_L=4.1$		0.6	0.030
		SME			0.6	0.040

OCT 6d 03h 40m 43.2±0.09s, SD2.04/31
36.90 N±2.36km, 141.61 E±1.86km, h47±1.75km
Near east coast of Honshu (228)
M_S4.3/2,

MDJ	11.9	314	eP	03 43 38.5	4.9		
CN2	14.1	304	eP	03 43 59.6	−2.8		
TIA	19.7	275	eP	03 45 16.0	4.6		
BJI	20.1	287	eP	03 45 16.5	0.1		
TIY	23.2	281	eP	03 45 48.5	1.5		
			LE	$M_S=4.3$		13.0	0.41
			LZ	$M_S=4.0$		24.0	0.54
WHN	23.5	262	eP	03 45 50.5	0.6		
LZH	30.2	280	eP	03 46 51.9	−0.5		
GYA	31.4	261	P	03 47 01.0	−1.2		
			pP	03 47 10.0	−3.6		
GTA	32.8	287	eP	03 47 13.1	−1.3		
WMQ	41.0	297	eP	03 48 25.7	1.5		

OCT 6d 23h 07m 11.3±0.06s, SD1.23/45
43.99 N±1.78km, 148.32 E±1.30km, h42±0.44km
Kurile Islands (221)
m_b5.0/2,

BJI	24.1	272	eP	23 12 24.5	−0.1		
TIA	25.0	263	eP	23 12 32.9	−0.1		
NJ2	26.0	253	+P	23 12 43.4	1.4		
TIY	27.7	269	eP	23 12 58.5	0.3		
BTO	28.4	277	eP	23 13 04.6	0.4		
WHN	30.0	255	eP	23 13 16.5	−1.7		
LZH	34.6	272	eP	23 13 59.0	−0.1		
			PMZ	$m_b=5.1$		1.5	0.045
GTA	36.1	280	eP	23 14 11.1	−0.6		
GYA	37.8	256	P	23 14 25.4	−0.6		
WMQ	42.8	292	P	23 15 06.5	−0.7		
			eS	23 21 29.8	1.7		
			LZ	$M_S=4.5$		16.0	0.47
KSH	52.6	292	eP	23 16 23.5	−0.3		

OCT 7d 00h 01m 25.8±0.08s, SD1.09/32
3.16 N±0.92km, 127.63 E±1.26km, h92±0.65km
Molucca Passage (266)
m_b4.5/2,

QZN	23.5	313	eP	00 06 28.1	0.0		
WHN	30.0	337	eP	00 07 28.5	0.4		
XAN	35.3	333	P	00 08 14.4	0.0		
CD2	35.6	323	P	00 08 16.7	−0.3		
BJI	38.1	346	eP	00 08 38.0	0.0		
			PMZ	$m_b=4.7$		1.0	0.013
GTA	44.0	329	eP	00 09 26.6	−0.1		
WMQ	53.7	325	P	00 10 41.6	0.6		
KSH	59.1	315	eP	00 11 20.4	0.8		
			eS	00 19 23.5	5.1		

OCT 7d 01h 25m 02.9±0.09s, SD1.66/42
78.74 N±1.38km, 4.16 E±1.70km, h9±0.11km
Greenland Sea (640)
M_S5.2/6, m_B5.6/1,

WMQ	46.2	86	eP	01 33 29.0	−1.5		
			eS	01 40 13.0	−3.5		
			LN	$M_S=5.2$		10.0	0.82
			LZ	$M_S=5.0$		17.0	1.34
GTA	52.8	76	eP	01 34 20.5	−0.8		
CN2	53.0	51	eP	01 34 25.6	3.0		
			PMZ	$m_B=5.6$		5.0	0.40
			eS	01 41 52.6	1.7		
			LN	$M_S=4.7$		10.0	0.20
			LZ	$M_S=4.8$		15.0	0.70
BJI	55.1	60	eP	01 34 39.0	0.5		
			LE	$M_S=5.6$		16.0	2.36
			LZ	$M_S=5.2$		16.0	1.75
TIY	56.7	64	eP	01 34 48.4	−1.8		
			LE	$M_S=5.5$		18.0	2.27
			LZ	$M_S=5.1$		21.0	1.53
XAN	59.7	68	P	01 35 10.6	−0.2		
WHN	64.1	64	eP	01 35 44.5	4.4		
GYA	66.7	72	P	01 35 56.8	−0.1		

OCT 7d 03h 15m 17.2±0.33s, SD3.55/17
33.57 N±2.29km, 94.84 E±3.10km, h15±0.03km
Qinghai Province (325)
M_S3.7/1, M_L4.6/1,

LSA	5,0	220	Pn	03 16 37.9	5.5		
			LN	$M_S=3.7$		7.0	0.79
GTA	7.1	33	−Pn	03 17 01.8	0.8		
WMQ	11.6	334	P	03 18 06.0	−0.4		
GYA	12.4	122	P	03 18 14.4	−2.9		
TIY	14.9	69	−P	03 18 53.0	3.5		
CN2	25.9	58	−P	03 20 47.7	−2.8		

OCT 7d 06h 55m 41.3±0.08s, SD1.14/95
20.11 S±1.70km, 169.16 E±1.66km, h47±1.16km
Loyalty Islands (188)
M_S5.8/29, m_B6.1/20, m_b5.4/18,

QZH	66.5	310	eP	07 06 29.0	0.1		
			S	07 15 15.0	1.7		
			SS	07 19 32.0	−0.5		
			LZ	$M_S=5.4$		35.0	4.43
SSE	68.6	317	−P	07 06 42.5	0.2		
			PMZ	$m_b=5.3$		1.1	0.044
			pP	07 06 57.0	2.2		
			S	07 15 38.0	−0.9		
			sS	07 16 02.0	0.5		
			ScS	07 16 34.0	0.6		
			LN	$M_S=5.7$		16.0	1.30
			LE			16.0	2.00
			LZ	$M_S=5.5$		20.0	2.80
QZN	69.9	300	eP	07 06 54.0	3.7		
			eS	07 16 00.0	4.4		
			LE	$M_S=5.5$		12.5	1.05
NJ2	70.8	316	+P	07 06 56.0	0.6		
			S	07 16 08.0	4.1		
			SMN			14.0	4.80
			SME			10.0	1.10
			LZ	$M_S=5.6$		22.0	3.78
WHN	72.9	312	eP	07 07 08.5	0.6		
			PMZ	$m_b=5.5$		1.0	0.070
			pP	07 07 22.0	1.7		
			sP	07 07 26.5	1.0		
			S	07 16 30.0	1.9		
			LN	$M_S=6.0$		20.0	4.72
			LZ	$M_S=5.5$		22.0	3.26
DL2	73.7	323	eP	07 07 12.0	−0.5		
			PMZ			3.0	0.73
			pP	07 07 28.0	3.1		
			eS	07 16 38.0	−0.3		
			SMN	$m_B=6.1$		8.0	1.30
			SME			11.0	1.21
			sS	07 17 00.0	0.4		
			LE	$M_S=5.7$		16.0	1.90
			LZ	$M_S=5.6$		26.0	4.33
MDJ	73.8	332	eP	07 07 13.5	−0.1		
			pP	07 07 25.0	−1.0		
			S	07 16 40.0	1.1		
			LN	$M_S=6.1$		22.0	6.43

			LZ		$M_S=5.7$		25.0	4.74
TIA	74.5	319	+P	07 07 16.6		−1.1		
			eS	07 16 49.0		0.7		
			LN		$M_S=5.9$		19.5	2.39
			LE				19.5	2.97
SNY	74.7	326	+iP	07 07 18.0		−0.3		
			PMZ		$m_B=6.0$		5.0	0.91
			pP	07 07 29.5		−1.2		
			iS	07 16 50.0		0.4		
			SMN		$m_B=6.3$		10.0	2.11
			SME				9.0	1.48
			sS	07 17 12.0		1.2		
			LZ		$M_S=5.4$		20.0	2.05
CN2	75.2	329	+P	07 07 20.8		−0.4		
			PMZ		$m_B=6.1$		4.0	1.00
			pP	07 07 32.0		−1.6		
			sP	07 07 37.0		−1.7		
			PP	07 10 15.0		4.2		
			eS	07 16 56.0		0.9		
			SMN		$m_B=6.2$		6.0	1.20
			sS	07 17 16.0		−0.3		
			LN		$M_S=5.6$		17.0	1.70
			LZ		$M_S=5.7$		18.0	4.00
GYA	76.2	305	−P	07 07 29.0		1.4		
			pP	07 07 41.6		1.8		
			S	07 17 08.0		2.4		
			SKS	07 17 26.0		−2.0		
			SS	07 22 02.0		−1.0		
			LZ		$M_S=5.3$		24.0	1.90
BJI	77.6	321	eP	07 07 34.0		−0.8		
			PMZ		$m_b=5.4$		1.0	0.052
			PMZ		$m_B=5.9$		5.0	0.81
			epP	07 07 46.0		−1.2		
			eS	07 17 23.0		1.6		
			eSKS	07 17 40.0		2.5		
			eSS	07 22 24.0		1.5		
			LN		$M_S=5.7$		20.0	2.53
			LZ		$M_S=5.7$		20.0	4.19
TIY	78.4	317	+P	07 07 39.5		−0.1		
			PMZ		$m_b=5.4$		1.0	0.050
			pP	07 07 52.0		0.0		
			S	07 17 34.0		5.0		
			LE		$M_S=6.0$		24.0	4.95
			LZ		$M_S=5.7$		24.0	4.49
XAN	78.6	313	P	07 07 40.6		−0.2		
			PMZ		$m_b=5.4$		1.0	0.050
			pP	07 07 52.0		−1.2		
			S	07 17 32.0		0.7		
KMI	78.7	302	+P	07 07 41.5		0.4		
			PMZ		$m_B=6.0$		5.0	1.00
			pP	07 07 54.0		0.6		
			PP	07 10 39.0		−0.8		
			S	07 17 37.0		5.4		
			LN		$M_S=5.8$		18.0	2.40
			LZ		$M_S=5.8$		20.0	4.70
CD2	80.7	308	eP	07 07 52.5		0.6		
			sP	07 08 10.0		0.6		
			S	07 17 56.0		3.1		
			LZ		$M_S=5.4$		34.0	2.88
HHC	80.8	320	P	07 07 52.6		−0.1		
			S	07 17 59.0		4.8		
			SMN		$m_B=6.4$		8.0	1.30
			SME				10.0	2.30
			LZ		$M_S=5.8$		24.0	4.79
BTO	81.6	319	P	07 07 57.0		0.1		
			pP	07 08 10.0		0.8		
			S	07 18 04.5		1.9		
			LN		$M_S=6.0$		20.0	3.60
			LE				20.0	2.70
LZH	83.2	312	+P	07 08 05.8		0.5		
			PMZ		$m_B=6.2$		5.0	1.46
			pP	07 08 17.5		−0.1		
			sP	07 08 22.0		−0.7		
			S	07 18 25.0		6.1		
			SME		$m_B=6.2$		9.0	1.88
			sS	07 18 42.0		−0.1		
			eSS	07 23 50.0		2.3		
			LE		$M_S=5.7$		20.0	2.26
			LZ				3.6	5.17
GTA	87.7	313	+P	07 08 27.5		0.5		
			SKS	07 18 48.0		1.0		
			LN		$M_S=5.7$		18.0	1.68
			LZ		$M_S=5.5$		24.0	2.08
LSA	89.9	302	P	07 08 39.3		1.2		
			SKS	07 19 06.0		5.1		
			S	07 19 27.0		4.3		
			SME		$m_B=5.8$		7.0	0.64
WMQ	97.7	314	P	07 09 13.4		−0.1		
			PMZ		$m_B=6.6$		4.0	0.61
			SKS	07 19 46.0		1.4		
			LE		$M_S=6.2$		25.0	5.68
			LZ		$M_S=6.0$		24.0	5.61
KSH	104.9	307	eP	07 09 46.0		0.3		
			PP	07 14 05.0		−2.8		
			SKS	07 20 20.0		1.3		
			LE		$M_S=6.0$		16.0	2.10

OCT 7d 13h 21m 05.3 ± 0.09s, SD1.09 / 68
12.19 N ± 1.69km, 125.66 E ± 1.58km, h57 ± 0.39km
Samar (251)
M_S5.0 / 17, m_B5.2 / 1, m_b4.9 / 9,

QZN	16.7	296	eP	13 24 55.7		−1.2		
			S	13 27 56.0		−2.0		
			LE		$M_S=4.9$		18.0	4.50
SSE	19.3	348	+P	13 25 29.0		0.9		
			PMZ		$m_b=4.9$		1.1	0.069
			pP	13 25 42.5		3.2		
			S	13 29 02.0		5.9		
			LE		$M_S=4.7$		14.0	1.70
			LZ		$M_S=4.5$		20.0	1.90
NJ2	20.7	343	+P	13 25 43.6		−0.2		
			LZ		$M_S=4.4$		22.0	1.70
WHN	21.1	332	+P	13 25 48.0		1.0		
			PMZ		$m_b=4.7$		1.0	0.040
			pP	13 26 02.6		2.9		
GYA	22.8	311	P	13 26 04.8		0.1		
			pP	13 26 22.0		4.5		
			S	13 30 05.0		0.7		
			LN		$M_S=5.3$		16.0	4.30
			LE				16.0	4.40
			LZ		$M_S=4.8$		20.0	3.30
TIA	25.1	344	P	13 26 26.4		−0.5		
KMI	25.2	304	+P	13 26 27.5		−0.2		
			LZ		$M_S=5.1$		18.0	5.20
XAN	26.6	328	−P	13 26 39.8		−0.5		
DL2	26.8	353	eP	13 26 42.0		−0.8		
			eS	13 31 13.0		0.1		
			sS	13 31 40.0		3.9		
			LE		$M_S=4.6$		12.0	0.67
			LZ		$M_S=4.3$		20.0	0.90
CD2	27.5	316	−iP	13 26 48.5		−0.5		
			LZ		$M_S=5.0$		18.0	3.20
TIY	28.0	337	+P	13 26 53.5		−0.3		
			eS	13 31 35.0		2.7		
			LN		$M_S=4.9$		15.0	1.37
			LZ		$M_S=4.4$		24.0	1.09

BJI	29.0	345	eP	13 27 01.0	−1.0			
			PMZ	$m_b = 4.6$		1.0	0.013	
			eS	13 31 46.0	−1.1			
			LZ	$M_S = 4.4$		20.0	0.90	
SNY	29.6	357	+P	13 27 07.3	−0.1			
			S	13 31 54.0	−2.0			
			LZ	$M_S = 4.5$		20.0	1.21	
LZH	30.9	324	P	13 27 17.8	−1.3			
			PMZ	$m_b = 5.1$		1.5	0.053	
			LN	$M_S = 5.3$		15.0	2.35	
			LE			15.0	1.97	
			LZ	$M_S = 5.2$		16.0	4.28	
HHC	31.1	339	P	13 27 21.8	0.6			
BTO	31.5	337	eP	13 27 22.5	−1.8			
			sP	13 27 48.0	4.2			
			eS	13 32 21.0	−5.7			
			LN	$M_S = 5.0$		12.0	1.00	
			LE			12.0	0.80	
CN2	31.5	360	eP	13 27 24.0	−0.4			
MDJ	32.5	5	eP	13 27 33.5	0.4			
GTA	35.5	324	eP	13 27 59.0	0.1			
			LE	$M_S = 5.0$		12.0	0.91	
			LZ	$M_S = 4.7$		16.0	1.17	
LSA	36.4	304	P	13 28 09.0	1.5			
			LN	$M_S = 5.4$		6.0	0.90	
			LE			5.0	0.70	
WMQ	45.3	321	P	13 29 20.5	0.3			
			eS	13 36 00.0	4.0			
			LN	$M_S = 5.5$		16.0	1.83	
			LE			16.0	2.00	
			LZ	$M_S = 5.1$		16.0	2.03	
KSH	51.6	311	eP	13 30 09.0	0.6			
			eS	13 37 24.0	0.7			
			LE	$M_S = 5.5$		14.0	2.00	

OCT 7d 15h 48m 27.8 ± 0.07s, SD0.92 / 115
51.39 N ± 1.89km, 179.07 W ± 1.05km, h18 ± 0.09km
Andreanof Islands (7)
M_S6.8 / 49, m_B6.8 / 30, m_b6.3 / 20,

MDJ	34.4	279	eP	15 55 15.5	−1.1			
			pP	15 55 22.5	−0.9			
			PP	15 56 32.0	0.5			
			S	16 00 45.0	3.0			
			LN	$M_S = 6.6$		16.0	57.6	
CN2	37.4	281	+iP	15 55 41.0	−0.8			
			PMZ	$m_B = 6.8$		8.0	12.2	
			epP	15 55 51.0	2.4			
			PP	15 57 10.0	0.8			
			PcP	15 58 04.8	4.5			
			eS	16 01 26.0	−2.8			
			SMN	$m_B = 6.5$		10.0	7.10	
			SME			10.0	5.00	
			ScS	16 05 55.8	3.8			
			LN	$M_S = 6.6$		16.0	42.9	
			LE			21.0	48.0	
			LZ	$M_S = 6.5$		19.0	79.5	
SNY	39.6	279	+iP	15 56 01.0	0.6			
			PMZ	$m_b = 6.8$		1.4	2.28	
			pP	15 56 11.0	3.8			
			PP	15 57 35.0	−0.2			
			iS	16 02 02.0	−0.5			
			SMN			24.0	258	
			SME			22.0	196	
			LZ	$M_S = 6.4$		30.0	82.8	
DL2	42.5	277	+iP	15 56 24.0	−0.4			
			PMZ	$m_B = 6.7$		10.0	11.6	
			PP	15 58 04.0	−1.5			
			S	16 02 45.0	0.2			
			LN	$M_S = 6.8$		16.0	55.0	
			LE			16.0	23.4	
			LZ	$M_S = 6.3$		24.0	50.3	
BJI	45.2	282	eP	15 56 46.5	0.4			
			PMZ	$m_b = 6.3$		1.4	0.69	
			PMZ	$m_B = 6.9$		9.0	15.6	
			PP	15 58 34.0	2.0			
			eS	16 03 20.0	−4.8			
			eScS	16 06 40.0	1.2			
			LE	$M_S = 6.9$		19.0	77.5	
TIA	47.0	277	P	15 57 00.6	0.3			
			PMZ	$m_B = 6.5$		12.0	9.20	
			PP	15 58 50.0	0.2			
			S	16 03 48.0	−1.3			
			LE	$M_S = 6.7$		18.0	48.9	
			LZ	$M_S = 6.5$		36.0	87.4	
HHC	47.5	286	+P	15 57 05.5	0.9			
			PMZ	$m_B = 6.5$		6.0	3.93	
			S	16 03 57.0	0.2			
			LN	$M_S = 7.2$		18.0	65.7	
			LE			19.0	134	
			LZ	$M_S = 7.0$		22.0	180	
SSE	47.8	269	+iP	15 57 06.5	−0.3			
			PMZ	$m_b = 6.6$		1.5	1.28	
			PMZ	$m_B = 6.9$		8.0	15.5	
			sP	15 57 21.0	4.2			
			PcP	15 58 38.0	2.9			
			PP	15 59 01.0	3.8			
			S	16 04 04.0	2.9			
			sS	16 04 16.0	2.3			
			ScS	16 06 56.0	0.2			
			LN	$M_S = 6.5$		14.0	20.6	
			LE			14.0	10.0	
			LZ	$M_S = 6.5$		20.0	51.4	
BTO	48.6	286	+iP	15 57 14.0	1.0			
			PMZ	$m_B = 6.7$		4.0	4.30	
			pP	15 57 23.0	3.3			
			PP	15 59 07.0	2.1			
			S	16 04 12.0	−0.1			
			sS	16 04 30.0	5.4			
			LN	$M_S = 7.2$		16.0	90.5	
			LE			18.0	114	
NJ2	48.6	272	+P	15 57 12.5	−0.6			
			PMZ	$m_B = 6.8$		7.5	10.9	
			PP	15 59 07.0	1.8			
			iS	16 04 11.5	−2.1			
			LN	$M_S = 6.6$		17.0	5.19	
			LE			19.0	40.1	
			LZ	$M_S = 6.6$		14.0	42.7	
TIY	48.9	282	eP	15 57 16.4	0.9			
			PMZ	$m_B = 6.8$		10.0	13.4	
			PP	15 59 13.5	5.3			
			S	16 04 19.0	2.3			
			LN	$M_S = 7.0$		22.0	118	
			LZ	$M_S = 6.7$		20.0	85.6	
WHN	52.5	274	eP	15 57 41.6	−0.8			
			PMZ	$m_B = 6.9$		8.0	13.2	
			pP	15 57 53.0	3.7			
			S	16 05 04.0	−1.7			
			LN	$M_S = 6.8$		20.0	51.9	
			LE			17.0	27.7	
			LZ	$M_S = 6.4$		28.0	49.7	
XAN	53.5	281	P	15 57 49.6	−0.4			
			PMZ	$m_B = 6.7$		8.0	8.51	
			S	16 05 21.0	1.6			
			LN	$M_S = 7.1$		22.0	92.5	
			LE			22.0	71.8	
QZH	53.8	265	+iP	15 57 51.5	−0.5			

			PMZ		$m_B = 6.3$		5.0	2.33
			PcP	15 58 57.0		0.0		
			PP	15 59 54.0		0.3		
			eS	16 05 22.0		−2.4		
			LN		$M_S = 6.3$		19.0	16.7
			LZ		$M_S = 6.5$		23.0	45.6
LZH	55.2	286	+iP	15 58 03.0		0.2		
			PMZ		$m_B = 6.7$		4.0	4.03
			pP	15 58 08.0		−1.5		
			PP	16 00 06.0		−0.7		
			PcS	16 03 03.0		2.0		
			eS	16 05 42.0		−2.1		
			LN		$M_S = 7.2$		19.0	135
			LZ		$M_S = 6.7$		40.0	123
GTA	55.4	292	+iP	15 58 03.0		−1.1		
			PMZ		$m_B = 6.8$		10.0	13.0
			sP	15 58 18.0		4.1		
			PP	16 00 09.0		0.6		
			S	16 05 46.5		1.4		
			LN		$M_S = 7.1$		17.0	82.4
			LZ		$M_S = 6.8$		18.0	68.9
GZH	58.4	268	+P	15 58 24.7		−0.6		
			PMZ				21.0	27.1
			LN		$M_S = 6.9$		20.0	60.5
			LZ		$M_S = 6.4$		22.0	31.2
CD2	58.8	282	eP	15 58 27.2		−0.9		
			PMZ				16.0	12.5
			PP	16 00 41.0		2.0		
			S	16 06 24.0		−6.0		
			LE		$M_S = 6.9$		20.0	58.8
			LZ		$M_S = 6.6$		30.0	63.9
WMQ	59.2	303	P	15 58 30.5		−0.4		
			S	16 06 36.0		0.9		
			LN		$M_S = 7.2$		18.0	62.4
			LE				17.0	69.5
			LZ		$M_S = 6.8$		28.0	116
GYA	60.2	276	−P	15 58 36.8		−0.7		
			PMZ		$m_B = 6.6$		5.0	3.60
			sP	15 58 50.8		3.5		
			PP	16 00 54.0		2.8		
			S	16 06 46.0		−1.4		
			LN		$M_S = 6.9$		20.0	34.2
			LE				20.0	44.0
			LZ		$M_S = 6.4$		20.0	30.0
KMI	63.6	278	+iP	15 59 00.0		−0.5		
			PMZ		$m_B = 6.2$		7.0	2.20
			pP	15 59 09.5		2.3		
			sP	15 59 15.5		5.3		
			PP	16 01 23.0		2.2		
			S	16 07 24.0		−6.5		
			LN		$M_S = 6.8$		20.0	43.7
			LZ		$M_S = 7.1$		25.0	156
QZN	63.6	268	+P	15 59 01.5		1.0		
			PMZ		$m_B = 6.8$		10.0	11.8
			PP	16 01 25.0		3.9		
			iS	16 07 35.0		2.8		
			ScS	16 08 50.0		1.8		
			LE		$M_S = 6.7$		18.5	29.3
LSA	67.3	289	P	15 59 27.0		2.4		
			S	16 08 22.0		6.0		
			SMN		$m_B = 6.6$		9.0	6.04
			LN		$M_S = 6.8$		20.0	31.9
			LE				17.0	21.7
			LZ		$M_S = 6.9$		18.0	70.0
KSH	68.4	307	+iP	15 59 32.0		0.7		
			pP	15 59 42.0		4.0		
			PP	16 02 06.0		2.8		
			iS	16 08 30.0		−0.8		
			LE		$M_S = 7.4$		16.0	128
			LZ		$M_S = 6.8$		24.0	63.0

OCT 7d 16h 42m 29.8 ± 0.08s, SD0.90 / 94
51.29 N ± 2.24km, 179.30 W ± 1.08km, h32 ± 0.08km
Andreanof Islands (7)
M_S6.4 / 7, m_B6.0 / 1, m_b5.5 / 17,

MDJ	34.3	279	eP	16 49 14.5		−1.0		
			S	16 54 44.5		5.6		
CN2	37.3	281	eP	16 49 40.0		−0.8		
DL2	42.4	277	eP	16 50 24.0		0.7		
			PMZ		$m_b = 5.1$		1.0	0.030
BJI	45.1	282	eP	16 50 45.5		0.4		
			PMZ		$m_b = 5.4$		1.0	0.053
			ePcP	16 52 27.0		1.7		
			eScP	16 56 15.0		1.1		
			LZ		$M_S = 6.1$		20.0	21.6
TIA	46.9	277	eP	16 50 58.9		−0.3		
HHC	47.4	286	P	16 51 04.8		1.2		
SSE	47.7	269	P	16 51 05.4		−0.2		
			PMZ		$m_b = 5.5$		1.1	0.069
			sP	16 51 20.0		1.2		
BTO	48.5	286	+iP	16 51 13.5		1.4		
			sP	16 51 28.0		2.9		
			PP	16 53 06.5		2.7		
			S	16 58 13.0		3.8		
			LN		$M_S = 6.4$		15.0	14.0
			LE				15.0	12.0
NJ2	48.5	272	+P	16 51 11.4		−0.6		
TIY	48.8	282	+iP	16 51 15.6		1.0		
			S	16 58 17.0		3.3		
			LZ		$M_S = 6.1$		22.0	23.0
WHN	52.4	273	eP	16 51 41.5		0.2		
			PMZ		$m_b = 5.7$		1.5	0.15
			pP	16 51 53.0		2.4		
			S	16 59 04.0		1.5		
			LZ		$M_S = 5.7$		20.0	6.90
XAN	53.4	281	+P	16 51 48.3		−0.7		
QZH	53.6	265	eP	16 51 52.5		1.7		
			LZ		$M_S = 5.8$		22.0	8.68
LZH	55.1	286	+iP	16 52 02.2		0.3		
			PMZ		$m_b = 5.8$		2.0	0.27
			pP	16 52 09.8		−1.3		
			eS	16 59 42.0		0.7		
			LE		$M_S = 6.4$		16.0	15.2
			LZ		$M_S = 6.3$		22.0	29.1
GTA	55.3	292	+iP	16 52 03.3		0.0		
			LZ		$M_S = 5.8$		24.0	8.97
CD2	58.7	281	P	16 52 26.5		−0.7		
WMQ	59.1	303	P	16 52 30.5		0.2		
			PcS	16 57 19.5		1.4		
			S	17 00 37.5		4.7		
			SMN				2.5	0.090
			SME				3.0	0.20
			ScS	17 02 18.0		4.8		
			LN		$M_S = 6.5$		20.0	23.6
			LZ		$M_S = 6.6$		22.0	52.2
GYA	60.0	276	+P	16 52 35.8		−0.7		
			pP	16 52 46.2		0.5		
			S	17 00 46.0		1.7		
KMI	63.4	278	+P	16 52 59.0		−0.5		
QZN	63.4	268	eP	16 53 00.2		0.8		
LSA	67.2	289	P	16 53 26.0		2.2		
KSH	68.3	306	eP	16 53 32.3		1.6		

OCT 7d 16h 49m 47.7 ± 0.11s, SD0.80 / 22
51.48 N ± 2.25km, 179.31 W ± 0.68km, h36 ± 0.17km
Andreanof Islands (7)

BJI	45.0	282	eP	16 58 01.5	−0.7		
WMQ	59.0	303	P	16 59 44.5	−2.5		

OCT 7d 16h 53m 58.7 ± 0.14s, SD1.00 / 47
51.17 N ± 3.40km, 179.25 W ± 1.45km, h33 ± 0.01km
Andreanof Islands (7)
m_b4.8 / 6,

MDJ	34.3	279	eP	17 00 43.5	−1.2		
CN2	37.3	281	eP	17 01 09.6	−0.4		
SNY	39.5	279	+P	17 01 29.5	1.0		
BJI	45.1	282	eP	17 02 15.0	0.6		
			PMZ	m_b = 4.8		1.0	0.013
BTO	48.6	286	eP	17 02 43.0	1.6		
WHN	52.4	274	eP	17 03 10.5	0.1		
LZH	55.2	286	+P	17 03 31.5	0.4		
			PMZ	m_b = 5.2		1.0	0.033
GTA	55.4	292	+iP	17 03 32.8	0.2		
WMQ	59.2	303	eP	17 04 00.0	0.2		
GYA	60.1	276	P	17 04 05.0	−0.6		
KSH	68.4	306	eP	17 05 01.8	1.7		

OCT 7d 17h 04m 16.7 ± 0.14s, SD1.05 / 36
51.15 N ± 2.90km, 179.36 W ± 1.39km, h33 ± 0.04km
Andreanof Islands (7)

MDJ	34.3	279	eP	17 11 02.0	−0.2		
CN2	37.2	281	eP	17 11 27.4	−0.1		
BJI	45.1	282	eP	17 12 33.0	1.1		
GTA	55.3	292	+iP	17 13 51.0	0.7		
WMQ	59.2	303	P	17 14 18.0	0.5		

OCT 7d 17h 19m 11.8 ± 0.08s, SD0.99 / 25
51.17 N ± 2.50km, 179.25 W ± 0.94km, h32 ± 0.20km
Andreanof Islands (7)

BJI	45.1	282	eP	17 27 26.0	−1.6		
	59.2	303	P	17 29 13.0	0.0		

OCT 7d 17h 42m 35.1 ± 0.04s, SD0.83 / 69
51.19 N ± 3.71km, 179.28 W ± 4.38km, h30 ± 2.05km
Andreanof Islands (7)
M_S5.8 / 7, m_B5.9 / 3, m_b5.7 / 15,

MDJ	34.3	279	eP	17 49 20.6	−0.7		
			S	17 54 50.0	5.0		
			LN	M_S = 5.6		16.0	5.10
CN2	37.3	281	eP	17 49 45.6	−1.0		
DL2	42.4	277	eP	17 50 29.0	−0.1		
			PMZ	m_b = 5.5		1.1	0.080
			sP	17 50 45.0	3.3		
BJI	45.1	282	eP	17 50 51.0	0.0		
			PMZ	m_b = 5.7		1.2	0.12
TIA	46.9	277	eP	17 51 04.6	−0.4		
HHC	47.4	286	P	17 51 10.8	1.3		
			LZ	M_S = 5.8		20.0	9.50
SSE	47.7	269	−P	17 51 12.0	0.7		
			PMZ	m_b = 5.8		1.1	0.14
			sP	17 51 27.6	3.7		
			S	17 58 04.0	0.4		
			sS	17 58 20.0	0.6		
			SS	18 01 23.0	−3.4		
			LN	M_S = 5.6		16.0	3.29
			LZ	M_S = 5.4		20.0	4.19
NJ2	48.5	272	−P	17 51 17.3	−0.4		
BTO	48.5	286	P	17 51 19.5	1.5		
TIY	48.8	282	+iP	17 51 21.2	0.8		
			PMZ	m_b = 5.7		1.3	0.15
			PMZ	m_B = 5.9		7.0	1.21
			S	17 58 22.5	2.6		
			LE	M_S = 5.7		17.0	4.03
			LZ	M_S = 5.6		20.0	6.51
WHN	52.4	274	−P	17 51 46.5	−0.5		
			PMZ	m_b = 5.9		1.5	0.25
			sP	17 52 02.0	2.3		
			S	17 59 06.0	−2.5		
			LZ	M_S = 5.2		24.0	2.73
XAN	53.4	281	P	17 51 55.4	0.6		
QZH	53.6	265	eP	17 51 57.0	0.6		
			LZ	M_S = 5.3		21.0	3.05
LZH	55.1	286	eP	17 52 08.0	0.3		
			PMZ	m_b = 6.0		1.5	0.32
			PMZ	m_B = 5.9		7.0	1.14
			sP	17 52 19.7	−0.6		
			LE	M_S = 6.3		16.0	13.9
			LZ	M_S = 5.8		20.0	8.60
WMQ	59.2	303	+iP	17 52 36.0	−0.3		
			S	18 00 43.5	4.1		
			SMN			2.0	0.030
			LN	M_S = 6.1		18.0	7.68
			LZ	M_S = 6.1		20.0	16.0
GYA	60.0	276	P	17 52 41.0	−1.2		
			sP	17 52 57.6	2.8		
			S	18 00 54.8	4.5		
KMI	63.5	278	+P	17 53 04.0	−1.2		
QZN	63.5	268	eP	17 53 05.6	0.6		
LSA	67.2	289	P	17 53 31.4	1.7		
KSH	68.4	306	+iP	17 53 37.0	0.3		
			PMZ	m_B = 6.5		4.0	2.60
			eS	18 02 35.0	−0.3		

OCT 7d 17h 52m 45.8 ± 0.12s, SD1.15 / 86
51.07 N ± 3.16km, 179.22 W ± 1.48km, h33 ± 0.10km
Andreanof Islands (7)
M_S5.8 / 5, m_b5.4 / 15,

MDJ	34.4	280	eP	17 59 31.9	−0.3		
CN2	37.3	281	+P	17 59 58.5	1.0		
SNY	39.6	279	+iP	18 00 17.0	1.1		
			PMZ	m_b = 6.0		1.8	0.45
DL2	42.5	277	eP	18 00 40.0	0.1		
BJI	45.2	282	eP	18 01 02.5	0.7		
			PMZ	m_b = 5.4		1.7	0.096
HHC	47.5	286	P	18 01 21.5	1.0		
NJ2	48.6	272	+P	18 01 28.0	−0.4		
BTO	48.6	287	P	18 01 30.5	1.6		
TIY	48.9	282	+P	18 01 32.2	1.0		
			eS	18 08 34.0	1.8		
WHN	52.4	274	+P	18 01 57.5	−0.2		
			PMZ	m_b = 5.6		1.5	0.12
			sP	18 02 11.5	0.4		
XAN	53.5	281	P	18 02 05.2	−0.4		
LZH	55.2	286	+iP	18 02 19.5	0.9		
			PMZ	m_b = 5.8		2.0	0.24
			LN	M_S = 6.3		16.0	13.0
			LZ	M_S = 5.9		18.0	9.29
GTA	55.4	292	eP	18 02 19.5	−0.7		
			LZ	M_S = 6.2		15.0	16.6
CD2	58.8	282	eP	18 02 39.0	−4.8		
			LZ	M_S = 5.6		20.0	4.60
WMQ	59.3	303	+iP	18 02 47.5	0.1		
			S	18 10 54.5	3.7		
			LN	M_S = 5.7		15.0	2.84
			LZ	M_S = 5.8		21.0	8.48
GYA	60.1	276	P	18 02 52.4	−0.5		
KMI	63.5	278	+P	18 03 15.0	−0.9		
LSA	67.3	289	P	18 03 42.8	2.3		
KSH	68.5	307	+iP	18 03 49.0	1.3		
			eS	18 12 48.0	1.4		
			LN	M_S = 6.2		15.0	6.60

OCT 7d 18h 01m 19.8±0.17s, SD1.17/26
51.20 N±3.17km, 179.32 W±1.10km, h62±0.41km
Andreanof Islands (7)

BJI	45.1	282	eP	18 09 32.5	0.4		
WMQ	59.2	303	P	18 11 17.2	−0.1		

OCT 7d 18h 04m 37.3±0.12s, SD0.81/43
51.14 N±2.62km, 179.21 W±1.03km, h33±0.07km
Andreanof Islands (7)
M_S5.9/1,

MDJ	34.4	280	eP	18 11 22.5	−1.1		
CN2	37.3	281	eP	18 11 48.0	−0.9		
SNY	39.6	279	eP	18 12 07.2	−0.2		
BJI	45.2	282	eP	18 12 53.0	−0.3		
TIA	46.9	277	eP	18 13 06.8	−0.4		
HHC	47.5	286	P	18 13 12.8	0.9		
BTO	48.6	287	eP	18 13 21.2	0.9		
TIY	48.9	282	eP	18 13 23.2	0.5		
WHN	52.4	274	eP	18 13 48.0	−1.2		
GTA	55.4	292	+P	18 14 11.2	−0.3		
WMQ	59.3	303	+iP	18 14 38.5	−0.1		
			sP	18 14 51.2	−0.7		
			eS	18 22 45.0	1.7		
			LZ	M_S=5.7		18.0	5.35
KSH	68.5	307	eP	18 15 40.0	1.0		
			eS	18 24 36.0	−1.7		
			LE	M_S=5.9		14.0	2.90

OCT 7d 18h 50m 39.8±0.08s, SD0.81/86
51.17 N±2.24km, 179.30 W±1.02km, h33±0.03km
Andreanof Islands (7)
M_S5.6/9, m_B6.1/1, m_b5.6/18,

MDJ	34.3	279	eP	18 57 25.0	−0.5		
			S	19 02 55.0	6.0		
			LN	M_S=5.3		16.0	3.00
CN2	37.3	281	eP	18 57 50.0	−0.8		
			LZ			1.8	5.10
SNY	39.5	279	+P	18 58 09.5	0.2		
			PMZ	m_b=5.9		1.4	0.29
DL2	42.4	277	eP	18 58 34.0	0.7		
			PMZ	m_b=5.2		1.0	0.040
			sP	18 58 47.0	0.4		
BJI	45.1	282	eP	18 58 55.0	−0.2		
			PMZ	m_b=5.5		1.2	0.077
			LN	M_S=5.2		16.0	1.45
TIA	46.9	277	eP	18 59 09.0	−0.2		
HHC	47.4	286	+P	18 59 14.5	0.7		
SSE	47.7	269	eP	18 59 17.0	1.5		
			PMZ	m_b=5.6		1.2	0.10
			PMZ	m_B=6.1		4.0	1.07
			LZ	M_S=5.0		20.0	1.68
NJ2	48.5	272	+P	18 59 22.0	0.1		
BTO	48.5	286	+iP	18 59 23.5	1.2		
			sP	18 59 37.5	2.1		
			eS	19 06 22.0	1.1		
			LN	M_S=5.8		20.0	5.50
			LE			20.0	2.70
TIY	48.8	282	+iP	18 59 25.4	0.8		
			PMZ	m_b=5.6		1.4	0.13
			eS	19 06 29.0	3.8		
WHN	52.4	274	−P	18 59 51.0	−0.2		
			PMZ	m_b=5.9		1.5	0.25
			sP	19 00 06.0	1.5		
			eS	19 07 12.0	−1.6		
			LZ	M_S=5.1		20.0	1.88
XAN	53.4	281	P	19 00 00.0	0.9		
LZH	55.1	286	P	19 00 13.0	1.0		
			PMZ	m_b=5.9		2.0	0.29
			LZ	M_S=5.4		22.0	3.81
GTA	55.4	292	eP	19 00 13.6	0.1		
			PMZ	m_b=5.6		1.2	0.10
			LE	M_S=5.6		16.0	2.49
CD2	58.7	282	−iP	19 00 37.7	0.4		
WMQ	59.2	303	+iP	19 00 40.7	0.0		
			eS	19 08 48.0	3.1		
			LN	M_S=5.6		16.0	2.20
			LZ	M_S=5.8		20.0	6.88
GYA	60.0	276	P	19 00 45.4	−1.1		
			pP	19 00 59.0	3.2		
			S	19 08 58.0	3.7		
KMI	63.4	278	−P	19 01 09.0	−0.5		
LSA	67.2	289	P	19 01 36.1	2.1		
KSH	68.4	306	eP	19 01 42.0	0.9		
			eS	19 10 40.0	0.6		
			LE	M_S=5.9		17.0	4.00

OCT 7d 18h 55m 49.2±0.15s, SD1.09/29
51.17 N±2.77km, 179.38 W±1.15km, h33±0.22km
Andreanof Islands (7)
m_b4.6/2,

SNY	39.5	279	+P	19 03 19.4	1.0		
BJI	45.1	282	eP	19 04 04.0	−0.3		
			PMZ	m_b=4.8		1.2	0.016
TIA	46.8	277	eP	19 04 18.4	0.1		
HHC	47.4	286	P	19 04 24.0	1.1		
BTO	48.5	286	eP	19 04 32.5	1.1		
TIY	48.8	282	eP	19 04 34.7	1.0		
WHN	52.3	274	eP	19 05 00.0	−0.3		

OCT 7d 18h 59m 45.3±0.09s, SD1.82/18
36.63 N±1.21km, 82.80 E±0.99km, h10±0.18km
Southern Xinjiang Province (321)
M_L5.3/4,

KSH	6.1	300	ePn	19 01 18.5	1.9		
			Pg	19 01 36.0	2.3		
			Sn	19 02 28.0	−0.9		
			SMN	M_L=5.7		0.8	6.30
			SME			0.8	4.70
WMQ	8.1	26	P	19 01 46.6	0.6		
			SMN	M_L=5.1		1.2	0.48
XAN	21.5	89	P	19 04 34.8	−1.5		
GYA	22.7	110	−P	19 04 47.0	−1.6		
			pP	19 04 58.8	5.1		

OCT 7d 19h 06m 34.0±0.14s, SD0.97/50
51.28 N±2.89km, 179.47 W±1.21km, h33±0.09km
Andreanof Islands (7)

MDJ	34.2	279	−P	19 13 18.0	−0.7		
CN2	37.2	281	eP	19 13 43.4	−0.6		
			eS	19 19 27.4	−0.7		
			LZ	M_S=4.9		16.0	1.50
SNY	39.4	279	+P	19 14 03.3	0.8		
BJI	45.0	282	eP	19 14 48.5	0.1		
TIA	46.8	277	eP	19 15 02.0	−0.5		
HHC	47.3	286	P	19 15 07.6	0.7		
BTO	48.4	286	eP	19 15 17.0	1.6		
WHN	52.2	273	eP	19 15 43.5	−1.1		
XAN	53.3	280	P	19 15 54.0	1.7		
GTA	55.2	291	+iP	19 16 06.4	−0.3		
WMQ	59.0	303	−P	19 16 33.5	−0.3		
GYA	59.9	276	P	19 16 39.0	−0.9		
			pP	19 16 53.0	3.8		
LSA	67.1	289	P	19 17 29.4	2.1		

OCT 7d 20h 15m 20.0±0.19s, SD1.24/38
51.17 N±4.23km, 179.39 W±1.45km, h33±0.19km

Andreanof Islands (7)

CN2	37.2	281	eP	20 22 29.0	−1.6			
			eS	20 28 10.0	−5.3			
			LZ	M_S=4.6		18.0	0.80	
SNY	39.4	279	eP	20 22 49.0	−0.1			
BJI	45.1	282	eP	20 23 35.5	0.5			
HHC	47.4	286	P	20 23 55.0	1.4			
BTO	48.5	286	eP	20 24 03.4	1.3			
TIY	48.8	282	eP	20 24 05.7	1.3			
			S	20 31 10.0	6.7			
			LZ	M_S=4.8		20.0	1.00	
GTA	55.3	292	eP	20 24 53.2	−0.2			
WMQ	59.1	303	+P	20 25 20.2	−0.4			
			pP	20 25 32.5	2.5			
			eS	20 33 22.0	−2.5			
			LZ	M_S=4.8		20.0	0.76	
KSH	68.4	306	eP	20 26 22.0	1.0			

OCT 8d 03h 05m 31.4±0.13s, SD1.20/33
51.28 N±3.61km, 179.22 W±1.31km, h32±0.14km
Andreanof Islands (7)

MDJ	34.3	279	eP	03 12 17.0	−0.4			
CN2	37.3	281	P	03 12 42.6	−0.1			
SNY	39.5	279	+iP	03 13 02.0	0.8			
BJI	45.1	282	eP	03 13 47.5	0.5			
BTO	48.5	286	eP	03 14 15.4	1.4			
TIY	48.9	282	eP	03 14 17.8	1.3			
GTA	55.4	292	+iP	03 15 05.1	−0.1			
WMQ	59.2	303	eP	03 15 32.2	0.0			
KSH	68.4	306	eP	03 16 34.0	1.5			

OCT 8d 10h 59m 31.1±0.31s, SD3.07/8
36.98 N±2.56km, 82.73 E±1.31km, h5±km
Southern Xinjiang Province (321)
M_L3.6/6,

KSH	5.9	297	ePg	11 01 15.5	−0.5			
			eSg	11 02 39.7	2.9			
			SMN	M_L=3.9		0.5	0.10	
			SME			0.5	0.10	
WMQ	7.8	27	ePn	11 01 29.0	3.2			
			SMN	M_L=3.3		1.0	0.010	
			SME			1.0	0.010	

OCT 8d 11h 06m 31.8±0.14s, SD3.07/15
27.55 N±0.93km, 102.90 E±1.61km, h6±0.49km
Sichuan Province (307)
M_L3.4/8,

KMI	2.4	184	Pg	11 07 10.5	−4.4			
			Sg	11 07 54.5	6.7			
			SMN	M_L=3.4		1.0	0.23	
			SME			1.0	0.23	
CD2	3.4	12	ePn	11 07 28.0	1.8			
			Pg	11 07 35.6	3.2			
			Sg	11 08 13.8	−5.4			
			SMN	M_L=3.8		0.6	0.14	
			SME			1.2	0.44	
GYA	3.5	107	Pg	11 07 34.8	0.5			
			Sn	11 08 16.6	5.1			
			SMN	M_L=3.4		1.2	0.15	
			SME			1.2	0.070	
XAN	8.3	37	P	11 08 33.9	−1.7			
WHN	10.5	71	eP	11 09 05.5	0.0			
			eS	11 11 05.2	1.1			
BJI	16.6	38	eP	11 10 23.0	−4.2			

OCT 8d 12h 50m 19.5±0.09s, SD1.57/56
22.49 N±2.10km, 123.39 E±1.56km, h18±1.08km
Taiwan region (243)

M_S4.6/4, M_L4.1/7, m_b4.5/5,

QZH	5.0	300	Pn	12 51 34.5	0.1			
			Sn	12 52 28.5	−5.6			
			SMN	M_L=4.1		0.3	0.24	
			SME			0.3	0.19	
SSE	8.8	348	+P	12 52 27.6	−1.2			
			PMZ	m_b=4.6		0.6	0.015	
			SMN	M_L=3.9		1.1	0.018	
			SME			1.1	0.033	
			LZ	M_S=4.1		12.0	1.27	
NJ2	10.3	338	eP	12 52 50.0	−0.2			
			LZ	M_S=4.2		12.0	1.22	
WHN	11.4	317	eP	12 53 02.5	−2.0			
			pP	12 53 07.2	−3.1			
GYA	15.7	288	P	12 54 04.2	2.0			
XAN	17.1	315	P	12 54 23.4	3.3			
TIY	17.9	331	eP	12 54 30.0	0.9			
			LE	M_S=4.9		6.0	1.40	
			LZ	M_S=4.4		10.0	1.02	
BJI	18.5	342	eP	12 54 37.5	0.2			
			PMZ	m_b=4.2		1.0	0.012	
			eS	12 58 00.0	−0.6			
			LZ	M_S=4.1		14.0	0.64	
SNY	19.3	0	−P	12 54 46.0	−0.2			
			PMZ	m_b=4.5		1.3	0.031	
			eS	12 58 18.0	0.7			
			LZ	M_S=4.4		17.0	1.29	
CD2	19.4	300	eP	12 54 48.8	1.0			
BTO	21.3	331	eP	12 55 07.5	−0.3			
			pP	12 55 14.0	−0.2			
			eS	12 58 58.0	−1.1			
			LN	M_S=4.7		12.0	1.00	
			LE			12.0	0.70	
CN2	21.3	4	−P	12 55 07.6	−0.3			
			pP	12 55 09.7	−4.7			
			eS	12 58 56.7	−2.5			
			LN	M_S=4.5		12.0	0.70	
			LZ	M_S=4.4		14.0	0.90	
LZH	21.7	313	eP	12 55 13.5	1.4			
			PMZ	m_b=4.9		2.0	0.11	
MDJ	22.6	12	eP	12 55 21.0	−0.2			
GTA	26.2	315	eP	12 55 54.6	−1.0			
WMQ	36.3	314	P	12 57 24.5	0.3			
KSH	43.6	304	eP	12 58 24.0	−0.7			

OCT 8d 15h 49m 30.7±0.18s, SD1.78/60
36.56 N±1.95km, 82.74 E±1.93km, h12±0.18km
Southern Xinjiang Province (321)
M_S4.9/17, M_L5.5/4, m_B5.4/1,

KSH	6.1	301	ePn	15 51 03.3	1.6			
			ePg	15 51 18.2	−0.8			
			eSn	15 52 13.6	−0.3			
			SMN	M_L=5.6		0.5	4.70	
			SME			0.5	4.20	
WMQ	8.2	26	−P	15 51 32.0	−0.3			
			S	15 53 04.5	−0.7			
			LE	M_S=5.3		4.0	6.92	
			LZ	M_S=5.0		8.0	6.86	
LSA	9.8	132	P	15 51 56.9	1.4			
			eS	15 53 45.0	−2.2			
			LN	M_S=4.7		10.0	2.95	
			LE			11.0	1.67	
			LZ	M_S=4.7		10.0	3.52	
GTA	13.8	73	eP	15 52 46.8	−1.7			
			PP	15 52 59.0	0.1			
			LN	M_S=4.6		10.0	1.74	
			LZ	M_S=4.5		12.0	1.96	
LZH	17.0	85	P	15 53 32.0	1.4			

			PMZ		$m_b = 5.3$		2.5	0.35
			LN		$M_S = 5.0$		11.0	2.95
			LZ		$M_S = 4.6$		16.0	2.54
CD2	18.4	102	−iP	15 53 46.2		−1.0		
KMI	20.6	118	+P	15 54 09.5		−3.1		
XAN	21.5	89	P	15 54 21.9		0.0		
BTO	21.7	71	eP	15 54 23.0		−0.6		
			pP	15 54 27.0		−2.1		
			eS	15 58 20.0		1.4		
			LN		$M_S = 4.9$		12.0	1.00
			LE				12.0	1.30
GYA	22.7	110	−P	15 54 33.0		−0.9		
			pP	15 54 36.0		−3.3		
			S	15 58 32.4		−4.1		
HHC	22.8	70	eP	15 54 38.0		2.6		
TIY	23.7	78	eP	15 54 44.5		1.2		
			sS	15 59 06.5		3.0		
			LE		$M_S = 4.9$		12.0	1.45
			LZ		$M_S = 4.9$		13.0	2.75
BJI	26.4	72	eP	15 55 10.0		0.9		
			PMZ		$m_b = 4.7$		1.5	0.028
			eS	15 59 36.0		−4.2		
			LN		$M_S = 4.8$		10.0	0.82
			LZ		$M_S = 4.8$		16.0	2.04
WHN	26.9	94	eP	15 55 13.0		−1.3		
			sP	15 55 18.5		−4.4		
TIA	27.6	80	eP	15 55 21.3		1.0		
			LN		$M_S = 5.1$		14.0	2.24
DL2	30.7	74	eP	15 55 50.0		2.1		
			LN		$M_S = 5.0$		14.0	1.37
			LZ		$M_S = 4.6$		17.0	1.19
SNY	31.9	68	eP	15 56 00.0		1.7		
			eS	16 01 09.0		1.2		
			LE		$M_S = 4.9$		16.0	1.22
			LZ		$M_S = 4.8$		15.0	1.58
SSE	32.3	88	eP	15 56 01.2		−0.5		
			LZ		$M_S = 4.6$		12.0	0.73
CN2	33.1	64	eP	15 56 07.0		−2.3		
MDJ	36.1	62	eP	15 56 35.7		1.2		
			eS	16 02 16.0		3.0		
			LN		$M_S = 5.1$		10.0	1.13
			LZ		$M_S = 5.0$		15.0	1.74

OCT 8d 19h 56m 30.1 ± 0.12s, SD1.11 / 30
2.39 N ± 1.36km, 126.61 E ± 1.54km, h86 ± 0.61km
Molucca Passage (266)
m_b4.6 / 3,

XAN	35.6	334	P	20 03 19.0		−2.3		
DL2	36.6	353	eP	20 03 31.0		0.7		
TIY	37.5	341	eP	20 03 37.0		−0.6		
BJI	38.7	347	eP	20 03 47.0		−0.2		
			PMZ		$m_b = 4.7$		1.0	0.013
SNY	39.4	356	eP	20 03 52.2		−0.8		
GTA	44.2	330	eP	20 04 32.0		−0.8		
WMQ	53.7	326	P	20 05 45.5		−0.8		

OCT 9d 01h 38m 02.1 ± 0.19s, SD2.05 / 30
1.51 N ± 3.14km, 127.13 E ± 5.00km, h60 ± 0.21km
Molucca Passage (266)

GYA	31.7	323	P	01 44 25.6		3.2		
TIA	35.8	346	eP	01 44 57.6		0.1		
XAN	36.6	334	P	01 45 05.5		1.0		
BJI	39.6	347	eP	01 45 28.0		−1.9		
			eS	01 51 24.0		−4.1		
SNY	40.3	356	eP	01 45 39.3		4.1		
CN2	42.1	358	eP	01 45 52.0		1.4		
MDJ	43.0	3	eP	01 45 57.0		−0.5		
GTA	45.2	330	eP	01 46 14.2		−1.3		
				54.8	326	eP	01 47 27.4	−1.1

WMQ OCT 9d 08h 10m 19.7 ± 0.05s, SD0.82 / 24
20.93 S ± 1.22km, 179.21 W ± 1.16km, h652 ± 0.26km
Fiji region (181)
m_b4.9 / 2,

MDJ	80.2	326	eP	08 21 27.0	0.4
CN2	81.9	323	−P	08 21 35.0	−0.5
BJI	85.4	316	eP	08 21 52.0	−0.3
TIY	86.7	312	eP	08 21 59.7	1.0
XAN	87.5	308	P	08 22 02.4	0.1

OCT 9d 09h 41m 11.7 ± 0.06s, SD1.03 / 44
67.00 N ± 1.28km, 156.56 W ± 0.82km, h5 ± 0.11km
Alaska (676)
m_b4.8 / 3,

MDJ	43.8	278	eP	09 49 20.0		−0.7		
CN2	46.1	281	eP	09 49 39.2		0.1		
			pP	09 49 42.7		−1.1		
SNY	48.5	281	−P	09 49 58.4		0.5		
DL2	51.8	281	eP	09 50 23.5		0.6		
BJI	52.9	286	eP	09 50 31.0		−0.2		
NJ2	58.9	279	eP	09 51 11.0		−3.3		
WMQ	59.3	311	P	09 51 17.5		0.1		
GTA	59.4	299	eP	09 51 17.8		−0.1		
LZH	60.9	294	eP	09 51 28.5		−0.1		
			PMZ		$m_b = 5.1$		1.8	0.046
WHN	61.9	282	eP	09 51 34.0		−1.4		
GYA	68.5	287	P	09 52 17.8		−0.3		

OCT 9d 10h 03m 17.8 ± 0.13s, SD2.89 / 31
4.28 S ± 3.10km, 77.15 W ± 5.40km, h5 ± km
Northern Peru (111)

WMQ	138.4	17	ePKP	10 22 51.0		5.0		
BJI	142.4	343	ePKP	10 22 51.0		−1.9		
GTA	144.9	4	ePKP	10 22 54.0		−3.5		
TIA	145.6	339	ePKP	10 22 59.5		1.0		
SSE	148.2	329	PKP	10 23 05.0		2.2		
LZH	148.3	358	ePKP	10 23 03.2		0.0		
NJ2	148.6	333	ePKP	10 23 05.5		2.2		
XAN	149.9	350	PKP	10 23 08.9		3.4		
WHN	151.7	339	ePKP	10 23 10.8		2.6		

OCT 9d 10h 40m 39.2 ± 0.05s, SD1.18 / 68
31.25 N ± 0.95km, 130.49 E ± 0.86km, h177 ± 0.80km
Kyushu (235)
m_b5.1 / 11,

SSE	8.0	271	−P	10 42 31.5		−1.7		
			PMZ		$m_b = 4.5$		1.0	0.028
NJ2	10.0	278	−P	10 42 59.0		−0.1		
DL2	10.5	319	eP	10 43 06.3		−0.4		
			PMZ		$m_b = 5.1$		1.0	0.080
SNY	11.9	334	eP	10 43 26.2		1.5		
TIA	12.2	298	P	10 43 28.0		0.0		
QZH	12.2	242	eP	10 43 29.5		0.7		
			PMZ		$m_b = 5.5$		0.5	0.080
CN2	13.1	344	eP	10 43 41.0		0.6		
			eS	10 46 05.0		1.8		
MDJ	13.4	357	eP	10 43 44.7		1.6		
WHN	13.9	271	eP	10 43 51.0		1.3		
BJI	14.6	311	eP	10 43 58.0		−0.2		
			PMZ		$m_b = 5.2$		1.0	0.085
			LZ				24.0	0.38
TIY	16.2	298	−iP	10 44 19.8		1.1		
			sP	10 45 05.0		−0.7		
			LZ				22.0	0.91
HHC	18.0	307	eP	10 44 41.6		1.8		
XAN	18.4	284	P	10 44 41.6		−1.8		

BTO	19.0	305	eP	10 44 49.5	−0.4		
GYA	21.4	263	P	10 45 14.2	0.1		
			pP	10 45 46.6	5.1		
			sP	10 46 03.2	−5.4		
			S	10 49 01.0	5.8		
LZH	22.7	289	+P	10 45 26.7	0.1		
			PMZ	m_b = 5.3		1.6	0.15
CD2	22.9	276	eP	10 45 27.6	−1.0		
GTA	26.2	297	+P	10 45 58.7	−1.3		
WMQ	35.8	303	P	10 47 22.9	−0.8		
KSH	44.7	296	eP	10 48 40.0	3.4		

OCT 9d 15h 56m 29.2 ± 0.10s, SD1.00 / 44
13.21 N ± 3.94km, 51.37 E ± 2.31km, h26 ± 1.06km
Eastern Gulf of Aden (415)
m_b5.2 / 6,

WMQ	43.6	38	−P	16 04 33.9	0.6		
KMI	49.7	68	+P	16 05 22.5	0.8		
GTA	49.9	49	eP	16 05 21.1	−2.2		
GYA	53.3	67	P	16 05 48.6	−0.2		
XAN	55.9	58	P	16 06 07.2	−0.7		
BTO	57.8	50	eP	16 06 21.5	0.2		
HHC	59.0	50	eP	16 06 30.4	0.7		
TIY	59.2	54	eP	16 06 30.9	−0.2		
WHN	60.2	62	+iP	16 06 38.3	0.2		
			PMZ	m_b = 5.3		0.9	0.033
			LZ	M_S = 6.2		20.0	18.8
BJI	62.4	52	eP	16 06 53.0	0.5		
TIA	62.8	56	eP	16 06 54.1	−1.4		
NJ2	64.1	61	+P	16 07 04.8	0.8		
SSE	66.1	62	−P	16 07 17.6	0.7		
			PMZ	m_b = 5.1		1.0	0.026
			pP	16 07 26.6	1.3		
CN2	69.5	48	eP	16 07 38.1	−0.1		
			pP	16 07 49.4	2.9		

OCT 9d 18h 01m 06.7 ± 0.05s, SD0.88 / 111
51.86 N ± 1.65km, 171.84 E ± 0.94km, h25 ± 0.11km
Near Islands (5)
M_S5.4 / 24, m_B5.7 / 9, m_b5.8 / 25,

MDJ	28.7	272	eP	18 07 03.5	−1.1		
			pP	18 07 13.0	0.6		
			S	18 11 48.0	−2.3		
			LN	M_S = 5.4		16.0	4.55
			LZ	M_S = 5.2		20.0	5.76
CN2	31.7	274	−iP	18 07 30.0	−1.1		
			PMZ			3.0	0.70
			epP	18 07 39.0	0.1		
			PP	18 08 40.0	4.3		
			iPcP	18 10 20.6	−1.4		
			eS	18 12 36.0	−2.3		
			SMN			14.0	1.20
			SME			14.0	1.20
			iPcS	18 14 05.4	0.2		
			LN	M_S = 5.3		15.0	3.40
			LZ	M_S = 5.4		20.0	7.80
SNY	33.9	272	−iP	18 07 50.3	−0.1		
			PMZ	m_B = 5.5		12.0	0.84
			pP	18 08 00.0	1.7		
			S	18 13 14.0	2.0		
			LN	M_S = 5.3		14.0	1.86
			LE			14.0	1.54
			LZ	M_S = 5.2		23.0	4.94
DL2	36.8	270	P	18 08 15.4	0.2		
			PMZ	m_b = 6.1		1.1	0.33
			PMZ	m_B = 5.9		4.0	0.79
			sP	18 08 28.0	1.4		
			PcP	18 10 36.0	−0.6		
			S	18 13 56.0	−1.0		
			LN	M_S = 5.4		16.0	3.22
			LZ	M_S = 4.8		30.0	2.28
BJI	39.5	275	eP	18 08 38.0	0.2		
			PMZ	m_b = 5.3		1.5	0.070
			PMZ	m_B = 5.6		4.0	0.40
			ePP	18 10 16.0	3.3		
			ePcP	18 10 45.0	0.0		
			eS	18 14 34.0	−4.9		
			LN	M_S = 5.5		18.0	4.20
			LZ	M_S = 5.3		17.0	4.09
TIA	41.3	270	−P	18 08 53.1	0.6		
			PMZ	m_B = 5.6		10.0	0.96
			PP	18 10 32.0	1.1		
			S	18 15 03.0	−1.4		
			LZ	M_S = 4.9		28.0	2.39
HHC	41.9	279	−P	18 08 58.0	0.6		
			sP	18 09 12.0	3.3		
			LN	M_S = 5.5		13.0	1.90
			LE			14.0	2.30
			LZ	M_S = 5.2		20.0	3.15
SSE	42.2	261	+P	18 09 01.0	1.0		
			PMZ	m_b = 5.8		1.1	0.16
			pP	18 09 09.6	1.6		
			sP	18 09 15.5	4.0		
			PcP	18 10 52.5	−1.2		
			S	18 15 20.0	2.1		
			SS	18 18 24.0	2.8		
			LN	M_S = 5.3		15.0	1.98
			LZ	M_S = 5.0		20.0	1.86
BTO	43.0	280	−iP	18 09 07.5	1.1		
			pP	18 09 17.0	2.7		
			eS	18 15 31.5	1.2		
			eSS	18 18 39.0	3.5		
			LN	M_S = 5.6		16.0	2.40
			LE			16.0	3.20
NJ2	43.0	264	−P	18 09 06.2	−0.1		
			LZ	M_S = 5.1		20.0	2.26
TIY	43.3	275	−iP	18 09 09.8	1.2		
			PMZ	m_b = 5.9		1.0	0.21
			PMZ	m_B = 6.1		4.0	1.37
			S	18 15 33.0	−0.1		
			ScS	18 19 06.0	2.2		
			LE	M_S = 5.2		13.0	1.24
			LZ	M_S = 5.3		20.0	3.75
WHN	46.8	266	−iP	18 09 37.2	0.3		
			PMZ	m_b = 6.1		1.0	0.28
			pP	18 09 46.0	1.1		
			sP	18 09 51.5	3.2		
			PcP	18 11 10.0	0.6		
			eS	18 16 28.0	2.8		
			LZ	M_S = 5.0		20.0	1.88
XAN	47.8	274	−P	18 09 44.2	−0.6		
QZH	48.3	257	−P	18 09 48.5	0.4		
			PMZ	m_b = 5.7		1.0	0.10
			eS	18 16 44.0	−1.5		
			LE	M_S = 5.3		24.0	2.70
			LZ	M_S = 5.0		24.0	2.02
LZH	49.6	279	+iP	18 09 59.8	1.2		
			PMZ	m_b = 6.5		1.5	0.94
			pP	18 10 05.0	−1.4		
			PcP	18 11 20.0	0.6		
			PP	18 11 54.0	1.2		
			S	18 17 07.6	4.5		
			sS	18 17 14.5	−3.1		
			LZ	M_S = 5.5		20.0	5.41
GTA	49.9	286	−iP	18 10 01.1	0.2		
			S	18 17 06.0	−1.3		

			SS	18 20 38.0	1.5			
			LN	$M_S = 5.6$		16.0	3.12	
			LZ	$M_S = 5.2$		20.0	2.70	
GZH	52.8	260	−P	18 10 23.7	0.8			
			LZ	$M_S = 5.3$		24.0	3.20	
CD2	53.1	275	−iP	18 10 24.2	−1.1			
			LZ	$M_S = 5.2$		20.0	2.30	
WMQ	54.1	297	−iP	18 10 32.0	−0.1			
			PMZ			3.0	1.04	
			pP	18 10 41.5	1.4			
			PcP	18 11 36.5	0.6			
			PP	18 12 34.0	−0.1			
			PcS	18 15 35.2	1.4			
			S	18 18 04.5	0.2			
			sS	18 18 17.8	−1.1			
			LN	$M_S = 5.9$		17.0	3.47	
			LE			19.0	4.15	
			LZ	$M_S = 5.4$		21.0	3.82	
GYA	54.5	269	−P	18 10 35.0	−0.2			
			PMZ	$m_b = 6.1$		1.4	0.35	
			sP	18 10 49.0	2.3			
			PcP	18 11 38.0	0.4			
			S	18 18 14.6	4.6			
KMI	57.9	271	−P	18 10 59.5	−0.2			
			pP	18 11 09.5	1.9			
			PP	18 13 04.0	−4.6			
			eS	18 18 56.0	−0.7			
			LZ	$M_S = 5.6$		18.0	4.20	
LSA	61.7	283	P	18 11 27.8	1.5			
			S	18 19 51.0	6.5			
			SME	$m_B = 5.5$		8.0	0.50	
KSH	63.4	301	−iP	18 11 37.0	−0.3			
			sP	18 11 53.0	4.3			
			eS	18 20 06.0	−1.3			
			LE	$M_S = 5.7$		14.0	2.50	

OCT 9d 20h 39m 39.3 ± 0.07s, SD0.90 / 83
4.10 S ± 1.43km, 136.96 E ± 1.66km, h30 ± 0.18km
West Irian region **(196)**
M_S5.4 / 1, m_b5.4 / 14,

SSE	38.1	338	+P	20 46 58.0	0.4			
			PMZ	$m_b = 5.1$		1.2	0.037	
			sP	20 47 12.0	1.9			
			LZ	$M_S = 4.5$		20.0	0.70	
NJ2	39.9	336	+P	20 47 12.8	0.5			
			LZ	$M_S = 4.4$		20.0	0.61	
WHN	40.7	329	eP	20 47 20.5	1.6			
			PMZ	$m_b = 5.5$		1.5	0.12	
			pP	20 47 30.0	2.3			
GYA	42.2	318	+P	20 47 32.2	0.4			
			pP	20 47 44.8	4.3			
			PcP	20 49 26.0	0.5			
			S	20 53 47.4	−1.7			
KMI	44.1	313	+P	20 47 48.5	0.9			
TIA	44.2	337	eP	20 47 46.4	−1.4			
DL2	45.1	343	eP	20 47 56.5	1.6			
XAN	46.2	327	+P	20 48 04.0	−0.3			
CD2	47.1	320	P	20 48 09.6	−1.1			
SNY	47.3	346	−P	20 48 12.5	0.0			
			eS	20 55 04.0	0.5			
TIY	47.4	333	eP	20 48 13.4	−0.2			
			LZ	$M_S = 4.7$		17.0	0.72	
BJI	47.9	338	eP	20 48 16.5	−0.7			
			PMZ	$m_b = 5.4$		1.5	0.080	
			LZ	$M_S = 4.6$		20.0	0.60	
CN2	48.8	349	−iP	20 48 23.8	−0.3			
			PcP	20 49 48.2	−0.1			
MDJ	48.9	353	+iP	20 48 25.5	0.2			
HHC	50.4	335	P	20 48 36.2	−0.4			
LZH	50.6	325	+iP	20 48 38.6	0.7			
			PMZ	$m_b = 5.8$		1.4	0.18	
BTO	50.9	334	eP	20 48 39.0	−1.1			
GTA	55.2	325	eP	20 49 12.0	−0.2			
LSA	55.3	311	eP	20 49 14.0	1.0			
WMQ	65.0	323	+iP	20 50 19.0	−0.5			
			pP	20 50 29.5	1.0			
			eS	20 59 01.5	2.9			
KSH	70.8	314	P	20 50 56.0	0.2			

OCT 10d 04h 10m 50.0 ± 0.16s, SD2.25 / 30
28.10 N ± 3.66km, 87.52 E ± 2.75km, h9 ± 1.64km
Nepal **(310)**
M_S4.3 / 2, m_b4.7 / 2,

LSA	3.6	63	P	04 11 52.1	4.9			
			LE	$M_S = 4.3$		5.0	4.21	
KSH	14.9	323	eP	04 14 20.5	−2.6			
			eS	04 17 05.0	−4.4			
WMQ	15.7	0	P	04 14 36.5	3.4			
LZH	15.9	56	eP	04 14 32.5	−4.2			
			PMZ	$m_b = 4.5$		2.0	0.047	
GYA	17.1	91	P	04 14 52.0	0.8			
XAN	19.2	67	P	04 15 14.4	−3.2			
BTO	22.3	50	eP	04 15 49.2	−0.4			
TIY	22.9	59	+P	04 15 56.4	0.3			
			S	04 20 02.5	1.4			
HHC	23.5	51	eP	04 16 02.6	1.5			
WHN	23.5	78	+P	04 16 03.0	1.7			
			PMZ	$m_b = 4.8$		1.0	0.040	
BJI	26.4	56	eP	04 16 29.5	0.2			
NJ2	27.3	74	P	04 16 41.0	3.3			
SSE	29.4	76	+P	04 16 54.0	−1.8			
CN2	34.1	52	eP	04 17 37.5	−0.2			

OCT 10d 06h 28m 22.3 ± 0.08s, SD1.82 / 50
35.59 N ± 2.06km, 140.20 E ± 1.66km, h77 ± 1.46km
Near south coast of Honshu **(230)**
m_b4.7 / 6,

MDJ	12.1	321	eP	06 31 14.6	0.7			
CN2	14.0	310	−P	06 31 41.8	3.4			
SNY	14.4	301	+P	06 31 46.5	3.0			
SSE	16.5	260	eP	06 32 13.5	3.1			
			PMZ	$m_b = 4.2$		1.0	0.012	
TIA	18.7	279	eP	06 32 40.0	2.8			
BJI	19.5	290	eP	06 32 44.0	−1.7			
WHN	22.2	264	eP	06 33 14.5	0.9			
HHC	23.0	292	P	06 33 24.0	2.0			
BTO	24.2	291	eP	06 33 33.7	0.5			
XAN	25.7	276	P	06 33 46.4	−0.7			
GYA	30.0	262	+P	06 34 25.0	−1.6			
WMQ	40.6	298	P	06 35 57.5	0.7			

OCT 10d 06h 45m 37.5 ± 0.12s, SD1.46 / 76
9.08 S ± 2.02km, 113.10 E ± 2.62km, h48 ± 0.18km
South of Java **(282)**
m_b5.3 / 6,

KMI	35.5	344	−P	06 52 35.0	3.0			
GYA	35.9	350	P	06 52 36.4	1.0			
			pP	06 52 48.0	0.9			
			sP	06 52 52.0	−0.3			
			ScP	06 58 45.0	3.2			
WHN	39.4	2	eP	06 53 06.0	1.2			
			pP	06 53 16.0	−0.8			
SSE	40.7	11	P	06 53 16.4	1.0			
			pP	06 53 27.0	−0.4			
			sP	06 53 31.0	−1.7			
CD2	40.8	348	eP	06 53 15.4	−0.7			

NJ2	41.3	7	eP	06 53 23.5	3.3		
XAN	43.1	355	P	06 53 34.2	−0.8		
LSA	44.0	332	P	06 53 44.6	1.9		
TIA	45.2	5	eP	06 53 52.9	0.7		
LZH	45.8	350	eP	06 53 57.5	0.7		
			PMZ			3.0	0.26
			pP	06 54 05.0	−3.7		
			sP	06 54 09.0	−4.8		
			LZ	M_S=4.6		20.0	0.69
TIY	46.6	359	eP	06 54 04.4	1.5		
			LZ	M_S=4.8		14.0	0.71
DL2	48.4	9	eP	06 54 16.5	−0.8		
			LZ	M_S=4.6		12.0	0.38
BJI	49.0	3	eP	06 54 21.0	−0.6		
			eScP	06 59 37.0	3.1		
			LZ	M_S=4.2		24.0	0.32
BTO	49.5	357	eP	06 54 23.5	−2.5		
HHC	49.7	358	P	06 54 27.0	−0.5		
GTA	49.8	347	eP	06 54 28.5	0.3		
			LZ	M_S=4.3		30.0	0.50
SNY	51.6	10	+P	06 54 40.0	−1.5		
CN2	53.8	11	−iP	06 54 57.2	−1.1		
MDJ	55.5	14	eP	06 55 08.2	−2.3		
WMQ	57.5	338	+iP	06 55 24.0	−0.7		
			PMZ	m_b=5.6		0.6	0.050
			pP	06 55 33.0	−3.9		
			eS	07 03 15.0	−1.8		
			ScS	07 05 06.5	1.5		
KSH	59.4	327	−iP	06 55 37.5	−0.6		
			pP	06 55 47.5	−2.8		
			eS	07 03 42.0	0.2		

OCT 10d 18h 57m 28.7 ± 0.12s, SD3.02 / 23
37.25 N ± 1.08km, 114.99 E ± 1.30km, h17 ± 0.44km
Eastern China (664)
M_L3.6 / 22,

TIA	2.0	120	Pn	18 58 03.6	1.3		
			Pg	18 58 07.0	2.9		
			Sg	18 58 33.5	1.9		
			SMN	M_L=3.4		0.2	0.42
			SME			0.2	0.25
TIY	2.1	284	Pn	18 58 04.3	0.8		
			iPg	18 58 06.6	1.0		
			Sn	18 58 31.4	0.6		
			Sg	18 58 33.6	−0.5		
			SMN	M_L=3.6		1.0	0.51
			SME			1.0	0.43
BJI	2.9	18	Pn	18 58 12.0	−3.1		
			Pg	18 58 18.0	−2.6		
			Sn	18 58 53.0	1.1		
			SMN	M_L=3.2		0.5	0.085
			SME			0.5	0.094
HHC	4.5	325	Pg	18 58 48.6	0.6		
			Sg	18 59 42.4	−6.6		
			SMN	M_L=4.1		0.8	0.26
			SME			0.9	0.33
BTO	5.1	312	ePg	18 58 56.0	−3.3		
			SMN	M_L=3.2		0.6	0.030
			SME			0.6	0.020
XAN	5.9	239	Pg	18 59 10.5	−2.3		
			Sg	19 00 35.6	2.5		
			SMN	M_L=3.3		1.0	0.030
			SME			1.0	0.020
NJ2	6.1	147	ePn	18 58 54.4	−3.9		
			Sn	19 00 12.0	2.2		
			SME	M_L=4.1		1.2	0.13
WHN	6.7	185	ePn	18 59 05.0	−1.9		
			Sg	19 01 03.5	4.7		
			SMN	M_L=3.7		0.7	0.033
			SME			1.0	0.045

OCT 11d 00h 52m 21.8 ± 0.25s, SD3.10 / 8
44.82 N ± 1.24km, 79.35 E ± 2.21km, h5 ± km
Eastern Kazakhstan (329)
M_L4.2 / 6,

WMQ	6.1	97	iPn	00 53 54.4	1.7		
			SMN	M_L=4.2		0.8	0.14
			SME			1.0	0.19

OCT 11d 03h 48m 33.8 ± 0.12s, SD2.04 / 19
6.14 S ± 2.04km, 154.41 E ± 1.05km, h73 ± 1.66km
New Britain region (192)

QZH	46.6	313	−P	03 56 58.0	1.3
CD2	60.8	310	P	03 58 40.6	−0.8

OCT 11d 06h 05m 16.7 ± 0.13s, SD1.04 / 33
17.70 S ± 2.03km, 178.82 W ± 1.75km, h549 ± 0.58km
Fiji region (181)
m_b4.7 / 3,

MDJ	77.8	325	eP	06 16 19.3	−0.1
BJI	83.4	316	eP	06 16 48.0	−0.1
TIY	84.8	312	−P	06 16 56.2	0.8
XAN	85.8	308	P	06 17 01.0	0.8

OCT 11d 10h 57m 44.0 ± 0.09s, SD1.26 / 59
9.39 N ± 1.54km, 126.09 E ± 1.77km, h59 ± 0.32km
Mindanao (259)
M_S4.7 / 14, m_b4.9 / 10,

GZH	18.3	320	eP	11 01 56.0	0.6		
			eS	11 05 20.0	6.5		
QZN	18.4	303	eP	11 01 56.7	−0.2		
			S	11 05 15.5	−0.3		
			LE	M_S=5.5		15.0	12.7
SSE	22.1	349	P	11 02 35.5	−0.2		
			PMZ	m_b=4.7		1.0	0.039
			S	11 06 32.0	2.7		
			LE	M_S=4.5		16.0	0.98
			LZ	M_S=4.2		20.0	0.93
NJ2	23.5	344	−P	11 02 51.0	1.1		
			LZ	M_S=4.2		17.0	0.65
WHN	23.7	334	eP	11 02 51.0	−0.8		
			eS	11 06 58.0	−1.3		
			LN	M_S=4.7		15.0	1.25
			LZ	M_S=4.3		20.0	0.88
KMI	27.2	308	−P	11 03 24.5	0.0		
			LE	M_S=4.8		16.0	1.30
			LZ	M_S=5.0		16.0	3.20
TIA	27.9	344	eP	11 03 29.9	−1.2		
XAN	29.2	330	P	11 03 40.0	−2.3		
TIY	30.8	339	eP	11 03 58.5	1.9		
			S	11 08 55.0	1.9		
			LN	M_S=4.6		14.0	0.58
			LZ	M_S=4.5		20.0	1.00
BJI	31.8	345	eP	11 04 04.0	−1.3		
			eS	11 09 11.0	1.3		
			LZ	M_S=4.1		20.0	0.42
SNY	32.4	356	iP	11 04 10.4	−0.3		
			S	11 09 21.0	2.6		
			LZ	M_S=4.6		20.0	1.09
HHC	33.9	340	eP	11 04 24.0	0.3		
			LZ	M_S=4.8		20.0	1.89
BTO	34.2	338	eP	11 04 29.0	2.5		
			pP	11 04 44.0	3.7		
			eS	11 09 54.0	6.3		
			LN	M_S=4.8		15.0	0.70
			LE			15.0	0.50

CN2	34.3	359	eP	11 04 26.4	−0.7			
			eS	11 09 47.7	−1.1			
			LN	M_S=4.7		10.0	0.50	
			LZ	M_S=4.5		16.0	0.70	
MDJ	35.2	4	eP	11 04 36.0	0.9			
GTA	38.0	326	eP	11 04 57.0	−1.7			
			LZ	M_S=4.6		14.0	0.59	
WMQ	47.8	323	eP	11 06 18.0	−0.1			
			eS	11 13 08.0	−1.2			
			LZ	M_S=4.8		21.0	1.06	
KSH	53.7	313	eP	11 07 05.0	1.9			

OCT 11d 14h 55m 51.9±0.18s, SD1.12/46
8.78 S±1.56km, 160.76 E±0.31km, h59±2.00km
Solomon Islands (193)
M_S5.1/2, m_b5.0/6,

SSE	54.9	318	+iP	15 05 19.0	0.0			
			PMZ	m_b=5.1		1.0	0.024	
NJ2	57.0	317	−P	15 05 34.8	0.3			
WHN	59.3	313	eP	15 05 47.0	−3.2			
CN2	61.4	332	−P	15 06 04.0	−0.5			
GYA	63.1	305	−P	15 06 17.0	0.6			
BJI	63.7	323	eP	15 06 19.0	−1.0			
TIY	64.6	319	−P	15 06 26.2	0.1			
XAN	65.0	314	P	15 06 28.5	−0.2			
CD2	67.3	309	eP	15 06 42.4	−1.2			
BTO	67.8	320	eP	15 06 46.5	0.1			
GTA	74.0	315	+iP	15 07 24.8	1.0			
WMQ	84.0	316	+P	15 08 18.5	0.2			

OCT 11d 16h 02m 50.6±0.13s, SD3.19/12
35.36 N±1.40km, 115.37 E±1.07km, h18±0.25km
Eastern China (664)
M_L3.3/11,

TIA	1.7	59	ePg	16 03 19.0	−1.1			
			Sg	16 03 41.9	−1.0			
			SMN	M_L=2.9		0.2	0.16	
			SME			0.2	0.12	
NJ2	4.4	138	ePg	16 04 07.0	−1.3			
			Sg	16 05 04.8	−3.5			
WHN	4.9	190	Pg	16 04 22.0	5.1			
			SMN	M_L=3.4		0.6	0.040	
			SME			0.4	0.060	

OCT 11d 19h 06m 43.5±0.09s, SD1.40/33
14.24 S±2.05km, 167.11 E±2.68km, h240±1.12km
Vanuatu (New Hebrides) (186)
m_b4.5/2,

NJ2	65.2	316	−P	19 17 01.2	−0.7			
WHN	67.5	312	eP	19 17 15.5	−0.8			
MDJ	67.8	332	eP	19 17 17.7	−0.3			
CN2	69.2	329	P	19 17 25.7	−0.7			
BJI	71.8	321	eP	19 17 42.0	−0.4			
TIY	72.8	317	eP	19 17 48.2	−0.3			
XAN	73.2	313	P	19 17 50.8	−0.3			
GTA	82.2	314	+P	19 18 40.2	0.1			
WMQ	92.3	315	eP	19 19 27.2	−1.3			

OCT 11d 20h 51m 48.8±0.16s, SD2.43/27
20.31 N±2.03km, 98.82 E±1.78km, h30±0.35km
Indo-Pacific Peninsula (299)
M_S4.3/4, M_L4.5/2,

KMI	6.0	36	Pg	20 53 41.0	5.7			
			LN	M_S=4.1		6.0	1.10	
			LZ	M_S=4.5		8.0	2.80	
CD2	11.5	22	eP	20 54 31.6	−2.1			
LSA	11.6	325	P	20 54 37.4	0.7			
LZH	16.3	15	P	20 55 37.5	−0.4			
XAN	16.4	31	P	20 55 37.4	−0.7			
WHN	17.3	51	eP	20 55 55.0	4.8			
			sP	20 56 02.5	0.7			
GTA	19.1	2	eP	20 56 10.6	−1.3			
			LE	M_S=4.3		10.0	0.51	
TIY	21.0	31	eP	20 56 30.0	−2.6			
			LN	M_S=4.3		13.0	0.50	
			LZ	M_S=4.1		12.0	0.48	
BTO	22.4	23	eP	20 56 48.0	1.6			
			pP	20 56 52.0	−2.6			
			LN	M_S=4.3		11.0	0.20	
			LE			11.0	0.30	
BJI	24.7	33	eP	20 57 07.5	−1.0			
WMQ	25.2	341	eP	20 57 14.8	0.8			

OCT 12d 03h 50m 13.8±0.10s, SD2.16/7
33.49 N±0.47km, 94.43 E±0.99km, h17±0.06km
Tibet (306)

TIY	15.2	69	iP	03 53 50.8	0.5			

OCT 12d 04h 44m 17.5±0.08s, SD2.79/5
23.27 N±0.60km, 108.15 E±1.20km, h12±0.38km
Eastern China (664)
M_L3.2/4,

GYA	3.5	337	Pg	04 45 21.0	2.3			
			Sn	04 45 54.8	0.5			
			Sg	04 46 07.8	2.1			
			SMN	M_L=3.5		1.0	0.14	
			SME			1.0	0.17	
QZN	4.5	159	ePg	04 45 37.8	0.7			
			eSg	04 46 33.6	−5.0			
			SMN	M_L=3.3		0.6	0.020	
			SME			0.8	0.070	

OCT 12d 06h 39m 32.0±0.26s, SD1.70/22
24.05 N±2.28km, 120.84 E±2.09km, h28±0.39km
Taiwan (244)
M_S4.5/1, M_L4.3/12, m_b4.6/1,

QZH	2.2	294	Pn	06 40 08.0	0.4			
			Sn	06 40 34.2	−1.6			
			SMN	M_L=3.8		0.3	0.69	
			SME			0.3	0.50	
SSE	7.0	2	+P	06 41 14.0	−1.7			
			PMZ	m_b=4.6		1.0	0.036	
			pP	06 41 20.6	−1.5			
			SMN	M_L=4.0		1.0	0.040	
			SME			1.0	0.085	
NJ2	8.2	348	eP	06 41 30.0	−1.6			
			S	06 43 00.0	−3.6			
			SMN	M_L=4.8		0.8	0.29	
			SME			0.8	0.22	
WHN	8.7	320	eP	06 41 37.0	−1.6			
			pP	06 41 43.0	−2.2			
			S	06 43 12.5	−3.7			
			SMN	M_L=4.8		1.0	0.23	
			SME			1.0	0.21	
			LE	M_S=4.5		6.0	1.72	
GYA	13.1	284	P	06 42 38.6	0.0			
CN2	20.1	10	eP	06 44 06.0	−0.1			

OCT 12d 07h 43m 45.7±0.11s, SD1.13/52
3.26 N±1.19km, 126.76 E±1.60km, h75±0.65km
Molucca Passage (266)
m_b5.0/12,

WHN	29.6	338	eP	07 49 45.5	−0.4			
NJ2	29.6	346	−P	07 49 46.5	0.4			
TIA	34.0	346	−P	07 50 24.2	−0.3			
XAN	34.8	334	P	07 50 36.0	4.0			

DL2	35.8	353	eP	07 50 41.3	1.4			
			PMZ	m_b=5.2		1.0	0.040	
TIY	36.7	341	eP	07 50 47.0	−0.9			
BJI	37.8	347	eP	07 50 57.5	0.3			
			PMZ	m_b=5.4		1.0	0.059	
LZH	38.9	330	eP	07 51 04.5	−1.8			
			PMZ	m_b=5.0		2.0	0.051	
HHC	39.9	342	eP	07 51 14.2	0.2			
CN2	40.4	359	eP	07 51 18.0	−0.3			
MDJ	41.3	3	eP	07 51 26.0	0.5			
GTA	43.5	329	eP	07 51 42.8	−1.3			
WMQ	53.1	325	−P	07 52 58.5	0.0			
			pP	07 53 15.0	−1.8			

OCT 12d 11h 45m 50.4±0.08s, SD1.86/52
36.42 N±2.54km, 142.52 E±2.70km, h30±1.45km
Off east coast of Honshu (229)
M_S4.5/10, m_b4.3/3,

MDJ	12.8	314	eP	11 48 57.0	3.8			
			LE	M_S=4.1		12.0	0.75	
			LZ	M_S=4.1		12.0	0.93	
CN2	15.0	305	eP	11 49 22.0	−0.1			
DL2	16.7	285	eP	11 49 46.0	1.6			
			LE	M_S=4.5		12.0	1.01	
TIA	20.5	277	+P	11 50 26.5	−2.0			
BJI	21.0	288	eP	11 50 32.0	−1.9			
			esP	11 50 41.0	−5.1			
			eS	11 54 24.0	2.6			
			LN	M_S=4.3		14.0	0.52	
			LZ	M_S=4.1		12.0	0.42	
TIY	24.0	282	−iP	11 51 06.0	2.1			
			S	11 55 19.5	4.2			
			sS	11 55 30.5	0.7			
			LE	M_S=4.7		15.5	1.24	
			LZ	M_S=4.8		15.0	2.13	
WHN	24.2	264	eP	11 51 06.5	1.1			
			sP	11 51 18.5	0.9			
			eS	11 55 16.0	−3.0			
			LZ	M_S=4.2		18.0	0.72	
BTO	25.7	289	eP	11 51 20.0	−0.1			
			sP	11 51 31.0	−1.2			
			eS	11 55 45.0	0.2			
			LN	M_S=4.7		12.0	0.50	
			LE			12.0	0.60	
XAN	27.5	275	P	11 51 36.0	−0.5			
LZH	31.1	281	−P	11 52 08.0	−0.6			
			PMZ	m_b=5.0		2.0	0.051	
			pP	11 52 19.0	2.1			
			LZ	M_S=4.6		16.0	1.12	
GYA	32.0	262	P	11 52 16.4	−0.5			
GTA	33.6	288	eP	11 52 31.2	0.4			
			LZ	M_S=4.4		14.0	0.47	
WMQ	41.9	298	P	11 53 42.0	1.6			
			sP	11 53 53.5	0.6			
			LZ	M_S=4.4		14.0	0.40	

OCT 12d 18h 33m 07.0±0.23s, SD2.90/18
2.28 S±2.92km, 79.47 W±2.07km, h91±1.93km
Near coast of Ecuador (105)

GTA	143.0	1	ePKP	18 52 26.6	−4.8			
SSE	145.3	328	PKP	18 52 35.0	−0.2			
LZH	146.2	355	PKP	18 52 37.5	0.5			
			epPKP	18 52 57.0	−3.8			
XAN	147.4	347	PKP	18 52 41.4	2.5			
WHN	149.0	336	ePKP	18 52 45.5	4.2			

OCT 13d 06h 01m 27.2±0.07s, SD1.59/33
29.25 N±1.82km, 131.66 E±1.34km, h42±1.01km

Ryukyu Islands region (239)
m_b4.8/3,

SSE	9.2	284	+P	06 03 39.8	−1.3			
			PMZ	m_b=4.8		0.8	0.023	
			pP	06 03 46.5	−1.6			
			LZ	M_S=3.8		16.0	0.90	
NJ2	11.4	287	eP	06 04 08.0	−2.2			
BJI	16.7	314	eP	06 05 20.0	0.7			
			LZ	M_S=3.7		16.0	0.29	
TIY	18.1	303	eP	06 05 38.0	0.5			
			LZ	M_S=4.1		12.0	0.60	
XAN	19.9	290	P	06 05 55.5	−3.1			
BTO	21.0	308	P	06 06 07.7	−2.0			
GYA	22.3	269	P	06 06 23.2	0.8			
GTA	28.1	300	eP	06 07 14.8	−2.5			

OCT 13d 07h 06m 41.4±0.21s, SD3.62/9
41.88 N±2.43km, 120.67 E±0.97km, h15±km
North-Eastern China (658)
M_L3.1/9,

SNY	2.2	90	Pg	07 07 16.8	−3.0			
			Sg	07 07 45.5	−4.0			
			SMN	M_L=3.1		1.0	0.21	
			SME			0.5	0.069	
CN2	4.0	60	Pg	07 07 53.0	0.9			
			Sg	07 08 47.0	0.3			
			SMN	M_L=2.8		0.6	0.022	
			SME			0.6	0.014	

OCT 13d 09h 59m 11.5±0.12s, SD1.29/82
17.59 S±1.70km, 122.46 E±2.18km, h10±0.12km
Western Australia (590)
M_S5.0/1, m_B5.7/1, m_b5.0/9,

QZH	42.4	355	P	10 07 08.5	−0.1			
GYA	46.4	340	P	10 07 41.2	0.6			
			sP	10 07 51.0	2.3			
			S	10 14 32.8	6.2			
SSE	48.4	359	+P	10 07 52.0	−4.3			
			PMZ	m_b=4.9		1.0	0.017	
			sP	10 08 05.5	0.9			
			S	10 14 50.0	−5.2			
			LZ	M_S=4.7		28.0	1.10	
WHN	48.5	351	eP	10 07 59.0	2.1			
			sP	10 08 06.5	1.4			
NJ2	49.5	356	+P	10 08 05.0	0.5			
CD2	51.5	339	+iP	10 08 18.8	−0.9			
XAN	52.9	346	P	10 08 30.2	−0.6			
TIA	53.7	355	eP	10 08 35.5	−1.2			
TIY	55.8	350	−P	10 08 51.2	−0.7			
			LZ	M_S=4.7		24.0	0.82	
LSA	55.9	327	P	10 08 53.6	0.8			
			S	10 16 37.5	0.2			
			SME	m_B=5.7		4.0	0.44	
DL2	56.2	359	eP	10 08 54.0	−0.6			
			sP	10 09 04.0	1.2			
			eS	10 16 42.0	−0.7			
			LZ	M_S=4.8		25.0	0.96	
LZH	56.2	342	P	10 08 53.0	−1.9			
			PMZ	m_b=5.5		1.5	0.096	
			sP	10 09 05.0	2.1			
			LZ	M_S=4.8		22.0	0.84	
BJI	57.6	354	eP	10 09 04.0	−0.7			
			eS	10 17 00.0	−1.5			
			LZ	M_S=4.4		20.0	0.30	
HHC	59.0	350	eP	10 09 15.0	0.4			
BTO	59.0	349	eP	10 09 14.0	−0.7			
			sP	10 09 24.5	1.7			
SNY	59.1	1	+P	10 09 14.5	−0.7			

			eS	10 17 24.0	2.9			
			LE	$M_S = 5.0$		24.0	0.90	
GTA	60.5	340	eP	10 09 25.2	0.2			
CN2	61.1	2	eP	10 09 28.2	−0.9			
MDJ	62.2	6	eP	10 09 36.5	0.0			
WMQ	68.9	334	+P	10 10 19.8	0.4			
			PMZ	$m_b = 5.0$		1.0	0.020	
			sP	10 10 29.5	2.0			
			S	10 19 22.0	0.9			
			SKS	10 20 10.0	−3.7			
			LZ	$M_S = 4.6$		28.0	0.49	
KSH	71.5	324	eP	10 10 36.5	1.1			
			eS	10 19 55.0	1.5			

OCT 13d 16h 07m 11.8 ± 0.12s, SD2.35 / 65
24.82 N ± 1.92km, 122.56 E ± 1.82km, h56 ± 1.24km
Taiwan region (243)
M_S5.2 / 31, M_L4.6 / 3, m_B5.0 / 5,

QZH	3.6	273	eP	16 08 03.4	−3.5			
			SMN	$M_L = 4.2$		1.4	0.80	
			SME			1.0	0.41	
			LN	$M_S = 4.5$		10.0	12.1	
			LZ	$M_S = 4.6$		8.0	7.32	
NJ2	7.9	336	+P	16 09 01.8	−5.0			
			LN	$M_S = 4.9$		10.0	6.28	
			LE			11.0	6.32	
WHN	9.2	310	eP	16 09 23.5	−1.7			
			sP	16 09 41.0	−0.7			
			SMN			1.8	0.70	
			SME			1.5	0.28	
			LN	$M_S = 5.0$		12.0	2.09	
			LE			11.0	9.25	
			LZ	$M_S = 4.6$		12.0	3.62	
TIA	12.3	339	eP	16 10 11.4	5.0			
			LE	$M_S = 5.0$		11.0	5.64	
			LZ	$M_S = 4.7$		12.5	3.72	
XAN	15.0	311	P	16 10 40.5	−1.8			
			LN	$M_S = 5.5$		11.0	11.1	
			LE			11.0	5.14	
TIY	15.5	328	−P	16 10 53.0	4.6			
			LN	$M_S = 5.1$		11.0	4.30	
			LZ	$M_S = 4.8$		12.0	3.61	
BJI	16.1	342	eP	16 10 55.5	−0.6			
			PMZ	$m_B = 4.7$		10.0	0.32	
			LN	$M_S = 4.9$		10.0	2.72	
			LZ	$M_S = 4.8$		10.0	2.88	
SNY	17.0	3	+P	16 11 05.9	−1.3			
			PMZ	$m_B = 5.1$		10.0	1.02	
			S	16 14 13.0	1.4			
			sS	16 14 26.0	−2.9			
			LZ	$M_S = 5.1$		10.0	4.98	
CD2	17.7	294	eP	16 11 15.0	−1.2			
			LN	$M_S = 5.4$		9.0	6.15	
			LZ	$M_S = 5.1$		10.0	4.20	
KMI	18.0	275	+P	16 11 24.0	4.1			
			pP	16 11 33.0	2.9			
			eS	16 14 42.0	6.8			
			LN	$M_S = 5.2$		10.0	3.90	
			LZ	$M_S = 5.2$		10.0	5.40	
HHC	18.4	333	P	16 11 27.0	1.7			
			LN	$M_S = 5.2$		8.0	3.07	
			LE			9.0	1.10	
			LZ	$M_S = 4.9$		12.0	3.13	
BTO	18.9	329	P	16 11 31.5	0.5			
			pP	16 11 44.0	2.6			
			eS	16 14 58.0	2.1			
			LN	$M_S = 5.3$		12.0	3.80	
			LE			12.0	5.00	
CN2	19.1	6	eP	16 11 32.6	−0.1			
			PMZ	$m_B = 4.9$		12.0	0.70	
			eS	16 14 58.6	−0.7			
			LN	$M_S = 5.1$		11.1	2.30	
			LE			11.1	2.30	
			LZ	$M_S = 5.0$		15.0	4.70	
LZH	19.6	309	−P	16 11 40.0	1.1			
			PMZ	$m_b = 4.7$		1.5	0.058	
			PMZ	$m_B = 5.0$		8.0	0.60	
			eS	16 15 12.0	0.2			
			sS	16 15 32.0	3.4			
			SS	16 15 41.0	1.9			
			LN	$M_S = 5.3$		12.0	4.40	
			LE			12.5	2.90	
			LZ	$M_S = 4.9$		14.0	3.60	
MDJ	20.6	14	eP	16 11 47.0	−1.5			
			S	16 15 34.0	4.7			
			LE	$M_S = 5.2$		14.0	4.42	
			LZ	$M_S = 4.7$		20.0	2.92	
GTA	24.1	313	+P	16 12 24.8	1.5			
			sS	16 16 56.0	0.8			
			LN	$M_S = 5.5$		11.0	5.82	
			LZ	$M_S = 4.9$		14.0	2.64	
WMQ	34.1	312	+P	16 13 54.0	0.0			
			pP	16 14 05.5	−1.7			
			PcP	16 16 32.5	3.1			
			LN	$M_S = 5.2$		13.0	1.70	
			LZ	$M_S = 5.0$		12.0	1.84	
KSH	41.7	302	eP	16 15 00.8	3.8			
			LN	$M_S = 5.5$		12.0	2.30	

OCT 13d 16h 49m 37.9 ± 0.09s, SD1.29 / 44
32.15 S ± 3.12km, 178.93 W ± 1.82km, h105 ± 0.60km
South of Kermadec Islands (179)
m_b5.8 / 3,

NJ2	86.8	311	eP	17 02 12.0	−0.4			
MDJ	89.6	326	eP	17 02 26.5	0.6			
DL2	89.7	318	eP	17 02 26.5	0.3			
			PMZ	$m_b = 5.8$		1.5	0.12	
			eS	17 13 10.0	2.8			
TIA	90.6	313	−P	17 02 30.7	0.3			
SNY	90.6	321	−P	17 02 30.4	−0.2			
CN2	91.1	323	eP	17 02 32.0	−0.6			
BJI	93.6	316	eP	17 02 44.0	−0.3			
			eSKS	17 13 05.0	−1.4			
			eS	17 13 44.0	2.3			
			esS	17 14 28.0	−0.8			
			LZ			28.0	0.55	
TIY	94.4	312	eP	17 02 49.0	0.8			
			LZ			16.0	0.72	
WMQ	113.7	308	PKP	17 08 04.0	−1.0			
KSH	120.5	300	ePKP	17 08 16.2	−2.1			

OCT 13d 17h 14m 18.8 ± 0.07s, SD0.88 / 26
10.78 S ± 1.46km, 166.88 E ± 1.62km, h33 ± 0.78km
Santa Cruz Islands (184)
m_b5.0 / 4,

MDJ	64.6	331	eP	17 24 55.5	−0.6			
DL2	64.9	322	eP	17 24 58.0	−0.1			
CN2	66.1	328	−P	17 25 05.0	−0.5			
BJI	69.0	320	eP	17 25 23.0	−0.6			
			PMZ	$m_b = 5.0$		1.6	0.030	
XAN	70.8	312	P	17 25 33.4	−1.2			
LZH	75.4	312	P	17 26 02.0	0.0			
			PMZ	$m_b = 5.1$		2.0	0.047	
WMQ	89.7	315	P	17 27 15.7	−0.2			

OCT 13d 19h 33m 17.6 ± 0.13s, SD1.17 / 63

51.90 N ± 3.17km, 176.09 E ± 1.96km, h33 ± 0.21km
Rat Islands (6)
m_b5.0 / 6,

CN2	34.3	277	eP	19 40 02.0	−1.5			
SNY	36.6	275	eP	19 40 23.2	0.8			
DL2	39.5	273	eP	19 40 47.0	0.2			
			pP	19 40 56.5	0.3			
BJI	42.1	278	eP	19 41 09.0	0.0			
TIA	43.9	273	+P	19 41 24.4	0.7			
HHC	44.5	282	P	19 41 30.0	2.0			
SSE	44.8	264	P	19 41 31.5	0.7			
			PMZ		m_b = 5.0		1.0	0.024
BTO	45.6	283	P	19 41 36.8	0.1			
NJ2	45.6	267	P	19 41 37.4	0.3			
TIY	45.9	278	+P	19 41 40.6	1.4			
WHN	49.5	269	eP	19 42 08.5	1.5			
XAN	50.4	277	P	19 42 14.5	−0.1			
LZH	52.2	282	P	19 42 28.0	0.2			
			PMZ		m_b = 5.0		2.0	0.042
			pP	19 42 34.5	−2.6			
GTA	52.4	288	−P	19 42 29.2	−0.3			
WMQ	56.3	300	−P	19 42 57.5	−0.9			
			pP	19 43 07.5	−0.3			
			eS	19 50 45.0	−0.3			
			LZ		M_S = 4.5		22.0	0.43
GYA	57.1	272	P	19 43 04.0	0.1			
KSH	65.6	303	eP	19 44 01.4	0.2			
			eS	19 52 43.0	−0.5			

OCT 13d 21h 19m 56.9 ± 0.09s, SD1.64 / 84
34.78 N ± 1.79km, 139.65 E ± 1.88km, h27 ± 0.75km
Near south coast of Honshu (230)
M_S5.1 / 37, m_B5.2 / 5, m_b5.2 / 12,

MDJ	12.5	325	eP	21 22 57.0	0.9			
			pP	21 23 03.0	0.6			
			LE		M_S = 5.3		22.0	21.5
			LZ		M_S = 4.7		15.0	4.36
CN2	14.2	314	eP	21 23 19.4	0.8			
			PMZ		m_b = 5.4		1.2	0.083
			epP	21 23 24.0	−1.0			
			eS	21 25 58.0	1.7			
			SMN		m_B = 5.1		7.0	0.60
			SME				7.0	0.70
			LN		M_S = 4.7		12.0	2.00
			LE				12.0	1.20
			LZ		M_S = 4.7		14.0	3.10
SNY	14.4	304	eP	21 23 22.9	1.2			
			PMZ		m_B = 5.8		6.0	1.19
			pP	21 23 28.4	0.2			
			eS	21 26 02.0	0.1			
			SMN		m_B = 5.2		7.0	0.93
			SME				6.0	0.63
			LN		M_S = 4.8		12.0	2.07
			LE				10.0	1.86
			LZ		M_S = 4.6		18.0	3.31
DL2	15.0	291	eP	21 23 30.0	0.9			
			PMZ		m_b = 5.3		1.3	0.19
			pP	21 23 36.5	0.9			
			sP	21 23 40.0	0.0			
			PP	21 23 43.0	2.2			
			LE		M_S = 5.0		13.0	4.21
			LZ		M_S = 4.9		12.0	4.13
SSE	15.9	262	eP	21 23 39.5	−1.5			
			pP	21 23 46.5	−1.2			
			sP	21 23 48.7	−3.3			
			PP	21 23 56.0	2.4			
			eS	21 26 35.0	−1.9			
			sS	21 26 53.0	−2.1			
			LN		M_S = 5.2		16.0	7.53
			LE				14.0	4.20
			LZ		M_S = 4.4		20.0	2.33
NJ2	17.6	267	−P	21 24 04.0	2.2			
			S	21 27 14.0	−0.1			
			LN		M_S = 4.9		11.0	1.53
			LE				10.0	1.65
TIA	18.4	281	−P	21 24 12.8	0.8			
			sP	21 24 20.0	−3.0			
			LN		M_S = 4.7		9.0	0.86
			LE				9.0	0.69
BJI	19.4	293	eP	21 24 21.0	−2.3			
			PMZ		m_b = 5.6		1.5	0.40
			eS	21 27 56.0	1.2			
			LN		M_S = 5.0		13.0	2.20
			LE				12.0	1.86
			LZ		M_S = 4.7		14.0	2.05
QZH	20.7	247	eP	21 24 37.9	0.2			
			eS	21 28 22.0	−0.7			
			LE		M_S = 5.0		18.0	3.85
			LZ		M_S = 4.7		18.0	2.42
WHN	21.7	266	eP	21 24 49.5	1.6			
			pP	21 24 57.8	2.0			
			S	21 28 46.0	4.9			
			LN		M_S = 5.3		14.0	5.28
			LZ		M_S = 4.8		16.0	2.92
TIY	22.1	286	eP	21 24 52.0	−0.3			
			sP	21 25 06.5	2.7			
			S	21 28 54.0	5.1			
			sS	21 29 06.5	4.2			
			LN		M_S = 5.0		13.0	2.30
HHC	22.9	294	eP	21 25 04.0	3.5			
			LN		M_S = 5.3		11.0	3.07
			LE				11.0	1.93
			LZ		M_S = 4.9		14.0	2.68
BTO	24.1	293	eP	21 25 08.5	−3.1			
			pP	21 25 15.0	−4.4			
			S	21 29 20.0	−4.0			
			LN		M_S = 5.3		15.0	4.00
			LE				13.0	2.30
XAN	25.3	277	P	21 25 22.0	−1.4			
			S	21 29 42.5	−2.2			
			LN		M_S = 5.2		14.0	1.82
			LE				13.0	2.74
LZH	29.1	283	eP	21 25 57.0	−1.1			
			pP	21 26 06.5	0.5			
			eS	21 30 42.0	−5.3			
			LN		M_S = 5.1		15.0	2.21
			LZ		M_S = 4.9		18.0	2.30
GYA	29.5	263	P	21 26 01.0	−0.3			
			S	21 30 46.4	−5.5			
			LN		M_S = 5.4		16.0	3.40
			LE				16.0	2.50
			LZ		M_S = 4.6		18.0	1.40
CD2	30.3	273	eP	21 26 06.4	−2.2			
			LN		M_S = 5.7		16.0	8.12
			LZ		M_S = 5.1		16.0	3.57
GTA	31.9	290	eP	21 26 22.4	−0.7			
			PP	21 27 30.0	1.5			
			sS	21 31 40.0	−5.1			
			LN		M_S = 5.1		13.0	1.65
			LZ		M_S = 4.9		14.0	1.76
KMI	33.2	263	+P	21 26 31.5	−3.1			
			pP	21 26 40.0	−2.5			
			sP	21 26 43.0	−3.1			
			LN		M_S = 5.3		14.0	2.60
			LZ		M_S = 5.4		13.0	4.70

WMQ	40.6	299	P	21 27 36.5	−0.2			
			sP	21 27 48.0	−0.5			
			eS	21 33 46.5	1.5			
			LN	M_S=5.2		13.0	1.12	
			LE			12.0	0.54	
			LZ	M_S=4.9		15.0	1.26	
LSA	41.0	277	eP	21 27 41.8	1.4			
			LE	M_S=4.8		12.0	0.53	
KSH	50.1	295	P	21 28 52.0	−0.2			
			eS	21 36 01.0	0.0			
			LN	M_S=5.3		13.0	1.20	

OCT 14d 02h 32m 02.1±0.07s, SD0.87/37
24.03 S±1.23km, 179.96 W±1.65km, h517±0.54km
South of Fiji (171)
m_b4.7/7,

NJ2	80.8	311	+P	02 43 23.5	0.4			
MDJ	82.4	326	eP	02 43 31.0	−0.4			
WHN	83.1	308	eP	02 43 35.2	0.3			
CN2	84.0	324	−P	02 43 39.0	−0.4			
BJI	87.1	316	eP	02 43 54.5	0.0			
			PMZ	m_b=4.7		1.5	0.026	
TIY	88.3	313	−iP	02 44 00.6	0.6			
			SKS	02 53 37.0	−0.8			
			S	02 54 04.5	5.4			
XAN	88.8	308	P	02 44 03.0	0.4			
HHC	90.5	315	P	02 44 11.2	0.8			

OCT 14d 16h 23m 40.7±0.12s, SD0.74/43
9.44 S±1.22km, 156.61 E±1.06km, h16±0.38km
Solomon Islands (193)
m_b4.9/6,

NJ2	54.8	320	−P	16 33 13.5	0.8			
MDJ	59.1	338	eP	16 33 43.5	0.3			
CN2	60.1	334	+P	16 33 49.8	−0.2			
GYA	60.2	308	eP	16 33 51.0	0.0			
BJI	61.8	326	eP	16 34 01.0	−0.9			
TIY	62.5	321	eP	16 34 06.3	−0.1			
XAN	62.6	316	P	16 34 06.0	−0.9			
KMI	62.7	305	+P	16 34 08.5	0.4			
CD2	64.6	311	P	16 34 19.2	−1.1			
HHC	65.0	324	eP	16 34 23.2	0.3			
LZH	67.2	316	P	16 34 35.5	−1.4			
			PMZ	m_b=5.1		1.5	0.035	
			epP	16 34 42.5	−0.8			
GTA	71.6	317	eP	16 35 04.6	0.4			
WMQ	81.7	317	P	16 36 01.5	0.8			

OCT 14d 17h 55m 04.0±0.13s, SD1.46/68
9.39 S±1.69km, 156.17 E±3.70km, h28±1.27km
D'Entrecasteaux Islands region (194)
M_S5.0/8, m_B5.6/2, m_b4.8/8,

SSE	52.4	322	P	18 04 16.5	0.1			
			S	18 11 45.0	6.7			
			sS	18 11 50.0	−3.5			
			LE	M_S=4.8		14.0	0.40	
			LZ	M_S=4.8		20.0	0.93	
NJ2	54.5	321	+P	18 04 29.5	−2.5			
			eS	18 12 09.0	1.1			
			LZ	M_S=4.9		22.0	1.26	
WHN	56.5	316	eP	18 04 45.0	−1.3			
			pP	18 04 53.5	−1.3			
			eS	18 12 40.0	5.8			
			LZ	M_S=4.8		22.0	0.92	
DL2	57.8	328	eP	18 04 58.0	2.2			
			eS	18 12 57.0	5.1			
			LZ	M_S=4.4		20.0	0.30	
TIA	58.4	323	eP	18 04 58.8	−1.0			
			S	18 13 04.0	5.9			
			LN	M_S=5.0		25.0	0.90	
			LZ	M_S=4.9		24.0	1.16	
MDJ	58.9	338	eP	18 05 03.6	0.3			
			S	18 13 08.0	3.2			
			LZ	M_S=4.8		15.0	0.52	
SNY	59.1	332	eP	18 05 03.8	−1.0			
			pP	18 05 12.0	−1.3			
			S	18 13 06.0	−1.5			
			LZ	M_S=4.8		21.0	0.86	
GYA	59.8	308	eP	18 05 10.0	0.0			
CN2	59.8	335	eP	18 05 09.8	−0.2			
			PMZ	m_b=4.5		1.0	0.0060	
			epP	18 05 17.0	−1.5			
			sP	18 05 26.0	3.9			
			eS	18 13 20.0	1.6			
			SMN	m_B=5.7		12.0	0.80	
			SME			12.0	0.80	
			LZ	M_S=4.7		22.0	0.60	
BJI	61.5	326	P	18 05 22.0	0.5			
			eS	18 13 44.0	3.8			
			LZ	M_S=4.7		24.0	0.64	
TIY	62.2	322	eP	18 05 27.0	1.1			
			ScS	18 15 13.0	1.8			
			SS	18 17 55.0	3.2			
			LN	M_S=5.0		11.5	0.42	
			LZ	M_S=5.2		15.0	1.42	
XAN	62.2	316	P	18 05 24.0	−2.2			
KMI	62.3	305	−P	18 05 28.5	1.5			
CD2	64.2	311	eP	18 05 38.2	−1.3			
HHC	64.7	324	eP	18 05 42.0	−0.5			
			LZ	M_S=5.1		26.0	1.63	
BTO	65.4	323	eP	18 05 46.5	−0.9			
			pP	18 05 53.0	−2.9			
			PP	18 08 14.0	1.3			
			eS	18 14 28.0	−1.1			
			LN	M_S=5.0		15.0	0.40	
			LE			15.0	0.30	
LZH	66.8	316	eP	18 05 56.0	−0.2			
			PcP	18 06 24.5	0.6			
			eS	18 14 46.0	0.0			
			SS	18 19 08.0	3.7			
			LZ	M_S=5.0		22.0	1.10	
GTA	71.3	317	eP	18 06 23.4	−0.2			
			LZ	M_S=4.8		22.0	0.62	
LSA	73.6	305	eP	18 06 40.3	2.7			
			SME	m_B=5.4		6.0	0.22	
WMQ	81.3	317	P	18 07 22.0	1.5			
			LZ	M_S=4.9		28.0	0.82	
KSH	88.5	310	eP	18 07 57.0	0.9			
			eS	18 18 45.0	6.2			

OCT 14d 20h 43m 44.5±0.11s, SD1.03/56
54.74 N±2.12km, 159.45 E±1.44km, h142±0.27km
Kamchatka (217)
m_b4.7/6,

MDJ	21.7	254	eP	20 48 25.5	0.7			
CN2	24.5	258	+P	20 48 51.8	−0.4			
			PMZ	m_b=4.5		0.8	0.016	
			epP	20 49 20.0	−0.9			
			sP	20 49 38.0	0.1			
			eS	20 52 59.8	0.1			
SNY	26.8	256	+P	20 49 13.2	−0.5			
BJI	32.2	261	eP	20 50 00.5	−1.1			
TIA	34.3	255	eP	20 50 18.2	−1.5			
			LE			11.5	0.40	
BTO	35.4	267	eP	20 50 29.0	0.1			
			pP	20 51 00.0	0.5			

			eS	20 55 54.0	1.3			
			LN			13.0	0.40	
			LE			13.0	0.40	
TIY	35.9	261	−P	20 50 34.1	0.7			
			eS	20 56 02.5	1.7			
			LN			10.5	0.26	
			LZ			12.0	0.84	
NJ2	36.5	248	+P	20 50 38.0	0.1			
WHN	40.1	252	eP	20 51 08.0	0.1			
LZH	42.0	267	eP	20 51 21.0	−2.9			
			LZ			16.0	0.40	
GTA	42.1	274	eP	20 51 24.4	−0.1			
			ScP	20 56 54.6	2.6			
CD2	45.8	262	P	20 51 53.4	−0.7			
WMQ	46.1	287	P	20 51 57.0	0.5			
			pP	20 52 31.5	3.3			
			sP	20 52 47.5	3.1			
			eS	20 58 31.0	0.1			
			LZ			20.0	0.42	
GYA	47.5	255	P	20 52 08.0	0.3			
			pP	20 52 44.0	4.5			
			S	20 58 50.4	0.6			
KSH	55.5	291	eP	20 53 05.0	−2.4			
			eS	21 00 36.0	−3.9			

OCT 14d 22h 53m 23.0 ± 0.08s, SD1.47 / 53
36.61 N ± 1.89km, 142.41 E ± 1.64km, h32 ± 1.32km
Near east coast of Honshu (228)
M_S4.6 / 17, m_b4.9 / 5,

CN2	14.8	304	eP	22 56 50.0	−2.0			
			eS	22 59 33.0	−2.9			
			LN		M_S = 4.4	12.0	1.00	
			LZ		M_S = 4.2	16.0	1.20	
SNY	15.5	295	eP	22 57 04.2	3.3			
			sP	22 57 16.7	3.9			
			eS	22 59 56.0	4.0			
			LN		M_S = 4.5	13.0	0.71	
			LE			13.0	1.10	
			LZ		M_S = 4.6	15.0	2.52	
NJ2	20.0	264	eP	22 57 55.0	−0.6			
			LZ		M_S = 4.4	15.0	1.18	
TIA	20.3	276	eP	22 58 00.0	0.4			
			LE		M_S = 4.5	12.5	0.80	
BJI	20.8	287	eP	22 58 02.0	−2.7			
			PMZ		m_b = 4.3	1.5	0.021	
			LZ		M_S = 4.2	12.0	0.60	
TIY	23.9	282	eP	22 58 34.5	−0.4			
			sS	23 02 59.5	−0.8			
			LE		M_S = 4.8	15.5	1.50	
			LZ		M_S = 5.0	8.0	1.83	
WHN	24.1	264	eP	22 58 37.5	0.5			
			pP	22 58 49.0	3.2			
			eS	23 02 54.0	4.1			
			LN		M_S = 4.6	11.0	0.51	
			LE			11.0	0.44	
			LZ		M_S = 4.6	14.0	1.19	
HHC	24.4	289	eP	22 58 40.0	0.3			
			LN		M_S = 4.3	12.0	0.37	
BTO	25.5	289	eP	22 58 49.0	−2.0			
			sP	22 59 02.0	−1.7			
			eS	23 03 10.0	−4.4			
			LN		M_S = 4.5	14.0	0.50	
			LE			14.0	0.50	
XAN	27.4	275	P	22 59 07.0	−0.8			
LZH	30.9	281	P	22 59 39.0	−0.8			
			PMZ		m_b = 5.0	1.2	0.034	
			pP	22 59 50.0	1.5			
			sP	22 59 55.0	2.5			

			eS	23 04 43.0	1.9			
			LZ		M_S = 4.7	16.0	1.20	
GYA	31.9	262	P	22 59 47.8	−0.9			
GTA	33.5	288	+P	23 00 02.0	0.2			
			LN		M_S = 4.7	10.0	0.43	
			LZ		M_S = 4.5	12.0	0.60	
KMI	35.7	263	−P	23 00 21.0	−0.1			
			pP	23 00 31.0	1.0			
			S	23 05 55.0	1.0			
			LE		M_S = 4.8	14.0	0.80	
WMQ	41.7	297	P	23 01 14.5	3.2			
KSH	51.3	295	eP	23 02 28.0	0.8			
			eS	23 09 44.0	0.6			

OCT 14d 23h 10m 47.8 ± 0.07s, SD1.38 / 53
39.49 N ± 1.37km, 72.87 E ± 0.93km, h33 ± 0.14km
Tadzhikistan (715)
M_S4.6 / 5, M_L4.9 / 5, m_b4.4 / 3,

KSH	2.4	88	Pn	23 11 28.5	3.5			
			Sn	23 12 02.0	7.9			
			SMN		M_L = 4.9	1.0	9.40	
			SME			0.8	5.60	
WMQ	11.9	64	P	23 13 36.0	−2.6			
			eS	23 15 48.5	−3.1			
			LN		M_S = 4.8	5.0	0.77	
			LE			5.0	1.32	
			LZ		M_S = 4.3	14.0	1.67	
LSA	17.9	117	eP	23 14 58.0	1.2			
GTA	20.8	82	−iP	23 15 28.0	−1.1			
LZH	24.7	88	P	23 16 08.5	1.2			
			pP	23 16 14.5	−1.5			
			eS	23 20 27.0	2.6			
			LN		M_S = 4.6	8.0	0.50	
			LZ		M_S = 4.2	20.0	0.70	
CD2	26.6	99	eP	23 16 24.6	−0.5			
XAN	29.3	89	P	23 16 49.0	−0.5			
TIY	30.8	81	eP	23 17 04.0	0.7			
			S	23 22 07.0	4.3			
			LN		M_S = 4.5	9.0	0.30	
			LZ		M_S = 4.5	20.0	1.00	
TIA	34.8	81	eP	23 17 37.9	−0.4			
WHN	34.9	92	eP	23 17 40.0	1.5			
			pP	23 17 46.0	−1.8			

OCT 15d 01h 46m 19.0 ± 0.09s, SD1.30 / 52
45.79 N ± 2.22km, 150.77 E ± 1.20km, h102 ± 1.58km
Kurile Islands (221)
m_b5.1 / 5,

MDJ	15.0	273	eP	01 49 47.2	0.6			
CN2	18.1	273	+P	01 50 23.0	−1.8			
SNY	20.0	268	eP	01 50 45.0	−0.7			
HHC	28.7	274	P	01 52 09.6	0.2			
TIY	29.5	268	eP	01 52 16.2	0.1			
BTO	29.9	275	eP	01 52 20.1	0.2			
WHN	32.1	254	eP	01 52 39.0	0.0			
XAN	33.8	265	P	01 52 53.2	−0.6			
LZH	36.3	271	+P	01 53 14.5	−0.5			
			PMZ		m_b = 5.1	1.4	0.044	
GTA	37.5	279	+iP	01 53 25.8	0.6			
CD2	39.2	264	P	01 53 38.2	−0.7			
GYA	39.9	256	P	01 53 45.4	0.3			
WMQ	43.7	291	P	01 54 16.5	0.0			

OCT 15d 06h 57m 10.0 ± 0.12s, SD2.05 / 59
32.25 N ± 1.87km, 129.58 E ± 2.15km, h4 ± 0.91km
Kyushu (235)
M_S4.7 / 29, M_L4.7 / 3, m_b4.6 / 6,

SSE	7.3	263	P	06 58 58.0	−1.4			

			SMN		$M_L=4.8$		1.0	0.47
			SME				1.0	0.30
			LN		$M_S=4.4$		10.0	2.56
			LE				10.0	1.93
			LZ		$M_S=4.5$		12.0	3.35
NJ2	9.1	272	-P	06 59 23.0		-2.2		
			LN		$M_S=4.5$		8.0	1.49
			LE				10.0	1.44
			LZ		$M_S=4.2$		11.0	1.56
SNY	10.7	335	eP	06 59 49.4		2.3		
			pP	06 59 55.0		4.0		
			S	07 01 53.0		4.9		
			LN		$M_S=4.9$		7.0	1.69
			LE				7.0	3.09
			LZ		$M_S=4.9$		9.0	5.08
TIA	11.0	294	eP	06 59 55.5		3.5		
			eS	07 01 52.0		-5.1		
			LN		$M_S=4.7$		13.0	3.55
			LE				13.0	1.70
			LZ		$M_S=4.5$		11.0	2.13
CN2	12.0	345	eP	07 00 06.7		2.0		
			sP	07 00 15.0		3.4		
			eS	07 02 19.0		-1.0		
			LN		$M_S=4.9$		7.5	2.80
			LZ		$M_S=4.7$		12.0	3.90
QZH	12.1	236	eP	07 00 06.5		0.3		
			LN		$M_S=4.4$		11.0	1.52
			LZ		$M_S=4.2$		10.0	0.89
MDJ	12.3	0	eP	07 00 08.0		-1.6		
			LE		$M_S=4.2$		14.0	1.05
			LZ		$M_S=3.9$		20.0	0.88
WHN	13.1	267	+P	07 00 21.5		1.4		
			sP	07 00 32.0		4.9		
			LN		$M_S=4.9$		9.0	2.75
			LE				11.0	2.29
			LZ		$M_S=4.6$		12.0	2.55
BJI	13.3	309	eP	07 00 24.0		1.3		
			PMZ		$m_b=4.9$		2.0	0.055
			LN		$M_S=4.7$		16.0	3.13
			LZ		$M_S=4.4$		14.0	1.76
TIY	15.1	296	-iP	07 00 49.6		3.8		
			SS	07 03 53.0		2.3		
			LN		$M_S=4.7$		13.0	2.08
			LZ		$M_S=5.2$		10.0	7.61
HHC	16.8	306	P	07 01 10.6		2.5		
			LN		$M_S=4.6$		13.0	1.30
			LE				12.0	0.97
			LZ		$M_S=4.3$		14.0	1.18
XAN	17.4	281	+P	07 01 15.0		-0.5		
			LN		$M_S=4.9$		15.0	3.31
GYA	20.8	260	+P	07 01 58.0		3.0		
			PMZ		$m_b=5.1$		1.2	0.11
			sP	07 02 06.0		3.8		
			S	07 05 48.0		6.2		
			LN		$M_S=4.7$		14.0	1.30
			LE				14.0	0.80
LZH	21.6	287	eP	07 02 01.0		-2.6		
			pP	07 02 04.0		-3.8		
			eS	07 05 55.5		-3.4		
			LN		$M_S=4.8$		10.0	0.60
			LE				11.0	1.10
			LZ		$M_S=4.7$		12.0	1.60
CD2	22.0	273	P	07 02 07.0		-0.6		
			eS	07 06 11.0		4.6		
			LN		$M_S=5.3$		11.0	4.34
			LZ		$M_S=4.6$		12.0	1.20
KMI	24.6	260	+P	07 02 31.5		-1.0		
			pP	07 02 37.5		0.8		
			sP	07 02 43.5		4.0		
			S	07 06 48.0		-2.2		
			LZ		$M_S=4.8$		12.0	1.60
GTA	25.1	295	eP	07 02 35.4		-2.2		
			sS	07 07 10.0		2.6		
			LN		$M_S=4.8$		10.5	1.07
			LZ		$M_S=4.6$		10.0	0.96
WMQ	34.6	302	P	07 04 01.5		-1.1		
			sP	07 04 12.5		2.7		
			eS	07 09 27.5		-4.4		
			LZ		$M_S=4.4$		16.0	0.60
KSH	43.5	295	eP	07 05 19.0		2.0		

OCT 15d 08h 06m 16.2 ± 0.10s, SD1.20 / 86
55.59 N ± 2.47km, 164.14 E ± 1.43km, h33 ± 0.14km
Off east coast of Kamchatka (219)
M_S5.1 / 21, m_b5.0 / 14,

MDJ	24.5	258	eP	08 11 33.3		-0.4		
			sP	08 11 47.2		0.6		
			S	08 15 50.0		1.5		
			LE		$M_S=4.8$		18.0	1.97
			LZ		$M_S=4.6$		20.0	2.04
CN2	27.3	261	eP	08 11 58.0		-2.2		
SNY	29.6	259	-P	08 12 20.1		-0.9		
			pP	08 12 30.0		-0.2		
			eS	08 17 17.0		3.8		
			LZ		$M_S=4.8$		18.0	2.13
DL2	32.7	257	eP	08 12 47.0		-1.2		
BJI	35.0	264	eP	08 13 07.0		-0.8		
			PMZ		$m_b=4.7$		1.0	0.013
			LN		$M_S=5.0$		14.0	1.29
			LZ		$M_S=4.8$		16.0	1.46
HHC	37.1	269	P	08 13 25.0		-0.5		
TIA	37.1	259	eP	08 13 24.5		-1.6		
BTO	38.1	270	eP	08 13 34.0		-0.3		
			pP	08 13 44.5		1.1		
			S	08 19 24.0		0.2		
			LN		$M_S=5.3$		14.0	1.60
			LE				14.0	1.00
TIY	38.7	265	-iP	08 13 39.7		0.5		
			eS	08 19 29.0		-5.1		
			LN		$M_S=5.2$		14.0	1.46
			LZ		$M_S=5.0$		18.0	1.95
SSE	38.8	249	eP	08 13 40.0		0.2		
			LN		$M_S=4.9$		10.0	0.34
			LE				10.0	0.45
			LZ		$M_S=4.4$		20.0	0.56
NJ2	39.3	252	eP	08 13 44.0		0.0		
			eS	08 19 45.0		2.2		
			LN		$M_S=5.1$		14.0	1.03
			LE				15.0	0.66
WHN	42.9	255	eP	08 14 13.6		-0.3		
			sP	08 14 26.0		-1.2		
XAN	43.3	264	+P	08 14 16.3		-1.0		
GTA	44.7	277	eP	08 14 28.2		-0.2		
			LN		$M_S=5.1$		14.0	1.00
			LZ		$M_S=4.9$		18.0	1.47
LZH	44.7	270	+P	08 14 28.0		-0.7		
			PMZ		$m_b=5.2$		1.2	0.048
			LN		$M_S=5.4$		16.0	2.10
			LE				16.0	1.50
			LZ		$M_S=5.0$		18.0	1.80
WMQ	48.4	290	+P	08 14 58.5		1.0		
			pP	08 15 10,0		3.3		
			eS	08 21 57.5		2.5		
			LN		$M_S=5.6$		17.0	2.86
			LE				17.0	1.80
			LZ		$M_S=5.1$		16.0	1.53

CD2	48.6	265	eP	08 15 01.2	2.4			
GYA	50.3	259	−P	08 15 13.0	0.5			
			S	08 22 23.0	2.1			
			LN	M_S = 5.3		20.0	1.20	
			LE			20.0	1.20	
KMI	53.6	262	+P	08 15 37.5	0.6			
QZN	54.5	251	P	08 15 47.0	3.2			
LSA	56.6	275	eP	08 16 01.0	1.7			
KSH	57.6	294	eP	08 16 06.0	−0.2			
			eS	08 23 59.0	−2.0			
			LE	M_S = 5.5		14.0	1.50	

OCT 15d 08h 23m 19.6 ± 0.28s, SD1.27 / 29
54.18 N ± 4.35km, 170.79 E ± 3.05km, h38 ± 0.36km
Near Islands (5)
m_b5.0 / 2,

CN2	31.0	269	+P	08 29 34.8	−1.5			
WHN	46.4	263	+P	08 31 46.0	1.1			
			PMZ	m_b = 5.2		0.8	0.030	
GTA	48.7	283	P	08 32 03.2	0.2			
WMQ	52.5	295	eP	08 32 29.8	−1.7			
GYA	54.0	266	P	08 32 41.8	−0.8			

OCT 15d 10h 05m 04.5 ± 0.15s, SD1.77 / 25
60.31 S ± 2.09km, 150.81 E ± 4.30km, h6 ± 0.42km
West of Macquarie Island (701)
M_S5.9 / 8,

QZN	85.7	322	+P	10 17 47.5	0.9			
			eS	10 28 13.0	−5.9			
			LN	M_S = 6.1		22.0	3.30	
			LE			22.5	4.00	
GZH	88.5	326	eP	10 18 00.0	−0.2			
			S	10 28 47.0	3.3			
			LN	M_S = 6.1		25.0	6.30	
			LZ	M_S = 5.9		18.0	4.10	
QZH	88.9	331	eP	10 18 02.0	−0.2			
			eSKS	10 28 30.0	1.0			
			LZ	M_S = 5.5		25.0	2.21	
GYA	93.7	321	P	10 18 25.0	0.7			
			SKS	10 28 59.0	2.4			
			LN	M_S = 6.1		22.0	4.60	
			LZ	M_S = 5.4		40.0	2.90	
KMI	93.7	317	−P	10 18 25.0	0.5			
			sP	10 18 36.0	4.6			
			SKS	10 29 00.0	3.3			
			S	10 29 35.0	5.1			
			LN	M_S = 5.9		20.0	2.60	
			LZ	M_S = 5.8		20.0	3.40	
SSE	94.3	335	eP	10 18 26.0	−0.9			
			SKS	10 28 56.0	−3.8			
			S	10 29 30.0	−4.8			
			LN	M_S = 5.6		14.0	1.01	
			LZ	M_S = 5.6		20.0	2.33	
WHN	95.3	329	eP	10 18 33.0	1.2			
			sP	10 18 42.0	3.0			
			S	10 29 40.0	−3.9			
			SS	10 36 16.0	1.2			
			LZ	M_S = 5.4		20.0	1.25	
DL2	101.7	337	eP	10 19 04.0	3.3			
			eS	10 30 36.0	−3.4			
			LZ	M_S = 5.5		22.0	1.57	
BJI	104.0	333	P	10 19 13.0	2.4			
			eSKS	10 29 47.0	−1.6			
			eS	10 31 00.0	2.0			
			eSS	10 38 10.0	−4.4			
			LZ	M_S = 5.8		24.0	3.50	

OCT 15d 14h 36m 03.9 ± 0.09s, SD1.84 / 30
22.07 N ± 1.58km, 101.68 E ± 1.48km, h8 ± 1.89km
Burma–China border region (297)
M_S4.4 / 6, M_L4.4 / 5,

GYA	6.3	45	Pn	14 37 40.0	2.3			
			Sn	14 38 52.4	0.3			
			SMN	M_L = 4.7		1.4	0.45	
			SME			1.4	0.45	
			LN	M_S = 4.5		6.0	2.10	
			LE			6.0	2.20	
CD2	9.0	12	eP	14 38 17.6	0.2			
			LE	M_S = 4.3		10.0	1.74	
XAN	13.5	27	P	14 39 18.0	−0.9			
WHN	14.1	51	+P	14 39 30.2	3.2			
			pP	14 39 34.5	3.2			
			LN	M_S = 3.9		20.0	0.63	
GTA	17.4	355	eP	14 40 10.8	2.2			
TIY	18.1	28	eP	14 40 17.6	−0.7			
			eS	14 43 38.0	−0.5			
			LN	M_S = 4.5		12.0	0.73	
			LE			12.0	0.72	
NJ2	18.2	53	eP	14 40 21.5	2.3			
BTO	19.8	19	eP	14 40 36.1	−1.7			
			sP	14 40 43.0	−2.6			
			eS	14 44 10.5	−4.9			
			LN	M_S = 4.5		12.0	0.80	
			LE			13.0	0.50	
HHC	20.5	22	eP	14 40 45.0	−0.6			
BJI	21.7	31	eP	14 40 58.5	0.4			
WMQ	24.6	335	eP	14 41 28.2	2.2			

OCT 15d 21h 12m 03.9 ± 0.10s, SD1.74 / 92
19.28 N ± 1.84km, 121.06 E ± 1.87km, h25 ± 0.70km
Luzon (249)
M_S4.7 / 45, M_L4.6 / 5, m_b5.1 / 15,

QZH	6.1	338	P	21 13 32.5	−2.1			
			SMN	M_L = 4.4		0.3	0.15	
			SME			0.5	0.32	
			LN	M_S = 4.1		10.0	1.88	
			LZ	M_S = 4.3		18.0	4.60	
GZH	8.1	299	−iP	21 13 59.2	−4.2			
			LN	M_S = 4.6		14.0	2.70	
			LE			15.0	4.70	
QZN	10.6	270	−iP	21 14 34.8	−2.8			
			LE	M_S = 4.6		15.0	3.70	
SSE	11.8	1	eP	21 14 54.0	0.7			
			S	21 17 05.0	0.5			
			SMN			1.0	0.030	
			SME			1.0	0.028	
			LE	M_S = 4.2		7.0	0.60	
			LZ	M_S = 4.3		22.0	2.41	
WHN	12.8	333	+iP	21 15 04.0	−2.7			
			PMZ	m_b = 5.5		0.7	0.060	
			pP	21 15 09.0	−3.9			
			eS	21 17 31.0	2.1			
			LN	M_S = 4.5		14.0	2.29	
			LZ	M_S = 4.5		18.0	3.16	
NJ2	12.9	352	−P	21 15 05.6	−2.6			
			eS	21 17 31.0	−0.7			
			LN	M_S = 4.5		14.0	1.23	
			LE			13.0	1.56	
			LZ	M_S = 4.4		18.0	2.39	
GYA	15.1	301	P	21 15 36.0	−1.2			
			S	21 18 21.8	−1.6			
			LN	M_S = 4.8		12.0	1.60	
			LE			12.0	2.10	
			LZ	M_S = 4.5		16.0	2.10	
TIA	17.2	349	eP	21 16 07.7	3.1			
			LE	M_S = 4.5		14.0	1.33	

			LZ		$M_S=4.6$		15.0	2.04
KMI	17.9	292	−P	21 16 14.0		0.3		
			pP	21 16 25.0		4.9		
			sP	21 16 27.5		3.3		
			eS	21 19 36.0		5.4		
			LE		$M_S=5.0$		14.0	3.50
XAN	18.2	326	P	21 16 18.0		0.6		
			S	21 19 38.0		1.4		
			LN		$M_S=4.7$		15.0	2.15
			LZ		$M_S=4.1$		12.0	0.52
CD2	19.5	310	−iP	21 16 31.4		−0.4		
			S	21 20 07.0		3.2		
			LE		$M_S=5.0$		13.0	2.72
			LZ		$M_S=4.7$		16.0	2.50
DL2	19.6	1	eP	21 16 36.0		3.1		
			sP	21 16 48.5		4.6		
			eS	21 20 10.0		3.0		
TIY	19.8	339	eP	21 16 37.0		0.8		
			sP	21 16 48.5		1.3		
			S	21 20 19.0		6.4		
			LN		$M_S=4.9$		16.0	2.71
			LZ		$M_S=4.9$		17.0	3.96
BJI	21.1	350	−P	21 16 50.0		0.7		
			PMZ		$m_b=5.1$		1.0	0.098
			eS	21 20 42.0		3.8		
			LN		$M_S=4.7$		16.0	1.45
			LZ		$M_S=4.6$		16.0	2.04
SNY	22.6	5	+P	21 17 04.2		0.3		
			S	21 21 07.0		2.4		
			LN		$M_S=4.7$		16.0	1.06
			LE				11.0	0.86
			LZ		$M_S=4.6$		15.0	1.46
LZH	22.6	321	−P	21 17 05.5		1.3		
			PMZ		$m_b=5.2$		1.0	0.10
			PP	21 17 34.0		2.3		
			LN		$M_S=4.9$		16.0	2.00
			LE				16.0	1.40
			LZ		$M_S=4.8$		17.0	3.10
HHC	23.0	341	P	21 17 10.0		1.9		
			sP	21 17 22.0		2.8		
			LN		$M_S=5.1$		16.0	3.21
			LE				18.0	2.16
			LZ		$M_S=4.8$		18.0	3.19
BTO	23.3	338	eP	21 17 12.2		1.4		
			pP	21 17 21.5		3.2		
			eS	21 21 20.0		2.2		
			LN		$M_S=4.9$		16.0	1.70
			LE				16.0	1.40
			LZ		$M_S=4.5$		16.0	1.30
CN2	24.7	8	eP	21 17 24.6		−0.3		
			PMZ		$m_b=4.5$		1.0	0.020
			eS	21 21 44.0		1.2		
			LE		$M_S=4.7$		13.0	1.00
			LZ		$M_S=4.6$		18.0	1.60
MDJ	26.2	14	eP	21 17 38.0		−1.2		
			LE		$M_S=4.9$		20.0	2.15
			LZ		$M_S=4.4$		22.0	1.14
GTA	27.2	322	eP	21 17 48.2		0.2		
			S	21 22 22.0		−0.6		
			LN		$M_S=4.5$		14.0	0.55
			LZ		$M_S=4.6$		16.0	1.28
LSA	29.1	297	P	21 18 06.7		1.5		
WMQ	37.1	319	P	21 19 16.5		1.9		
			pP	21 19 25.0		2.6		
			sP	21 19 28.5		2.5		
			PcP	21 21 32.5		−2.0		
			eS	21 25 00.0		0.9		
			LN		$M_S=5.1$		14.0	0.94
			LE				15.0	1.19
			LZ		$M_S=4.9$		16.0	1.67
KSH	43.7	307	eP	21 20 11.0		2.0		
			eS	21 26 39.0		1.8		
			LE		$M_S=5.3$		12.0	1.50

OCT 15d 23h 40m 34.6 ± 0.09s, SD0.95 / 49
0.43 S ± 2.40km, 82.45 E ± 1.35km, h12 ± 0.42km
South Indian Ocean (425)
M_S4.8 / 3, m_b5.1 / 4,

LSA	31.1	15	P	23 46 58.0		2.1		
KMI	32.1	36	−P	23 47 05.0		0.4		
QZN	33.1	53	eP	23 47 13.4		0.2		
GYA	35.5	39	P	23 47 33.6		−0.1		
			S	23 53 07.0		−0.2		
CD2	37.2	31	P	23 47 46.6		−1.2		
			eS	23 53 29.5		−4.5		
KSH	40.2	352	P	23 48 13.6		0.4		
			eS	23 54 20.0		−0.1		
			LE		$M_S=5.1$		12.0	1.10
LZH	41.4	27	−P	23 48 23.0		−0.4		
			PMZ		$m_b=4.7$		1.4	0.018
			sP	23 48 30.0		−1.9		
GTA	42.7	20	eP	23 48 33.8		−0.2		
WMQ	44.3	5	−iP	23 48 47.0		0.3		
			PP	23 50 29.0		−1.9		
			eS	23 55 18.0		−2.3		
			ScS	23 58 42.5		0.8		
TIY	47.0	33	eP	23 49 07.5		−0.4		
			S	23 55 53.0		−4.4		
			LN		$M_S=4.8$		16.0	0.54
			LZ		$M_S=4.8$		14.0	0.71
BTO	47.9	28	eP	23 49 14.5		−1.0		
HHC	48.9	29	eP	23 49 21.0		−1.8		
BJI	50.7	33	eP	23 49 36.5		0.0		

OCT 16d 09h 25m 16.6 ± 0.10s, SD2.52 / 25
36.05 N ± 1.15km, 103.70 E ± 1.06km, h5 ± km
Gansu Province (322)
M_S3.5 / 1, M_L4.1 / 16,

LZH	0.1	75	Pg	09 25 19.5		0.4		
			Sg	09 25 22.0		1.3		
GTA	4.5	319	iPn	09 26 26.8		0.3		
			Pg	09 26 42.0		5.1		
			Sn	09 27 20.0		−1.8		
			Sg	09 27 42.0		3.0		
			SMN		$M_L=3.7$		0.8	0.13
			SME				0.7	0.094
			LN		$M_S=3.5$		7.0	0.54
XAN	4.7	114	Pn	09 26 28.3		−0.7		
			Pg	09 26 42.3		2.2		
			Sn	09 27 20.4		−6.0		
			Sg	09 27 44.0		−0.9		
			SMN		$M_L=4.0$		1.0	0.25
			SME				1.0	0.14
CD2	5.1	179	ePn	09 26 38.6		4.2		
			Sg	09 27 58.4		1.1		
			SMN		$M_L=3.5$		1.0	0.050
			SME				1.2	0.050
BTO	6.7	46	Pg	09 27 21.1		5.5		
			Sg	09 28 49.4		2.1		
			SMN		$M_L=3.6$		0.8	0.030
			SME				0.8	0.030
TIY	7.2	74	ePn	09 27 05.5		2.6		
			Pg	09 27 25.5		1.9		
			Sg	09 28 57.2		−4.8		
			SMN		$M_L=4.2$		0.6	0.13
			SME				0.6	0.080

HHC	7.8	50	ePn	09 27 14.0	2.7			
			Pg	09 27 38.9	4.5			
			Sg	09 29 24.6	3.4			
			SMN	$M_L = 4.3$		0.6	0.059	
			SME			0.6	0.14	
GYA	9.9	164	eP	09 27 46.4	3.5			
			S	09 29 35.4	0.2			
			SMN			1.6	0.080	
			SME			1.6	0.080	
WMQ	14.5	307	P	09 28 43.4	−1.4			

OCT 16d 14h 26m 38.7 ± 0.26s, SD2.60 / 8
36.18 N ± 0.61km, 82.87 E ± 0.95km, h19 ± 1.97km
Tibet (306)
m_L3.8 / 4,

KSH	6.4	303	Pg	14 28 31.4	−1.1			
			Sg	14 29 53.5	−6.7			

OCT 16d 14h 45m 36.7 ± 0.06s, SD1.19 / 50
22.23 S ± 2.78km, 171.37 E ± 2.18km, h85 ± 0.59km
Loyalty Islands region (189)
m_b5.1 / 6,

NJ2	73.7	315	−P	14 57 03.5	−0.5			
WHN	75.8	312	eP	14 57 15.5	−0.5			
DL2	76.6	322	eP	14 57 20.5	0.1			
			PMZ	$m_b = 5.6$		1.0	0.10	
MDJ	76.7	331	eP	14 57 20.0	−1.0			
CN2	78.0	328	+P	14 57 27.7	−0.7			
GYA	79.2	304	+P	14 57 34.6	−0.1			
BJI	80.5	320	eP	14 57 41.5	−0.3			
TIY	81.4	317	+P	14 57 46.0	−0.5			
KMI	81.5	301	+P	14 57 48.0	0.5			
HHC	83.8	319	eP	14 57 59.0	0.2			
BTO	84.6	318	eP	14 58 03.0	0.2			
GTA	90.6	313	eP	14 58 31.6	−0.3			

OCT 16d 18h 13m 46.0 ± 0.10s, SD2.21 / 22
8.03 S ± 1.57km, 118.86 E ± 2.77km, h33 ± 0.14km
Sumbawa region (285)

WHN	38.6	354	+iP	18 21 11.5	3.5			
TIY	45.9	353	eP	18 22 11.6	3.8			
LSA	46.0	326	P	18 22 09.4	0.2			
GTA	50.4	341	eP	18 22 41.6	−1.2			
MDJ	53.3	10	eP	18 23 01.2	−3.2			
WMQ	58.8	334	P	18 23 42.5	−1.7			

OCT 17d 11h 35m 12.4 ± 0.16s, SD2.58 / 33
24.20 N ± 2.43km, 123.44 E ± 2.16km, h29 ± 0.84km
Taiwan region (243)
M_S4.3 / 2, M_L3.8 / 8, m_b4.4 / 1,

QZH	4.5	281	ePn	11 36 19.0	0.2			
			Sn	11 37 06.3	−5.4			
			SMN	$M_L = 3.9$		1.0	0.23	
			SME			1.0	0.13	
NJ2	8.8	334	+P	11 37 23.6	2.6			
			S	11 38 56.0	−4.1			
			SMN	$M_L = 4.2$		0.8	0.034	
			SME			1.0	0.057	
WHN	10.3	310	eP	11 37 40.5	−0.4			
DL2	14.7	354	eP	11 38 42.0	0.9			
			LZ	$M_S = 3.8$		12.0	0.38	
XAN	16.0	311	P	11 38 59.6	2.0			
TIY	16.4	328	+iP	11 39 02.6	−0.3			
			eS	11 42 02.9	−1.1			
			LN	$M_S = 4.1$		9.0	0.36	
BJI	16.9	341	eP	11 39 09.0	−0.2			
SNY	17.6	0	eP	11 39 21.0	3.7			
			LN	$M_S = 4.4$		12.0	0.90	
			LZ	$M_S = 4.3$		13.0	0.89	
CD2	18.7	295	eP	11 39 28.8	−2.1			
CN2	19.6	4	eP	11 39 42.0	0.3			
			eS	11 43 15.0	−1.5			
			LZ	$M_S = 4.5$		12.0	1.10	
BTO	19.9	329	eP	11 39 42.5	−1.9			
GTA	25.1	313	eP	11 40 32.6	−3.8			

OCT 17d 11h 53m 13.5 ± 0.05s, SD0.92 / 56
32.24 N ± 1.03km, 137.99 E ± 1.07km, h374 ± 1.22km
South of Honshu (211)
m_b4.8 / 6,

MDJ	14.0	334	eP	11 56 18.0	−1.0			
DL2	14.9	301	eP	11 56 28.0	−0.4			
SNY	14.9	314	−iP	11 56 29.0	−0.2			
CN2	15.2	323	−P	11 56 30.8	−0.7			
BJI	19.2	300	eP	11 57 12.5	−0.2			
			eS	12 00 28.0	1.7			
WHN	20.2	271	eP	11 57 24.0	1.3			
TIY	21.6	292	−iP	11 57 36.6	0.7			
			PMZ	$m_b = 5.2$		0.8	0.080	
			ScP	12 04 20.0	−3.8			
			LN			12.0	0.58	
			LZ			13.0	1.20	
HHC	22.8	300	−P	11 57 47.8	0.4			
BTO	23.9	298	P	11 57 57.5	0.1			
XAN	24.4	282	P	11 58 01.0	−0.4			
GYA	27.8	266	P	11 58 32.4	−0.2			
LZH	28.4	287	eP	11 58 36.5	−1.3			
			PMZ	$m_b = 4.4$		1.5	0.027	
GTA	31.6	294	−iP	11 59 04.6	−0.6			
WMQ	40.7	301	P	12 00 21.8	0.7			
KSH	49.9	297	eP	12 01 34.5	1.0			

OCT 17d 12h 06m 29.3 ± 0.09s, SD2.19 / 23
23.97 N ± 2.94km, 122.64 E ± 2.68km, h23 ± 3.02km
Taiwan region (243)
M_S4.1 / 3, M_L4.1 / 8, m_b4.6 / 3,

QZH	3.8	285	Pn	12 07 26.8	−0.4			
			Sn	12 08 07.0	−6.1			
			SMN	$M_L = 4.0$		1.0	0.38	
			SME			1.0	0.26	
SSE	7.2	350	−P	12 08 14.8	−1.4			
			PMZ	$m_b = 5.0$		0.5	0.047	
			pP	12 08 19.7	−2.6			
			SMN	$M_L = 3.9$		1.0	0.030	
			SME			1.0	0.057	
			LE	$M_S = 3.8$		8.0	0.64	
			LZ	$M_S = 3.7$		16.0	0.80	
NJ2	8.7	338	eP	12 08 36.0	−1.2			
			eS	12 10 11.0	−4.6			
			LN	$M_S = 4.4$		5.0	0.64	
			LE			5.0	1.00	
WHN	9.9	313	eP	12 08 51.0	−2.0			
			pP	12 08 57.0	−2.3			
			eS	12 10 40.5	−3.5			
			SME			1.0	0.040	
GYA	14.7	283	eP	12 09 56.8	−1.0			
			S	12 12 41.0	1.0			
			SMN			1.8	0.15	
			SME			1.5	0.080	
TIY	16.2	330	eP	12 10 22.3	4.3			
BJI	16.9	343	eP	12 10 29.0	2.5			
CD2	18.1	297	eP	12 10 40.0	−1.5			
GTA	24.7	314	eP	12 11 50.4	0.0			

OCT 17d 16h 27m 52.5 ± 0.12s, SD1.30 / 91
4.03 S ± 1.58km, 152.44 E ± 2.54km, h25 ± 0.68km

(192)

New Britain region
M_S5.9 / 38, m_B6.0 / 19, m_b5.5 / 17,

QZH	43.7	313	eP	16 35 58.5	0.8			
			S	16 42 24.0	−1.2			
			LZ		M_S=5.6		20.0	6.89
SSE	45.9	322	P	16 36 15.8	0.4			
			PMZ		m_b=5.7		1.5	0.15
			PMZ		m_B=6.0		6.0	1.39
			S	16 42 59.0	2.1			
			SS	16 46 12.0	−2.0			
			LN		M_S=5.6		11.0	1.37
			LE				12.0	2.11
			LZ		M_S=5.5		20.0	5.12
GZH	46.7	307	P	16 36 24.0	2.4			
			S	16 43 12.0	3.8			
			LN		M_S=6.0		12.0	1.90
			LE				16.0	7.00
			LZ		M_S=5.7		23.0	9.70
QZN	47.8	300	+P	16 36 33.0	3.0			
			PP	16 38 20.0	−0.4			
			S	16 43 29.5	6.2			
			LN		M_S=6.1		23.0	11.2
			LE				21.0	8.90
NJ2	48.0	321	−P	16 36 33.5	1.5			
			S	16 43 30.0	3.2			
			LZ		M_S=5.7		20.0	7.94
WHN	50.0	316	−P	16 36 48.8	1.1			
			PMZ		m_b=5.5		1.5	0.090
			PMZ		m_B=6.0		7.0	1.37
			pP	16 36 55.5	−0.2			
			eS	16 43 50.0	−6.2			
			LN		M_S=6.0		15.0	5.80
			LE				13.0	3.63
			LZ		M_S=5.7		22.0	7.80
DL2	51.3	329	eP	16 36 58.0	0.7			
			PMZ		m_b=5.9		1.5	0.23
			pP	16 37 03.0	−2.4			
			sP	16 37 05.0	−3.9			
			S	16 44 14.0	1.2			
			SME		m_B=6.1		6.0	1.66
			LE		M_S=5.8		17.0	5.39
			LZ		M_S=5.6		22.0	6.03
TIA	51.9	324	eP	16 37 00.5	−1.0			
			eS	16 44 23.0	1.4			
			LZ		M_S=5.5		34.0	7.87
MDJ	52.6	340	eP	16 37 06.5	−0.2			
			S	16 44 32.0	2.1			
			LZ		M_S=5.6		25.0	6.64
SNY	52.7	333	+iP	16 37 06.0	−1.3			
			PMZ		m_B=6.0		6.0	1.19
			iS	16 44 33.0	0.9			
			LN		M_S=5.9		17.5	5.80
			LE				12.0	1.11
			LZ		M_S=5.7		26.0	10.2
CN2	53.4	336	+P	16 37 11.6	−1.7			
			PMZ		m_b=5.5		1.4	0.10
			epP	16 37 21.0	−0.4			
			PcP	16 38 21.2	1.8			
			S	16 44 40.0	−1.8			
			SMN		m_B=6.0		9.0	0.90
			SME				9.0	1.50
			iSS	16 48 23.0	1.8			
			LN		M_S=5.9		16.0	5.40
			LZ		M_S=5.8		20.0	9.70
GYA	53.6	307	P	16 37 14.8	0.0			
			PMZ		m_B=6.0		4.0	0.74
			sP	16 37 22.2	−4.1			
			S	16 44 45.0	0.6			
			LN		M_S=6.1		20.0	5.20
			LE				20.0	8.10
			LZ		M_S=5.6		20.0	5.20
BJI	55.1	326	eP	16 37 24.5	−0.5			
			PMZ		m_b=5.6		2.0	0.17
			PMZ		m_B=6.0		6.0	1.14
			eS	16 45 06.0	1.5			
			eSS	16 48 48.0	1.1			
			LN		M_S=5.7		18.0	4.00
			LZ		M_S=5.8		24.0	10.5
TIY	55.7	322	eP	16 37 30.2	0.4			
			S	16 45 16.5	4.4			
			LN		M_S=6.0		17.0	6.42
			LZ		M_S=5.9		20.0	10.5
XAN	55.8	316	P	16 37 29.0	−1.6			
KMI	56.3	304	+P	16 37 34.5	0.6			
			pP	16 37 42.0	0.1			
			sP	16 37 46.0	0.7			
			PP	16 39 43.0	3.2			
			LE		M_S=5.9		17.0	4.80
			LZ		M_S=6.0		20.0	13.0
CD2	58.0	310	eP	16 37 44.0	−1.9			
			S	16 45 45.0	3.1			
			SMN		m_B=6.0		8.0	1.79
			LN		M_S=6.1		18.0	7.56
			LZ		M_S=5.7		20.0	5.84
HHC	58.2	324	+P	16 37 48.2	0.5			
			S	16 45 52.0	6.8			
			LN		M_S=5.9		15.0	3.22
			LE				18.0	3.01
			LZ		M_S=5.8		28.0	11.6
BTO	59.0	323	P	16 37 52.0	−1.0			
			pP	16 37 59.0	−2.0			
			S	16 45 54.5	−0.5			
			LN		M_S=5.9		17.0	2.90
			LE				17.0	3.90
			LZ		M_S=5.5		20.0	3.40
LZH	60.4	316	eP	16 38 02.5	−0.6			
			PMZ		m_b=6.0		1.5	0.31
			PMZ		m_B=6.0		7.0	1.49
			PcP	16 38 44.0	−2.6			
			PcS	16 42 50.0	2.4			
			eS	16 46 18.0	2.6			
			sS	16 46 30.0	1.4			
GTA	64.8	317	P	16 38 32.0	−0.4			
			sP	16 38 42.5	−1.5			
			S	16 47 15.0	5.7			
			LN		M_S=5.8		16.0	3.36
			LZ		M_S=5.6		20.0	4.45
LSA	67.5	304	+P	16 38 51.6	1.9			
			pP	16 38 57.0	−0.4			
			sP	16 39 03.0	2.1			
			PP	16 41 22.0	3.0			
			iS	16 47 50.0	6.2			
			SME		m_B=5.8		6.0	0.60
WMQ	74.9	317	P	16 39 34.5	0.5			
			PMZ		m_B=6.1		4.0	1.02
			S	16 49 12.0	4.6			
			SKS	16 49 39.0	4.0			
			ScS	16 49 44.0	4.3			
			LN		M_S=6.0		22.0	4.83
			LZ		M_S=5.7		22.0	4.68
KSH	82.2	311	P	16 40 17.0	3.1			
			sP	16 40 24.0	−1.2			
			PP	16 43 28.0	4.9			
			LE		M_S=6.1		20.0	5.50

OCT 18d 00h 04m 14.6 ± 0.13s, SD1.48 / 108

37.11 N ± 2.25km, 121.81 W ± 1.70km, h13 ± 0.93km
Central California (39)
M_S7.1 / 47, m_B7.1 / 37, m_b6.3 / 16,

MDJ	76.2	316	eP	00 16 03.0	−2.3			
			pP	00 16 10.0	−1.1			
			S	00 25 48.0	1.2			
			SMN	m_B = 7.1		12.0	18.8	
			LN	M_S = 7.0		17.0	41.9	
			LZ	M_S = 6.8		24.0	58.9	
CN2	79.0	317	+P	00 16 20.0	−0.8			
			PMZ	m_b = 6.3		2.0	0.72	
			PMZ	m_B = 6.9		7.0	9.80	
			epP	00 16 25.0	−1.7			
			iPP	00 19 18.0	−2.5			
			PPMZ			8.0	5.70	
			iS	00 26 20.0	1.3			
			SMN	m_B = 7.2		11.1	17.0	
			SME			14.3	14.2	
			iSS	00 31 29.0	3.6			
			LN	M_S = 7.1		17.0	37.1	
			LE			17.0	38.4	
			LZ	M_S = 6.9		20.0	55.2	
SNY	81.4	317	+iP	00 16 33.0	−0.3			
			PMZ	m_b = 6.3		1.1	0.35	
			PMZ	m_B = 7.1		9.0	17.6	
			pP	00 16 40.0	0.8			
			PP	00 19 38.0	−2.4			
			iS	00 26 43.0	−0.1			
			SMN			12.5	20.5	
			SME			12.0	23.1	
			SS	00 32 03.0	2.5			
			LN	M_S = 7.1		20.0	34.6	
			LE			14.0	34.4	
			LZ	M_S = 6.9		19.0	53.7	
DL2	84.4	315	P	00 16 49.0	−0.2			
			S	00 27 12.0	−0.7			
			LN	M_S = 7.1		17.0	25.2	
			LE			15.0	33.5	
BJI	86.6	319	eP	00 16 58.5	−1.3			
			PMZ	m_b = 6.2		2.0	0.42	
			PMZ	m_B = 7.0		8.0	11.2	
			eSKS	00 27 21.0	−1.2			
			eS	00 27 32.0	−3.2			
			LN	M_S = 7.2		19.0	59.2	
HHC	88.3	322	P	00 17 10.0	1.8			
			PMZ	m_B = 7.1		8.0	13.1	
			PP	00 20 37.0	0.1			
			SMN	m_B = 7.4		9.0	15.8	
			SME			12.0	34.1	
			LN	M_S = 6.9		15.0	22.2	
			LZ	M_S = 7.1		17.0	65.0	
TIA	88.9	316	+P	00 17 09.8	−1.0			
			LN	M_S = 7.3		15.0	60.3	
			LZ	M_S = 6.9		21.0	47.1	
BTO	89.2	323	+iP	00 17 12.0	−0.7			
			pP	00 17 18.5	0.0			
			PP	00 20 47.0	2.6			
			SKS	00 27 39.0	0.1			
			S	00 27 59.0	0.6			
			LN	M_S = 7.4		13.0	26.7	
			LE			13.0	48.6	
SSE	90.2	310	+P	00 17 16.5	−0.3			
			PMZ	m_b = 6.2		1.4	0.20	
			PMZ	m_B = 7.2		6.0	9.75	
			pP	00 17 22.0	−0.8			
			PP	00 20 54.0	2.4			
			SKS	00 27 44.0	−0.4			
			sS	00 28 16.0	−2.4			
			SS	00 34 09.0	−0.4			
			LN	M_S = 7.1		16.0	16.5	
			LE			18.0	37.6	
			LZ	M_S = 6.7		20.0	26.5	
TIY	90.3	320	+iP	00 17 17.0	−0.4			
			PMZ	m_B = 7.1		7.0	9.25	
			S	00 28 10.0	2.3			
			sS	00 28 19.5	0.2			
			SS	00 34 15.0	4.1			
			LN	M_S = 7.4		17.0	82.0	
			LZ	M_S = 7.2		20.0	99.9	
NJ2	90.9	312	+P	00 17 19.0	−1.2			
			PMZ	m_B = 7.1		4.0	4.68	
			SKS	00 27 53.0	4.3			
			LN	M_S = 7.1		15.0	34.3	
WHN	94.6	314	eP	00 17 36.5	−0.8			
			PMZ	m_B = 7.2		7.0	7.19	
			pP	00 17 43.0	−0.3			
			PP	00 21 30.0	3.4			
			iSKS	00 28 10.0	0.3			
			LN	M_S = 7.1		15.0	19.2	
			LE			16.0	28.5	
			LZ	M_S = 6.8		20.0	33.3	
GTA	94.8	329	eP	00 17 37.6	−0.6			
			pP	00 17 44.5	0.5			
			SKS	00 28 11.0	0.4			
			LE	M_S = 7.3		16.0	50.4	
			LZ	M_S = 7.1		21.0	70.0	
XAN	94.9	320	P	00 17 37.6	−1.2			
WMQ	95.1	339	P	00 17 39.5	−0.3			
			PMZ	m_B = 7.5		8.0	10.1	
			PP	00 21 34.0	3.7			
			SKS	00 28 12.0	−0.5			
			S	00 28 52.0	2.0			
			LE	M_S = 7.4		18.0	77.7	
			LZ	M_S = 6.9		28.0	54.1	
LZH	95.8	324	+P	00 17 42.0	−0.8			
			PMZ	m_b = 6.8		2.5	0.61	
			PMZ	m_B = 7.3		7.0	5.58	
			sP	00 17 49.0	−2.3			
			PP	00 21 36.0	0.5			
			PPMZ	m_B = 7.0		7.0	4.46	
			SKS	00 28 16.0	0.0			
			sS	00 29 04.0	−3.3			
			LN	M_S = 7.5		20.0	112	
QZH	96.1	307	+P	00 17 46.0	1.8			
			PMZ	m_B = 7.1		8.0	3.50	
			S	00 28 58.0	−0.5			
			sS	00 29 10.0	−0.3			
			LN	M_S = 6.8		16.0	10.8	
			LE			16.0	10.6	
			LZ	M_S = 6.8		20.0	33.1	
CD2	100.0	321	eP	00 18 02.2	0.2			
			PP	00 22 12.8	4.2			
			SKS	00 28 38.0	0.2			
			S	00 29 34.0	2.6			
			LE	M_S = 7.4		18.0	62.4	
			LZ	M_S = 7.1		22.0	62.6	
GZH	100.7	310	−P	00 18 10.0	4.8			
			PMZ			18.0	2.80	
			SKS	00 28 45.0	3.6			
			LN	M_S = 7.1		15.0	12.8	
			LE			17.0	32.0	
			LZ	M_S = 7.0		20.0	45.1	
KSH	102.0	346	P	00 18 11.0	−0.1			
			pP	00 18 16.0	−0.9			
			PP	00 22 25.0	1.4			
			eSKS	00 28 49.0	1.5			

		S	00 29 50.0	1.9				
		SS	00 36 59.5	3.0				
		LN	$M_S=7.1$		18.0	30.2		
KMI	105.2	319 –P	00 18 30.0	4.6				
		PP	00 22 53.0	4.8				
		S	00 30 19.0	4.1				
		SS	00 37 45.0	4.5				
		LE	$M_S=7.3$		19.0	57.0		
QZN	105.9	310 eP	00 18 32.5	4.3				
		PP	00 22 56.5	3.6				
		SS	00 37 46.0	–4.3				
		LE	$M_S=7.2$		19.0	43.9		

OCT 18d 03h 10m 36.5±0.11s, SD1.69 / 46
32.57 N±1.01km, 93.86 E±0.97km, h12±0.18km
Tibet (306)
M_S4.4 / 2, M_L4.3 / 2, m_b4.7 / 2,

LSA	3.7	220 Pg	03 11 40.6	–1.6				
		Pg	03 11 43.0	1.4				
		Sg	03 12 36.6	4.6				
		SMN	$M_L=4.6$		1.2	1.36		
GTA	8.4	34 eP	03 12 40.4	–0.3				
CD2	8.6	98 eP	03 12 45.6	1.7				
LZH	9.0	64 eP	03 12 48.5	–0.8				
		LE	$M_S=4.3$		8.0	1.30		
		LZ	$M_S=3.9$		20.0	1.50		
KMI	10.7	131 eP	03 13 14.5	0.7				
		pP	03 13 17.5	–1.2				
		eS	03 15 16.0	0.6				
		LN	$M_S=4.4$		14.0	2.20		
WMQ	12.2	338 eP	03 13 32.5	–1.2				
		SMN			2.5	0.050		
		SME			2.0	0.030		
XAN	12.7	79 P	03 13 38.5	–1.4				
BTO	15.2	54 eP	03 14 14.2	0.6				
TIY	16.0	66 eP	03 14 24.6	0.8				
		LZ	$M_S=4.5$		17.0	2.40		
HHC	16.4	55 eP	03 14 29.0	0.4				
WHN	17.6	91 –P	03 14 43.5	0.2				
BJI	19.4	61 eP	03 15 06.0	0.2				
TIA	19.5	73 –P	03 15 06.6	–0.3				
NJ2	21.1	85 +P	03 15 23.0	–0.8				
SSE	23.2	86 P	03 15 45.0	0.1				
		PMZ	$m_b=4.6$		0.8	0.020		

OCT 18d 05h 36m 20.8±0.50s, SD2.69 / 6
35.91 N±4.28km, 80.82 E±1.31km, h15±km
Kashmir–Tibet border region (304)
M_L3.9 / 3,

KSH	5.3	314 ePn	05 37 42.0	2.1				
		ePg	05 37 55.5	1.3				
		Sn	05 38 40.5	–2.2				
		SMN	$M_L=4.3$		0.7	0.30		
		SME			0.7	0.30		
WMQ	9.5	32 eP	05 38 42.8	2.3				
		SMN			0.8	0.020		
		SME			1.0	0.020		

OCT 18d 11h 40m 50.7±0.10s, SD0.89 / 109
10.11 S±1.61km, 161.19 E±1.37km, h54±0.97km
Solomon Islands (193)
M_S5.5 / 17, m_B6.2 / 24, m_b6.2 / 27,

QZH	54.2	311 eP	11 50 13.0	–0.5				
		PMZ	$m_B=6.3$		4.0	1.35		
		sP	11 50 31.0	–2.0				
		S	11 57 46.0	2.3				
		LZ	$M_S=5.6$		16.0	4.32		
SSE	56.1	318 +iP	11 50 27.0	–0.4				
		PMZ	$m_b=4.6$				1.5	1.04
		PMZ	$m_B=6.4$				4.0	1.92
		pP	11 50 40.0	–1.2				
		PcP	11 51 25.5	1.8				
		S	11 58 06.0	–3.4				
		sS	11 58 34.0	0.0				
		ScS	12 00 10.0	3.2				
		SS	12 01 56.0	–0.2				
		LN	$M_S=5.5$				20.0	2.69
		LZ	$M_S=5.2$				20.0	1.86
GZH	57.3	306 +P	11 50 35.4	–0.3				
		PMZ	$m_b=6.3$				1.4	0.57
		sP	11 50 55.0	–0.2				
		LZ	$M_S=5.4$				22.0	3.66
NJ2	58.3	318 +iP	11 50 42.0	–0.6				
		PMZ	$m_B=6.3$				5.0	1.77
		pP	11 50 54.0	–2.3				
		sP	11 51 00.0	–2.1				
		S	11 58 41.0	3.5				
		sS	11 59 02.0	–0.4				
QZN	58.3	300 P	11 50 42.4	–0.5				
		eS	11 58 44.5	5.2				
		LE	$M_S=5.8$				24.0	5.30
WHN	60.5	314 +P	11 50 57.5	–0.3				
		PMZ	$m_b=6.2$				1.4	0.45
		PMZ	$m_B=6.4$				4.0	1.83
		sP	11 51 15.0	–2.3				
		eS	11 59 04.0	–3.2				
		LZ	$M_S=5.2$				22.0	1.96
DL2	61.1	325 +iP	11 51 02.2	0.1				
		PMZ	$m_b=6.4$				1.5	0.81
		pP	11 51 14.0	–1.9				
		sP	11 51 22.0	0.4				
		PcP	11 51 44.0	0.7				
		S	11 59 15.0	0.9				
		SMN	$m_B=6.2$				7.0	1.37
		SME					7.0	1.63
		sS	11 59 39.0	0.0				
		LE	$M_S=5.4$				12.0	1.01
		LZ	$M_S=5.2$				36.0	3.34
MDJ	61.5	335 +iP	11 51 05.6	0.7				
		S	11 59 20.0	0.6				
		SME	$m_B=6.3$				12.0	4.63
		LZ	$M_S=5.4$				25.0	3.79
TIA	62.0	320 +P	11 51 07.1	–1.0				
		LZ	$M_S=5.2$				26.0	2.35
SNY	62.1	329 +iP	11 51 08.8	–0.4				
		PMZ	$m_b=6.1$				1.2	0.29
		PMZ	$m_B=6.3$				4.0	1.70
		pP	11 51 20.1	–2.9				
		PP	11 53 28.0	0.7				
		S	11 59 30.0	2.6				
		SMN	$m_B=6.2$				6.0	1.32
		SME					8.0	1.72
		LZ	$M_S=5.5$				29.0	5.01
CN2	62.7	332 +iP	11 51 13.0	0.1				
		PMZ	$m_b=6.9$				2.0	3.20
		ipP	11 51 26.0	–0.8				
		iPcP	11 51 49.4	–0.5				
		S	11 59 38.0	3.6				
		SMN	$m_B=6.1$				6.0	0.70
		SME					6.0	1.30
		sS	12 00 01.0	1.6				
		iSS	12 03 46.0	4.3				
		LN	$M_S=5.4$				13.0	1.10
		LZ	$M_S=5.6$				23.0	4.60
GYA	64.2	306 +P	11 51 22.6	–0.3				
		PMZ	$m_b=5.7$				1.6	0.16

			sP	11 51 43.0	0.5			
			S	11 59 57.0	3.9			
			LZ	M_S=5.1		28.0	1.80	
BJI	65.0	323	+iP	11 51 27.5	−0.3			
			PMZ	m_b=6.1		1.5	0.39	
			PMZ			3.0	1.20	
			sP	11 51 44.0	−3.5			
			eS	12 00 06.0	2.0			
			sS	12 00 28.0	0.1			
			LN	M_S=5.5		18.0	1.60	
			LZ	M_S=5.4		36.0	4.20	
TIY	65.9	319	eP	11 51 33.5	−0.1			
			PMZ	m_b=6.0		1.6	0.33	
			pP	11 51 47.0	−0.5			
			S	12 00 17.0	3.5			
			LN	M_S=5.5		16.0	1.49	
			LZ	M_S=5.6		22.0	4.02	
XAN	66.2	314	P	11 51 34.2	−1.6			
KMI	66.8	303	+P	11 51 40.0	0.2			
			PMZ			3.0	1.80	
			pP	11 51 50.0	−3.5			
			sP	11 51 59.0	−0.2			
			PcP	11 52 09.0	2.2			
			S	12 00 28.0	3.0			
			sS	12 00 50.0	−0.2			
			ScS	12 01 29.0	2.1			
HHC	68.3	322	+P	11 51 49.0	0.3			
CD2	68.5	309	+iP	11 51 49.2	−0.9			
			PMZ	m_B=6.1		4.5	1.27	
			sP	11 52 06.5	−3.3			
			S	12 00 47.0	2.0			
			LZ	M_S=5.2		32.0	2.46	
BTO	69.1	321	+iP	11 51 54.0	0.3			
			pP	11 52 07.0	−0.5			
			S	12 00 56.0	4.1			
			sS	12 01 18.5	1.3			
			LN	M_S=5.5		17.0	1.20	
			LE			17.0	1.10	
LZH	70.8	314	+P	11 52 04.5	−0.1			
			PMZ	m_b=6.4		1.5	0.81	
			PMZ	m_B=6.3		4.0	1.67	
			sP	11 52 21.0	−3.1			
			PcP	11 52 26.0	2.3			
			eS	12 01 16.0	1.8			
			sS	12 01 34.0	−3.9			
			LE	M_S=5.6		6.0	0.60	
			LZ	M_S=5.6		20.0	3.70	
GTA	75.2	315	+iP	11 52 30.6	0.4			
			PMZ	m_b=6.6		2.0	1.67	
			pP	11 52 42.4	−1.6			
			sP	11 52 51.0	1.2			
			LZ	M_S=5.3		28.0	2.09	
LSA	78.1	303	iP	11 52 50.0	3.3			
			PMZ	m_B=5.8		4.0	0.54	
			pP	11 53 01.0	0.8			
			S	12 02 38.0	4.8			
WMQ	85.3	316	+iP	11 53 23.5	−0.3			
			PMZ	m_B=6.3		4.0	1.42	
			PP	11 56 39.5	−2.6			
			eSKS	12 03 40.0	1.0			
			S	12 03 48.0	1.3			
			LZ	M_S=5.4		28.0	2.29	
KSH	92.7	309	eP	11 54 00.0	0.7			
			pP	11 54 13.0	−0.4			
			sP	11 54 19.0	−0.1			
			PP	11 57 46.0	3.3			
			eSKS	12 04 28.0	3.2			
			S	12 04 59.0	3.7			

OCT 18d 12h 35m 16.7 ± 0.10s, SD0.79 / 71
10.11 S ± 1.21km, 161.14 E ± 0.99km, h73 ± 1.04km
Solomon Islands (193)
M_S5.6 / 1, m_b5.2 / 9,

QZH	54.2	311	eP	12 44 38.3	0.9			
SSE	56.1	318	eP	12 44 50.0	−1.3			
			PMZ	m_b=5.1		1.1	0.028	
			pP	12 45 09.7	0.2			
			eS	12 52 29.0	−4.2			
			LZ	M_S=4.6		16.0	0.45	
NJ2	58.2	318	+P	12 45 06.5	0.0			
			pP	12 45 27.0	2.4			
WHN	60.4	314	eP	12 45 21.5	−0.1			
DL2	61.1	325	eP	12 45 25.5	−0.5			
			PMZ	m_b=5.5		1.5	0.090	
MDJ	61.5	335	eP	12 45 29.0	0.1			
SNY	62.1	329	eP	12 45 33.9	0.8			
CN2	62.7	332	+P	12 45 36.5	−0.4			
GYA	64.2	306	P	12 45 47.0	0.3			
BJI	65.0	323	eP	12 45 51.5	−0.2			
TIY	65.9	319	eP	12 45 57.0	−0.5			
XAN	66.2	314	+P	12 45 59.0	−0.6			
KMI	66.8	303	+P	12 46 04.5	0.9			
HHC	68.2	322	P	12 46 13.0	0.4			
CD2	68.5	309	+iP	12 46 14.0	0.1			
LZH	70.8	314	eP	12 46 28.5	0.1			
			PMZ	m_b=5.0		2.0	0.046	
			pP	12 46 49.0	2.1			
			LZ	M_S=4.9		16.0	0.50	
GTA	75.2	315	−P	12 46 54.0	0.0			
WMQ	85.2	316	eP	12 47 46.0	−1.6			
			pP	12 48 05.0	−1.6			
			S	12 58 06.5	−2.8			
			LZ	M_S=5.4		24.0	1.87	
KSH	92.7	309	eP	12 48 22.5	−0.5			

OCT 18d 14h 57m 21.6 ± 0.07s, SD1.68 / 94
39.94 N ± 0.88km, 113.88 E ± 0.78km, h10 ± 0.06km
North−Eastern China (658)
M_S5.7 / 36, M_L5.3 / 4, m_B6.3 / 8,

BJI	1.8	86	iPg	14 57 54.5	1.7			
			Sg	14 58 19.0	2.1			
HHC	2.0	298	Pg	14 57 58.0	1.1			
			LN			6.0	4.39	
			LE			6.0	3.17	
TIY	2.5	207	Pn	14 58 05.1	2.4			
			Pg	14 58 08.0	2.4			
			Sg	14 58 37.0	−2.7			
			LE			2.0	42.4	
			LZ			10.0	75.4	
BTO	3.0	284	Pn	14 58 11.0	0.9			
			Pg	14 58 16.0	1.0			
			Sg	14 58 56.0	−0.4			
			LN	M_S=5.1		4.0	16.9	
			LE			4.0	21.2	
TIA	4.5	144	ePn	14 58 31.1	0.7			
			Pg	14 58 42.8	1.5			
			SMN	M_L=4.5		1.0	0.70	
			SME			1.2	0.79	
			LZ	M_S=4.8		13.0	14.5	
DL2	6.1	97	Pn	14 58 54.1	2.1			
			SMN	M_L=5.4		1.2	3.65	
			SME			1.2	1.80	
			LN	M_S=5.3		10.0	21.2	
			LE			10.0	22.5	
XAN	7.1	216	Pn	14 59 07.3	1.3			
			Pg	14 59 33.0	6.1			

			Sg	15 00 59.7	−4.3					PMZ			3.0	1.29
SNY	7.6	72	Pn	14 59 14.2	1.6					sP	15 02 23.0	4.6		
			iPg	14 59 40.4	4.9					LN	$M_S=5.7$		8.0	8.13
			Sg	15 01 19.6	0.4					LE			11.0	3.40
			LN	$M_S=5.2$		10.0	14.1	KSH	29.1	282	eP	15 03 22.0	−2.7		
			LE			10.0	11.4				LE	$M_S=5.8$		9.0	6.40
			LZ	$M_S=5.2$		10.0	17.0								
NJ2	8.8	151	+P	14 59 31.0	−1.6										
			LN	$M_S=5.2$		11.0	8.10								
			LE			10.0	10.4								
WHN	9.4	178	+P	14 59 40.0	−0.1										
			PMZ	$m_b=5.0$		1.0	0.060								
			pP	14 59 45.5	0.7										
			SMN			1.0	2.07								
			SME			1.0	1.93								
			LN	$M_S=5.5$		7.0	13.6								
			LE			9.0	10.9								
			LZ	$M_S=4.9$		12.0	7.84								
CN2	9.5	62	eP	14 59 40.4	−0.7										
			eS	15 01 28.0	−0.5										
			LN	$M_S=5.7$		8.0	27.6								
			LE			8.0	17.1								
SSE	10.6	144	eP	15 00 00.0	2.6										
			pP	15 00 03.0	0.8										
			eS	15 02 04.0	6.3										
			LN	$M_S=5.0$		9.0	4.12								
			LE			10.0	4.76								
			LZ	$M_S=4.4$		20.0	3.26								
GTA	10.9	272	eP	14 59 58.2	−2.4										
			LN	$M_S=5.5$		10.0	18.7								
			LZ	$M_S=5.4$		10.0	18.8								
CD2	12.2	226	eP	15 00 18.0	−0.9										
			eS	15 02 41.0	4.8										
			LE	$M_S=5.9$		7.0	27.6								
			LZ	$M_S=5.4$		8.0	13.0								
MDJ	12.5	63	eP	15 00 23.7	0.5										
			LN	$M_S=5.9$		7.0	24.9								
			LZ	$M_S=5.1$		15.0	10.9								
GYA	14.7	206	P	15 00 51.4	−0.9										
			sP	15 01 02.0	1.8										
			S	15 03 42.0	6.0										
			LN	$M_S=5.9$		12.0	18.0								
			LE			12.0	31.5								
			LZ	$M_S=5.1$		16.0	9.20								
QZH	15.5	164	eP	15 01 02.0	0.2										
			LN	$M_S=5.4$		10.0	8.21								
			LZ	$M_S=5.3$		12.0	9.65								
GZH	16.8	182	P	15 01 18.0	−0.9										
			S	15 04 27.0	2.5										
			LN	$M_S=5.8$		8.0	3.20								
			LE			9.0	16.4								
			LZ	$M_S=5.2$		12.0	7.50								
KMI	17.5	216	eP	15 01 27.0	−0.7										
			eS	15 04 41.0	0.0										
			sS	15 04 50.0	2.1										
			LN	$M_S=6.0$		12.0	17.8								
			LE			12.0	24.0								
WMQ	19.8	290	−P	15 01 56.5	0.6										
			PMZ	$m_B=5.7$		4.0	1.32								
			eS	15 05 35.0	1.0										
			sS	15 05 42.5	1.5										
			LN	$M_S=5.4$		10.0	6.08								
			LZ	$M_S=5.3$		9.0	5.49								
QZN	21.1	191	eP	15 02 10.4	1.1										
			eS	15 06 01.0	1.3										
			LN	$M_S=5.8$		11.0	5.60								
			LE			11.0	14.5								
LSA	21.2	248	P	15 02 13.0	2.3										

OCT 18d 15h 15m 26.8 ± 0.08s, SD2.28 / 18
39.83 N ± 0.73km, 113.89 E ± 0.69km, h4 ± 0.36km
North−Eastern China (658)
M_L3.7 / 14,

BJI	1.8	83	Pn	15 15 57.6	−0.9		
			Pg	15 15 59.0	1.0		
			Sg	15 16 23.0	0.8		
			SMN	$M_L=3.1$		0.5	0.19
			SME			0.5	0.19
			LN			8.0	2.00
TIY	2.4	209	Pg	15 16 10.8	1.3		
			Sn	15 16 40.4	1.3		
			Sg	15 16 43.2	1.0		
			SMN	$M_L=4.0$		0.6	0.60
			SME			0.7	1.14
BTO	3.1	286	Pg	15 16 20.4	−0.7		
			Sg	15 16 58.6	−4.2		
			SMN	$M_L=3.4$		0.4	0.18
			SME			0.4	0.090
TIA	4.4	144	ePn	15 16 36.4	1.3		
			Pg	15 16 51.4	6.4		
			Sg	15 17 44.6	−0.9		
			SMN	$M_L=4.5$		1.0	0.70
			SME			1.2	0.79
WHN	9.3	178	eP	15 17 46.5	2.0		
CN2	9.5	62	eP	15 17 44.0	−3.6		
			eS	15 19 32.0	−3.9		
			SMN			0.8	0.0070
			SME			0.8	0.012

OCT 18d 15h 19m 33.9 ± 0.09s, SD2.32 / 13
39.81 N ± 0.68km, 113.87 E ± 0.73km, h13 ± 0.43km
North−Eastern China (658)
M_L3.8 / 10,

BJI	1.8	82	Pn	15 20 04.4	−0.5		
TIY	2.4	209	Pg	15 20 18.0	1.9		
			Sn	15 20 47.5	3.6		
			Sg	15 20 50.2	1.8		
			SMN	$M_L=3.8$		0.6	0.39
			SME			0.8	0.81
TIA	4.4	143	ePn	15 20 41.0	−0.1		
			ePg	15 20 57.6	5.7		
			Sg	15 21 51.8	−0.5		
			SMN	$M_L=3.3$		0.8	0.045
			SME			0.6	0.049

OCT 18d 15h 29m 22.6 ± 0.06s, SD1.52 / 13
39.90 N ± 0.65km, 113.84 E ± 0.51km, h15 ± 0.17km
North−Eastern China (658)
M_L3.6 / 10,

BJI	1.8	85	Pn	15 29 52.3	−1.1		
			Pg	15 29 53.8	−0.6		
			Sg	15 30 17.5	−1.5		
			SMN	$M_L=3.1$		0.5	0.22
			SME			0.5	0.19
HHC	2.0	299	iPg	15 29 57.5	−0.3		
			Sg	15 30 24.4	−0.4		
			SMN	$M_L=3.6$		0.6	0.70
			SME			0.8	0.36
TIY	2.4	207	ePn	15 30 04.3	1.8		
			Pg	15 30 06.0	0.2		

			Sg	15 30 38.1	−1.3			
			SMN	$M_L=3.8$		0.6	0.29	
			SME			0.7	0.70	
BTO	3.0	285	ePg	15 30 15.8	−0.1			
			Sg	15 30 53.0	−3.9			
			SMN	$M_L=3.3$		0.4	0.16	
			SME			0.4	0.080	
TIA	4.5	144	ePg	15 30 41.9	−0.3			
			Sg	15 31 41.8	−1.9			
			SMN	$M_L=3.3$		0.5	0.038	
			SME			0.6	0.057	
WHN	9.3	177	eP	15 31 41.0	1.0			
CN2	9.5	62	eP	15 31 40.0	−2.0			

OCT 18d 15h 30m 04.6 ± 0.07s, SD2.40 / 10
39.75 N ± 0.68km, 113.80 E ± 0.60km, h8 ± 0.11km
North−Eastern China (658)
M_L3.9 / 7,

BJI	1.9	80	Pg	15 30 37.0	−0.4			
			Sg	15 31 01.0	−1.7			
BTO	3.0	287	ePg	15 31 00.4	2.3			
			Sg	15 31 36.8	−2.3			
			SMN	$M_L=3.8$		0.4	0.39	
			SME			0.4	0.33	
TIA	4.4	142	ePg	15 31 24.5	2.0			
			Sg	15 32 23.2	0.5			
			SMN	$M_L=3.8$		0.8	0.15	
GTA	10.8	273	eP	15 32 42.6	−0.5			

OCT 18d 15h 41m 40.0 ± 0.07s, SD1.64 / 19
39.88 N ± 0.58km, 113.89 E ± 0.61km, h9 ± 0.27km
North−Eastern China (658)
M_L3.6 / 13,

BJI	1.8	84	Pn	15 42 10.0	−1.1			
			Pg	15 42 11.3	0.1			
			Sg	15 42 35.0	−0.3			
			SMN	$M_L=3.0$		0.5	0.20	
			SME			0.5	0.12	
HHC	2.0	299	Pg	15 42 15.0	−0.8			
			Sg	15 42 42.4	−0.9			
			SMN	$M_L=3.6$		0.6	0.59	
			SME			0.6	0.46	
TIY	2.4	208	Pn	15 42 20.6	0.1			
			Pg	15 42 23.9	0.7			
			Sg	15 42 56.1	−0.5			
			SMN	$M_L=3.9$		0.6	0.43	
			SME			0.7	0.90	
BTO	3.0	285	Pg	15 42 33.0	−1.0			
			Sg	15 43 10.8	−4.6			
			SMN	$M_L=3.4$		0.4	0.18	
			SME			0.4	0.080	
TIA	4.5	144	ePn	15 42 50.1	1.8			
			Pg	15 43 03.5	4.7			
			Sg	15 43 57.8	−2.1			
			SMN	$M_L=3.4$		0.6	0.078	
			SME			0.5	0.058	
XAN	7.1	216	Pn	15 43 23.4	−0.5			
WHN	9.3	178	eP	15 43 58.0	0.2			

OCT 18d 16h 19m 02.3 ± 0.12s, SD1.45 / 54
17.91 S ± 3.69km, 176.00 W ± 4.05km, h220 ± 1.17km
Fiji region (181)
m_b5.1 / 9,

QZH	76.6	302	eP	16 30 31.5	0.5			
SSE	77.5	309	P	16 30 36.0	0.0			
			PMZ	$m_b=4.7$		0.8	0.012	
MDJ	79.5	324	eP	16 30 45.0	−1.9			
NJ2	79.7	308	−P	16 30 47.9	0.0			
DL2	81.2	316	eP	16 30 58.0	2.4			
WHN	82.5	305	eP	16 31 02.5	0.3			
TIA	83.0	311	eP	16 31 04.6	−0.2			
BJI	85.4	314	−P	16 31 16.0	−1.0			
			PMZ	$m_b=4.8$		1.0	0.018	
TIY	87.0	311	−P	16 31 25.0	0.2			
GYA	87.0	299	P	16 31 25.4	0.3			
XAN	88.1	307	P	16 31 30.0	0.1			
KMI	89.9	296	−P	16 31 39.5	1.0			
GTA	96.8	309	eP	16 32 09.4	−0.9			

OCT 18d 16h 47m 28.1 ± 0.05s, SD1.70 / 7
39.92 N ± 0.57km, 113.84 E ± 0.43km, h13 ± 0.06km
North−Eastern China (658)
M_L3.2 / 6,

BJI	1.8	85	Pn	16 47 57.5	−1.8			
			Pg	16 47 59.0	−0.9			
			Sg	16 48 23.0	−1.6			
			SMN	$M_L=2.9$		0.5	0.15	
			SME			0.5	0.080	
TIY	2.5	207	Pg	16 48 12.0	0.2			
			Sg	16 48 43.6	−1.7			
			SMN	$M_L=3.3$		0.6	0.11	
			SME			0.6	0.21	

OCT 18d 16h 52m 56.1 ± 0.08s, SD1.97 / 33
39.93 N ± 1.10km, 113.95 E ± 0.89km, h9 ± 0.06km
North−Eastern China (658)
M_L4.3 / 14,

BJI	1.7	86	−Pn	16 53 28.0	1.5			
			Pg	16 53 29.5	3.1			
			Sg	16 53 53.5	3.6			
			LN			8.0	12.9	
			LZ			8.0	1.40	
TIY	2.5	209	Pn	16 53 38.0	0.5			
			Pg	16 53 40.4	0.0			
			Sg	16 54 12.8	−1.9			
			SMN	$M_L=4.4$		0.6	1.76	
			SME			0.7	2.69	
BTO	3.1	284	Pn	16 53 45.6	0.3			
			Pg	16 53 48.6	−1.8			
			Sg	16 54 25.9	−6.6			
			SMN	$M_L=3.8$		0.4	0.39	
			SME			0.4	0.35	
TIA	4.5	145	ePn	16 54 04.3	−0.2			
			ePg	16 54 16.3	1.1			
			Sg	16 55 15.1	−1.3			
			SMN	$M_L=4.1$		0.6	0.38	
			SME			0.6	0.23	
DL2	6.0	97	ePn	16 54 28.0	2.2			
			SMN	$M_L=4.4$		1.0	0.25	
XAN	7.1	216	Pn	16 54 40.7	−0.1			
			Pg	16 55 04.0	2.2			
			Sg	16 56 38.0	−1.1			
			SMN	$M_L=4.4$		1.0	0.13	
			SME			1.0	0.18	
SNY	7.5	72	iPn	16 54 47.8	1.3			
			ePg	16 55 16.0	6.8			
			Sg	16 56 53.9	1.6			
			SMN	$M_L=4.4$		1.1	0.18	
			SME			0.9	0.080	
NJ2	8.8	152	eP	16 55 12.2	5.5			
			eS	16 56 50.0	3.0			
LZH	8.8	247	eP	16 55 05.5	−1.9			
CN2	9.4	62	eP	16 55 15.0	−0.1			
GTA	10.9	272	eP	16 55 33.0	−2.8			
WMQ	19.9	290	eP	16 57 34.0	3.0			

OCT 18d 16h 56m 27.3 ± 0.10s, SD1.72 / 18
7.41 N ± 1.41km, 126.99 E ± 1.43km, h75 ± 1.20km
Mindanao (259)

QZN	20.3	306	eP	17 00 58.3	−1.1			
WHN	25.9	334	eP	17 01 53.0	−1.2			
MDJ	37.1	3	eP	17 03 34.0	1.2			
WMQ	49.9	323	P	17 05 15.8	−0.1			

OCT 18d 17h 01m 34.1 ± 0.08s, SD1.93 / 101
39.92 N ± 1.08km, 113.91 E ± 0.95km, h13 ± 0.15km
North−Eastern China (658)
M_S5.9 / 40, M_L5.1 / 3, m_B6.4 / 9,

BJI	1.7	85	Pg	17 02 05.5	0.5			
			Sg	17 02 29.5	0.5			
HHC	2.0	298	Pn	17 02 09.0	0.6			
			Pg	17 02 10.2	0.4			
			Sg	17 02 36.5	−0.9			
			LN			6.0	97.0	
			LE			6.0	100	
TIY	2.5	208	Pn	17 02 16.2	1.4			
			Pg	17 02 18.7	0.7			
			Sg	17 02 47.2	−4.8			
			LN			9.0	537	
			LE			9.0	613	
BTO	3.1	284	Pn	17 02 23.0	0.4			
			Pg	17 02 28.0	0.0			
			Sg	17 03 05.0	−4.8			
TIA	4.5	145	ePn	17 02 42.8	0.6			
			Pg	17 02 56.6	3.3			
			Sg	17 03 53.5	−1.2			
			LN	M_S = 5.5		13.0	118	
DL2	6.1	97	Pn	17 03 06.0	2.1			
			SMN	M_L = 5.4		1.2	3.13	
			SME			1.2	2.21	
			LN	M_S = 5.3		12.0	3.48	
			LE			10.0	32.3	
XAN	7.1	216	Pn	17 03 19.0	0.9			
			PMZ	m_b = 5.4		1.0	0.24	
			Pg	17 03 40.5	1.2			
			Sg	17 05 12.0	−4.3			
SNY	7.6	72	iPn	17 03 26.6	2.0			
			Pg	17 03 54.0	6.2			
			Sg	17 05 34.4	3.0			
			LN	M_S = 5.7		7.0	33.8	
			LE			10.0	27.5	
			LZ	M_S = 5.5		13.0	40.4	
NJ2	8.8	151	eP	17 03 43.5	−0.8			
			S	17 05 18.6	−5.7			
			LN	M_S = 5.6		12.0	23.1	
			LE			11.0	27.1	
LZH	8.8	247	−P	17 03 42.5	−2.1			
			LN	M_S = 5.8		9.0	47.8	
			LE			9.0	21.5	
			LZ	M_S = 5.7		10.0	40.5	
WHN	9.4	178	eP	17 03 50.0	−1.9			
			PMZ	m_B = 5.7		6.0	1.50	
			sP	17 03 55.5	−4.6			
			SMN			1.0	2.00	
			SME			1.5	5.35	
			LN	M_S = 6.0		12.0	27.6	
			LE			12.0	89.5	
			LZ	M_S = 5.3		12.0	18.1	
CN2	9.4	62	eP	17 03 50.0	−3.1			
			eS	17 05 40.0	−0.3			
			LN	M_S = 6.5		7.0	100	
			LE			7.0	128	
SSE	10.6	144	+P	17 04 12.0	2.8			
			PMZ	m_B = 5.6		6.0	0.93	
			pP	17 04 15.0	0.8			
			SMN			1.6	1.80	
			SME			1.8	1.09	
			LN	M_S = 5.5		11.0	16.9	
			LE			12.0	11.9	
			LZ	M_S = 5.3		16.0	20.9	
GTA	10.9	272	eP	17 04 11.4	−1.7			
			LN	M_S = 5.8		10.0	37.0	
			LZ	M_S = 5.8		10.0	42.2	
CD2	12.2	226	eP	17 04 29.4	−1.6			
			eS	17 06 53.5	5.4			
			LE	M_S = 6.1		7.0	46.9	
MDJ	12.5	63	eP	17 04 34.0	−1.3			
			LE	M_S = 5.9		8.0	32.6	
GYA	14.7	206	P	17 05 04.4	0.1			
			pP	17 05 11.0	2.0			
			sP	17 05 15.0	2.3			
			LN	M_S = 6.2		12.0	51.1	
			LE			12.0	45.2	
			LZ	M_S = 5.4		16.0	20.6	
QZH	15.4	164	eP	17 05 15.5	1.9			
			S	17 08 04.0	−0.6			
			LE	M_S = 5.8		12.0	23.9	
			LZ	M_S = 5.6		12.0	22.3	
GZH	16.8	182	eP	17 05 27.0	−3.8			
			S	17 08 40.0	4.1			
			LN	M_S = 6.1		7.0	8.70	
			LE			9.0	33.8	
			LZ	M_S = 5.6		12.0	17.4	
KMI	17.5	216	−P	17 05 39.0	−0.7			
			eS	17 08 52.0	−0.8			
			sS	17 09 00.0	−0.4			
			LN	M_S = 6.3		12.0	42.1	
			LE			12.0	58.9	
WMQ	19.9	290	eP	17 06 08.0	−0.3			
			PMZ	m_B = 5.9		5.0	2.88	
			eS	17 09 45.0	−1.5			
			sS	17 09 52.0	−2.2			
			LZ	M_S = 5.7		10.0	14.3	
QZN	21.1	191	eP	17 06 21.9	0.7			
			eS	17 10 12.5	1.4			
			LN	M_S = 6.3		11.0	15.3	
			LE			11.0	40.8	
LSA	21.2	248	P	17 06 23.8	0.9			
			sP	17 06 32.0	0.8			
			LN	M_S = 6.3		7.0	13.5	
			LE			8.0	25.3	
KSH	29.1	282	eP	17 07 39.0	2.0			
			eS	17 12 31.0	3.7			
			LN	M_S = 6.1		12.0	18.3	

OCT 18d 17h 09m 46.1 ± 0.06s, SD1.88 / 6
39.79 N ± 0.57km, 113.96 E ± 0.54km, h15 ± km
North−Eastern China (658)
M_L4.0 / 4,

BJI	1.7	81	Pg	17 10 16.5	−0.2			
			Sg	17 10 40.5	0.2			
HHC	2.1	301	Pg	17 10 23.0	−0.7			
			Sg	17 10 50.4	−2.0			
			SMN	M_L = 3.8		0.6	0.77	
			SME			0.6	0.79	
TIY	2.4	210	Pn	17 10 27.0	1.6			
			Pg	17 10 29.5	1.0			
			Sg	17 11 01.2	0.0			
			SMN	M_L = 4.1		0.6	0.73	
			SME			0.8	1.57	

OCT 18d 17h 11m 21.0 ± 0.10s, SD2.30 / 43

39.93 N±1.23km, 113.88 E±1.09km, h10±0.11km
North-Eastern China (658)
M_S4.8/3, M_L4.9/12,

BJI	1.8	86	Pg	17 11 53.5	1.1			
			Sg	17 12 17.5	0.9			
			LN			8.0	45.1	
HHC	2.0	298	Pg	17 11 59.8	3.4			
			Sg	17 12 26.6	3.2			
TIY	2.5	207	Pn	17 12 02.5	0.5			
			Pg	17 12 05.0	0.0			
			Sg	17 12 36.7	−2.3			
			SMN	M_L=4.5		0.6	2.93	
			SME			0.6	2.86	
BTO	3.0	284	ePg	17 12 16.0	1.3			
			Sg	17 12 53.0	−2.9			
			LN	M_S=4.6		9.0	11.5	
			LE			8.0	12.1	
TIA	4.5	144	Pg	17 12 45.5	4.7			
			Sg	17 13 39.2	−3.2			
			SMN	M_L=4.4		0.9	0.61	
			SME			0.8	0.51	
DL2	6.1	97	Pn	17 12 53.0	1.6			
			Pg	17 13 14.6	6.1			
			Sg	17 14 34.6	2.8			
			SMN	M_L=5.0		1.2	1.43	
			SME			1.2	0.60	
SNY	7.6	72	iPn	17 13 13.2	1.1			
			ePg	17 13 41.0	6.0			
			Sg	17 15 19.2	0.3			
			SMN	M_L=5.2		1.2	1.23	
			SME			1.2	0.42	
LZH	8.8	247	eP	17 13 30.0	−1.6			
WHN	9.4	177	P	17 13 40.5	1.1			
GTA	10.9	272	eP	17 13 59.0	−1.0			
			SMN			1.0	0.20	
			SME			1.0	0.17	
CD2	12.2	226	eP	17 14 15.0	−3.2			
GYA	14.7	206	P	17 14 56.0	4.4			

OCT 18d 17h 26m 26.4±0.06s, SD1.55/31
39.86 N±0.69km, 113.82 E±0.58km, h11±0.14km
North-Eastern China (658)
M_L4.3/12,

BJI	1.8	84	Pg	17 26 58.5	−0.1			
			Sg	17 27 22.5	−0.9			
			LN			8.0	12.5	
HHC	2.0	300	Pn	17 27 01.7	1.2			
			Pg	17 27 03.2	1.7			
			Sg	17 27 30.4	1.8			
TIY	2.4	207	Pn	17 27 08.7	2.5			
			Pg	17 27 11.3	2.5			
			Sg	17 27 43.2	1.5			
			SMN	M_L=4.6		1.0	2.92	
			SME			1,0	3.80	
BTO	3.0	285	iPg	17 27 20.8	1.2			
			Sg	17 27 58.0	−2.4			
			SMN	M_L=4.0		0.4	0.53	
			SME			0.4	0.57	
TIA	4.5	143	ePn	17 27 35.3	0.6			
			Pg	17 27 47.9	2.4			
			Sg	17 28 45.0	−1.8			
			SMN	M_L=4.1		1.1	0.29	
			SME			0.7	0.27	
XAN	7.0	216	Pn	17 28 11.0	1.6			
			Pg	17 28 32.0	1.9			
			Sg	17 30 04.0	−2.0			
SNY	7.7	72	ePn	17 28 18.6	0.4			
			ePg	17 28 44.3	2.8			
			Sg	17 30 27.8	1.6			
			SMN	M_L=4.6		1.2	0.29	
			SME			1.2	0.083	
LZH	8.7	248	eP	17 28 34.5	−1.5			
WHN	9.3	177	eP	17 28 44.0	0.3			
			pP	17 28 46.0	−2.7			
			SMN			1.0	0.11	
			SME			1.0	0.090	
CN2	9.5	62	eP	17 28 48.0	1.2			
GTA	10.8	272	eP	17 29 03.0	−1.7			
CD2	12.1	226	eP	17 29 24.0	1.6			

OCT 18d 17h 30m 11.6±0.08s, SD1.20/33
51.29 N±2.51km, 179.11 E±1.20km, h32±0.16km
Rat Islands (6)
m_b5.1/2,

SSE	46.7	267	P	17 38 40.5	1.0			
			PMZ	m_b=5.1		1.0	0.028	
NJ2	47.5	270	−P	17 38 46.2	0.3			
WHN	51.4	272	+P	17 39 15.5	0.0			
XAN	52.4	280	P	17 39 23.0	−0.4			
GTA	54.4	291	+iP	17 39 38.2	−0.1			
WMQ	58.3	302	P	17 40 06.0	−0.1			
GYA	59.0	275	eP	17 40 10.0	−1.4			
KSH	67.5	305	P	17 41 08.4	1.0			

OCT 18d 17h 30m 18.4±0.08s, SD2.17/13
39.93 N±0.78km, 113.85 E±0.79km, h5±km
North-Eastern China (658)
M_L3.8/13,

BJI	1.8	86	Pg	17 30 49.0	−1.0			
			Sg	17 31 13.0	−1.4			
			SMN	M_L=3.1		0.8	0.25	
			SME			0.8	0.13	
HHC	2.0	298	Pg	17 30 53.6	0.1			
			Sg	17 31 19.8	−0.5			
			SMN	M_L=3.8		0.8	0.76	
			SME			0.8	0.91	
TIY	2.5	207	Pg	17 31 03.8	1.5			
			Sg	17 31 34.7	−1.3			
			SMN	M_L=3.9		0.7	0.48	
			SME			0.8	1.04	
BTO	3.0	284	Pg	17 31 12.2	0.4			
			Sg	17 31 49.4	−3.3			
			SMN	M_L=3.6		0.4	0.28	
			SME			0.4	0.16	
TIA	4.5	144	Pg	17 31 37.9	−0.5			
			Sg	17 32 35.9	−4.2			
			SMN	M_L=3.5		0.4	0.044	
			SME			0.6	0.11	

OCT 18d 18h 10m 36.6±0.05s, SD1.71/8
39.86 N±0.48km, 113.84 E±0.44km, h18±0.07km
North-Eastern China (658)
M_L3.2/8,

BJI	1.8	84	Pn	18 11 06.0	−1.3			
			Pg	18 11 07.5	−1.1			
			Sg	18 11 31.5	−1.9			
			SMN	M_L=2.8		0.5	0.11	
			SME			0.5	0.070	
HHC	2.0	300	Pg	18 11 11.0	−1.2			
			Sg	18 11 38.7	−0.7			
			SMN	M_L=3.1		0.8	0.15	
			SME			0.8	0.17	
TIY	2.4	208	Pg	18 11 19.4	0.0			
			Sg	18 11 51.2	−1.0			
			SMN	M_L=3.2		0.6	0.10	
			SME			0.7	0.20	

OCT 18d 18h 20m 46.0 ± 0.07s, SD1.71 / 79
39.92 N ± 0.87km, 113.87 E ± 0.78km, h7 ± 0.06km
North-Eastern China (658)
M_S5.5 / 42, M_L5.9 / 5, m_B6.4 / 4,

BJI	1.8	85	-Pg	18 21 19.5	2.2			
			Sg	18 21 43.5	1.9			
			LN			8.0	451	
HHC	2.0	299	Pg	18 21 22.4	1.1			
			Sg	18 21 50.4	2.0			
TIY	2.5	207	Pn	18 21 28.8	1.7			
			Pg	18 21 31.4	1.8			
			Sg	18 22 02.4	-1.1			
			LN			6.0	211	
			LE			6.0	365	
BTO	3.0	284	Pn	18 21 36.0	1.3			
			Pg	18 21 40.0	0.6			
			Sg	18 22 17.0	-3.8			
			LN	M_S = 5.0		7.0	24.5	
			LE			7.0	27.7	
TIA	4.5	144	Pn	18 21 50.8	-4.1			
			Pg	18 22 09.0	3.5			
			LN	M_S = 5.1		10.0	36.3	
DL2	6.1	97	ePn	18 22 19.0	2.3			
			Sg	18 24 03.6	6.8			
			SMN	M_L = 5.6		1.2	3.74	
			SME			1.2	4.74	
			LN	M_S = 5.3		10.0	23.7	
			LE			10.0	18.8	
XAN	7.1	216	Pn	18 22 30.8	0.5			
			Pg	18 22 54.0	3.1			
			Sg	18 24 25.0	-2.7			
SNY	7.6	72	iPn	18 22 39.8	2.4			
			Pg	18 23 05.5	5.4			
			Sg	18 24 40.6	-3.4			
			LZ	M_S = 5.2		10.0	17.1	
LZH	8.8	247	-P	18 22 57.0	0.2			
			LN	M_S = 5.5		9.0	20.3	
			LE			9.0	11.5	
			LZ	M_S = 5.3		10.0	18.1	
NJ2	8.8	151	-P	18 22 57.0	0.0			
			eS	18 24 44.0	6.3			
			LN	M_S = 5.4		11.0	15.5	
			LE			10.0	15.7	
WHN	9.4	177	eP	18 23 04.0	-0.5			
			pP	18 23 09.5	0.6			
			SMN			1.0	1.10	
			SME			1.5	3.94	
			LN	M_S = 5.5		4.0	9.69	
			LE			9.0	15.7	
			LZ			1.0	8.92	
CN2	9.5	62	eP	18 23 05.2	-0.7			
			eS	18 24 52.2	-1.5			
			LN	M_S = 5.5		7.0	13.0	
			LE			7.0	12.0	
SSE	10.6	144	eP	18 23 21.0	-0.9			
			pP	18 23 26.5	0.2			
			SMN			1.5	1.36	
			SME			1.5	1.45	
			LN	M_S = 5.3		8.0	7.53	
			LE			8.0	4.89	
			LZ	M_S = 4.4		20.0	3.72	
GTA	10.9	272	eP	18 23 22.0	-3.2			
			LN	M_S = 5.6		10.0	22.0	
			LZ	M_S = 5.5		10.0	23.6	
CD2	12.2	226	eP	18 23 42.0	-1.3			
			eS	18 26 07.5	6.8			
			LE	M_S = 5.3		17.0	18.2	
			LZ	M_S = 5.3		10.0	42.0	
MDJ	12.6	63	eP	18 23 48.5	0.4			
			S	18 26 06.0	-2.8			
			LE	M_S = 5.7		8.0	20.6	
GYA	14.7	206	P	18 24 17.8	1.1			
			pP	18 24 25.0	4.3			
			S	18 27 07.0	6.7			
			LN	M_S = 5.8		12.0	19.6	
			LE			12.0	20.7	
			LZ	M_S = 5.1		16.0	10.2	
QZH	15.5	164	eP	18 24 27.0	0.8			
			eS	18 27 18.5	0.1			
			LN	M_S = 5.3		10.0	7.14	
			LZ	M_S = 5.2		11.0	8.51	
GZH	16.8	182	P	18 24 47.4	4.1			
			LN	M_S = 5.8		6.0	4.40	
			LE			9.0	16.3	
			LZ	M_S = 5.3		12.0	8.40	
WMQ	19.8	290	+P	18 25 20.5	-0.1			
			PMZ			3.0	1.87	
			eS	18 29 00.0	1.1			
			sS	18 29 05.0	-0.4			
			LN	M_S = 5.4		9.0	5.35	
			LZ	M_S = 5.5		8.0	7.10	
QZN	21.1	191	-P	18 25 37.6	3.8			
			eS	18 29 27.0	2.8			
			LE	M_S = 5.9		13.0	20.2	
LSA	21.2	248	P	18 25 36.8	1.5			
			PMZ			3.0	2.80	
			sP	18 25 48.0	5.4			
			S	18 29 30.0	4.6			
			LE	M_S = 5.9		7.0	12.3	
			LZ	M_S = 5.6		11.0	11.9	
KSH	29.1	282	eP	18 26 51.0	1.5			
			pP	18 26 58.0	3.7			
			PP	18 27 46.0	3.5			
			eS	18 31 42.0	1.8			
			LN	M_S = 5.7		12.0	7.60	

OCT 18d 18h 41m 24.3 ± 0.11s, SD1.16 / 57
2.18 N ± 1.50km, 126.52 E ± 1.69km, h52 ± 0.41km
Molucca Passage (266)
M_S4.8 / 4, m_b5.3 / 8,

QZN	23.4	317	-P	18 46 30.5	1.0			
			eS	18 50 39.5	4.6			
			LE	M_S = 4.6		10.0	0.65	
QZH	23.9	342	eP	18 46 34.3	0.0			
GZH	24.4	329	P	18 46 37.0	-2.2			
			LZ	M_S = 4.4		30.0	1.80	
SSE	29.2	351	eP	18 47 24.0	0.5			
			PMZ	m_b = 5.1		0.8	0.029	
			pP	18 47 38.0	2.0			
			LZ	M_S = 4.4		20.0	0.96	
WHN	30.5	339	eP	18 47 34.5	-0.3			
NJ2	30.6	347	eP	18 47 35.0	-0.7			
GYA	30.8	323	P	18 47 38.6	1.1			
XAN	35.7	335	P	18 48 17.2	-3.0			
CD2	35.8	325	eP	18 48 19.6	-1.2			
DL2	36.8	354	eP	18 48 31.5	1.9			
			LE	M_S = 5.6		8.0	2.43	
			LZ	M_S = 4.6		20.0	0.91	
SNY	39.6	357	+iP	18 48 54.2	1.8			
LZH	39.7	331	+P	18 48 54.5	0.4			
			PMZ	m_b = 5.4		2.5	0.17	
			pP	18 49 06.0	-0.7			
			LN	M_S = 4.8		10.0	0.46	
			LZ	M_S = 5.0		22.0	2.40	
CN2	41.5	359	eP	18 49 09.0	0.9			

			eS	18 55 21.0	1.8			
			LZ	M_S=4.9		18.0		1.40
MDJ	42.3	3	eP	18 49 14.5	−0.9			
LSA	43.3	313	P	18 49 25.0	1.2			
GTA	44.3	330	P	18 49 30.4	−1.2			
			LZ	M_S=4.8		22.0		1.20
WMQ	53.9	326	P	18 50 45.0	0.0			
			eS	18 58 20.0	5.4			
			LZ	M_S=4.9		26.0		1.41
KSH	59.0	316	eP	18 51 22.5	0.5			
			eS	18 59 25.0	1.9			

OCT 18d 18h 53m 25.1±0.06s, SD1.55/9
39.91 N±0.56km, 113.82 E±0.44km, h18±0.09km
North-Eastern China (658)
M_L3.3/8,

BJI	1.8	85	Pn	18 53 55.0	−1.0			
			Pg	18 53 56.5	−0.8			
			Sg	18 54 20.5	−1.7			
			SMN	M_L=2.9		0.5		0.16
			SME			0.5		0.090
HHC	2.0	299	Pg	18 53 59.0	−1.1			
			Sg	18 54 26.6	−0.2			
			SMN	M_L=3.3		0.8		0.24
			SME			0.8		0.27
TIY	2.4	207	Pg	18 54 08.0	−0.5			
			Sg	18 54 39.5	−2.3			
			SMN	M_L=3.4		0.6		0.18
			SME			0.7		0.30

OCT 18d 19h 37m 51.9±0.08s, SD2.31/18
39.84 N±0.63km, 113.90 E±0.70km, h3±0.30km
North-Eastern China (658)
M_L3.5/17,

BJI	1.8	83	Pn	19 38 21.5	−2.1			
			Pg	19 38 23.0	0.0			
			Sg	19 38 47.0	−0.1			
			SMN	M_L=3.0		0.5		0.17
			SME			0.5		0.12
			LN			8.0		1.30
HHC	2.1	300	iPg	19 38 25.6	−2.7			
			Sg	19 38 53.4	−2.8			
			SMN	M_L=3.5		0.8		0.35
			SME			0.6		0.49
TIY	2.4	209	Pn	19 38 33.8	1.2			
			Pg	19 38 36.3	1.8			
			Sg	19 39 07.5	0.0			
			SMN	M_L=3.6		0.6		0.19
			SME			0.9		0.50
BTO	3.1	286	Pg	19 38 44.5	−1.8			
			Sg	19 39 21.9	−6.1			
			SMN	M_L=3.2		0.4		0.10
			SME			0.4		0.070
TIA	4.4	144	ePg	19 39 11.8	1.6			
			Sg	19 40 09.4	−1.2			
			SMN	M_L=3.0		0.5		0.031
			SME			0.5		0.025
XAN	7.0	216	Pn	19 39 37.0	1.0			
			Pg	19 39 57.0	1.0			
			Sg	19 41 33.5	1.5			
			SMN	M_L=3.7		1.2		0.039
			SME			1.2		0.024

OCT 18d 19h 46m 33.0±0.04s, SD1.77/14
39.86 N±0.40km, 113.82 E±0.40km, h1±0.11km
North-Eastern China (658)
M_L3.3/13,

BJI	1.8	84	−Pg	19 47 04.0	−1.2			
			Sg	19 47 28.0	−2.9			
			SMN	M_L=3.0		0.5		0.16
			SME			0.5		0.10
HHC	2.0	300	Pg	19 47 07.4	−0.9			
			Sg	19 47 34.0	−1.2			
			SMN	M_L=3.7		0.6		0.54
			SME			0.8		0.67
TIY	2.4	207	Pn	19 47 13.2	−0.6			
			Pg	19 47 16.0	0.5			
			Sg	19 47 48.0	−0.4			
			SMN	M_L=2.9		0.6		0.050
			SME			0.7		0.090
BTO	3.0	285	ePg	19 47 25.1	−1.1			
			Sg	19 48 03.4	−3.6			
			SMN	M_L=3.0		0.4		0.070
			SME			0.4		0.050

OCT 18d 21h 02m 02.5±0.08s, SD2.13/56
39.97 N±1.09km, 113.95 E±0.94km, h9±0.12km
North-Eastern China (658)
M_S4.6/8, M_L4.5/15, m_B4.9/1,

BJI	1.7	87	−Pg	21 02 34.5	1.7			
			Sg	21 02 58.5	2.3			
			LN			8.0		21.5
			LZ			8.0		3.60
HHC	2.0	297	iPn	21 02 37.6	0.3			
			Pg	21 02 39.1	0.9			
			Sg	21 03 05.6	−0.3			
TIY	2.5	208	Pn	21 02 45.2	0.8			
			Pg	21 02 48.4	1.0			
			Sg	21 03 20.8	−1.5			
			SMN	M_L=4.5		0.8		1.80
			SME			1.0		3.50
BTO	3.1	283	ePn	21 02 53.8	2.1			
			iPg	21 02 57.0	0.3			
			Sg	21 03 35.7	−3.0			
			SMN	M_L=4.0		0.4		0.63
			SME			0.4		0.63
TIA	4.5	145	Pn	21 03 11.8	0.4			
			Pg	21 03 24.7	2.6			
			Sg	21 04 23.1	−0.7			
			SMN	M_L=4.1		0.6		0.25
			SME			0.6		0.36
DL2	6.0	98	Pn	21 03 35.0	2.7			
			Pg	21 03 55.5	6.4			
			Sg	21 05 14.5	2.8			
			SMN	M_L=4.5		1.2		0.43
			SME			1.2		0.24
XAN	7.2	216	Pn	21 03 48.3	0.5			
			Pg	21 04 12.0	3.2			
			Sg	21 05 46.2	−0.4			
			SMN	M_L=4.7		1.2		0.39
			SME			1.2		0.24
SNY	7.5	73	Pn	21 03 54.3	1.5			
			Pg	21 04 20.0	4.6			
			Sg	21 06 01.0	2.7			
			SMN	M_L=4.8		1.2		0.43
			SME			1.0		0.16
NJ2	8.8	152	eP	21 04 12.5	−1.1			
			eS	21 05 56.0	1.7			
			LN			1.2		0.088
			LE			1.0		0.10
LZH	8.9	247	eP	21 04 11.0	−3.1			
			LN	M_S=4.4		7.0		1.33
			LZ	M_S=3.7		16.0		0.70
CN2	9.4	62	eP	21 04 20.0	−1.2			
WHN	9.4	178	eP	21 04 25.5	4.0			
			SMN			1.5		0.15

			SME			1.0	0.040	
GTA	10.9	272	eP	21 04 39.4	−2.9			
			SMN			1.4	0.20	
			SME			1.0	0.062	
			LN	$M_S = 4.2$		11.0	1.16	
			LZ	$M_S = 4.2$		9.0	1.00	
GYA	14.8	206	P	21 05 38.2	4.2			
			LN	$M_S = 4.6$		12.0	1.30	
			LE			12.0	1.30	
WMQ	19.9	290	P	21 06 37.5	0.2			
			pP	21 06 41.5	−0.6			
			eS	21 10 14.0	−1.9			
			SME			2.0	0.090	

OCT 18d 23h 30m 09.9 ± 0.06s, SD1.03 / 33
56.69 N ± 1.34km, 152.25 W ± 0.95km, h36 ± 0.37km
Kodiak Island region (13)

MDJ	48.3	291	eP	23 38 50.0	−0.5			
CN2	51.0	293	P	23 39 10.5	−0.7			
			pP	23 39 16.4	−4.7			
SNY	53.4	292	+P	23 39 28.8	−0.1			
HHC	60.1	300	P	23 40 17.0	0.2			
WHN	66.8	290	−P	23 41 01.0	0.2			
WMQ	68.0	317	P	23 41 08.5	0.5			
GYA	74.1	294	eP	23 41 45.0	0.1			

OCT 18d 23h 54m 23.8 ± 0.08s, SD2.74 / 10
39.76 N ± 0.76km, 113.84 E ± 0.67km, h9 ± 0.40km
North−Eastern China (658)
M_L3.3 / 10,

BJI	1.8	80	Pn	23 54 55.2	−0.4			
			Pg	23 54 56.5	0.6			
			Sg	23 55 20.5	−0.2			
			SMN	$M_L = 3.0$		0.5	0.17	
			SME			0.5	0.090	
HHC	2.1	303	Pg	23 54 59.2	−1.1			
			Sg	23 55 27.0	−1.2			
			SMN	$M_L = 3.3$		0.6	0.26	
			SME			0.8	0.17	

OCT 19d 02h 43m 09.9 ± 0.06s, SD1.96 / 10
39.85 N ± 0.63km, 113.86 E ± 0.51km, h15 ± 0.21km
North−Eastern China (658)
M_L3.4 / 10,

BJI	1.8	83	Pn	02 43 40.0	−0.7			
			Pg	02 43 41.0	−0.6			
			Sg	02 44 05.0	−1.2			
			SMN	$M_L = 2.9$		0.5	0.14	
			SME			0.5	0.10	
HHC	2.0	300	Pg	02 43 44.8	−1.0			
			Sg	02 44 12.0	−1.3			
			SMN	$M_L = 3.1$		0.6	0.070	
			SME			0.6	0.21	
TIY	2.4	208	iPg	02 43 53.1	0.5			
			Sg	02 44 24.4	−1.0			
			SMN	$M_L = 3.5$		0.7	0.15	
			SME			0.7	0.47	
BTO	3.0	285	ePg	02 44 01.6	−2.1			
			Sg	02 44 40.0	−5.1			
			SMN	$M_L = 3.1$		0.4	0.070	
			SME			0.4	0.070	

OCT 19d 02h 57m 36.8 ± 0.06s, SD1.96 / 8
39.87 N ± 0.39km, 113.95 E ± 0.51km, h5 ± 0.19km
North−Eastern China (658)
M_L3.3 / 8,

BJI	1.7	84	Pn	02 58 07.0	−0.7			
			Pg	02 58 08.0	0.8			
			Sg	02 58 32.0	1.2			
			SMN	$M_L = 2.7$		0.5	0.095	
			SME			0.5	0.069	
HHC	2.1	299	Pg	02 58 12.0	−1.5			
			Sg	02 58 39.4	−2.2			
			SMN	$M_L = 3.3$		0.8	0.18	
			SME			0.8	0.25	
TIY	2.5	209	ePg	02 58 19.8	−0.6			
			Sg	02 58 49.8	−4.0			
			SMN	$M_L = 3.3$		0.4	0.13	
			SME			0.5	0.24	

OCT 19d 03h 14m 37.8 ± 0.05s, SD2.51 / 8
39.90 N ± 0.53km, 113.95 E ± 0.44km, h7 ± 0.07km
North−Eastern China (658)
M_L3.2 / 8,

BJI	1.7	85	Pg	03 15 08.0	−0.2			
			Sg	03 15 32.0	0.4			
			SMN	$M_L = 2.9$		0.5	0.13	
			SME			0.5	0.12	
HHC	2.1	298	−Pn	03 15 14.2	1.0			
			Sg	03 15 43.0	0.9			
			SMN	$M_L = 3.2$		0.8	0.13	
			SME			0.8	0.25	
TIY	2.5	209	Pn	03 15 20.4	1.3			
			Pg	03 15 23.2	1.4			
			Sg	03 15 54.6	−1.2			
			SMN	$M_L = 3.2$		0.6	0.13	
			SME			0.6	0.16	

OCT 19d 03h 59m 14.8 ± 0.10s, SD2.78 / 10
39.76 N ± 0.94km, 113.84 E ± 0.88km, h18 ± 0.08km
North−Eastern China (658)
M_L3.3 / 10,

BJI	1.8	81	Pn	03 59 44.5	−1.3			
			Pg	03 59 45.5	−1.6			
			Sg	04 00 09.5	−2.5			
			SMN	$M_L = 2.8$		0.5	0.11	
			SME			0.5	0.076	
HHC	2.0	303	−Pn	03 59 49.2	0.1			
			Sg	04 00 17.4	−1.8			
			SMN	$M_L = 3.3$		0.8	0.15	
			SME			0.8	0.35	
TIY	2.3	209	iPg	03 59 55.0	−1.1			
			Sg	04 00 29.3	1.5			
			SMN	$M_L = 3.2$		0.5	0.11	
			SME			0.8	0.18	
BTO	3.0	287	ePg	04 00 06.0	−2.8			
			Sg	04 00 44.8	−5.5			
			SMN	$M_L = 2.9$		0.4	0.040	
			SME			0.4	0.050	

OCT 19d 04h 24m 43.5 ± 0.12s, SD3.61 / 8
39.79 N ± 1.21km, 113.94 E ± 1.07km, h17 ± 0.56km
North−Eastern China (658)
M_L3.1 / 8,

BJI	1.7	81	Pn	04 25 13.0	−0.4			
			Pg	04 25 14.0	−0.3			
			Sg	04 25 38.0	−0.2			
			SMN	$M_L = 2.8$		0.5	0.095	
			SME			0.5	0.10	
TIY	2.4	210	iPg	04 25 26.0	0.1			
			Sg	04 25 58.9	0.4			
			SMN	$M_L = 3.2$		0.4	0.13	
			SME			0.5	0.18	

OCT 19d 07h 51m 26.1 ± 0.12s, SD3.17 / 11
39.86 N ± 1.09km, 113.64 E ± 1.17km, h15 ± 0.38km

North-Eastern China (658)
M_L3.3 / 10,

BJI	2.0	84	Pn	07 51 57.0	−2.3		
			Pg	07 51 58.0	−2.8		
			Sg	07 52 22.0	−5.7		
			SMN	M_L=2.9		0.5	0.13
			SME			0.5	0.080
TIY	2.3	204	iPg	07 52 10.2	2.6		
			Sn	07 52 37.4	2.7		
			Sg	07 52 39.8	0.3		
			SMN	M_L=3.3		0.4	0.15
			SME			0.8	0.23
TIA	4.6	142	Pg	07 52 45.0	−1.8		
			Sg	07 53 42.6	−6.6		
			SMN	M_L=3.1		0.9	0.032
			SME			0.6	0.033

OCT 19d 09h 49m 58.1±0.05s, SD1.06 / 100
49.94 N±0.92km, 78.93 E±0.82km, h9±0.18km
Eastern Kazakhstan (329)
M_S5.0 / 20, M_L5.8 / 3, m_B6.1 / 3,

WMQ	8.6	132	+iP	09 52 05.0	−0.7		
			S	09 53 40.0	−3.2		
			LN	M_S=5.0		9.0	8.66
			LZ	M_S=4.7		13.0	6.45
KSH	10.6	193	eP	09 52 33.5	−0.7		
			LN	M_S=5.2		9.0	8.30
			LZ	M_S=5.1		10.0	9.50
GTA	18.1	118	−iP	09 54 11.6	−0.8		
			LE	M_S=4.9		6.0	1.22
			LZ	M_S=4.6		12.0	1.81
LSA	22.2	151	+P	09 54 59.2	1.7		
LZH	22.7	118	+iP	09 55 02.5	0.2		
			PMZ	m_b=5.8		1.5	0.58
			pP	09 55 07.0	−0.3		
			eS	09 59 03.0	−3.6		
			LE	M_S=4.9		8.0	1.10
			LZ	M_S=4.5		18.0	1.50
BTO	23.6	101	P	09 55 12.0	1.0		
			pP	09 55 18.0	2.0		
			eS	09 59 26.0	3.6		
			LN	M_S=5.2		10.0	1.90
			LE			9.0	1.60
			LZ	M_S=5.0		10.0	2.20
HHC	24.5	99	eP	09 55 20.0	0.8		
CD2	26.6	126	+iP	09 55 39.9	0.9		
			eS	10 00 14.0	1.9		
			LN	M_S=4.9		10.0	1.01
			LZ	M_S=4.5		12.0	0.83
TIY	26.9	104	eP	09 55 42.0	0.6		
			PMZ	m_b=5.5		0.9	0.090
			S	10 00 21.0	5.7		
			LN	M_S=5.1		11.0	1.46
			LE			10.0	1.16
			LZ	M_S=5.1		11.0	2.60
XAN	27.1	114	+P	09 55 44.0	0.1		
BJI	27.9	96	+iP	09 55 51.0	0.4		
			PMZ	m_b=5.5		1.0	0.097
			LN	M_S=4.9		12.0	0.78
			LE			11.0	0.97
			LZ	M_S=5.2		12.0	3.32
TIA	30.7	102	+P	09 56 16.5	0.3		
KMI	30.9	135	+P	09 56 17.0	−0.8		
			pP	09 56 23.0	0.1		
GYA	31.7	127	+P	09 56 25.0	0.3		
			PMZ	m_b=6.2		1.0	0.37
			PcP	09 59 16.0	0.2		
			S	10 01 30.4	−1.9		
			PcS	10 03 00.0	0.9		
SNY	31.7	87	+iP	09 56 24.0	−0.9		
			PMZ	m_b=5.6		0.8	0.088
			LN	M_S=5.1		12.0	0.85
			LE			14.0	1.29
			LZ	M_S=4.9		13.0	1.78
CN2	32.0	83	+iP	09 56 26.6	−0.5		
			PMZ	m_b=5.7		0.8	0.10
			pP	09 56 31.8	−0.6		
			iPcP	09 59 15.8	−0.8		
			eS	10 01 36.0	−1.6		
			LN	M_S=5.2		9.0	0.80
			LE			9.0	1.00
			LZ	M_S=5.1		12.0	2.50
DL2	32.0	94	eP	09 56 28.0	0.5		
			PMZ	m_b=5.3		0.8	0.040
			LN	M_S=5.0		10.0	0.92
			LZ	M_S=4.6		15.0	0.90
WHN	32.8	113	+iP	09 56 34.9	0.3		
			PMZ	m_b=5.7		0.6	0.069
MDJ	34.2	79	+P	09 56 46.0	−0.8		
NJ2	34.5	106	−P	09 56 49.2	−0.1		
			PMZ	m_b=6.0		0.8	0.17
			PcP	09 59 23.7	0.0		
			LN	M_S=5.0		9.0	0.63
			LE			9.0	0.47
SSE	36.6	105	−P	09 57 07.3	0.2		
			PMZ	m_b=5.4		1.0	0.071
			pP	09 57 09.7	−2.8		
			PcP	09 59 28.8	−1.0		
			LN	M_S=4.7		12.0	0.51
			LZ	M_S=4.8		12.0	0.91
QZN	39.5	130	+P	09 57 31.9	0.8		
QZH	39.5	114	eP	09 57 30.5	−0.7		

OCT 19d 10h 29m 03.5±0.07s, SD1.96 / 66
39.94 N±0.88km, 113.88 E±0.75km, h10±0.06km
North-Eastern China (658)
M_S4.9 / 28, M_L5.0 / 9, m_B5.6 / 4,

BJI	1.8	86	Pg	10 29 36.0	1.3		
			Sg	10 30 00.0	1.1		
			LN			8.0	70.9
			LE			8.0	29.7
HHC	2.0	298	Pn	10 29 39.6	1.9		
			Sg	10 30 08.2	2.3		
			LN			6.0	72.2
			LE			6.0	62.5
TIY	2.5	207	Pn	10 29 46.6	2.0		
			Pg	10 29 49.2	1.7		
			Sg	10 30 21.8	0.1		
			LE			7.0	17.1
			LZ			9.0	2.16
BTO	3.0	284	ePn	10 29 54.0	2.0		
			Pg	10 29 58.0	1.0		
			Sg	10 30 35.5	−2.9		
			LN	M_S=4.9		7.0	22.8
			LE			7.0	16.7
TIA	4.5	144	Pn	10 30 13.0	0.7		
			Pg	10 30 27.2	4.0		
			Sg	10 31 22.4	−2.6		
DL2	6.1	97	Pn	10 30 35.6	1.8		
			Sg	10 32 19.0	4.8		
			SMN	M_L=5.0		1.4	1.69
			SME			1.2	0.54
XAN	7.1	216	Pn	10 30 49.2	1.3		
			Pg	10 31 14.5	5.7		
			SMN	M_L=5.0		1.0	0.80
			SME			1.0	0.50

SNY	7.6	72	iPn	10 30 55.5	1.1			
			Pg	10 31 21.3	3.9			
			Sg	10 33 01.0	−0.1			
			LN	M_S=4.8		6.0	2.74	
			LE			7.0	3.44	
			LZ	M_S=4.7		14.0	7.17	
LZH	8.8	247	eP	10 31 13.0	−1.2			
			LN	M_S=4.9		8.0	4.90	
			LE			10.0	4.00	
			LZ	M_S=4.4		16.0	3.60	
NJ2	8.8	151	eP	10 31 14.0	−0.4			
			eS	10 32 57.0	2.0			
			LN	M_S=4.5		8.0	1.45	
			LE			8.0	1.74	
WHN	9.4	178	eP	10 31 20.5	−1.4			
			SMN			1.4	1.38	
			SME			1.5	1.00	
			LN	M_S=4.7		8.0	2.95	
			LE			10.0	1.03	
CN2	9.5	62	eP	10 31 22.0	−0.9			
			eS	10 33 09.0	−1.3			
			LN	M_S=5.2		7.0	5.72	
			LE			7.0	5.19	
SSE	10.6	144	eP	10 31 39.0	−0.3			
			eS	10 33 40.0	0.5			
			SMN			1.0	0.054	
			SME			1.1	0.083	
			LN	M_S=4.5		12.0	1.67	
			LE			12.0	1.98	
			LZ	M_S=4.3		13.0	1.79	
GTA	10.9	272	eP	10 31 40.0	−2.5			
			LN	M_S=4.8		10.0	3.91	
			LZ	M_S=4.6		14.0	4.10	
CD2	12.2	226	eP	10 31 59.0	−1.7			
			LE	M_S=5.2		11.0	8.53	
MDJ	12.5	63	eP	10 32 04.0	−1.0			
			LZ	M_S=4.7		13.0	3.64	
GYA	14.7	206	P	10 32 34.6	0.4			
			LN	M_S=5.3		12.0	4.30	
			LE			12.0	6.50	
			LZ	M_S=4.4		16.0	1.80	
KMI	17.5	216	eP	10 33 10.0	0.5			
			sP	10 33 18.0	0.5			
			S	10 36 24.0	2.2			
			LN	M_S=5.4		12.0	4.60	
			LE			12.0	6.30	
WMQ	19.8	290	P	10 33 39.0	1.3			
			eS	10 37 19.5	3.7			
			sS	10 37 24.5	1.5			
			LN	M_S=4.8		10.0	1.31	
			LZ	M_S=4.6		11.0	1.39	
LSA	21.2	248	P	10 33 54.8	2.2			
KSH	29.1	282	eP	10 35 02.5	−4.1			

OCT 19d 12h 32m 15.3±0.09s, SD2.30/27
39.84 N±0.86km, 113.88 E±0.75km, h9±0.27km
North−Eastern China (658)
M_L3.8/19,

BJI	1.8	83	Pn	12 32 48.0	1.5			
			Pg	12 32 49.0	2.3			
			Sg	12 33 13.0	2.1			
HHC	2.0	300	Pn	12 32 51.2	0.9			
			Pg	12 32 52.0	0.7			
			Sg	12 33 19.6	0.4			
			SMN	M_L=3.9		0.8	0.80	
			SME			0.8	0.95	
TIY	2.4	209	Pn	12 32 58.2	2.8			
			Pg	12 33 00.2	2.3			
			Sn	12 33 28.0	1.2			
			Sg	12 33 32.0	1.2			
			SMN	M_L=4.1		0.6	0.71	
			SME			0.8	1.52	
BTO	3.1	286	Pg	12 33 10.0	0.5			
			Sg	12 33 47.4	−3.6			
			SMN	M_L=3.6		0.4	0.26	
			SME			0.4	0.21	
TIA	4.4	144	Pn	12 33 24.8	1.6			
			Pg	12 33 36.1	2.4			
			Sg	12 34 33.6	−0.7			
			SMN	M_L=3.6		0.4	0.061	
			SME			0.7	0.14	
DL2	6.1	96	ePn	12 33 50.0	4.4			
			eSg	12 35 30.0	4.4			
			SMN			2.0	0.060	
			SME			2.0	0.040	
XAN	7.0	216	Pn	12 34 01.0	2.3			
			Pg	12 34 23.7	4.4			
			Sn	12 35 22.0	1.0			
			Sg	12 35 55.0	−0.3			
			SMN	M_L=3.8		1.0	0.070	
			SME			1.0	0.020	
WHN	9.3	178	eP	12 34 31.5	−1.1			
			SMN			1.0	0.042	
			SME			1.0	0.043	
CN2	9.5	62	eP	12 34 34.0	−1.5			

OCT 19d 12h 53m 05.0±0.07s, SD1.45/14
39.84 N±0.77km, 113.82 E±0.57km, h9±0.09km
North−Eastern China (658)
M_L3.6/12,

HHC	2.0	301	Pg	12 53 39.6	−0.9			
			Sg	12 54 07.0	−0.6			
			SMN	M_L=3.6		0.8	0.39	
			SME			0.8	0.70	
TIY	2.4	207	iPg	12 53 47.0	−0.3			
			Sg	12 54 19.2	−0.6			
			SMN	M_L=3.7		0.7	0.30	
			SME			0.9	0.71	
BTO	3.0	286	Pg	12 53 56.8	−1.5			
			Sg	12 54 34.8	−4.5			
TIA	4.5	143	Pg	12 54 25.4	1.5			
			Sg	12 55 20.6	−4.2			
			SMN	M_L=3.2		0.3	0.038	
			SME			0.3	0.034	

OCT 19d 12h 58m 56.9±0.18s, SD3.91/13
39.72 N±1.36km, 113.58 E±1.55km, h1±0.47km
North−Eastern China (658)
M_L3.2/11,

BJI	2.0	80	Pg	12 59 35.0	2.4			
			Sg	12 59 59.0	−1.2			
			SMN	M_L=3.0		0.5	0.16	
			SME			0.5	0.11	
TIY	2.2	204	iPn	12 59 37.6	2.7			
			Pg	12 59 40.0	4.3			
			Sg	13 00 12.0	6.2			
			SMN	M_L=3.3		0.6	0.16	
			SME			0.8	0.27	
BTO	2.9	289	Pg	12 59 49.0	1.3			
			Sg	13 00 27.9	1.2			
			SMN	M_L=3.1		0.4	0.10	
			SME			0.4	0.060	
TIA	4.5	140	Pg	13 00 19.5	3.3			
			Sg	13 01 16.2	−1.3			
			SMN	M_L=2.8		0.5	0.015	
			SME			0.4	0.014	

OCT 19d 14h 00m 00.1±0.08s, SD2.06/25
39.91 N±0.79km, 113.89 E±0.70km, h5±0.22km
North-Eastern China (658)
M_L3.9/18,

BJI	1.8	85	Pg	14 00 32.0	0.7			
			Sg	14 00 56.0	0.6			
			SMN	M_L=3.2		0.5	0.22	
			SME			0.5	0.22	
HHC	2.0	299	iPg	14 00 36.6	0.8			
			Sg	14 01 04.6	1.5			
			SMN	M_L=4.0		0.8	1.54	
			SME			0.8	1.14	
TIY	2.5	208	iPn	14 00 44.4	3.1			
			iPg	14 00 45.6	2.0			
			Sg	14 01 18.2	0.8			
			SMN	M_L=4.1		0.8	0.90	
			SME			0.9	1.47	
BTO	3.0	284	Pg	14 00 53.7	−0.3			
			Sg	14 01 31.6	−3.8			
			SMN	M_L=3.5		0.4	0.22	
			SME			0.4	0.16	
TIA	4.5	144	Pg	14 01 21.7	2.3			
			Sg	14 02 18.3	−2.3			
			SMN	M_L=3.7		0.9	0.11	
			SME			0.5	0.11	
XAN	7.1	216	Pn	14 01 45.1	0.4			
			Pg	14 02 07.3	2.3			
			Sg	14 03 41.2	−0.5			
			SMN	M_L=3.8		1.0	0.070	
			SME			1.0	0.020	
WHN	9.3	178	eP	14 02 20.0	1.4			
CN2	9.5	62	eP	14 02 19.0	−1.3			

OCT 19d 14h 28m 25.3±0.07s, SD1.08/69
51.67 N±2.54km, 176.09 W±1.12km, h50±0.40km
Andreanof Islands (7)
M_S4.9/2, m_b5.3/11,

MDJ	36.2	281	eP	14 35 24.5	−1.0			
CN2	39.2	282	+P	14 35 50.0	−0.3			
			PMZ	m_b=5.6		1.0	0.10	
			epP	14 36 05.0	2.4			
			eS	14 41 47.0	0.6			
			LE	M_S=5.0		20.0	1.40	
			LZ	M_S=4.9		20.0	1.90	
SNY	41.4	281	+iP	14 36 10.0	1.2			
			PMZ	m_b=5.8		1.2	0.16	
			pP	14 36 23.0	1.8			
			PP	14 37 53.0	5.4			
			eS	14 42 25.0	5.2			
			LZ	M_S=4.7		24.0	1.29	
DL2	44.3	279	eP	14 36 33.0	0.3			
			PMZ	m_b=5.7		1.0	0.11	
			eS	14 43 00.0	−2.7			
			LZ	M_S=4.1		28.0	0.36	
BJI	47.0	284	eP	14 36 50.0	−3.6			
			eS	14 43 36.0	−4.3			
			esS	14 44 04.0	2.3			
			LZ	M_S=4.8		24.0	1.40	
TIA	48.8	279	+P	14 37 08.2	0.2			
HHC	49.2	287	P	14 37 13.0	1.6			
SSE	49.7	271	P	14 37 15.5	0.7			
			PMZ	m_b=5.3		1.2	0.047	
			pP	14 37 29.0	1.7			
BTO	50.3	288	eP	14 37 20.0	0.3			
NJ2	50.5	274	eP	14 37 21.5	0.6			
TIY	50.7	284	+P	14 37 24.0	1.4			
			PMZ	m_b=5.6		1.0	0.080	
			sP	14 37 44.0	3.8			
			eS	14 44 35.0	2.5			
			sS	14 44 50.0	−4.1			
			LE	M_S=4.8		10.0	0.30	
			LZ	M_S=5.0		22.0	1.55	
WHN	54.3	276	P	14 37 49.0	−0.6			
XAN	55.3	283	P	14 37 56.0	−0.5			
LZH	56.9	288	−P	14 38 08.5	0.0			
			PMZ	m_b=5.4		1.5	0.077	
			PcP	14 39 02.5	0.4			
GTA	57.0	293	eP	14 38 08.2	−1.0			
			LZ	M_S=4.9		20.0	0.90	
CD2	60.6	284	+iP	14 38 33.5	−0.2			
WMQ	60.6	304	eP	14 38 33.5	−0.5			
			PcP	14 39 17.5	0.9			
			eS	14 46 44.0	−0.7			
			LZ	M_S=4.8		20.0	0.70	
GYA	62.0	278	−P	14 38 43.8	0.5			
KMI	65.4	280	+P	14 39 05.5	−0.1			
LSA	68.9	291	P	14 39 30.6	2.3			
KSH	69.7	308	eP	14 39 33.0	0.3			
			eS	14 48 37.0	0.5			

OCT 19d 15h 27m 00.1±0.08s, SD0.85/31
21.21 S±1.87km, 179.15 W±2.09km, h653±1.00km
Fiji region (181)
m_b4.9/3,

MDJ	80.5	326	eP	15 38 08.6	0.3			
DL2	81.5	317	eP	15 38 15.0	1.4			
			PMZ	m_b=4.9		1.0	0.040	
WHN	82.0	307	eP	15 38 17.0	0.9			
SNY	82.1	321	+P	15 38 16.0	−0.4			
CN2	82.2	323	eP	15 38 16.0	−1.1			
BJI	85.6	316	eP	15 38 33.5	−0.4			
TIY	87.0	312	eP	15 38 40.5	0.4			
XAN	87.7	308	P	15 38 44.0	0.3			

OCT 19d 16h 47m 06.6±0.13s, SD1.59/62
8.21 N±2.15km, 126.71 E±2.67km, h70±0.59km
Mindanao (259)
M_S4.9/19, m_b5.1/5,

QZH	18.4	336	eP	16 51 16.0	−2.0			
			LZ	M_S=4.5		18.0	1.82	
GZH	19.6	321	P	16 51 30.0	−1.8			
			LZ	M_S=4.7		20.0	3.10	
QZN	19.6	305	−P	16 51 32.5	0.6			
			eS	16 55 06.0	1.9			
			sS	16 55 24.0	−1.4			
			LN	M_S=4.9		15.0	2.86	
SSE	23.3	348	eP	16 52 10.7	1.0			
			pP	16 52 23.0	−2.5			
			eS	16 56 17.0	3.0			
			sS	16 56 42.0	1.3			
			LN	M_S=4.6		15.0	0.79	
			LE			13.0	0.60	
			LZ	M_S=4.3		20.0	0.93	
NJ2	24.8	344	eP	16 52 27.0	3.0			
			eS	16 56 40.0	0.8			
			LE	M_S=4.7		11.0	0.87	
WHN	25.0	334	eP	16 52 25.0	−1.2			
			eS	16 56 40.0	−2.9			
			sS	16 57 06.0	−4.5			
			LN	M_S=4.9		16.0	1.98	
			LZ	M_S=4.8		18.0	2.43	
KMI	28.4	309	eP	16 52 58.5	1.5			
			pP	16 53 13.0	0.2			
			sP	16 53 20.5	−0.9			
			S	16 57 40.0	3.5			

			LE		$M_S=5.1$		18.0	2.50
			LZ		$M_S=5.1$		20.0	4.60
XAN	30.5	330	−P	16 53	13.6	−2.0		
DL2	30.9	352	eP	16 53	19.0	−0.2		
			pP	16 53	31.5	−4.0		
			eS	16 58	18.0	0.7		
			LE		$M_S=4.7$		13.0	0.74
			LZ		$M_S=4.4$		16.0	0.67
CD2	31.1	320	eP	16 53	21.0	−0.3		
			eS	16 58	19.0	−2.0		
			LN		$M_S=5.1$		15.0	1.97
			LZ		$M_S=4.8$		18.0	1.82
BJI	33.1	345	eP	16 53	37.0	−1.1		
			eS	16 58	50.0	−1.1		
			esS	16 59	16.0	−3.5		
			LZ		$M_S=4.5$		20.0	0.90
SNY	33.6	356	+P	16 53	43.3	0.7		
			S	16 59	05.0	6.5		
			LZ		$M_S=4.6$		22.0	1.24
LZH	34.7	326	eP	16 53	52.0	−0.4		
			PMZ		$m_b=5.0$		1.5	0.038
			LN		$M_S=5.1$		14.0	1.50
			LZ		$M_S=5.0$		18.0	2.50
HHC	35.2	340	P	16 53	56.8	0.4		
			LN		$M_S=4.9$		12.0	0.61
			LE				15.0	0.80
			LZ		$M_S=4.8$		20.0	1.64
CN2	35.5	358	eP	16 53	58.0	−0.7		
			eS	16 59	27.0	−1.3		
			LN		$M_S=4.7$		15.0	0.70
			LZ		$M_S=4.8$		17.0	1.50
BTO	35.5	338	eP	16 53	56.0	−3.2		
			pP	16 54	12.0	−3.7		
			eS	16 59	25.0	−4.3		
			LN		$M_S=5.1$		18.0	1.30
			LE				16.0	1.10
MDJ	36.4	3	+P	16 54	07.5	1.3		
			PP	16 55	30.0	0.0		
			S	16 59	40.0	−1.0		
GTA	39.3	326	eP	16 54	30.4	−0.7		
			LN		$M_S=4.9$		13.0	0.71
			LZ		$M_S=4.9$		16.0	1.46
LSA	39.6	307	P	16 54	36.0	2.3		
			eS	17 00	38.0	6.1		

OCT 19d 17h 56m 49.0 ± 0.09s, SD2.14 / 38
39.90 N ± 0.99km, 113.96 E ± 0.89km, h12 ± 0.13km
North−Eastern China (658)
M_L4.1 / 20,

BJI	1.7	85	Pg	17 57	20.5	1.3		
			Sg	17 57	44.5	2.0		
			LN				6.0	1.58
			LZ				8.0	1.07
HHC	2.1	298	Pg	17 57	25.8	0.1		
			Sg	17 57	53.4	−0.4		
			SMN		$M_L=3.9$		0.8	0.84
			SME				0.8	0.88
TIY	2.5	209	Pn	17 57	31.7	1.8		
			Pg	17 57	35.0	2.1		
			Sn	17 58	03.4	1.4		
			Sg	17 58	07.1	0.1		
			SMN		$M_L=4.3$		0.7	1.28
			SME				0.8	2.45
BTO	3.1	284	Pn	17 57	42.6	4.3		
			Pg	17 57	44.0	0.3		
			Sg	17 58	22.0	−4.1		
			SMN		$M_L=3.8$		0.4	0.36
			SME				0.4	0.28
TIA	4.4	145	Pn	17 57	58.8	2.1		
			Pg	17 58	11.0	3.5		
			Sg	17 59	07.8	−0.5		
			SMN		$M_L=4.0$		0.9	0.21
			SME				0.9	0.27
DL2	6.0	97	Pn	17 58	20.0	1.7		
			eSg	18 00	01.0	3.4		
			SMN		$M_L=3.9$		1.2	0.11
			SME				1.2	0.070
XAN	7.1	216	Pn	17 58	36.4	3.1		
			Pg	17 58	58.0	3.6		
			Sg	18 00	30.5	−1.0		
			SMN		$M_L=4.2$		1.0	0.13
			SME				1.0	0.060
SNY	7.5	72	Pn	17 58	40.6	1.4		
			Pg	17 59	06.3	4.2		
			Sg	18 00	48.1	2.9		
			SMN		$M_L=4.2$		1.2	0.12
			SME				1.0	0.053
WHN	9.3	178	eP	17 59	08.5	1.8		
			SMN				1.0	0.040
			SME				1.0	0.050
CN2	9.4	62	eP	17 59	07.0	−0.8		
GTA	10.9	272	eP	17 59	27.8	−0.9		
			SMN				1.0	0.032
			SME				1.0	0.017
WMQ	19.9	290	eP	18 01	24.6	0.7		

OCT 19d 23h 54m 33.9 ± 0.07s, SD1.85 / 13
39.89 N ± 0.69km, 113.87 E ± 0.65km, h16 ± 0.14km
North−Eastern China (658)
M_L3.4 / 13,

BJI	1.8	85	Pn	23 55	03.5	−1.0		
			Pg	23 55	05.0	−0.4		
			Sg	23 55	29.0	−0.7		
			SMN		$M_L=2.9$		0.5	0.14
			SME				0.5	0.10
HHC	2.0	299	Pg	23 55	08.7	−0.9		
			Sg	23 55	36.7	−0.2		
			SMN		$M_L=3.4$		0.8	0.26
			SME				0.8	0.37
TIY	2.5	208	Pg	23 55	16.5	−0.9		
			Sn	23 55	46.6	1.4		
			Sg	23 55	50.3	−0.6		
			SMN		$M_L=3.3$		0.6	0.13
			SME				0.6	0.22
BTO	3.0	285	Pg	23 55	26.6	−1.1		
			Sg	23 56	04.8	−4.3		
			SMN		$M_L=2.9$		0.4	0.050
			SME				0.4	0.050
TIA	4.5	144	ePn	23 55	41.7	0.0		
			Pg	23 55	57.0	3.9		
			Sg	23 56	51.1	−3.3		
			SMN		$M_L=3.2$		0.4	0.028
			SME				0.4	0.042

OCT 20d 03h 03m 10.5 ± 0.10s, SD2.92 / 10
39.77 N ± 1.09km, 113.90 E ± 0.86km, h11 ± 0.20km
North−Eastern China (658)
M_L3.3 / 9,

BJI	1.8	81	Pn	03 03	39.0	−2.5		
			Pg	03 03	41.5	−0.3		
			Sg	03 04	05.5	−0.5		
			SMN		$M_L=2.8$		0.5	0.10
			SME				0.5	0.077
TIY	2.4	210	ePn	03 03	50.3	0.7		
			Pg	03 03	53.2	1.1		
			Sn	03 04	20.9	0.7		

	Sg	03 04 24.5	0.2			
	SMN	$M_L = 3.3$		0.7	0.13	
	SME			1.0	0.25	

OCT 20d 03h 43m 13.1 ± 0.15s, SD1.78 / 75
0.51 N ± 1.95km, 121.42 E ± 2.13km, h104 ± 0.98km
Minahassa Peninsula (Celebes) (265)
m_b5.1 / 4,

QZN	21.6	329	eP	03 47 58.0	1.7		
			S	03 51 48.0	4.2		
QZH	24.4	354	eP	03 48 23.0	−0.6		
			eS	03 52 36.0	2.5		
			sS	03 53 14.0	2.0		
KMI	30.4	325	+P	03 49 17.5	−0.7		
WHN	30.6	348	eP	03 49 17.4	−2.4		
			pP	03 49 39.0	−3.6		
NJ2	31.5	356	−P	03 49 25.0	−2.3		
CD2	34.6	333	eP	03 49 55.2	1.1		
XAN	35.3	342	P	03 50 01.0	0.2		
TIY	37.9	348	eP	03 50 21.0	−1.5		
			S	03 56 06.0	0.6		
			LZ			22.0	0.80
DL2	38.2	0	eP	03 50 26.5	1.8		
			PMZ	$m_b = 5.4$		1.0	0.070
			pP	03 50 44.0	−4.2		
			eS	03 56 17.0	6.5		
			LZ			25.0	0.66
LZH	39.0	337	eP	03 50 30.0	−1.3		
			pP	03 50 55.0	0.4		
			LZ			40.0	1.10
BJI	39.6	354	eP	03 50 36.0	−0.5		
			epP	03 51 05.0	4.9		
			eS	03 56 32.0	0.1		
LSA	40.9	318	+P	03 50 49.0	1.5		
			eS	03 56 53.0	1.3		
HHC	41.1	349	eP	03 50 50.0	1.0		
SNY	41.2	2	eP	03 50 51.0	1.8		
			sP	03 51 20.0	−5.2		
			eS	03 56 54.0	−0.8		
BTO	41.2	347	eP	03 50 51.0	1.3		
			pP	03 51 13.0	−0.2		
			LN			15.0	0.50
			LE			16.0	1.20
CN2	43.2	4	eP	03 51 06.0	−0.2		
GTA	43.5	336	+iP	03 51 07.8	−0.3		
MDJ	44.5	8	eP	03 51 20.7	4.3		
			eS	03 57 40.0	−3.6		
			LZ			25.0	0.95
WMQ	52.5	330	P	03 52 18.0	−0.5		

OCT 20d 04h 03m 29.1 ± 0.09s, SD1.10 / 48
12.54 N ± 1.60km, 141.95 E ± 1.67km, h39 ± 0.23km
South of the Marianas (210)
m_b5.0 / 6,

WHN	31.2	309	+P	04 09 47.5	0.4		
			PMZ	$m_b = 5.2$		1.5	0.061
BJI	35.6	325	eP	04 10 24.0	−1.2		
			PMZ	$m_b = 4.9$		1.0	0.020
			eS	04 15 56.0	−1.7		
			LZ	$M_S = 4.6$		28.0	1.38
GYA	35.9	298	P	04 10 29.8	1.8		
XAN	36.9	311	P	04 10 35.7	−0.5		
KMI	39.0	294	−P	04 10 55.5	1.2		
BTO	39.6	321	eP	04 10 59.5	0.7		
CD2	39.7	304	eP	04 10 59.0	−0.5		
LZH	41.5	311	eP	04 11 15.0	0.1		
			PMZ	$m_b = 5.2$		2.0	0.070
			LZ	$M_S = 4.5$		26.0	0.80
GTA	45.8	314	P	04 11 49.0	−0.5		
WMQ	55.8	315	P	04 13 05.0	−0.5		
KSH	63.7	308	eP	04 14 00.7	1.2		

OCT 20d 04h 53m 21.5 ± 0.10s, SD1.08 / 55
12.55 N ± 1.88km, 141.90 E ± 1.48km, h40 ± 0.19km
South of the Marianas (210)
M_S4.9 / 10, m_B5.7 / 1, m_b5.1 / 5,

SSE	26.6	317	eP	04 58 58.0	0.0		
			eS	05 03 25.0	−2.8		
			sS	05 03 41.0	−4.1		
			LN	$M_S = 4.8$		11.0	1.01
WHN	31.1	309	eP	04 59 35.0	−3.9		
			pP	04 59 48.0	−1.2		
			LZ	$M_S = 4.5$		28.0	1.51
DL2	31.8	329	eP	04 59 45.0	−0.1		
			eS	05 04 52.0	0.4		
			LE	$M_S = 4.7$		12.0	0.67
			LZ	$M_S = 4.6$		24.0	1.33
CN2	34.2	339	eP	05 00 04.5	−1.3		
			eS	05 05 28.0	−0.8		
			LN	$M_S = 4.9$		17.0	1.30
			LZ	$M_S = 4.9$		20.0	2.20
BJI	35.5	325	eP	05 00 16.5	−0.7		
			PMZ	$m_b = 5.1$		2.0	0.060
			eS	05 05 48.0	−1.3		
			LN	$M_S = 5.1$		20.0	2.30
			LZ	$M_S = 4.8$		24.0	1.91
GYA	35.8	298	P	05 00 20.0	0.1		
TIY	36.3	319	eP	05 00 23.0	−0.9		
			S	05 06 00.0	−0.4		
			LE	$M_S = 4.9$		13.0	0.91
			LZ	$M_S = 4.9$		20.0	1.88
HHC	38.7	322	P	05 00 46.0	1.8		
			LZ	$M_S = 4.8$		16.0	1.18
KMI	39.0	294	−P	05 00 47.5	1.3		
			sP	05 01 01.5	0.5		
BTO	39.5	321	P	05 00 52.0	1.3		
			sP	05 01 05.5	−0.2		
			PP	05 02 28.0	2.3		
			eS	05 06 54.5	4.1		
			LN	$M_S = 4.9$		15.0	0.80
			LE			15.0	0.40
CD2	39.6	304	eP	05 00 51.6	0.3		
LZH	41.5	311	+P	05 01 08.0	1.2		
			PMZ	$m_b = 5.4$		2.5	0.14
			PMZ	$m_B = 5.7$		5.0	0.54
			eS	05 07 20.0	0.6		
			LE	$M_S = 4.9$		14.0	0.72
			LZ	$M_S = 5.0$		16.0	1.58
GTA	45.7	314	−P	05 01 41.6	0.2		
			LZ	$M_S = 4.7$		22.0	0.93
KSH	63.6	308	eP	05 03 51.5	0.0		
			pP	05 03 58.5	−3.8		
			eS	05 12 21.0	−0.3		

OCT 20d 06h 48m 00.3 ± 0.07s, SD2.39 / 8
41.75 N ± 0.71km, 82.55 E ± 0.73km, h8 ± 0.21km
Southern Xinjiang Province (321)
M_L3.6 / 7,

WMQ	4.3	60	ePn	06 49 08.6	1.8		
			Sg	06 50 12.2	−3.5		
			SMN	$M_L = 3.5$		0.9	0.080
			SME			0.9	0.070

OCT 20d 07h 43m 34.1 ± 0.12s, SD1.37 / 91
0.04 S ± 1.72km, 123.16 E ± 2.00km, h153 ± 0.85km
Minahassa Peninsula (Celebes) (265)

m_b5.4 / 10,								
QZN	23.0	326	−P	07 48 29.3	2.6			
			S	07 52 19.0	−2.8			
QZH	25.2	350	eP	07 48 48.3	0.7			
GYA	30.8	330	−P	07 49 38.6	0.8			
			PcP	07 52 31.2	0.4			
			S	07 54 30.0	2.3			
			ScP	07 55 58.2	0.6			
SSE	31.0	357	P	07 49 39.3	−0.5			
			PMZ	m_b = 4.6		1.0	0.012	
WHN	31.5	345	P	07 49 45.2	0.8			
			PMZ	m_b = 5.5		1.5	0.15	
			PcP	07 52 33.5	0.6			
KMI	31.9	323	−P	07 49 49.5	2.0			
NJ2	32.2	353	−P	07 49 50.4	0.5			
			pP	07 50 22.5	0.5			
CD2	35.9	331	eP	07 50 21.0	−0.4			
XAN	36.4	340	P	07 50 26.5	0.3			
TIA	36.5	352	eP	07 50 25.6	−1.1			
DL2	38.8	358	eP	07 50 48.0	2.3			
TIY	38.8	346	eP	07 50 47.0	0.6			
			S	07 56 30.5	−1.3			
LZH	40.2	335	eP	07 50 58.0	0.6			
			PMZ	m_b = 5.6		1.5	0.19	
BJI	40.4	352	eP	07 50 58.0	−1.0			
			PMZ	m_b = 4.8		1.5	0.030	
			epP	07 51 32.0	−0.3			
			ePcP	07 52 58.5	−0.7			
SNY	41.7	0	+iP	07 51 08.0	−1.5			
HHC	42.0	347	P	07 51 13.2	0.6			
BTO	42.2	345	eP	07 51 10.0	−3.8			
LSA	42.5	317	P	07 51 18.0	1.4			
			S	07 57 30.0	4.5			
CN2	43.7	2	+P	07 51 23.8	−2.1			
GTA	44.7	334	+P	07 51 34.0	0.0			
			PMZ	m_b = 5.5		1.0	0.12	
			pP	07 52 08.6	1.1			
			sP	07 52 25.6	0.6			
			PcP	07 53 13.6	0.0			
			ScP	07 56 50.4	0.7			
MDJ	44.8	7	eP	07 51 34.0	−1.0			
WMQ	53.9	329	eP	07 52 43.5	−0.9			
			ScP	07 57 29.0	0.3			
			eS	08 00 06.0	−0.4			
			ScS	08 02 12.0	−1.8			
KSH	58.3	318	eP	07 53 15.4	−0.7			
			pP	07 53 53.5	2.2			
			sP	07 54 11.0	2.7			
			eS	08 01 03.0	−2.3			

OCT 20d 07h 58m 58.9 ± 0.07s, SD1.03 / 55
51.41 N ± 2.82km, 179.12 W ± 1.17km, h31 ± 0.27km
Andreanof Islands (7)
m_b5.1 / 3,

MDJ	34.4	279	eP	08 05 44.6	−1.0			
CN2	37.3	281	+P	08 06 10.0	−0.8			
SNY	39.6	279	+iP	08 06 30.4	1.0			
BJI	45.2	282	eP	08 07 15.5	0.4			
BTO	48.6	286	eP	08 07 42.5	0.5			
TIY	48.9	282	eP	08 07 45.5	1.0			
WHN	52.5	274	eP	08 08 10.0	−1.4			
XAN	53.5	281	P	08 08 17.8	−1.2			
LZH	55.2	286	+P	08 08 32.0	0.3			
			PMZ	m_b = 5.1		1.5	0.038	
GTA	55.4	292	+iP	08 08 33.0	−0.1			
WMQ	59.2	303	eP	08 09 00.0	0.2			
GYA	60.1	276	P	08 09 05.6	−0.9			
KSH	68.3	306	eP	08 10 01.1	0.9			
			eS	08 18 59.0	0.6			

OCT 20d 11h 26m 18.3 ± 0.11s, SD1.26 / 26
40.40 N ± 2.76km, 51.87 E ± 0.98km, h52 ± 0.07km
Caspian Sea (338)
M_S5.0 / 1,

KSH	18.5	85	eP	11 30 32.2	0.0			
			eS	11 33 51.0	−1.5			
			LN	M_S = 5.0		6.0	1.40	
WMQ	26.7	71	eP	11 31 55.0	0.3			
			S	11 36 28.5	5.4			
GTA	36.4	76	P	11 33 20.8	0.4			
BJI	48.1	68	eP	11 34 56.0	0.8			
WHN	50.9	80	eP	11 35 16.0	−0.6			
SSE	55.7	76	eP	11 35 52.2	−0.2			

OCT 20d 11h 41m 43.0 ± 0.10s, SD2.33 / 29
39.86 N ± 1.03km, 113.97 E ± 0.99km, h7 ± 0.29km
North−Eastern China (658)
M_L4.1 / 17,

BJI	1.7	83	Pg	11 42 13.5	0.3			
			Sg	11 42 37.5	1.0			
			LZ			6.0	2.56	
HHC	2.1	299	Pg	11 42 19.4	−0.6			
			Sg	11 42 47.0	−1.4			
			SMN	M_L = 4.4		0.6	2.21	
			SME			0.6	3.48	
TIY	2.5	210	Pn	11 42 25.4	1.6			
			Pg	11 42 28.5	2.2			
			Sg	11 43 00.7	0.9			
			SMN	M_L = 4.4		1.0	2.53	
			SME			1.0	2.33	
BTO	3.1	285	iPn	11 42 37.4	4.5			
			Pg	11 42 38.2	0.3			
			Sg	11 43 16.4	−4.1			
			SMN	M_L = 3.7		0.4	0.29	
			SME			0.4	0.29	
TIA	4.4	145	Pn	11 42 52.0	1.4			
			Sg	11 44 04.3	3.2			
			SMN	M_L = 3.7		0.5	0.13	
			SME			0.5	0.12	
DL2	6.0	97	ePn	11 43 14.0	1.4			
XAN	7.1	216	Pn	11 43 28.2	1.0			
			Pg	11 43 52.0	4.2			
			Sg	11 45 23.0	−1.5			
			SMN	M_L = 4.1		1.0	0.090	
			SME			1.2	0.080	
SNY	7.5	72	ePn	11 43 32.5	−1.2			
			ePg	11 43 58.8	2.6			
			eSg	11 45 39.4	0.0			
			SMN	M_L = 4.3		1.2	0.15	
			SME			1.2	0.069	
WHN	9.3	178	eP	11 44 01.5	1.0			
			pP	11 44 06.0	1.0			
			SMN			0.7	0.050	
			SME			0.8	0.040	
CN2	9.4	62	eP	11 44 00.0	−2.4			
GTA	10.9	272	eP	11 44 19.0	−4.2			

OCT 20d 11h 52m 21.1 ± 0.07s, SD2.12 / 14
38.58 N ± 0.72km, 81.80 E ± 0.62km, h32 ± 0.13km
Southern Xinjiang Province (321)
M_L4.5 / 5,

KSH	4.7	283	ePn	11 53 31.7	1.7			
			ePg	11 53 42.0	−1.7			
			eSn	11 54 22.5	−2.1			
			SME	M_L = 5.2		0.5	3.10	
WMQ	6.9	38	Pn	11 54 03.8	3.7			

			Sg	11 55 52.2	−4.2			
			SMN		M_L = 4.7		1.0	0.33
			SME				1.0	0.39
GTA	14.0	81	P	11 55 39.8	−0.4			

OCT 20d 12h 19m 21.0 ± 0.06s, SD3.91 / 6
39.56 N ± 0.99km, 74.13 E ± 0.35km, h19 ± 0.92km
Tadzhikistan–Xinjiang border region (719)
M_L4.2 / 3,

KSH	1.4	91	ePg	12 19 45.4	−0.5			
			Sg	12 20 03.0	−1.8			
			SMN		M_L = 4.2		0.4	2.70
			SME				0.6	3.50

OCT 20d 13h 32m 08.0 ± 0.07s, SD1.34 / 23
12.76 N ± 2.56km, 51.07 E ± 2.45km, h33 ± 1.57km
Eastern Gulf of Aden (415)

WMQ	44.1	38	P	13 40 15.5	0.1			
			pP	13 40 23.5	−1.3			
XAN	56.4	58	P	13 41 47.7	−1.5			
TIY	59.7	54	eP	13 42 11.4	−1.0			
WHN	60.7	62	eP	13 42 21.0	1.9			
CN2	70.0	48	eP	13 43 22.0	2.9			

OCT 20d 13h 58m 00.7 ± 0.08s, SD0.77 / 67
51.88 N ± 2.41km, 170.51 W ± 1.07km, h32 ± 0.21km
Fox Islands (9)
M_S4.8 / 1, m_b5.1 / 10,

CN2	42.5	285	−P	14 05 54.6	−0.2			
			esP	14 06 06.0	−2.0			
			eS	14 12 13.6	−1.1			
			LZ		M_S = 4.7		20.0	0.90
SNY	44.7	284	+P	14 06 13.4	0.2			
			LN		M_S = 4.8		22.0	0.70
			LE				22.0	0.50
			LZ		M_S = 4.6		21.0	0.80
BJI	50.3	287	eP	14 06 56.0	−0.3			
			eS	14 14 08.0	2.4			
			LZ		M_S = 4.6		20.0	0.60
TIA	52.2	283	P	14 07 11.0	0.2			
SSE	53.1	275	+P	14 07 18.5	0.4			
			PMZ		m_b = 5.2		1.0	0.033
			pP	14 07 26.0	−1.4			
BTO	53.5	291	eP	14 07 22.0	1.1			
NJ2	53.9	278	−P	14 07 24.8	0.9			
TIY	54.0	287	eP	14 07 25.0	0.6			
			sS	14 15 16.0	3.8			
			LZ		M_S = 4.8		20.0	0.87
WHN	57.7	280	−P	14 07 51.5	0.2			
			PMZ		m_b = 5.2		1.0	0.031
			pP	14 07 57.5	−3.2			
XAN	58.6	286	P	14 07 57.0	−0.2			
GTA	60.1	297	P	14 08 07.4	−0.4			
			LZ		M_S = 5.0		14.0	0.88
LZH	60.1	291	eP	14 08 08.0	−0.1			
			PMZ		m_b = 5.3		2.0	0.070
			pP	14 08 17.0	−0.2			
			LZ		M_S = 4.9		18.0	0.74
WMQ	63.3	307	P	14 08 29.0	−0.3			
CD2	63.9	287	−P	14 08 33.4	0.5			
GYA	65.3	282	−P	14 08 43.6	0.9			
KMI	68.7	284	−P	14 09 04.5	0.4			
KSH	72.2	312	eP	14 09 26.2	1.0			
			eS	14 18 47.0	1.9			

OCT 20d 14h 37m 10.5 ± 0.11s, SD1.27 / 51
12.51 N ± 1.84km, 141.96 E ± 2.04km, h45 ± 0.17km
South of the Marianas (210)

M_S4.7 / 1, m_b4.9 / 6,

SSE	26.6	317	eP	14 42 50.0	2.9			
			eS	14 47 16.0	−0.8			
			LZ		M_S = 4.4		20.0	0.93
WHN	31.2	309	eP	14 43 28.5	0.5			
DL2	31.9	329	eP	14 43 34.0	−0.1			
			eS	14 48 42.0	1.6			
			LZ		M_S = 4.3		22.0	0.63
CN2	34.3	339	eP	14 43 56.0	1.2			
BJI	35.6	325	eP	14 44 06.0	−0.2			
			PMZ		m_b = 4.8		1.5	0.026
			eS	14 49 36.0	−2.2			
			LZ		M_S = 4.5		24.0	0.96
GYA	35.9	298	P	14 44 10.2	1.3			
TIY	36.4	319	eP	14 44 08.0	−4.9			
			S	14 49 46.0	−3.3			
			LN		M_S = 4.7		12.0	0.51
			LZ		M_S = 4.7		14.0	0.95
XAN	36.9	311	P	14 44 16.0	−1.1			
KMI	39.0	294	+P	14 44 36.0	0.8			
			pP	14 44 44.5	−2.0			
BTO	39.6	321	eP	14 44 40.0	0.3			
CD2	39.7	304	eP	14 44 40.0	−0.3			
LZH	41.5	311	eP	14 44 56.5	0.7			
			PMZ		m_b = 5.0		2.0	0.046
			LZ		M_S = 4.5		26.0	0.79
GTA	45.8	314	−P	14 45 30.0	−0.4			
LSA	50.0	298	P	14 46 04.2	1.0			
			eS	14 53 12.0	2.3			
WMQ	55.8	315	P	14 46 46.3	0.0			
			sP	14 47 01.5	−1.4			
			eS	14 54 30.0	1.2			
			LZ		M_S = 4.5		22.0	0.50
KSH	63.7	308	eP	14 47 39.5	−0.8			
			pP	14 47 49.5	−2.7			
			eS	14 56 09.5	−0.5			

OCT 20d 15h 07m 32.0 ± 0.14s, SD1.50 / 46
12.46 N ± 2.78km, 141.94 E ± 2.11km, h56 ± 0.32km
Western Caroline Islands (209)
M_S4.5 / 1,

SSE	26.7	317	eP	15 13 10.7	2.9			
			sP	15 13 28.0	0.9			
			eS	15 17 41.0	4.3			
			sS	15 18 05.0	5.4			
			LZ		M_S = 4.4		20.0	0.93
WHN	31.2	310	eP	15 13 47.0	−1.6			
BJI	35.6	325	eP	15 14 26.5	−0.4			
			eS	15 19 56.0	−2.1			
			LZ		M_S = 4.5		28.0	1.04
GYA	35.9	298	eP	15 14 30.6	1.2			
TIY	36.4	319	eP	15 14 33.8	0.3			
			S	15 20 05.5	−3.6			
			LN		M_S = 4.5		13.0	0.33
			LZ		M_S = 4.7		16.0	0.95
XAN	36.9	311	eP	15 14 37.5	−0.2			
CD2	39.7	304	eP	15 15 00.4	−0.5			
LZH	41.6	311	eP	15 15 16.5	0.2			
			LZ		M_S = 4.5		22.0	0.70
GTA	45.8	314	−P	15 15 51.0	0.1			
LSA	50.0	298	P	15 16 25.0	1.3			
WMQ	55.9	315	eP	15 17 02.4	−4.5			
			pP	15 17 15.5	−5.4			
KSH	63.7	308	eP	15 18 01.0	0.2			
			eS	15 26 30.0	0.6			

OCT 21d 00h 18m 27.2 ± 0.09s, SD2.27 / 9
39.19 N ± 1.12km, 97.21 E ± 0.91km, h5 ± km

Qinghai Province (325)
M_L3.6 / 5,

GTA	2.0	83	iPn	00 19 02.6	0.0			
			Pg	00 19 03.4	0.3			
			Sg	00 19 30.6	−0.3			
			SMN			6.0	0.48	
			SME			6.0	0.35	
			LN			6.5	1.25	
WMQ	8.5	306	P	00 20 34.8	0.7			
			S	00 22 10.8	−0.3			
			SMN	M_L=4.2		1.0	0.050	
			SME			0.8	0.050	

OCT 21d 02h 04m 59.1 ± 0.04s, SD1.57 / 10
41.77 N ± 0.52km, 82.66 E ± 0.43km, h17 ± 0.22km
Southern Xinjiang Province (321)
M_L3.7 / 9,

WMQ	4.2	59	ePn	02 06 04.6	1.1			
			Sg	02 07 16.8	4.9			
			SMN	M_L=3.7		0.7	0.14	
			SME			0.6	0.12	
KSH	5.6	249	Pg	02 06 38.0	−0.3			
			Sg	02 07 49.0	−5.6			
			SMN	M_L=3.9		0.4	0.10	
			SME			0.6	0.10	

OCT 21d 02h 19m 50.1 ± 0.07s, SD1.31 / 57
28.04 N ± 1.40km, 141.11 E ± 1.52km, h145 ± 0.54km
Bonin Islands region (212)
m_b4.9 / 10,

SSE	17.6	285	P	02 23 48.0	0.3			
			PMZ	m_b=4.7		0.5	0.019	
MDJ	18.9	334	eP	02 24 02.0	−0.4			
NJ2	19.7	287	−P	02 24 11.4	1.3			
SNY	19.8	318	eP	02 24 11.6	−0.3			
CN2	20.1	325	+P	02 24 17.6	2.6			
TIA	21.8	298	−P	02 24 32.0	0.0			
WHN	23.5	283	eP	02 24 49.0	1.5			
BJI	23.8	307	eP	02 24 50.0	−0.8			
			eS	02 28 52.0	−0.9			
TIY	25.9	299	iP	02 25 11.0	0.7			
			LZ			14.0	0.71	
GYA	30.6	275	eP	02 25 52.2	−0.9			
			pP	02 26 21.0	−2.3			
			S	02 30 42.0	−0.5			
LZH	32.4	294	eP	02 26 08.0	−1.0			
			PMZ	m_b=5.2		1.5	0.070	
CD2	32.5	284	+iP	02 26 10.0	0.1			
GTA	35.9	299	eP	02 26 36.2	−2.2			

OCT 21d 03h 29m 34.0 ± 0.07s, SD1.28 / 71
5.19 S ± 2.74km, 68.65 E ± 2.19km, h7 ± 0.57km
Chagos Archipelago region (426)
M_S5.3 / 15, m_B5.7 / 1, m_b4.9 / 7,

LSA	40.9	31	P	03 37 21.6	2.5			
			sP	03 37 29.0	2.6			
			S	03 43 35.0	5.7			
			LN	M_S=5.5		15.0	3.32	
KSH	45.0	8	eP	03 37 53.6	1.2			
			eS	03 44 31.0	0.0			
			LE	M_S=5.4		12.0	1.70	
			LZ	M_S=5.3		18.0	3.00	
GYA	48.4	48	P	03 38 20.0	0.5			
CD2	49.1	41	−P	03 38 24.4	−0.4			
WMQ	51.7	18	P	03 38 44.4	−0.2			
			eS	03 46 07.0	1.4			
			LN	M_S=5.4		18.0	2.15	
			LZ	M_S=5.4		18.0	3.39	

LZH	52.7	36	+P	03 38 51.0	−0.8			
			PMZ	m_b=5.3		1.2	0.057	
			PMZ	m_B=5.7		5.0	0.54	
			PcP	03 39 56.0	−4.8			
			S	03 46 20.0	2.9			
			SME			14.0	1.16	
			LE	M_S=5.1		12.0	0.65	
			LZ	M_S=5.3		24.0	3.20	
GTA	52.9	30	+P	03 38 52.6	−0.9			
			S	03 46 22.0	1.8			
			LE	M_S=5.3		15.0	1.42	
			LZ	M_S=5.3		19.0	2.62	
XAN	54.5	41	P	03 39 09.1	4.0			
WHN	56.3	48	eP	03 39 19.2	0.9			
			eS	03 47 08.0	0.6			
			sS	03 47 16.0	0.1			
			LZ	M_S=5.1		16.0	1.19	
TIY	59.0	40	eP	03 39 36.0	−1.2			
			S	03 47 41.5	0.3			
			ScS	03 49 23.0	0.1			
			LN	M_S=5.5		18.0	1.89	
			LZ	M_S=5.3		22.0	2.55	
BTO	59.3	36	eP	03 39 40.0	0.7			
			sP	03 39 47.5	0.6			
			eS	03 47 49.0	2.4			
			LN	M_S=5.3		15.0	1.00	
			LE			14.0	0.30	
HHC	60.3	36	P	03 39 46.8	0.1			
			LZ	M_S=5.2		24.0	2.24	
NJ2	60.4	49	+P	03 39 46.0	−0.9			
TIA	61.2	44	eP	03 39 51.5	−1.2			
			eS	03 48 16.0	4.4			
			LN	M_S=5.0		28.0	0.89	
			LZ	M_S=4.8		34.0	1.30	
SSE	61.7	51	P	03 39 55.0	−1.0			
			PMZ	m_b=5.0		1.0	0.019	
			eS	03 48 18.0	0.1			
			sS	03 48 26.0	−0.4			
			SS	03 52 24.0	4.2			
			LE	M_S=5.3		14.0	1.05	
			LZ	M_S=5.1		20.0	1.40	
BJI	62.7	40	eP	03 40 02.0	−0.4			
			eS	03 48 31.0	1.1			
			LN	M_S=5.2		14.0	0.69	
			LZ	M_S=5.1		18.0	1.12	
DL2	65.7	43	eP	03 40 22.0	0.1			
			eS	03 49 08.0	0.9			
			LZ	M_S=4.7		22.0	0.60	
CN2	70.6	40	eP	03 40 51.0	−1.4			
			sP	03 40 57.5	−2.5			
			eS	03 50 04.0	−1.4			
			LE			1.3	0.50	
			LZ			2.0	1.20	
MDJ	73.6	41	eP	03 41 10.0	−0.4			
			S	03 50 42.0	3.4			
			LZ	M_S=5.1		20.0	0.97	

OCT 21d 04h 02m 12.8 ± 0.05s, SD2.02 / 7
41.77 N ± 0.49km, 82.57 E ± 0.40km, h10 ± 0.44km
Southern Xinjiang Province (321)
M_L3.4 / 7,

WMQ	4.3	60	ePn	04 03 18.6	−0.1			
			Sn	04 04 13.3	2.5			
			SMN	M_L=3.3		0.6	0.060	
			SME			0.7	0.050	
KSH	5.5	248	ePg	04 03 51.3	0.6			
			eSg	04 05 12.0	5.9			
			SMN	M_L=3.4		0.5	0.040	

			SME			0.6	0.030

OCT 21d 04h 18m 29.4 ± 0.07s, SD2.47 / 10
41.76 N ± 0.93km, 82.52 E ± 0.85km, h6 ± 0.24km
Southern Xinjiang Province (321)
M_L3.5 / 9,

WMQ	4.3	60	Pg	04 19 49.0	2.8		
			Sg	04 20 47.8	2.5		
			SMN	M_L = 3.4		0.8	0.070
			SME			0.8	0.060
KSH	5.5	248	ePn	04 19 55.5	3.2		
			Sg	04 21 19.5	−1.9		
			SMN	M_L = 3.4		0.3	0.040
			SME			0.3	0.030

OCT 21d 06h 14m 50.7 ± 0.09s, SD1.02 / 40
25.88 S ± 2.20km, 179.66 W ± 2.04km, h458 ± 0.89km
South of Fiji (171)
m_b5.0 / 6,

SSE	80.0	312	P	06 26 12.5	−0.7		
			PMZ	m_b = 4.7		1.0	0.024
			PP	06 29 23.0	−0.4		
NJ2	82.2	311	eP	06 26 24.2	−0.2		
WHN	84.4	308	−iP	06 26 36.0	0.3		
			PMZ	m_b = 5.2		1.5	0.090
DL2	84.6	318	eP	06 26 37.5	0.9		
SNY	85.4	321	+P	06 26 40.2	0.0		
CN2	85.7	324	−P	06 26 41.6	0.1		
			eS	06 36 32.6	−2.4		
TIA	85.8	314	P	06 26 42.5	0.2		
GYA	88.0	301	P	06 26 53.4	0.5		
BJI	88.7	316	eP	06 26 55.5	−0.3		
			PMZ	m_b = 5.1		1.5	0.050
TIY	89.8	313	eP	06 27 01.6	0.6		
CD2	92.4	303	+iP	06 27 14.4	1.2		

OCT 21d 09h 23m 54.0 ± 0.09s, SD2.10 / 11
21.31 S ± 5.10km, 178.96 W ± 2.19km, h547 ± 1.01km
Fiji region (181)

CN2	82.4	323	+P	09 35 21.0	0.4		
BJI	85.8	316	eP	09 35 38.0	0.5		

OCT 21d 12h 44m 59.5 ± 0.06s, SD0.78 / 80
5.42 S ± 1.02km, 131.10 E ± 1.35km, h32 ± 0.06km
Banda Sea (280)
M_S4.9 / 1, m_b5.5 / 15,

SSE	37.5	346	−P	12 52 13.0	0.3		
			PMZ	m_b = 5.4		0.8	0.058
			sP	12 52 28.0	2.2		
			PcP	12 54 30.5	0.1		
NJ2	39.0	343	+P	12 52 26.5	1.1		
WHN	39.2	337	+iP	12 52 28.0	1.4		
			PMZ	m_b = 5.6		1.0	0.095
			sP	12 52 42.0	2.2		
GYA	39.6	324	P	12 52 30.2	0.4		
			PcP	12 54 37.8	1.1		
TIA	43.4	343	P	12 53 01.4	−0.2		
			PcP	12 54 49.6	0.2		
XAN	44.5	333	+iP	12 53 09.6	−0.6		
CD2	44.6	326	eP	12 53 10.6	−0.3		
DL2	45.0	350	eP	12 53 14.5	0.6		
			PMZ	m_b = 5.2		1.0	0.040
			eS	12 59 48.0	−1.8		
TIY	46.3	339	eP	12 53 24.5	−0.1		
			S	13 00 09.5	1.7		
			LZ	M_S = 4.8		12.0	0.60
BJI	47.3	344	+P	12 53 32.0	−0.1		
			PMZ	m_b = 5.6		1.0	0.086
			ePcP	12 55 02.0	−0.7		
			eS	13 00 20.0	−2.8		
SNY	47.5	352	+P	12 53 33.6	−0.4		
LZH	48.6	330	+iP	12 53 42.7	0.3		
			PMZ	m_b = 5.5		2.0	0.13
			LZ	M_S = 4.3		22.0	0.40
CN2	49.3	355	+P	12 53 46.7	−0.9		
			PMZ	m_b = 5.6		0.6	0.050
			PcP	12 55 09.4	−0.5		
			ScP	12 58 58.0	−3.0		
			eS	13 00 51.0	0.4		
			LZ	M_S = 4.5		25.0	0.60
HHC	49.4	340	+P	12 53 49.0	0.1		
BTO	49.7	339	P	12 53 50.4	−0.8		
MDJ	49.8	359	eP	12 53 52.0	0.1		
LSA	51.8	315	−iP	12 54 08.8	1.1		
GTA	53.1	330	+iP	12 54 16.8	−0.3		
WMQ	62.7	326	+iP	12 55 24.0	−0.1		
			pP	12 55 33.5	0.0		
			S	13 03 47.5	−0.3		
KSH	67.7	317	eP	12 55 56.2	0.0		
			pP	12 56 06.0	0.5		
			eS	13 04 50.0	−0.3		

OCT 21d 19h 14m 28.8 ± 0.07s, SD1.78 / 13
39.84 N ± 0.70km, 113.87 E ± 0.67km, h12 ± 0.11km
North−Eastern China (658)
M_L3.3 / 13,

BJI	1.8	83	Pg	19 15 00.0	−0.5		
			Sg	19 15 24.0	−0.9		
			SMN	M_L = 3.0		0.5	0.13
			SME			0.5	0.17
HHC	2.0	301	iPg	19 15 03.2	−1.7		
			Sg	19 15 31.4	−1.1		
			SMN	M_L = 3.4		0.8	0.23
			SME			0.8	0.34
TIY	2.4	208	ePn	19 15 08.5	0.0		
			iPg	19 15 11.0	−0.3		
			eSn	19 15 39.0	−0.6		
			Sg	19 15 42.0	−2.1		
			SMN	M_L = 3.1		0.7	0.12
			SME			1.0	0.13
TIA	4.4	144	ePg	19 15 48.9	1.5		
			Sg	19 16 45.8	−2.2		
			SMN	M_L = 2.9		0.5	0.020
			SME			0.5	0.017

OCT 21d 20h 00m 38.4 ± 0.10s, SD1.78 / 30
41.91 N ± 1.94km, 142.57 E ± 0.85km, h89 ± 1.83km
Hokkaido region (224)
m_b4.3 / 4,

MDJ	9.8	290	eP	20 03 03.3	4.3		
CN2	12.7	284	+P	20 03 38.5	1.2		
BJI	20.0	273	eP	20 05 04.5	−1.9		
			PMZ	m_b = 4.4		1.0	0.020
TIA	20.5	262	eP	20 05 10.1	−1.8		
NJ2	21.3	250	eP	20 05 20.0	0.5		
WHN	25.3	253	eP	20 05 54.0	−4.6		
			pP	20 06 20.0	1.9		
XAN	27.5	265	P	20 06 20.7	1.6		
GTA	32.3	280	eP	20 07 01.4	0.0		
WMQ	39.6	292	eP	20 08 04.5	1.0		

OCT 22d 05h 52m 17.9 ± 0.10s, SD1.13 / 25
12.50 N ± 1.57km, 141.72 E ± 1.12km, h32 ± 0.14km
South of the Marianas (210)

WHN	31.0	310	eP	05 58 35.0	−0.3
BJI	35.5	325	eP	05 59 13.5	−0.4

GYA	35.7	298	P	05 59 18.0	2.0		
TIY	36.2	319	eP	05 59 21.0	0.5		
XAN	36.7	311	P	05 59 25.0	0.5		
BTO	39.5	321	eP	05 59 48.0	0.6		
GTA	45.7	314	eP	06 00 38.2	0.2		
WMQ	55.7	315	P	06 01 54.5	0.4		

OCT 22d 13h 24m 15.5 ± 0.10s, SD0.90 / 84
4.60 S ± 0.92km, 153.27 E ± 1.14km, h74 ± 0.98km
New Britain region (192)
M_S5.1 / 2, m_b5.4 / 14,

QZH	44.7	313	−P	13 32 24.0	0.6		
SSE	46.9	321	P	13 32 41.0	0.4		
			PMZ	m_b = 5.3		1.2	0.051
			pP	13 32 55.0	−3.5		
			PcP	13 34 13.0	0.9		
			eS	13 39 27.0	1.7		
			sS	13 39 54.0	−2.4		
			LE	M_S = 4.7		10.0	0.27
			LZ	M_S = 4.4		20.0	0.47
NJ2	49.0	320	+P	13 32 57.5	0.5		
WHN	51.0	316	−P	13 33 13.6	0.9		
			pP	13 33 27.8	−3.0		
DL2	52.2	329	eP	13 33 22.0	0.2		
			eS	13 40 43.0	3.1		
			LZ	M_S = 4.3		28.0	0.43
TIA	52.8	323	+P	13 33 25.4	−0.8		
MDJ	53.4	339	eP	13 33 29.5	−0.9		
SNY	53.5	333	+P	13 33 30.4	−1.0		
CN2	54.3	335	+P	13 33 36.3	−0.8		
			PMZ	m_b = 5.4		1.1	0.050
			esP	13 34 04.0	0.0		
			eS	13 41 07.0	−1.0		
GYA	54.7	307	P	13 33 40.4	0.7		
			pP	13 33 54.0	−3.8		
BJI	56.0	326	eP	13 33 48.0	−1.2		
			LZ	M_S = 4.6		28.0	0.69
TIY	56.7	322	eP	13 33 54.0	−0.1		
			eS	13 41 44.5	5.0		
			LZ	M_S = 4.8		26.0	0.99
XAN	56.8	316	P	13 33 54.6	−0.5		
CD2	59.0	310	+iP	13 34 10.2	0.0		
HHC	59.2	324	eP	13 34 11.4	−0.3		
BTO	59.9	323	P	13 34 16.5	−0.4		
LZH	61.4	316	+P	13 34 28.0	0.9		
			PMZ	m_b = 5.6		2.0	0.16
			pP	13 34 47.0	1.5		
			sP	13 34 53.0	−1.1		
			PcP	13 35 10.0	2.7		
			LZ	M_S = 4.6		30.0	0.60
GTA	65.8	317	+iP	13 34 56.5	0.4		
LSA	68.5	304	P	13 35 14.8	1.6		
WMQ	75.9	317	+iP	13 35 57.5	0.8		
			sP	13 36 28.0	3.9		
			eS	13 45 30.0	−2.6		
			ScS	13 46 02.5	2.5		
KSH	83.2	311	P	13 36 38.2	2.2		
			pP	13 36 58.0	2.8		
			eS	13 46 55.0	5.5		

OCT 22d 14h 11m 01.1 ± 0.08s, SD0.88 / 56
52.47 N ± 2.58km, 170.71 W ± 1.09km, h32 ± 0.23km
Fox Islands (9)
m_b5.0 / 8,

CN2	42.2	285	P	14 18 52.4	−0.7		
			sP	14 19 10.0	3.8		
SNY	44.5	283	−P	14 19 12.7	1.1		
BJI	50.0	286	eP	14 19 55.0	0.3		
HHC	52.1	290	eP	14 20 12.0	0.9		
SSE	53.0	274	P	14 20 18.0	0.7		
			PMZ	m_b = 5.3		1.2	0.051
			sP	14 20 33.5	3.0		
BTO	53.2	291	eP	14 20 19.4	0.4		
TIY	53.7	287	eP	14 20 23.7	0.9		
NJ2	53.7	277	−P	14 20 22.8	−0.1		
WHN	57.5	279	P	14 20 50.5	0.2		
			PMZ	m_b = 5.0		1.0	0.020
XAN	58.3	286	P	14 20 54.5	−1.3		
GTA	59.7	296	+P	14 21 04.2	−1.5		
LZH	59.8	291	eP	14 21 06.0	−0.3		
			PMZ	m_b = 5.1		1.5	0.037
			PcP	14 21 52.5	0.8		
CD2	63.6	287	eP	14 21 31.5	0.0		
GYA	65.1	281	−P	14 21 42.2	0.5		
LSA	71.7	295	P	14 22 24.7	1.9		

OCT 22d 15h 12m 11.5 ± 0.15s, SD1.26 / 43
40.43 N ± 1.84km, 51.50 E ± 0.89km, h54 ± 0.91km
Caspian Sea (338)
M_S4.7 / 2,

KSH	18.7	85	eP	15 16 27.2	−1.5		
			pP	15 16 38.0	−0.8		
			LN	M_S = 5.1		5.0	1.40
WMQ	26.9	71	P	15 17 50.0	−0.2		
			eS	15 22 15.0	−6.3		
			LN	M_S = 4.3		7.0	0.19
GTA	36.7	75	eP	15 19 15.2	−0.6		
LZH	40.8	79	eP	15 19 51.4	1.2		
BTO	43.8	70	eP	15 20 15.2	1.2		
HHC	44.8	69	eP	15 20 23.4	1.2		
XAN	45.5	79	P	15 20 27.4	−0.3		
WHN	51.2	80	eP	15 21 12.0	0.2		
			pP	15 21 28.0	2.9		
DL2	52.7	67	eP	15 21 25.0	1.9		
CN2	53.2	60	+P	15 21 27.2	−0.2		

OCT 22d 20h 35m 40.4 ± 0.07s, SD0.95 / 99
7.32 S ± 1.34km, 128.67 E ± 1.67km, h154 ± 0.13km
Banda Sea (280)
m_B5.5 / 4, m_b5.6 / 27,

QZN	32.1	325	+P	20 41 55.6	0.2		
QZH	33.5	343	−iP	20 42 07.3	−0.5		
			PMZ	m_b = 5.6		0.7	0.080
			sP	20 42 56.0	−2.2		
			PP	20 43 28.0	3.6		
			S	20 47 16.0	−1.0		
			sS	20 48 11.0	−3.9		
GZH	33.7	334	+P	20 42 08.7	−0.7		
			eS	20 47 20.0	−0.8		
SSE	38.9	350	−iP	20 42 53.0	0.4		
			PMZ	m_b = 5.4		1.0	0.099
			pP	20 43 26.7	0.8		
			sP	20 43 40.0	−3.6		
			ScP	20 48 33.5	0.8		
			eS	20 48 40.0	0.9		
			sS	20 49 36.0	−1.3		
			ScS	20 52 38.0	−4.9		
			LE			14.0	0.70
			LZ			22.0	0.58
GYA	39.8	328	+P	20 43 01.2	0.8		
			PMZ	m_b = 5.5		1.0	0.12
			pP	20 43 38.0	4.4		
			sP	20 43 55.0	3.7		
			ScP	20 48 38.8	2.5		
			S	20 48 52.0	0.0		
			sS	20 49 54.0	2.7		

			ScS	20 52 50.0	1.7			
WHN	40.1	341	+iP	20 43 04.0	1.4			
			PMZ	$m_b = 6.2$		1.0	0.54	
			pP	20 43 39.5	3.5			
			ScP	20 48 40.0	2.6			
			sS	20 49 52.0	−3.5			
NJ2	40.3	347	+iP	20 43 05.0	0.9			
			sP	20 43 55.0	−0.2			
			iScP	20 48 40.6	2.5			
KMI	41.0	323	−P	20 43 12.0	2.0			
			PMZ	$m_b = 6.0$		1.5	0.60	
			pP	20 43 46.0	2.7			
			sP	20 44 05.0	4.1			
			S	20 49 11.0	1.8			
			sS	20 50 08.0	−0.7			
			LZ			18.0	1.50	
TIA	44.6	347	+P	20 43 39.2	−0.5			
			sP	20 44 28.0	−3.0			
			eS	20 50 07.0	3.2			
			LN			11.5	0.24	
			LE			11.5	0.48	
CD2	44.9	329	+iP	20 43 41.6	0.0			
			pP	20 44 17.0	1.6			
			S	20 50 03.0	−3.3			
XAN	45.2	337	+iP	20 43 43.6	−0.5			
DL2	46.5	352	+P	20 43 54.0	0.0			
			PMZ	$m_b = 5.2$		0.8	0.040	
			eS	20 50 30.0	0.4			
			LZ			14.0	0.31	
TIY	47.3	342	+iP	20 44 00.0	−0.7			
			PMZ	$m_b = 5.9$		0.8	0.21	
			pP	20 44 36.0	1.3			
			sP	20 44 50.0	−2.1			
			PP	20 45 55.0	2.0			
			S	20 50 43.0	2.5			
			sS	20 51 45.0	3.7			
			LE			11.0	0.39	
			LZ			20.0	0.75	
BJI	48.5	347	+P	20 44 10.0	0.0			
			PMZ	$m_b = 5.7$		1.0	0.17	
			PMZ	$m_B = 5.7$		4.0	0.73	
			epP	20 44 46.0	1.6			
			eScP	20 49 13.0	1.2			
LZH	49.1	333	+iP	20 44 15.4	0.8			
			PMZ	$m_b = 6.2$		2.0	1.08	
			pP	20 44 50.0	1.3			
			sP	20 45 05.2	−0.9			
			PP	20 46 09.0	−0.8			
			ScP	20 49 16.5	2.3			
			eS	20 51 05.0	−1.9			
			sS	20 52 08.0	1.4			
			LN			15.0	0.80	
			LE			16.0	0.80	
			LZ			28.0	0.90	
SNY	49.1	355	+iP	20 44 14.0	−0.7			
			PMZ	$m_b = 5.5$		1.7	0.19	
			PMZ	$m_B = 5.4$		9.0	0.67	
			sP	20 45 05.0	−1.5			
			S	20 51 07.0	0.8			
			LZ			22.0	0.68	
HHC	50.4	343	+iP	20 44 25.0	0.1			
BTO	50.7	342	P	20 44 26.0	−0.7			
			LN			12.0	0.30	
			LE			12.0	0.30	
CN2	51.0	357	+P	20 44 27.6	−1.1			
			PMZ			3.0	0.50	
			pP	20 45 04.0	0.6			
			eS	20 51 30.0	−2.6			
LSA	51.5	317	−P	20 44 34.6	1.2			
			pP	20 45 07.0	−0.6			
			sP	20 45 28.5	3.6			
			S	20 51 41.0	1.9			
			SME	$m_B = 5.4$		5.0	0.26	
			sS	20 52 41.0	0.1			
			ScS	20 54 04.0	0.6			
MDJ	51.7	1	eP	20 44 34.0	−0.3			
			SME			20.0	0.90	
GTA	53.6	332	+iP	20 44 49.0	0.3			
			PMZ	$m_b = 6.3$		2.0	1.26	
			pP	20 45 28.0	4.6			
			ScP	20 49 35.4	1.8			
			S	20 52 02.0	−5.6			
			LZ			16.0	0.58	
WMQ	62.9	328	+iP	20 45 53.5	0.1			
			pP	20 46 34.0	4.8			
			S	20 54 10.0	1.6			
			LZ			24.0	0.45	
KSH	67.4	318	eP	20 46 22.5	0.4			
			PcP	20 46 48.0	0.5			
			pP	20 47 01.0	2.8			
			sP	20 47 19.0	3.9			
			eS	20 55 06.0	1.6			

OCT 22d 21h 21m 49.4 ± 0.07s, SD1.34 / 19
43.46 N ± 1.72km, 146.79 E ± 1.21km, h61 ± 0.68km
Off coast of Hokkaido (225)

MDJ	12.4	281	eP	21 24 46.5	0.6		
CN2	15.5	279	+P	21 25 24.6	−0.8		
BJI	23.0	272	eP	21 26 51.0	0.6		
TIY	26.6	269	eP	21 27 25.9	1.6		
BTO	27.3	277	eP	21 27 30.4	−0.7		
WHN	28.7	254	−P	21 27 44.5	0.8		

OCT 22d 21h 28m 52.2 ± 0.11s, SD2.74 / 12
20.60 S ± 2.26km, 70.34 W ± 3.81km, h52 ± km
Near coast of Northern Chile (122)

KSH	145.5	49	ePKP	21 48 24.5	−1.1		
WMQ	150.5	33	PKP	21 48 36.5	2.9		

OCT 23d 03h 11m 52.4 ± 0.10s, SD1.18 / 46
2.41 N ± 1.72km, 125.93 E ± 2.41km, h33 ± 0.09km
Molucca Passage (266)
m_b4.9 / 8,

WHN	30.1	340	eP	03 18 01.5	0.5		
XAN	35.2	335	P	03 18 45.6	−0.8		
CD2	35.3	326	P	03 18 46.5	0.0		
DL2	36.5	354	eP	03 18 58.2	1.0		
			PMZ	$m_b = 5.7$		0.7	0.090
LZH	39.2	331	eP	03 19 21.0	0.9		
			PMZ	$m_b = 5.2$		1.5	0.062
SNY	39.3	357	+iP	03 19 21.2	0.9		
CN2	41.2	359	−P	03 19 36.6	0.4		
MDJ	42.1	4	eP	03 19 45.0	1.1		
LSA	42.7	313	P	03 19 52.0	2.8		
GTA	43.8	330	+iP	03 19 57.8	0.0		
WMQ	53.3	326	P	03 21 11.5	0.1		

OCT 23d 03h 30m 41.5 ± 0.11s, SD1.65 / 18
30.57 S ± 2.37km, 65.07 W ± 4.11km, h152 ± 1.21km
Cordoba Province, Argentina (141)

KSH	147.0	64	ePKP	03 50 07.5	2.3		
WMQ	154.7	51	PKP	03 50 17.0	0.3		
GTA	164.8	50	PKP	03 50 28.0	−0.3		
			PKP2	03 51 25.8	0.3		
TIY	172.6	16	ePKP	03 50 33.3	0.1		
WHN	179.5	92	PKP	03 50 34.9	0.3		

			PKP2	03 52 31.4	1.0			

OCT 23d 04h 22m 23.6 ± 0.06s, SD1.78 / 10
39.80 N ± 0.65km, 113.86 E ± 0.60km, h20 ± 0.06km
North-Eastern China (658)
M_L3.2 / 10,

BJI	1.8	82	Pn	04 22 53.5	−0.6			
			Pg	04 22 54.5	−1.0			
			Sg	04 23 18.5	−1.6			
			SMN	M_L = 2.6		0.5	0.069	
			SME			0.5	0.060	
TIY	2.4	209	Pg	04 23 05.5	−0.2			
			Sg	04 23 37.8	−0.2			
			SMN	M_L = 3.3		0.8	0.10	
			SME			0.8	0.25	

OCT 23d 07h 54m 00.7 ± 0.07s, SD0.87 / 57
12.51 N ± 1.11km, 141.93 E ± 1.22km, h54 ± 0.22km
South of the Marianas (210)
M_S4.6 / 7, m_B5.5 / 4, m_b4.5 / 3,

QZH	25.3	303	eP	07 59 23.0	−0.9			
SSE	26.6	317	eP	07 59 36.5	0.1			
			PMZ	m_B = 5.4		5.0	0.50	
			eS	08 04 08.0	2.9			
			sS	08 04 31.0	3.8			
			SS	08 05 16.0	−2.0			
			LN	M_S = 4.6		10.0	0.34	
			LE			9.0	0.43	
			LZ	M_S = 4.4		20.0	0.93	
WHN	31.2	310	−P	08 00 16.5	−0.8			
TIA	32.5	321	eP	08 00 27.4	−1.4			
BJI	35.6	325	eP	08 00 55.0	−0.4			
			eS	08 06 32.0	5.4			
			LZ	M_S = 4.6		24.0	1.27	
GYA	35.9	298	P	08 00 59.0	0.9			
			pP	08 01 15.6	4.6			
TIY	36.4	319	eP	08 01 02.4	0.3			
			LN	M_S = 4.6		11.0	0.33	
			LZ	M_S = 4.8		16.0	1.19	
XAN	36.9	311	P	08 01 05.6	−0.7			
KMI	39.0	295	−P	08 01 25.7	1.3			
BTO	39.6	321	eP	08 01 30.0	1.0			
			pP	08 01 44.5	2.5			
			eS	08 07 28.5	0.9			
			LN	M_S = 4.8		12.0	0.40	
			LE			12.0	0.40	
CD2	39.7	304	P	08 01 28.6	−0.9			
LZH	41.5	311	eP	08 01 45.0	0.0			
			PMZ	m_b = 5.1		2.5	0.080	
			PMZ	m_B = 5.6		5.0	0.47	
			eS	08 07 53.5	−3.0			
			SME	m_B = 5.3		12.0	0.57	
			LN	M_S = 5.2		15.0	0.90	
			LE			17.0	1.40	
			LZ	M_S = 4.6		26.0	1.10	
WMQ	55.8	315	−iP	08 03 36.0	0.5			
			eS	08 11 20.0	3.0			
			LZ	M_S = 4.7		24.0	0.82	
KSH	63.7	308	eP	08 04 30.0	0.5			
			eS	08 12 59.0	0.9			

OCT 23d 08h 10m 52.7 ± 0.12s, SD1.47 / 48
12.60 N ± 1.80km, 141.88 E ± 1.60km, h39 ± 0.53km
South of the Marianas (210)
M_S4.2 / 1, m_b4.8 / 3,

SSE	26.5	317	eP	08 16 29.0	0.1			
			PMZ	m_b = 4.8		1.5	0.031	
			sP	08 16 44.5	1.1			
			LE	M_S = 4.2		11.0	0.22	
WHN	31.1	309	eP	08 17 06.0	−3.8			
BJI	35.5	325	eP	08 17 48.0	−0.1			
			eS	08 23 16.0	−4.0			
			esS	08 23 36.0	−1.3			
			LZ	M_S = 4.0		28.0	0.41	
GYA	35.8	298	P	08 17 52.2	1.4			
XAN	36.8	311	P	08 17 58.4	−0.6			
KMI	38.9	294	+P	08 18 19.0	1.8			
BTO	39.5	321	P	08 18 23.4	1.8			
CD2	39.6	304	P	08 18 22.8	0.5			
LZH	41.4	311	eP	08 18 37.5	−0.2			
			PMZ	m_b = 5.0		1.5	0.037	
WMQ	55.7	315	−iP	08 20 29.0	0.6			
KSH	63.6	308	eP	08 21 22.0	−0.5			
			eS	08 29 51.0	−1.2			

OCT 23d 08h 22m 42.4 ± 0.08s, SD1.92 / 18
39.84 N ± 0.66km, 113.92 E ± 0.70km, h10 ± 0.38km
North-Eastern China (658)
M_L3.7 / 16,

BJI	1.7	83	−Pn	08 23 13.5	0.4			
			Pg	08 23 14.5	1.3			
			Sn	08 23 36.5	−0.6			
			Sg	08 23 38.5	1.4			
			SMN	M_L = 3.1		0.5	0.20	
			SME			0.5	0.19	
HHC	2.1	300	Pg	08 23 18.8	−0.3			
			Sg	08 23 46.6	−0.6			
			SMN	M_L = 3.7		0.3	0.42	
			SME			0.3	0.72	
TIY	2.4	209	Pn	08 23 24.2	1.6			
			Pg	08 23 27.5	2.2			
			Sg	08 23 59.4	1.0			
			SMN	M_L = 4.0		0.6	0.70	
			SME			0.8	1.22	
BTO	3.1	285	Pg	08 23 37.2	0.1			
			Sg	08 24 14.7	−4.4			
			SMN	M_L = 3.3		0.4	0.15	
			SME			0.4	0.10	
TIA	4.4	144	Pn	08 23 50.0	0.1			
			Pg	08 24 02.4	2.0			
			Sn	08 24 41.9	−1.5			
			Sg	08 25 00.5	−0.4			
			SMN	M_L = 3.4		1.0	0.085	
			SME			0.6	0.055	
XAN	7.0	216	Pn	08 24 27.4	1.4			
			Sn	08 25 46.0	−2.4			
			Sg	08 26 22.5	−0.5			
			SMN	M_L = 3.7		1.0	0.050	
			SME			1.0	0.020	

OCT 23d 10h 16m 52.7 ± 0.08s, SD1.90 / 22
24.20 N ± 1.28km, 122.34 E ± 1.09km, h30 ± 1.69km
Taiwan (244)
M_S3.8 / 4, M_L3.6 / 10, m_b4.5 / 2,

QZH	3.5	283	iPn	10 17 45.5	0.1			
			Sn	10 18 22.5	−4.8			
			SMN	M_L = 3.5		0.1	0.19	
			SME			0.1	0.10	
SSE	6.9	352	+P	10 18 35.0	−0.1			
			PMZ	m_b = 4.6		0.6	0.019	
			pP	10 18 39.5	−2.0			
			SMN	M_L = 3.6		1.0	0.020	
			SME			1.0	0.040	
			LE	M_S = 3.7		6.0	0.34	
NJ2	8.4	339	−P	10 18 54.0	−1.4			
			S	10 20 25.8	−4.3			

		LN	$M_S=3.9$		7.0	0.41	
		LE			7.0	0.39	
WHN	9.5	313	eP	10 19 07.5	−3.1		
			sP	10 19 17.2	−4.7		
			eS	10 20 54.0	−3.5		
			LN	$M_S=4.2$		8.0	0.63
			LE			5.0	0.40
GYA	14.4	282	eP	10 20 16.0	−0.1		
CN2	19.7	7	eP	10 21 22.5	−0.3		

OCT 23d 13h 08m 25.3 ± 0.08s, SD1.13 / 110
25.55 S ± 1.60km, 179.92 E ± 1.61km, h445 ± 0.42km
South of Fiji (171)
m_B5.8 / 11, m_b5.4 / 10,

QZH	77.7	305	−P	13 19 36.2	−0.5		
			PMZ	$m_B=6.0$		4.0	1.64
			pP	13 21 16.0	1.7		
			S	13 28 49.0	−1.4		
SSE	79.5	312	−P	13 19 46.0	−0.6		
			PMZ	$m_b=5.1$		1.0	0.047
			PMZ	$m_B=5.6$		5.0	0.79
			pP	13 21 26.0	1.4		
GZH	80.6	301	−P	13 19 51.9	−0.2		
			LN			8.0	2.10
			LE			9.0	3.30
QZN	81.2	296	P	13 19 55.6	0.1		
NJ2	81.7	311	−P	13 19 57.5	−0.3		
			PMZ	$m_B=5.8$		5.5	1.13
MDJ	83.6	326	eP	13 20 07.5	0.1		
WHN	83.9	308	−P	13 20 09.2	0.0		
			PMZ	$m_B=6.1$		5.0	2.00
			pP	13 21 49.5	1.1		
			S	13 29 48.0	−6.0		
DL2	84.1	318	+iP	13 20 10.0	−0.1		
			PMZ	$m_B=5.8$		5.0	1.06
			eSKS	13 29 46.0	−1.4		
			eS	13 29 56.0	−1.5		
			SMN	$m_B=5.8$		12.0	2.53
CN2	85.2	324	−P	13 20 14.6	−0.6		
			PMZ	$m_b=6.2$		2.5	1.30
TIA	85.3	314	−P	13 20 15.9	0.0		
GYA	87.5	301	−P	13 20 28.0	1.4		
			PP	13 24 02.0	1.6		
			SME	$m_B=6.0$		7.0	2.30
XAN	89.7	308	P	13 20 37.0	0.3		
KMI	90.0	298	−P	13 20 39.0	0.9		
			PMZ	$m_B=5.9$		4.0	0.80
			pP	13 22 23.0	4.7		
			S	13 30 50.0	0.3		
CD2	91.9	303	P	13 20 47.6	0.7		
			LN			4.0	4.00
LZH	94.3	308	eP	13 20 58.0	−0.1		
			PMZ	$m_b=5.6$		1.5	0.079
			LN			15.0	0.80
			LZ			36.0	2.60
GTA	98.7	309	eP	13 21 17.2	−0.6		
KSH	116.2	303	ePKP	13 26 17.5	−0.6		

OCT 23d 13h 19m 34.4 ± 0.07s, SD1.96 / 53
39.92 N ± 0.90km, 113.88 E ± 0.78km, h13 ± 0.14km
North-Eastern China (658)
M_S4.9 / 25, M_L5.1 / 8, m_b4.6 / 2,

BJI	1.8	85	Pg	13 20 06.0	0.3		
			Sg	13 20 30.0	0.1		
HHC	2.0	298	Pn	13 20 09.8	1.5		
			Pg	13 20 12.0	2.4		
			Sg	13 20 39.6	2.6		
			SMN			3.0	27.6
			SME			3.0	21.5
TIY	2.5	208	Pn	13 20 16.7	1.8		
			Pg	13 20 20.2	2.1		
			Sg	13 20 52.6	0.6		
			SMN	$M_L=5.7$		1.0	28.6
			SME			1.0	51.5
			LZ			4.0	49.5
BTO	3.0	284	Pn	13 20 24.0	1.5		
			Pg	13 20 29.5	1.6		
			Sg	13 21 07.0	−2.3		
			LN	$M_S=5.0$		9.0	35.9
			LE			7.0	19.9
TIA	4.5	144	Pn	13 20 43.8	1.1		
			Pg	13 20 55.7	1.8		
DL2	6.1	97	Pn	13 21 05.7	1.3		
			Pg	13 21 27.5	5.7		
			Sg	13 22 43.5	−1.6		
			SMN	$M_L=5.1$		1.2	1.43
			SME			1.2	1.02
			LN	$M_S=4.6$		10.0	5.02
			LE			10.0	3.07
XAN	7.1	216	Pn	13 21 20.0	1.8		
			Pg	13 21 44.5	5.1		
			Sn	13 22 37.2	−3.6		
			Sg	13 23 14.4	−1.8		
			LN	$M_S=5.6$		9.0	39.4
			LE			9.0	4.48
SNY	7.6	72	iPn	13 21 26.1	1.0		
			Pg	13 21 51.8	3.4		
			Sg	13 23 31.3	−1.0		
			LN	$M_S=4.6$		9.0	3.39
			LE			11.0	3.38
			LZ	$M_S=4.7$		12.0	6.04
LZH	8.8	247	eP	13 21 44.0	−0.6		
			LN	$M_S=4.9$		8.0	5.50
			LZ	$M_S=4.4$		16.0	3.70
NJ2	8.8	151	−P	13 21 44.0	−0.8		
			S	13 23 25.8	1.0		
			SMN	$M_L=5.1$		0.8	0.31
			SME			1.0	0.37
			LN	$M_S=4.5$		10.0	2.38
			LE			9.5	1.63
			LZ	$M_S=4.8$		12.0	5.89
WHN	9.4	177	P	13 21 52.0	−0.2		
			pP	13 21 55.0	−2.5		
			SMN			1.0	0.73
			SME			1.0	0.53
			LE	$M_S=4.9$		12.0	7.07
			LZ	$M_S=4.3$		12.0	1.81
SSE	10.6	144	eP	13 22 12.5	2.9		
			SMN			1.2	0.12
			SME			1.1	0.12
			LN	$M_S=4.5$		11.0	1.83
			LE			12.0	1.32
			LZ	$M_S=3.9$		20.0	1.02
GTA	10.9	272	eP	13 22 11.4	−1.6		
			LN	$M_S=4.8$		10.0	3.48
			LZ	$M_S=4.6$		12.0	3.49
MDJ	12.5	63	eP	13 22 40.5	4.8		
			eS	13 25 01.5	5.1		
			LE	$M_S=5.0$		12.0	5.55
GYA	14.7	206	+P	13 23 02.0	−2.4		
			S	13 25 50.0	2.4		
			LN	$M_S=5.2$		10.0	3.30
			LE			10.0	4.50
KMI	17.5	216	eP	13 23 41.0	1.2		
			S	13 26 53.0	1.4		
			sS	13 27 02.0	1.6		

			LN		$M_S=5.2$	11.0	3.10
			LE			11.0	3.40
			LZ		$M_S=4.9$	12.0	3.20
WMQ	19.8	290	P	13 24 09.0	0.8		
			S	13 27 41.0	−4.3		
			LE		$M_S=4.9$	9.0	1.52
			LZ		$M_S=4.7$	9.0	1.28
LSA	21.2	248	+P	13 24 26.0	3.1		

OCT 23d 13h 32m 13.5±0.05s, SD0.80/76
49.88 N±1.37km, 150.74 E±1.12km, h384±0.42km
North-west of Kurile Islands (220)
m_b5.0/14,

MDJ	15.3	258	−iP	13 35 31.5	−0.6		
CN2	18.3	260	eP	13 36 02.0	−0.8		
SNY	20.5	257	eP	13 36 25.3	1.1		
DL2	23.4	253	eP	13 36 51.0	−0.4		
			PMZ		$m_b=5.3$	1.2	0.15
			eS	13 40 34.0	−1.2		
BJI	26.2	261	eP	13 37 16.0	−0.6		
			ePcP	13 40 31.0	−1.2		
TIA	27.8	253	eP	13 37 31.1	−0.6		
SSE	29.0	241	P	13 37 41.8	0.0		
			PMZ		$m_b=4.7$	1.0	0.035
			pP	13 38 55.0	3.4		
			PcP	13 40 39.0	−0.2		
			eS	13 42 06.0	1.2		
			LE			10.0	0.49
			LZ			20.0	0.93
NJ2	29.6	245	−P	13 37 46.6	−0.7		
			PcP	13 40 40.6	−0.3		
BTO	29.8	268	eP	13 37 49.0	0.0		
TIY	29.9	261	−P	13 37 49.7	0.2		
			PMZ		$m_b=5.2$	0.8	0.090
			S	13 42 17.0	−0.8		
			LZ			20.0	1.74
WHN	33.4	248	−P	13 38 19.0	−0.6		
			PMZ		$m_b=5.0$	1.0	0.070
			PcP	13 40 51.0	−0.1		
			iScP	13 43 57.0	−0.4		
XAN	34.4	259	P	13 38 27.6	−0.5		
QZH	35.2	237	eP	13 38 37.0	2.1		
GTA	37.1	273	−iP	13 38 50.6	0.1		
			PcP	13 41 01.8	−0.1		
			ScP	13 44 09.0	−1.6		
CD2	39.7	259	P	13 39 12.5	0.2		
GYA	41.0	252	−P	13 39 23.0	0.1		
			S	13 45 02.0	−4.2		
WMQ	42.4	287	−iP	13 39 34.5	0.5		
			pP	13 40 49.0	0.3		
			PcP	13 41 18.0	−1.2		
			eS	13 45 25.0	−2.4		
			LZ			24.0	0.75
KMI	44.4	254	−P	13 39 50.0	−0.1		
LSA	48.6	269	−P	13 40 24.3	1.2		
KSH	52.1	289	eP	13 40 49.0	0.5		
			eS	13 47 43.6	1.2		

OCT 23d 15h 54m 51.1±0.09s, SD1.90/10
39.97 N±0.80km, 113.74 E±0.89km, h13±0.04km
North-Eastern China (658)
M_L3.2/10,

BJI	1.9	87	Pn	15 55 21.0	−2.3		
			Pg	15 55 22.5	−1.7		
			Sn	15 55 45.0	−3.7		
			Sg	15 55 47.0	−2.9		
			SMN		$M_L=2.9$	0.5	0.14
			SME			0.5	0.10
TIY	2.5	205	Pn	15 55 33.1	1.4		
			Pg	15 55 35.1	0.2		
			Sg	15 56 07.1	−1.7		
			SMN		$M_L=3.4$	0.5	0.16
			SME			0.6	0.23
TIA	4.6	144	Pg	15 56 13.7	1.1		
			Sg	15 57 09.8	−5.7		
			SMN		$M_L=2.9$	0.9	0.021
			SME			0.7	0.014

OCT 23d 17h 07m 56.3±0.09s, SD2.08/21
39.80 N±0.88km, 113.88 E±0.81km, h3±0.30km
North-Eastern China (658)
M_L3.7/17,

BJI	1.8	81	Pn	17 08 27.0	−1.3		
			Pg	17 08 28.0	0.2		
			Sn	17 08 51.0	−2.5		
			Sg	17 08 52.5	0.2		
			SMN		$M_L=3.2$	0.5	0.20
			SME			0.5	0.23
HHC	2.1	301	Pn	17 08 30.6	−1.6		
			Pg	17 08 32.1	−0.5		
			Sg	17 09 01.0	0.3		
			SMN		$M_L=3.7$	0.8	0.46
			SME			0.8	0.69
TIY	2.4	209	Pn	17 08 38.2	1.7		
			Pg	17 08 40.8	2.7		
			Sg	17 09 11.8	1.3		
			SMN		$M_L=4.0$	0.7	0.56
			SME			0.8	1.15
BTO	3.1	286	Pg	17 08 50.2	−0.4		
			Sg	17 09 27.5	−4.7		
			SMN		$M_L=3.2$	0.4	0.10
			SME			0.4	0.090
TIA	4.4	143	Pn	17 09 05.4	1.0		
			Pg	17 09 16.5	2.4		
			Sg	17 10 14.5	0.2		
			SMN		$M_L=3.1$	0.8	0.041
			SME			0.8	0.016
XAN	7.0	216	Pn	17 09 41.4	1.5		
			Sn	17 11 02.4	0.2		
			Sg	17 11 41.0	5.9		
			SMN		$M_L=3.6$	1.2	0.040
			SME			1.0	0.020
GTA	10.9	272	eP	17 10 33.6	−2.6		

OCT 24d 02h 30m 54.0±0.43s, SD2.55/15
14.99 N±3.57km, 120.51 E±5.32km, h50±km
Luzon (249)

XAN	21.7	333	P	02 35 41.8	−0.8
CD2	22.1	319	eP	02 35 46.0	−0.6
BJI	25.2	352	eP	02 36 18.0	0.6
LZH	25.8	328	eP	02 36 20.0	−2.4

OCT 24d 02h 59m 40.5±0.16s, SD1.59/18
5.42 S±1.23km, 151.71 E±0.68km, h60±1.31km
New Britain region (192)

QZH	44.1	315	−P	03 07 47.0	1.6
WHN	50.6	317	eP	03 08 37.0	1.3
XAN	56.3	317	P	03 09 17.5	−0.8
GTA	65.4	318	eP	03 10 19.2	−0.6

OCT 24d 13h 33m 32.3±0.11s, SD2.19/36
41.87 N±1.36km, 82.58 E±1.16km, h37±0.48km
Southern Xinjiang Province (321)
M_S3.9/1, M_L4.5/6,

WMQ	4.2	61	Pn	13 34 38.3	3.5		
			Sg	13 35 45.8	0.2		

KSH	5.6	247	ePn	13 34 54.5	1.3		
			Pg	13 35 09.0	−1.9		
			Sn	13 35 51.2	−6.2		
			SMN	M_L=4.6		0.5	0.50
			SME			0.5	0.50
GTA	13.3	95	eP	13 36 40.0	−1.7		
			LE	M_S=3.9		8.0	0.29
			LZ	M_S=4.3		6.0	0.60
CD2	20.2	116	eP	13 38 09.2	2.2		
HHC	21.7	83	P	13 38 26.8	4.0		
XAN	22.1	102	P	13 38 25.2	−1.4		
TIY	23.3	90	eP	13 38 39.0	1.3		
GYA	25.1	120	P	13 38 56.0	0.9		
WHN	27.9	104	eP	13 39 21.0	0.0		
			pP	13 39 25.5	−5.2		
SSE	32.6	97	eP	13 40 07.0	4.0		

OCT 24d 13h 38m 28.9±0.10s, SD2.13/30
41.73 N±1.19km, 82.50 E±1.06km, h31±0.32km
Southern Xinjiang Province (321)
M_L4.4/4,

WMQ	4.4	60	ePn	13 39 36.3	2.6		
			Sg	13 40 43.5	−2.3		
KSH	5.5	248	ePn	13 39 52.7	3.7		
			Pg	13 40 06.8	1.2		
			eSn	13 40 54.0	1.5		
			SMN	M_L=4.4		0.7	0.40
			SME			0.5	0.40
HHC	21.8	83	P	13 43 21.0	0.2		
XAN	22.2	102	P	13 43 23.8	−0.4		
TIY	23.3	90	−P	13 43 35.6	0.0		
GYA	25.0	120	P	13 43 54.0	1.7		
WHN	27.9	103	eP	13 44 17.5	−1.1		
			pP	13 44 23.0	−4.2		
SSE	32.7	96	eP	13 45 00.6	−0.1		

OCT 24d 16h 29m 59.6±0.09s, SD1.76/28
21.72 S±3.08km, 138.87 W±3.13km, h5±km
Tuamotu Archipelago region (631)

GYA	120.6	289	PKP	16 48 54.8	1.0		
GTA	127.4	304	ePKP	16 49 07.0	0.0		
WMQ	135.8	311	ePKP	16 49 20.0	−2.8		
KSH	145.5	309	ePKP	16 49 41.5	1.3		
			PP	16 53 07.5	4.9		

OCT 24d 17h 29m 43.5±0.15s, SD2.54/20
2.45 S±2.75km, 77.71 W±3.75km, h20±1.27km
Ecuador (107)

SSE	146.4	330	PKP	17 49 22.3	−0.5		
LZH	146.5	358	ePKP	17 49 24.2	1.0		
XAN	148.0	350	PKP	17 49 26.0	0.5		
WHN	149.8	339	ePKP	17 49 29.0	0.6		

OCT 24d 18h 06m 26.0±0.11s, SD3.54/9
41.71 N±1.23km, 82.57 E±1.16km, h6±0.41km
Southern Xinjiang Province (321)
M_L3.5/7,

WMQ	4.3	59	ePn	18 07 38.2	5.4		
			Sg	18 08 41.9	0.3		
			SMN	M_L=3.4		0.7	0.060
			SME			0.9	0.070

OCT 25d 05h 56m 10.7±0.11s, SD2.58/17
4.33 S±7.33km, 80.45 W±9.73km, h5±km
Peru–Ecuador border region (110)

GTA	145.1	360	iPKP	06 15 48.4	−2.2		
SSE	146.5	325	PKP	06 15 52.0	−0.8		
LZH	148.1	353	ePKP	06 15 57.6	1.9		
XAN	149.2	345	PKP	06 15 59.3	2.0		
WHN	150.4	333	ePKP	06 16 02.0	2.9		

OCT 25d 06h 00m 12.1±0.11s, SD2.60/22
15.30 N±2.63km, 119.91 E±2.71km, h35±3.89km
Luzon (249)
m_b4.8/1,

QZN	10.3	293	eP	06 02 38.9	−2.0		
WHN	16.0	342	eP	06 03 58.5	2.0		
GYA	16.6	314	P	06 04 08.8	4.5		
NJ2	16.7	357	eP	06 04 04.0	−1.3		
XAN	21.1	334	P	06 04 54.5	−2.1		
CD2	21.5	319	P	06 04 59.4	−0.4		
TIY	23.3	345	eP	06 05 16.8	−1.2		
BJI	24.9	353	eP	06 05 32.5	−0.7		
LZH	25.2	328	eP	06 05 35.0	−1.5		
			PMZ	m_b=4.8		1.5	0.042

OCT 25d 06h 24m 54.9±0.12s, SD4.03/6
41.78 N±0.98km, 82.31 E±1.38km, h2±0.36km
Southern Xinjiang Province (321)
M_L3.3/6,

WMQ	4.5	61	ePn	06 26 09.0	5.2		
			Sg	06 27 10.4	−4.1		
			SMN	M_L=3.2		0.8	0.040
			SME			0.7	0.040

OCT 25d 06h 46m 42.2±0.13s, SD1.53/58
7.19 S±2.29km, 113.21 E±2.39km, h42±0.63km
Java (277)
M_S4.7/2, m_b5.4/6,

QZN	26.3	353	eP	06 52 17.0	1.2		
			eS	06 56 45.5	2.3		
KMI	33.7	343	+P	06 53 25.5	3.4		
			pP	06 53 32.5	−0.2		
			LZ	M_S=4.6		15.0	0.90
GYA	34.0	349	+P	06 53 27.4	2.4		
WHN	37.5	2	eP	06 53 55.0	0.5		
SSE	38.8	11	eP	06 54 06.5	1.3		
			pP	06 54 13.8	−2.4		
CD2	39.0	347	+iP	06 54 07.4	1.1		
NJ2	39.4	8	eP	06 54 10.0	0.1		
LSA	42.4	331	P	06 54 31.8	−3.2		
LZH	43.9	349	P	06 54 48.7	1.2		
			PMZ	m_b=5.5		2.0	0.16
			pP	06 54 56.0	−2.4		
			LZ	M_S=4.4		18.0	0.44
TIY	44.7	359	P	06 54 53.4	0.1		
			LE	M_S=4.7		10.0	0.30
			LZ	M_S=4.7		16.0	0.72
BJI	47.1	3	eP	06 55 12.0	−0.2		
			PMZ	m_b=6.3		1.0	0.46
			ePcP	06 56 43.0	−0.3		
			LZ	M_S=4.3		16.0	0.29
HHC	47.8	358	P	06 55 15.6	−2.7		
GTA	48.0	346	+iP	06 55 20.8	1.1		
SNY	49.7	10	−P	06 55 30.5	−2.1		
CN2	51.9	11	eP	06 55 49.0	−0.7		
MDJ	53.6	14	eP	06 56 00.5	−1.8		
WMQ	55.8	338	P	06 56 18.0	0.1		
KSH	57.9	326	eP	06 56 32.0	−0.9		

OCT 25d 07h 31m 16.4±0.06s, SD2.63/5
41.87 N±0.85km, 82.24 E±0.77km, h5±km
Southern Xinjiang Province (321)
M_L3.3/4,

WMQ	4.5	62	ePn	07 32 25.0	−0.1		
			Sg	07 33 30.8	−5.3		

			SMN		$M_L=3.1$		0.6	0.030
			SME				0.5	0.030

OCT 25d 10h 50m 53.6±0.04s, SD1.98/8
41.76 N±0.41km, 82.51 E±0.37km, h5±km
Southern Xinjiang Province (321)
M_L3.4/7,

WMQ	4.3	60	ePg	10 52 10.0	−0.4			
			Sg	10 53 09.3	−0.3			
			SMN		$M_L=3.3$		0.8	0.060
			SME				0.6	0.050

OCT 25d 10h 51m 49.5±0.37s, SD3.42/7
40.16 N±0.73km, 113.14 E±3.47km, h12±km
North-Eastern China (658)
M_L3.3/7,

BJI	2.3	92	Pn	10 52 25.0	−3.1			
			Pg	10 52 26.5	−4.2			
			SMN		$M_L=2.9$		0.5	0.082
			SME				0.5	0.059
TIA	5.0	140	ePg	10 53 20.0	1.5			
			SMN		$M_L=3.0$		0.5	0.018
			SME				0.5	0.021

OCT 25d 13h 06m 31.4±0.14s, SD2.43/21
36.84 N±1.39km, 103.85 E±1.32km, h4±0.05km
Gansu Province (322)
M_S3.6/2, M_L3.9/18,

LZH	0.8	181	−iPg	13 06 46.5	1.5			
			Sg	13 06 57.0	1.9			
			SMN		$M_L=3.5$		1.0	1.67
			SME				1.0	1.60
GTA	4.1	310	Pn	13 07 35.8	0.7			
			Sn	13 08 24.2	−1.1			
			SMN		$M_L=3.9$		0.7	0.23
			SME				0.8	0.22
			LN		$M_S=3.4$		9.0	0.63
XAN	5.0	123	Pn	13 07 47.6	0.1			
			Pg	13 08 00.8	1.2			
			Sn	13 08 41.5	−6.3			
			Sg	13 09 05.8	−2.2			
			SMN		$M_L=3.9$		1.0	0.17
			SME				1.0	0.11
			LN		$M_S=3.8$		7.0	0.62
			LE				7.0	0.62
BTO	6.1	50	Pg	13 08 23.6	4.1			
			Sg	13 09 42.2	−0.6			
			SMN		$M_L=3.4$		0.8	0.030
			SME				0.8	0.020
TIY	6.9	80	Pg	13 08 38.0	4.5			
			Sg	13 10 09.4	1.8			
			SMN		$M_L=4.0$		0.7	0.080
			SME				0.7	0.070
HHC	7.2	54	Pn	13 08 20.4	2.2			
			SMN		$M_L=4.2$		0.8	0.093
			SME				0.8	0.090
BJI	10.2	68	eP	13 09 04.0	2.4			
GYA	10.6	166	eP	13 09 07.8	−0.1			
			S	13 11 12.0	4.0			
			SMN				1.2	0.030
			SME				1.2	0.030
WHN	10.8	123	eP	13 09 05.0	−4.6			

OCT 25d 20h 28m 59.0±0.10s, SD1.56/101
57.56 N±1.28km, 118.98 E±1.74km, h21±0.23km
East of Lake Baykal (328)
M_S5.8/43, m_B5.8/11, m_b5.4/23,

CN2	14.4	161	+P	20 32 21.5	−2.0			
			pP	20 32 28.0	−1.2			
			isP	20 32 31.8	−1.4			
			S	20 35 07.0	4.3			
			iSS	20 35 24.0	4.8			
			LN		$M_S=5.8$		8.0	17.0
			LE				6.0	6.40
			LZ		$M_S=5.7$		10.0	24.8
MDJ	14.5	148	eP	20 32 29.5	3.6			
			pP	20 32 36.0	4.3			
			sP	20 32 40.0	4.3			
			eS	20 35 12.0	4.4			
			LN		$M_S=6.0$		4.0	16.5
			LZ		$M_S=5.6$		14.0	24.4
SNY	16.0	167	−iP	20 32 46.0	0.9			
			PMZ		$m_b=5.5$		1.8	0.45
			pP	20 32 55.0	4.1			
			S	20 35 41.0	−0.6			
			LZ		$M_S=5.3$		16.0	12.6
HHC	17.4	199	+P	20 33 04.8	2.2			
			LN		$M_S=6.1$		5.0	9.90
			LE				5.0	13.1
			LZ		$M_S=5.7$		9.0	16.0
BJI	17.6	187	eP	20 33 05.5	0.2			
			PMZ		$m_b=5.4$		1.8	0.33
			sP	20 33 18.0	2.8			
			eS	20 36 20.0	0.8			
			LE		$M_S=5.7$		11.0	15.8
			LZ		$M_S=5.5$		15.0	19.5
BTO	17.9	203	−iP	20 33 10.0	0.7			
			sP	20 33 20.5	1.4			
			eS	20 36 27.0	0.6			
			LN		$M_S=5.7$		10.0	10.4
			LE				7.0	5.70
DL2	18.7	174	eP	20 33 19.0	−0.2			
			PMZ		$m_b=5.2$		1.5	0.19
			PMZ		$m_B=5.6$		8.0	2.48
			pP	20 33 27.0	1.9			
			eS	20 36 48.0	3.5			
			SME		$m_B=5.6$		8.0	2.42
			LN		$M_S=5.8$		12.0	17.0
			LZ		$M_S=5.5$		12.0	13.8
TIY	20.3	195	−P	20 33 37.0	0.0			
			pP	20 33 47.0	3.5			
			S	20 37 21.5	3.1			
			sS	20 37 32.0	3.2			
			SS	20 37 52.0	4.4			
			LE		$M_S=5.8$		11.0	13.9
			LZ		$M_S=5.3$		18.0	11.9
TIA	21.4	184	+P	20 33 47.9	0.0			
			sP	20 33 58.0	−0.1			
			LN		$M_S=5.8$		11.5	7.14
			LE				6.5	8.18
GTA	22.0	223	−iP	20 33 53.8	−0.6			
			PMZ				3.0	0.82
			pP	20 34 04.0	2.9			
			sP	20 34 07.5	3.0			
			sS	20 38 05.0	2.5			
			LN		$M_S=5.8$		5.0	5.31
			LZ		$M_S=5.5$		10.0	8.29
LZH	23.7	212	−iP	20 34 12.8	1.5			
			PMZ		$m_b=5.9$		2.0	0.94
			PMZ		$m_B=6.0$		4.0	2.39
			pP	20 34 23.0	5.0			
			eS	20 38 25.0	2.5			
			LN		$M_S=6.0$		6.0	8.06
			LE				7.0	8.36
			LZ		$M_S=5.4$		16.0	8.78
WMQ	23.9	248	−iP	20 34 13.5	1.2			

			PMZ		$m_B = 6.0$		4.0	2.14
			eS	20 38 26.0		1.7		
			sS	20 38 38.0		2.5		
			LN		$M_S = 5.7$		4.0	3.57
			LZ		$M_S = 5.3$		16.0	7.87
XAN	24.5	200	−P	20 34 19.7		1.3		
			PMZ		$m_b = 5.5$		1.5	0.30
			PMZ		$m_B = 5.8$		4.0	1.45
			pP	20 34 28.5		3.2		
			S	20 38 32.0		−2.3		
			LN		$M_S = 5.8$		8.5	4.73
			LE				10.0	7.00
NJ2	25.5	180	−P	20 34 28.5		0.5		
			PMZ		$m_b = 5.3$		2.0	0.15
			pP	20 34 38.0		3.1		
			LN		$M_S = 5.3$		6.0	1.67
			LE				10.0	2.00
			LZ		$M_S = 5.5$		15.0	10.9
SSE	26.5	176	−P	20 34 36.0		−1.3		
			PMZ		$m_b = 5.2$		1.0	0.059
			PMZ				3.0	0.49
			sP	20 34 48.0		0.4		
			S	20 39 13.0		5.3		
			LN		$M_S = 5.6$		13.0	6.06
			LE				13.0	2.40
			LZ		$M_S = 4.8$		20.0	2.33
WHN	27.2	189	−P	20 34 43.5		−0.2		
			PMZ		$m_b = 5.7$		1.0	0.18
			pP	20 34 52.5		1.8		
			eS	20 39 18.0		−1.9		
			LN		$M_S = 5.9$		13.0	12.1
			LE				10.0	2.46
			LZ		$M_S = 5.4$		20.0	8.90
CD2	28.7	208	P	20 34 56.8		−0.1		
			S	20 39 46.0		3.6		
			LE		$M_S = 5.8$		8.0	6.60
			LZ		$M_S = 5.2$		14.0	4.50
GYA	32.3	201	−P	20 35 29.0		−0.3		
			pP	20 35 39.0		2.8		
			PP	20 36 40.0		4.0		
			S	20 40 38.0		−1.9		
			LN		$M_S = 5.8$		12.0	6.10
			LE				12.0	3.50
QZH	32.6	181	+P	20 35 30.3		−1.4		
KSH	33.0	256	P	20 35 35.0		−0.7		
			sP	20 35 46.0		0.2		
			eS	20 40 50.0		−2.5		
			LN		$M_S = 5.8$		6.0	3.80
LSA	33.9	227	P	20 35 46.3		2.7		
			S	20 41 02.0		−3.0		
			LN		$M_S = 5.1$		10.0	1.24
KMI	34.4	207	+iP	20 35 47.5		−0.5		
			pP	20 35 57.0		2.1		
			LN		$M_S = 5.7$		11.0	2.40
			LE				11.0	4.90
			LZ		$M_S = 5.6$		10.0	5.40
GZH	34.7	189	−P	20 35 48.0		−1.8		
QZN	39.1	194	P	20 36 27.0		0.2		
			pP	20 36 37.0		3.0		
			PP	20 38 02.5		2.4		
			eS	20 42 23.5		−1.6		
			sS	20 42 37.5		0.5		
			LE		$M_S = 5.7$		14.0	5.20

OCT 25d 20h 52m 51.0 ± 0.04s, SD1.87 / 5
39.80 N ± 0.43km, 113.87 E ± 0.36km, h5 ± km
North−Eastern China (658)
M_L3.1 / 5,

BJI	1.8	82	Pg	20 53 22.5	−0.1	
			Sn	20 53 46.5	−1.3	
			Sg	20 53 48.5	1.5	
			SMN	$M_L = 2.7$	0.5	0.088
			SME		0.5	0.059
HHC	2.0	301	Pg	20 53 26.0	−1.3	
			SMN	$M_L = 3.1$	0.8	0.13
			SME		0.6	0.19
TIY	2.4	209	iPn	20 53 30.6	−0.3	
			iPg	20 53 35.0	2.2	
			Sg	20 54 06.4	1.2	
			SMN	$M_L = 3.1$	0.6	0.12
			SME		0.6	0.13

OCT 25d 23h 51m 23.0 ± 0.08s, SD1.86 / 16
39.88 N ± 0.78km, 113.84 E ± 0.66km, h28 ± 0.20km
North−Eastern China (658)
M_L3.5 / 15,

BJI	1.8	84	Pn	23 51 53.0	0.3	
			Pg	23 51 54.5	−0.6	
			SMN	$M_L = 3.0$	0.5	0.14
			SME		0.5	0.16
HHC	2.0	300	Pg	23 51 59.4	0.8	
			Sg	23 52 26.0	0.2	
			SMN	$M_L = 3.5$	0.8	0.33
			SME		0.8	0.50
TIY	2.4	207	iPg	23 52 06.4	0.2	
			Sg	23 52 38.6	−0.9	
			SMN	$M_L = 3.8$	0.5	0.39
			SME		0.7	0.64
BTO	3.0	285	ePg	23 52 15.5	−1.0	
			Sg	23 52 54.0	−3.7	
			SMN	$M_L = 2.9$	0.4	0.070
			SME		0.4	0.030
TIA	4.5	144	ePg	23 52 43.6	1.1	
			Sg	23 53 41.6	−2.2	
			SMN	$M_L = 3.2$	0.5	0.031
			SME		0.5	0.049

OCT 26d 04h 05m 02.7 ± 0.10s, SD2.28 / 18
11.16 S ± 1.81km, 162.37 E ± 2.16km, h37 ± 0.84km
Solomon Islands (193)

CN2	64.2	331	+P	04 15 35.0	−1.6
BJI	66.5	323	eP	04 15 51.0	−0.6
XAN	67.8	314	P	04 16 02.5	2.9
GTA	76.8	315	eP	04 16 55.0	1.8

OCT 26d 04h 27m 40.1 ± 0.13s, SD2.97 / 13
47.33 N ± 1.37km, 121.06 E ± 1.01km, h15 ± 0.49km
North−Eastern China (658)
M_L4.0 / 11,

CN2	4.7	137	Pn	04 28 48.6	−2.0	
			+iPg	04 29 04.2	1.5	
			Sn	04 29 41.0	−5.7	
			Sg	04 30 04.0	−2.7	
			SMN	$M_L = 4.0$	0.7	0.21
			SME		0.7	0.23
SNY	5.8	161	ePn	04 29 09.4	3.6	
			Pg	04 29 27.0	4.8	
			Sg	04 30 40.4	−0.8	
			SMN	$M_L = 3.9$	0.8	0.099
			SME		0.8	0.11
MDJ	6.5	111	ePg	04 29 38.5	3.0	
			SMN	$M_L = 4.3$	1.0	0.17

OCT 26d 14h 34m 33.3 ± 0.07s, SD0.91 / 30
22.44 S ± 1.24km, 176.84 W ± 1.27km, h188 ± 0.25km
South of Fiji (171)

DL2	83.9	316	eP	14 46 43.3	−0.7			
CN2	84.5	322	+P	14 46 46.4	−0.6			
BJI	88.0	315	eP	14 47 03.0	−1.2			
GYA	88.5	299	P	14 47 07.0	0.3			
TIY	89.4	312	eP	14 47 11.8	1.2			
XAN	90.2	307	P	14 47 14.7	0.4			

OCT 26d 17h 06m 40.6 ± 0.07s, SD1.33 / 115
39.80 N ± 1.63km, 143.44 E ± 1.36km, h5 ± 0.39km
Near east coast of Honshu (228)
M_S6.3 / 57, m_B6.3 / 34, m_b5.9 / 25,

MDJ	11.3	300	+P	17 09 28.0	1.5			
			S	17 11 37.0	2.7			
			LE	M_S = 6.0		14.0	76.1	
CN2	14.0	292	+P	17 10 02.0	−0.1			
			PMZ	m_B = 6.4		10.0	9.20	
			esP	17 10 12.0	2.6			
			eS	17 12 38.0	−1.1			
			LE	M_S = 5.9		12.0	36.5	
			LZ	M_S = 5.8		13.0	42.7	
SNY	15.2	284	+iP	17 10 18.0	0.5			
			PMZ	m_b = 5.5		1.2	0.27	
			sP	17 10 28.7	3.7			
			S	17 13 06.0	−0.3			
			SS	17 13 28.0	4.3			
			LZ	M_S = 6.0		16.0	70.3	
DL2	16.9	274	+iP	17 10 40.0	0.4			
			PMZ	m_B = 6.4		8.0	13.6	
			sP	17 10 50.0	3.0			
			eS	17 13 46.0	−0.9			
			LN	M_S = 6.0		13.0	30.4	
			LE			14.0	27.8	
			LZ	M_S = 5.6		16.0	27.0	
SSE	20.1	251	+P	17 11 14.0	−3.8			
			PMZ	m_B = 5.9		8.0	4.16	
			pP	17 11 19.0	−3.3			
			sP	17 11 26.0	0.6			
			PP	17 11 38.0	1.4			
			SS	17 15 27.0	1.2			
			LN	M_S = 6.3		14.0	53.0	
			LE			14.0	36.0	
			LZ	M_S = 5.4		20.0	14.4	
BJI	20.9	279	+P	17 11 23.5	−2.9			
			PMZ	m_b = 5.9		2.0	1.00	
			PMZ	m_B = 5.8		8.0	3.03	
			eS	17 15 12.0	−3.0			
			LN	M_S = 6.0		14.0	29.2	
			LZ	M_S = 5.8		22.0	43.7	
TIA	21.0	269	+P	17 11 25.8	−2.0			
			sP	17 11 37.0	1.7			
			S	17 15 16.0	−0.8			
			LN	M_S = 6.8		13.0	137	
			LE			13.5	75.5	
NJ2	21.3	256	+P	17 11 29.0	−1.8			
			PMZ	m_B = 5.8		5.0	2.20	
			S	17 15 23.0	0.4			
			LN	M_S = 6.2		13.0	24.4	
			LE			12.0	27.1	
TIY	24.2	275	+P	17 11 58.2	−1.3			
			pP	17 12 03.5	−0.5			
			S	17 16 17.5	2.9			
			LN	M_S = 6.2		15.0	30.3	
			LE			14.0	20.5	
			LZ	M_S = 6.0		17.0	37.8	
HHC	24.3	283	+P	17 11 59.0	−1.0			
			PP	17 12 35.0	0.9			
			S	17 16 15.0	−0.5			
			SMN	m_B = 6.1		8.0	1.48	
			SME				11.0	7.89
			LN	M_S = 6.2			13.0	10.7
			LE				14.0	30.6
WHN	25.4	258	P	17 12 10.0	−0.9			
			PMZ	m_b = 6.5			1.4	1.62
			sP	17 12 20.0	1.6			
			PP	17 12 54.0	4.8			
			S	17 16 36.0	1.0			
			LN	M_S = 6.4			13.0	32.2
			LE				14.0	35.9
			LZ	M_S = 5.9			16.0	26.8
BTO	25.5	283	+iP	17 12 11.0	−0.5			
			PMZ	m_B = 6.3			8.0	6.20
			sP	17 12 20.0	1.2			
			PP	17 12 51.0	1.3			
			S	17 16 34.0	−1.7			
			LN	M_S = 6.5			14.0	40.8
			LE				15.0	52.4
QZH	25.6	242	+iP	17 12 13.0	0.6			
			PMZ	m_b = 6.6			2.0	2.81
			PMZ	m_B = 6.3			7.0	5.58
			pP	17 12 19.5	2.5			
			S	17 16 36.0	−1.6			
			LN	M_S = 6.2			14.0	28.6
			LE				14.0	19.3
			LZ	M_S = 6.0			12.0	23.3
XAN	28.1	269	+P	17 12 34.6	−0.9			
			PMZ	m_b = 6.1			1.5	0.60
			PMZ	m_B = 6.3			8.0	4.70
			pP	17 12 42.0	1.9			
			S	17 17 16.0	−2.4			
			sS	17 17 32.0	4.8			
			LN	M_S = 6.4			14.0	24.0
			LE				16.0	35.0
GZH	30.4	246	+iP	17 12 56.0	−0.4			
			PMZ	m_b = 5.3			1.0	0.050
			PMZ	m_B = 6.1			8.0	3.00
			iS	17 17 56.0	−0.6			
			LN	M_S = 6.4			13.0	26.2
			LE				11.0	21.3
			LZ	M_S = 6.4			12.0	47.6
LZH	31.3	276	+P	17 13 03.5	−0.6			
			PMZ	m_b = 5.8			2.5	0.40
			PMZ	m_B = 6.4			10.0	6.41
			pP	17 13 10.0	1.3			
			PP	17 14 04.0	−2.3			
			PcP	17 15 54.0	−3.8			
			S	17 18 06.0	−3.2			
			sS	17 18 16.0	−2.1			
			SS	17 19 54.0	−0.7			
			LN	M_S = 6.5			14.0	22.2
			LE				14.0	40.9
			LZ	M_S = 6.0			15.0	25.0
GYA	33.3	258	+P	17 13 22.0	0.1			
			PMZ	m_B = 6.4			4.0	2.40
			pP	17 13 29.0	2.5			
			PP	17 14 32.0	−0.6			
			S	17 18 42.0	1.0			
			PcS	17 19 49.0	1.1			
			ScS	17 23 47.0	0.6			
			LN	M_S = 6.4			14.0	29.2
			LE				14.0	18.8
			LZ	M_S = 5.6			18.0	10.8
CD2	33.3	267	+iP	17 13 21.8	−0.2			
			PMZ	m_B = 6.1			6.0	2.06
			PP	17 14 35.5	2.6			
			PcP	17 16 03.5	0.1			
			LN	M_S = 6.6			12.0	47.6

			LZ		$M_S=6.4$		13.0	45.2
GTA	33.4	284	+iP	17 13 23.0		0.6		
			PMZ		$m_B=6.3$		8.0	3.74
			sP	17 13 34.0		4.3		
			PP	17 14 34.0		0.7		
			S	17 18 38.0		−3.9		
			sS	17 18 53.0		2.4		
			LE		$M_S=6.5$		16.0	49.9
			LZ		$M_S=6.3$		16.0	50.1
QZN	35.5	244	+P	17 13 42.5		1.5		
			PP	17 15 03.0		2.8		
			S	17 19 17.5		1.9		
			sS	17 19 24.0		−0.4		
			LN		$M_S=6.3$		15.0	18.5
			LE				15.0	17.4
KMI	37.0	259	+iP	17 13 54.0		0.5		
			PMZ		$m_B=6.3$		8.0	4.00
			sP	17 14 05.0		4.3		
			PP	17 15 21.5		2.7		
			S	17 19 37.0		−1.0		
			PcS	17 19 57.0		−4.1		
			LN		$M_S=6.0$		16.0	13.2
			LZ		$M_S=6.3$		20.0	51.0
WMQ	41.1	294	+iP	17 14 28.5		1.2		
			PMZ		$m_B=6.3$		10.0	5.40
			S	17 20 42.0		2.5		
			LN		$M_S=6.4$		14.0	9.41
			LE				12.0	18.3
			LZ		$M_S=6.1$		12.0	16.7
LSA	43.6	273	P	17 14 50.4		2.1		
			S	17 21 20.0		3.5		
			LN		$M_S=6.1$		15.0	7.74
			LE				16.0	7.14
			LZ		$M_S=6.0$		16.0	16.1
KSH	50.8	293	+iP	17 15 46.0		1.4		
			PMZ		$m_B=6.3$		6.0	2.80
			sP	17 15 57.0		5.1		
			eS	17 22 56.0		−4.1		
			LE		$M_S=6.8$		12.0	32.0

OCT 26d 17h 53m 10.0 ± 0.32s, SD1.34 / 21
39.87 N ± 2.20km, 143.15 E ± 3.69km, h5 ± km
Near east coast of Honshu (228)

DL2	16.7	274	eP	17 57 06.0		−0.2
BJI	20.7	279	eP	17 57 51.5		−2.0
NJ2	21.1	256	eP	17 57 59.0		0.7
WHN	25.2	257	−P	17 58 39.0		0.4
XAN	27.8	269	P	17 59 02.8		−0.2
GYA	33.1	257	P	17 59 49.2		−0.5
GTA	33.1	283	−P	17 59 50.6		0.7

OCT 26d 18h 14m 03.7 ± 0.10s, SD1.38 / 27
2.93 S ± 1.26km, 130.19 E ± 1.52km, h10 ± 0.29km
Seram (272)

WHN	36.6	337	eP	18 21 12.5		0.5
GYA	37.0	324	P	18 21 16.4		0.3
KMI	38.6	318	eP	18 21 30.5		1.4
XAN	41.9	333	P	18 21 55.0		−1.4
TIY	43.7	339	+P	18 22 11.5		0.5
BJI	44.7	345	eP	18 22 18.0		−0.9
CN2	46.7	355	eP	18 22 34.4		−0.8
GTA	50.6	330	eP	18 23 04.6		−0.6

OCT 26d 18h 30m 36.8 ± 0.31s, SD1.29 / 25
39.97 N ± 1.52km, 143.71 E ± 3.62km, h5 ± km
Off east coast of Honshu (229)

DL2	17.1	274	eP	18 34 38.0		−0.3
BJI	21.1	279	eP	18 35 22.0		−2.6
WHN	25.7	258	eP	18 36 10.0		0.6
GTA	33.5	283	eP	18 37 20.8		0.7
GYA	33.5	258	P	18 37 19.8		−0.5

OCT 26d 20h 01m 23.4 ± 0.07s, SD1.25 / 57
39.88 N ± 1.64km, 143.55 E ± 1.54km, h4 ± 0.64km
Off east coast of Honshu (229)
M_S4.4 / 9, m_b4.8 / 6,

MDJ	11.4	299	eP	20 04 12.5	2.6		
SNY	15.2	284	+P	20 05 01.8	0.5		
DL2	17.0	274	eP	20 05 26.0	2.5		
			PMZ	$m_b=5.0$		1.0	0.070
			LN	$M_S=4.3$		12.0	0.68
			LZ	$M_S=3.8$		15.0	0.36
SSE	20.2	251	eP	20 06 00.8	−1.1		
			sP	20 06 08.5	−0.8		
			LN	$M_S=4.4$		14.0	0.81
BJI	21.0	279	eP	20 06 08.0	−2.1		
			eS	20 09 58.0	−1.5		
			LN	$M_S=4.3$		14.0	0.52
			LZ	$M_S=4.1$		15.0	0.58
TIA	21.1	268	eP	20 06 09.8	−1.9		
			sS	20 10 16.0	6.6		
			LN	$M_S=4.6$		13.0	0.58
			LE			13.0	0.80
NJ2	21.4	256	+P	20 06 13.5	−1.3		
TIY	24.3	275	eP	20 06 42.4	−0.8		
			LZ	$M_S=4.3$		16.0	0.83
WHN	25.5	258	eP	20 06 55.0	0.1		
			PMZ	$m_b=5.3$		1.2	0.090
			sP	20 07 04.0	1.8		
BTO	25.5	283	eP	20 06 56.0	0.9		
			pP	20 07 03.0	3.6		
			eS	20 11 20.0	−0.9		
			LN	$M_S=4.6$		14.0	0.30
			LE			14.0	0.70
XAN	28.2	269	P	20 07 18.7	−0.6		
LZH	31.3	276	−P	20 07 49.0	1.2		
			PMZ	$m_b=5.1$		1.2	0.041
			LZ	$M_S=4.6$		14.0	0.79
GYA	33.4	258	P	20 08 05.6	−0.2		
CD2	33.4	267	eP	20 08 05.4	−0.4		
GTA	33.4	284	+iP	20 08 06.7	0.7		
KMI	37.1	259	−P	20 08 38.0	0.6		
WMQ	41.1	294	P	20 09 12.0	1.3		

OCT 26d 21h 39m 22.6 ± 0.11s, SD1.16 / 85
4.52 S ± 1.76km, 152.98 E ± 3.03km, h79 ± 0.76km
New Britain region (192)
M_S4.8 / 3, m_B5.7 / 2, m_b5.4 / 14,

QZH	44.4	313	+P	21 47 28.5	0.7		
			eS	21 53 57.0	0.5		
			LZ	$M_S=4.7$		30.0	1.25
SSE	46.6	322	+P	21 47 45.0	−0.3		
			PMZ	$m_b=5.4$		1.0	0.047
			pP	21 48 02.0	−2.3		
			PP	21 49 35.4	−0.2		
			eS	21 54 28.0	0.0		
			sS	21 55 00.0	−1.0		
			LE	$M_S=4.8$		12.0	0.42
			LZ	$M_S=4.7$		22.0	1.06
QZN	48.5	300	eP	21 48 00.6	0.9		
			eS	21 54 56.0	2.0		
NJ2	48.7	321	+P	21 48 02.5	0.8		
			PMZ	$m_B=5.9$		4.0	0.58
			S	21 54 57.0	0.4		
			LZ	$M_S=4.8$		26.0	1.36
WHN	50.8	316	eP	21 48 18.0	0.7		

			PMZ		$m_b = 5.5$		1.5	0.090
			pP	21 48 35.5		−1.0		
			eS	21 55 28.0		2.1		
			LZ		$M_S = 4.9$		22.0	1.31
DL2	52.0	329	eP	21 48 27.0		0.3		
			PMZ		$m_b = 5.8$		1.5	0.19
			eS	21 55 43.0		0.0		
			LZ		$M_S = 4.6$		22.0	0.69
TIA	52.6	323	−P	21 48 30.5		−0.5		
MDJ	53.2	339	eP	21 48 35.0		−0.7		
SNY	53.3	333	eP	21 48 34.6		−1.9		
CN2	54.1	336	+P	21 48 41.6		−0.6		
GYA	54.4	307	P	21 48 44.8		0.6		
			PcP	21 49 49.4		3.2		
			S	21 56 15.0		1.3		
			sS	21 56 49.0		0.6		
BJI	55.8	326	eP	21 48 54.0		−0.1		
			PMZ		$m_B = 5.6$		5.0	0.40
			eS	21 56 28.0		−5.4		
			esS	21 57 02.0		−5.2		
			LZ		$M_S = 4.9$		25.0	1.36
TIY	56.4	322	+P	21 48 58.7		−0.3		
			S	21 56 41.0		0.0		
			sS	21 57 19.0		3.0		
			LE		$M_S = 4.8$		11.0	0.26
			LZ		$M_S = 5.0$		24.0	1.62
XAN	56.5	316	P	21 48 59.0		−0.8		
KMI	57.0	304	+P	21 49 04.0		0.9		
CD2	58.7	310	eP	21 49 14.8		−0.1		
HHC	58.9	324	P	21 49 16.8		0.2		
BTO	59.7	323	P	21 49 22.0		0.2		
LZH	61.2	316	+P	21 49 32.5		0.6		
			PMZ		$m_b = 5.7$		2.5	0.24
			pP	21 49 53.0		1.5		
			eS	21 57 48.0		3.9		
			LZ		$M_S = 5.0$		23.0	1.26
GTA	65.6	317	+P	21 50 00.8		−0.2		
WMQ	75.7	317	+P	21 51 02.5		0.8		
			pP	21 51 24.0		2.1		
			eS	22 00 40.5		4.6		
			ScS	22 01 06.0		2.1		
			LZ		$M_S = 4.9$		32.0	0.90
KSH	82.9	311	+P	21 51 42.0		0.9		
			pP	21 52 02.0		0.4		
			sP	21 52 12.0		1.6		
			eS	22 01 54.5		1.7		

OCT 26d 22h 41m 17.1 ± 0.16s, SD1.86 / 65
35.20 N ± 1.72km, 133.49 E ± 2.06km, h11 ± 0.39km
Southern Honshu (232)
M_S4.7 / 29, m_b4.8 / 7,

MDJ	9.9	344	eP	22 43 43.0		0.8		
DL2	10.2	295	eP	22 43 46.0		−0.4		
			eS	22 45 42.0		0.4		
			LZ		$M_S = 4.3$		12.0	1.89
SNY	10.2	313	eP	22 43 47.0		0.3		
			pP	22 43 50.0		−1.7		
			S	22 45 44.0		2.1		
			LN		$M_S = 4.4$		12.0	1.55
			LE				10.0	1.38
			LZ		$M_S = 4.6$		9.0	2.42
CN2	10.6	327	eP	22 43 55.3		3.1		
			eS	22 45 54.0		2.0		
			LN		$M_S = 4.7$		13.0	1.60
			LE				13.0	3.50
			LZ		$M_S = 4.2$		12.0	1.40
SSE	11.1	252	P	22 44 02.8		3.8		
			PMZ		$m_b = 4.8$		0.9	0.021
			sP	22 44 09.4		2.6		
			eS	22 46 06.0		1.9		
			SMN				1.2	0.12
			SME				1.1	0.10
			LN		$M_S = 4.7$		13.0	3.35
			LE				12.0	1.85
			LZ		$M_S = 3.9$		20.0	0.93
NJ2	12.6	260	−P	22 44 19.5		0.2		
			LN		$M_S = 4.5$		12.0	1.74
			LE				10.0	0.61
			LZ		$M_S = 4.0$		16.0	1.00
TIA	13.3	279	eP	22 44 31.8		2.5		
			eS	22 47 04.0		5.2		
			LN		$M_S = 4.6$		11.5	1.20
			LE				12.0	1.42
BJI	14.5	295	eP	22 44 44.5		−0.6		
			eS	22 47 24.0		−3.4		
			LN		$M_S = 4.5$		11.0	0.87
			LE				11.0	1.01
			LZ		$M_S = 4.5$		11.0	1.55
QZH	16.4	236	eP	22 45 08.0		−1.6		
			eS	22 48 10.0		−1.7		
			LN		$M_S = 4.7$		14.0	1.40
			LE				14.0	1.89
			LZ		$M_S = 4.3$		12.0	0.97
WHN	16.7	259	eP	22 45 16.5		3.2		
			PMZ		$m_b = 5.3$		1.5	0.22
			pP	22 45 20.0		2.0		
			eS	22 48 23.0		4.4		
			PcP	22 50 03.0		0.4		
			LN		$M_S = 4.8$		12.0	1.05
			LE				12.0	2.20
			LZ		$M_S = 4.6$		12.0	1.81
TIY	17.1	285	eP	22 45 18.0		−0.4		
			LN		$M_S = 4.5$		12.0	1.09
			LZ		$M_S = 4.5$		12.0	1.45
HHC	18.2	295	P	22 45 32.3		1.0		
BTO	19.3	293	eP	22 45 44.0		−0.8		
			pP	22 45 48.0		−1.4		
			eS	22 49 16.0		−0.5		
			LN		$M_S = 4.7$		11.0	0.60
			LE				11.0	1.20
XAN	20.2	274	P	22 45 54.3		−1.2		
			S	22 49 36.0		−0.9		
			LN		$M_S = 4.8$		11.0	1.20
			LE				9.0	0.60
LZH	24.1	281	eP	22 46 33.5		−0.4		
			PMZ		$m_b = 4.8$		2.0	0.077
			eS	22 50 47.0		−1.5		
			LN		$M_S = 4.8$		12.0	0.83
			LE				12.0	0.92
			LZ		$M_S = 4.6$		14.0	1.20
GYA	24.6	257	P	22 46 41.0		2.3		
			S	22 51 00.0		4.1		
			LE		$M_S = 5.0$		11.0	1.60
CD2	25.2	269	eP	22 46 45.0		0.0		
			LN		$M_S = 5.1$		12.0	2.14
QZN	26.4	239	eP	22 46 56.4		0.5		
			eS	22 51 30.0		2.7		
			LN		$M_S = 4.9$		15.0	1.20
			LE				15.0	1.30
GTA	27.0	289	eP	22 46 58.8		−2.9		
			LE		$M_S = 4.7$		11.0	0.82
			LZ		$M_S = 4.7$		12.0	1.20
KMI	28.3	258	−P	22 47 16.0		2.4		
WMQ	36.0	298	P	22 48 22.3		1.9		
			LN		$M_S = 4.7$		12.0	0.51
			LZ		$M_S = 4.4$		16.0	0.47

OCT 26d 22h 52m 58.1 ± 0.07s, SD1.59 / 32
39.82 N ± 2.07km, 143.66 E ± 1.59km, h4 ± 0.64km
Off east coast of Honshu (229)
M_S4.7 / 6,

MDJ	11.5	299	eP	22 55 47.5	1.5			
BJI	21.1	279	eP	22 57 41.0	−4.7			
WHN	25.6	258	−P	22 58 30.2	0.0			
			sP	22 58 39.0	1.5			
			LN	M_S = 4.9		16.0	1.49	
			LE			12.0	0.73	
GYA	33.5	258	P	22 59 40.4	−0.6			
			sP	22 59 51.4	3.3			
			LN	M_S = 4.8		15.0	0.80	
			LE			15.0	0.40	
GTA	33.5	284	+P	22 59 41.8	0.4			
WMQ	41.2	294	P	23 00 46.7	0.5			

OCT 26d 22h 56m 38.0 ± 0.19s, SD1.46 / 74
39.92 N ± 2.08km, 143.50 E ± 2.24km, h5 ± km
Off east coast of Honshu (229)
M_S4.8 / 23, m_b5.1 / 11,

MDJ	11.3	299	eP	22 59 25.6	1.9			
CN2	14.0	292	eP	23 00 00.0	0.4			
			eS	23 02 36.0	−0.6			
			LN	M_S = 4.6		13.0	1.90	
SNY	15.2	284	−P	23 00 16.6	1.4			
DL2	16.9	274	eP	23 00 40.0	2.5			
			PMZ	m_b = 5.1		1.0	0.090	
			sP	23 00 48.5	3.6			
			eS	23 03 44.0	−1.4			
			LN	M_S = 4.7		11.0	1.23	
			LE			12.0	1.34	
			LZ	M_S = 4.1		15.0	0.73	
SSE	20.1	251	P	23 01 13.5	−2.7			
			pP	23 01 22.5	2.0			
			sS	23 05 03.0	−0.9			
			LN	M_S = 4.8		12.0	1.52	
			LE			10.0	0.67	
			LZ	M_S = 4.2		18.0	0.91	
BJI	20.9	279	eP	23 01 21.5	−2.7			
			LN	M_S = 4.6		14.0	1.03	
			LZ	M_S = 4.4		16.0	1.28	
TIA	21.1	268	−P	23 01 24.1	−1.7			
			LE	M_S = 4.7		13.0	1.26	
NJ2	21.4	256	+P	23 01 27.0	−2.0			
			eS	23 05 24.0	1.8			
			LZ	M_S = 4.5		16.0	1.48	
TIY	24.2	275	eP	23 01 57.2	−0.1			
			sS	23 06 25.0	4.0			
			LN	M_S = 4.7		14.0	1.16	
			LZ	M_S = 4.6		14.0	1.19	
BTO	25.5	282	eP	23 02 10.0	0.8			
			sP	23 02 17.5	1.2			
			eS	23 06 35.0	0.4			
			LN	M_S = 5.0		13.0	1.10	
			LE			15.0	1.60	
WHN	25.5	258	+P	23 02 09.5	0.4			
			PMZ	m_b = 5.3		1.0	0.080	
			sP	23 02 18.0	1.6			
			eS	23 06 28.0	−6.5			
			LN	M_S = 5.0		14.0	1.76	
			LE			14.0	1.31	
XAN	28.1	269	P	23 02 33.0	−0.4			
LZH	31.3	276	−P	23 03 03.2	1.3			
			PMZ	m_b = 5.2		1.5	0.058	
			LN	M_S = 5.1		13.0	1.00	
			LE			13.0	1.30	
			LZ	M_S = 4.9		14.0	1.90	
GYA	33.4	258	P	23 03 20.2	0.2			
			sP	23 03 28.6	1.4			
			LN	M_S = 5.1		14.0	1.30	
			LE			14.0	0.70	
GTA	33.4	283	+iP	23 03 21.0	0.9			
			sP	23 03 30.0	2.8			
			sS	23 08 50.0	1.7			
			LE	M_S = 4.9		15.0	1.13	
			LZ	M_S = 4.8		16.0	1.46	
CD2	33.4	267	eP	23 03 19.5	−0.5			
			eS	23 08 44.5	3.7			
			LN	M_S = 5.2		12.0	1.79	
			LZ	M_S = 4.8		14.0	1.39	
QZN	35.6	244	eP	23 03 41.0	1.7			
			eS	23 09 17.5	1.9			
			LN	M_S = 4.8		14.0	0.70	
KMI	37.1	259	eP	23 03 51.5	−0.1			
WMQ	41.1	294	P	23 04 26.0	1.2			
			eS	23 10 38.5	0.3			
			sS	23 10 46.0	0.3			
			LE	M_S = 5.0		12.0	0.86	
			LZ	M_S = 4.6		14.0	0.60	
LSA	43.6	273	P	23 04 48.4	2.3			
KSH	50.8	293	eP	23 05 43.9	1.8			
			eS	23 13 00.0	2.3			

OCT 27d 00h 19m 57.0 ± 0.18s, SD1.64 / 79
39.89 N ± 2.48km, 143.57 E ± 2.07km, h10 ± km
Off east coast of Honshu (229)
M_S5.0 / 25, m_b4.8 / 14,

MDJ	11.4	299	eP	00 22 44.7	1.6			
CN2	14.1	292	+P	00 23 21.8	2.9			
SNY	15.3	284	eP	00 23 33.0	−1.5			
			PMZ	m_b = 4.5		1.0	0.023	
			sP	00 23 42.6	0.1			
			S	00 26 28.0	4.2			
			LN	M_S = 4.8		14.0	2.34	
			LE			14.0	1.41	
			LZ	M_S = 4.6		17.0	3.11	
DL2	17.0	274	−P	00 23 59.0	2.3			
			PMZ	m_b = 5.2		1.0	0.12	
			sP	00 24 07.0	2.2			
			eS	00 27 08.0	3.3			
			LN	M_S = 4.7		12.0	1.84	
			LZ	M_S = 4.2		16.0	0.99	
SSE	20.2	251	P	00 24 34.8	−0.2			
			PMZ	m_b = 4.7		1.0	0.035	
			pP	00 24 44.0	3.9			
			sS	00 28 26.0	2.0			
			SS	00 28 45.0	0.5			
			LN	M_S = 5.0		12.0	2.27	
			LE			11.0	1.43	
			LZ	M_S = 4.6		12.0	1.54	
BJI	21.0	279	eP	00 24 41.0	−2.2			
			PMZ	m_b = 4.7		1.5	0.052	
			eS	00 28 30.0	−2.1			
			LE	M_S = 4.8		13.0	1.70	
			LZ	M_S = 4.8		14.0	2.35	
TIA	21.1	268	−P	00 24 42.5	−2.2			
			LN	M_S = 5.2		13.0	1.73	
			LE			13.0	3.83	
NJ2	21.4	256	−P	00 24 46.0	−1.9			
			LN	M_S = 5.0		11.0	1.62	
			LE			11.0	1.30	
TIY	24.3	275	−P	00 25 18.8	2.6			
			LN	M_S = 4.9		15.0	2.06	
HHC	24.3	283	P	00 25 16.3	−0.3			

			PP	00 25 49.0	−2.0			
			S	00 29 39.0	6.7			
			LN		M_S=5.0		14.0	1.63
			LE				15.0	1.73
			LZ		M_S=4.8		18.0	2.77
BTO	25.5	283	eP	00 25 28.0	−0.1			
			sP	00 25 36.0	−0.1			
			eS	00 29 52.0	−1.4			
			LN		M_S=5.2		14.0	2.20
			LE				16.0	2.50
WHN	25.5	258	+iP	00 25 28.0	0.1			
			PMZ		m_b=5.5		1.0	0.11
			pP	00 25 37.0	3.9			
			sS	00 30 03.0	1.1			
			LN		M_S=5.2		15.0	2.92
			LE				14.0	1.63
XAN	28.2	269	P	00 25 51.3	−1.0			
			S	00 30 33.0	−2.5			
			LN		M_S=5.0		12.0	0.80
			LE				12.0	1.30
LZH	31.4	276	+P	00 26 20.5	−0.3			
			PMZ		m_b=5.1		1.2	0.041
			pP	00 26 25.0	−0.9			
			sP	00 26 29.5	0.7			
GYA	33.4	258	+P	00 26 38.2	−0.6			
			sP	00 26 46.8	0.0			
			S	00 32 02.0	3.7			
			LN		M_S=5.1		16.0	1.70
			LE				16.0	0.90
CD2	33.4	267	eP	00 26 38.2	−0.6			
			LN		M_S=5.3		12.0	2.39
			LZ		M_S=5.0		15.0	1.95
GTA	33.4	284	+iP	00 26 39.4	0.5			
			pP	00 26 48.0	3.9			
			S	00 31 52.0	−6.5			
			LE		M_S=5.1		14.0	1.60
			LZ		M_S=5.0		16.0	2.33
QZN	35.7	244	eP	00 27 02.0	4.1			
			eS	00 32 36.0	2.0			
			LN		M_S=5.0		15.0	1.00
			LE				16.0	1.00
KMI	37.1	259	+P	00 27 10.5	0.2			
			pP	00 27 19.5	4.0			
WMQ	41.1	294	P	00 27 45.0	1.4			
			eS	00 34 00.0	3.1			
			LZ		M_S=4.8		14.0	1.00
LSA	43.7	273	eP	00 28 09.0	4.1			
KSH	50.9	293	eP	00 29 01.5	0.6			
			eS	00 36 17.0	0.7			

OCT 27d 00h 57m 30.5±0.09s, SD2.44/15
41.73 N±0.93km, 82.64 E±0.84km, h10±0.28km
Southern Xinjiang Province (321)
M_L4.1/9,

WMQ	**4.3**	**59**	**Pn**	**00 58 39.4**	**3.4**			
			Sg	**00 59 46.8**	**2.6**			
			SMN		**M_L=4.1**		**0.8**	**0.35**
			SME				**0.8**	**0.36**
KSH	**5.6**	**249**	**ePn**	**00 58 56.4**	**2.4**			
			eSg	**01 00 25.5**	**0.5**			
			SMN		**M_L=4.3**		**0.6**	**0.30**
			SME				**0.6**	**0.30**
GTA	**13.3**	**94**	**eP**	**01 00 40.4**	**−1.5**			

OCT 27d 01h 45m 55.5±0.07s, SD1.33/106
39.93 N±1.72km, 143.48 E±1.36km, h13±0.46km
Near east coast of Honshu (228)
M_S6.6/51, m_B6.3/34, m_b5.8/24,

MDJ	11.3	299	+iP	01 48 42.2	2.1			
			sP	01 48 52.0	3.8			
			S	01 50 50.0	3.0			
			LE		M_S=6.1		12.0	88.4
CN2	14.0	292	+P	01 49 16.0	0.0			
			PMZ		m_B=6.6		10.0	12.4
			pP	01 49 22.0	1.3			
			sP	01 49 26.0	1.6			
			cS	01 51 54.0	1.9			
			LE		M_S=6.1		12.0	60.0
SNY	15.2	284	+iP	01 49 33.0	1.4			
			PMZ		m_b=5.8		1.8	0.73
			PMZ		m_B=6.4		12.0	18.7
			sP	01 49 45.6	5.5			
			SMN		m_B=5.8		10.0	4.56
			SME				15.0	7.88
			LZ		M_S=5.7		20.0	48.3
DL2	16.9	274	+iP	01 49 53.0	−0.9			
			PMZ		m_B=6.0		12.0	8.54
			eS	01 53 00.0	−1.0			
			LZ		M_S=5.8		16.0	41.6
SSE	20.1	251	+P	01 50 30.0	−2.5			
			PMZ		m_b=5.2		1.6	0.19
			PMZ		m_B=5.9		8.0	4.62
			pP	01 50 39.0	1.0			
			sP	01 50 45.5	4.2			
			PP	01 50 56.0	4.5			
			S	01 54 08.0	−4.7			
			SS	01 54 42.0	0.9			
			LN		M_S=6.6		14.0	111
			LE				14.0	65.8
BJI	20.9	279	+P	01 50 38.0	−2.5			
			PMZ		m_b=5.9		2.0	1.16
			eS	01 54 33.0	4.6			
			LN		M_S=6.3		15.0	62.0
TIA	21.1	268	+P	01 50 40.2	−1.9			
			S	01 54 28.5	−2.3			
			LN		M_S=7.0		14.0	303
NJ2	21.4	256	+P	01 50 44.0	−1.3			
			PMZ		m_b=5.6		1.1	0.28
			PMZ		m_B=5.7		3.5	1.09
			iS	01 54 38.0	0.4			
			LN		M_S=6.4		12.0	31.0
			LE				12.0	49.5
TIY	24.2	275	+P	01 51 12.8	−0.8			
			pP	01 51 17.5	−1.7			
			S	01 55 25.0	−3.2			
			sS	01 55 40.0	1.6			
			LE		M_S=6.3		13.0	43.4
			LZ		M_S=6.3		16.0	76.6
HHC	24.3	283	+iP	01 51 13.5	−0.4			
			PP	01 51 52.0	3.9			
			LN		M_S=6.4		11.0	21.4
			LE				13.0	47.4
			LZ		M_S=6.3		18.0	81.5
BTO	25.5	282	+iP	01 51 25.0	−0.4			
			PMZ		m_B=6.4		8.0	7.10
			sP	01 51 36.5	2.5			
			PP	01 52 06.0	2.3			
			S	01 55 50.5	1.6			
			sS	01 56 02.0	2.8			
			LN		M_S=6.5		13.0	46.5
			LE				13.0	43.9
WHN	25.5	258	P	01 51 23.6	−1.8			
			PMZ		m_b=6.5		1.5	2.00
			PMZ		m_B=6.3		6.0	4.17
			S	01 55 47.0	−2.2			
QZH	25.7	242	+iP	01 51 27.0	−0.2			

			PMZ		$m_B = 6.5$		8.0	10.1
			pP	01 51 34.0		1.1		
			S	01 55 52.0		−0.3		
			LZ		$M_S = 6.1$		14.0	40.5
XAN	28.1	269	+iP	01 51 49.0		−0.7		
			PMZ		$m_b = 6.2$		1.5	0.70
			PMZ		$m_B = 6.4$		11.0	9.00
			S	01 56 33.4		1.3		
			LN		$M_S = 6.6$		13.0	31.6
			LE				11.0	56.0
GZH	30.5	246	+iP	01 52 11.0		0.0		
			PMZ		$m_b = 5.8$		1.5	0.25
			PMZ		$m_B = 6.3$		7.0	3.70
			iS	01 57 08.0		−3.0		
			LN		$M_S = 6.8$		14.0	69.0
			LE				12.0	46.2
			LZ		$M_S = 6.6$		12.0	85.6
LZH	31.3	276	+P	01 52 18.0		−0.2		
			PMZ		$m_b = 6.2$		2.0	0.90
			pP	01 52 22.0		−1.8		
			sP	01 52 26.0		−0.8		
			S	01 57 24.0		1.4		
			sS	01 57 36.0		2.6		
			SS	01 59 14.0		5.3		
			LN		$M_S = 6.7$		13.0	44.4
			LE				13.0	55.9
GTA	33.4	283	+iP	01 52 36.7		0.4		
			PMZ		$m_B = 6.5$		7.0	5.25
			PP	01 53 47.0		−0.3		
			S	01 57 57.0		2.0		
			LE		$M_S = 6.6$		15.0	57.7
			LZ		$M_S = 6.5$		16.0	72.3
GYA	33.4	258	+P	01 52 36.4		0.1		
			PMZ		$m_b = 5.8$		1.4	0.21
			PMZ		$m_B = 6.4$		4.0	2.60
			PP	01 53 47.0		−0.3		
			PcP	01 55 13.0		−4.2		
			S	01 57 57.0		1.9		
			SS	01 59 57.0		−0.4		
			ScS	02 03 01.4		1.9		
			LN		$M_S = 6.8$		15.0	76.1
			LE				15.0	49.2
			LZ		$M_S = 6.0$		16.0	21.8
CD2	33.4	267	iP	01 52 36.0		−0.2		
			PMZ		$m_B = 6.4$		7.0	4.28
			PP	01 53 47.8		0.5		
			S	01 57 52.0		−3.1		
			LN		$M_S = 6.8$		11.0	67.4
			LZ		$M_S = 6.5$		16.0	76.7
QZN	35.6	244	+P	01 52 57.0		1.4		
			sP	01 53 08.5		4.1		
			PP	01 54 17.5		2.2		
			eS	01 58 28.0		−3.0		
			sS	01 58 38.5		−2.3		
			SS	02 00 48.0		−1.6		
			LN		$M_S = 6.6$		15.5	39.9
			LE				15.0	29.0
KMI	37.1	259	+P	01 53 09.0		1.1		
			PMZ		$m_B = 6.5$		6.0	5.50
			pP	01 53 15.5		2.0		
			PP	01 54 36.0		2.4		
			S	01 58 52.0		0.0		
			LN		$M_S = 6.8$		16.0	60.2
			LE				13.0	39.7
WMQ	41.0	294	P	01 53 42.5		1.5		
			PMZ		$m_B = 6.3$		12.0	6.40
			PP	01 55 22.0		3.7		
			S	01 59 50.0		−2.2		
			SS	02 02 52.0		2.1		
			LN		$M_S = 6.6$		13.0	38.1
			LE				13.0	31.8
LSA	43.6	273	P	01 54 04.8		2.4		
			S	02 00 35.0		5.1		
			LN		$M_S = 6.2$		16.0	11.2
			LE				15.0	9.54
			LZ		$M_S = 6.2$		16.0	23.2
KSH	50.8	293	P	01 54 59.0		0.7		
			sP	01 55 10.0		3.1		
			PP	01 56 58.0		3.6		
			eS	02 02 13.0		0.2		
			LN		$M_S = 6.6$		12.0	24.4

OCT 27d 01h 47m 46.4 ± 0.06s, SD0.75 / 17
25.73 S ± 1.29km, 177.43 W ± 1.69km, h193 ± 0.55km
South of Fiji **(171)**

QZN	83.5	295	eP	01 59 55.8	1.3	
MDJ	85.1	325	eP	02 00 03.0	0.5	
WHN	86.0	307	−P	02 00 06.5	−0.2	
SNY	86.5	320	+P	02 00 09.3	−0.2	
CN2	86.7	322	−P	02 00 10.4	−0.2	
TIY	91.1	312	eP	02 00 31.4	0.1	

OCT 27d 02h 06m 06.6 ± 0.06s, SD1.32 / 88
39.82 N ± 1.80km, 143.52 E ± 1.75km, h6 ± 0.76km
Off east coast of Honshu **(229)**
M_S6.2 / 2, m_b5.4 / 16,

MDJ	11.4	299	−iP	02 08 56.0	3.0		
CN2	14.1	292	eP	02 09 29.0	0.3		
SNY	15.2	284	eP	02 09 45.2	1.0		
DL2	17.0	274	eP	02 10 07.0	0.7		
			PMZ		$m_b = 5.1$	0.9	0.090
			sP	02 10 15.5	1.7		
SSE	20.1	251	eP	02 10 42.5	−1.9		
			pP	02 10 46.5	−2.5		
BJI	20.9	279	eP	02 10 50.5	−2.4		
TIA	21.1	269	+P	02 10 51.8	−2.5		
NJ2	21.4	256	−P	02 10 56.0	−1.3		
TIY	24.3	275	+P	02 11 26.4	0.4		
HHC	24.3	283	P	02 11 26.0	−0.4		
WHN	25.5	258	P	02 11 37.5	0.0		
			PMZ		$m_b = 5.7$	1.0	0.20
			sP	02 11 47.3	2.2		
BTO	25.5	283	eP	02 11 38.2	0.3		
QZH	25.6	242	eP	02 11 40.5	1.6		
XAN	28.1	269	P	02 12 02.5	0.5		
LZH	31.3	276	P	02 12 31.0	0.4		
			PMZ		$m_b = 5.7$	1.6	0.21
			pP	02 12 35.5	0.3		
			sP	02 12 38.5	0.6		
GYA	33.4	258	+P	02 12 48.0	−0.4		
			pP	02 12 57.0	3.9		
			S	02 18 10.2	2.3		
CD2	33.4	267	eP	02 12 48.1	−0.4		
GTA	33.4	284	+iP	02 12 49.4	0.6		
			PMZ		$m_b = 5.6$	1.0	0.10
QZN	35.6	244	eP	02 13 08.9	1.5		
KMI	37.1	259	+P	02 13 20.5	0.5		
WMQ	41.1	294	+P	02 13 55.0	1.4		
			eS	02 20 12.0	4.7		
KSH	50.9	293	eP	02 15 12.2	1.3		
			PP	02 17 08.0	0.8		
			eS	02 22 27.0	0.4		
			LN		$M_S = 6.4$	12.0	14.0

OCT 27d 02h 23m 58.8 ± 0.07s, SD1.49 / 46
39.98 N ± 1.87km, 143.56 E ± 1.82km, h3 ± 0.85km

Off east coast of Honshu (229)
m_b4.6 / 6,

MDJ	11.3	299	eP	02 26 46.5	1.6		
CN2	14.0	292	eP	02 27 19.0	−1.9		
DL2	17.0	273	eP	02 28 00.0	0.8		
BJI	20.9	279	eP	02 28 44.0	−1.7		
NJ2	21.4	256	+P	02 28 49.4	−1.3		
TIY	24.3	275	eP	02 29 21.5	2.7		
WHN	25.5	257	+P	02 29 30.2	−0.6		
			PMZ	m_b = 5.0		1.0	0.040
XAN	28.2	269	P	02 29 54.0	−1.0		
GTA	33.4	283	P	02 30 42.0	0.5		
GYA	33.4	258	P	02 30 41.0	−0.6		
WMQ	41.1	294	P	02 31 47.5	1.4		

OCT 27d 03h 03m 19.7 ± 0.08s, SD1.61 / 67
39.78 N ± 2.20km, 143.54 E ± 2.07km, h1 ± 0.91km
Off east coast of Honshu (229)
m_b4.7 / 13,

MDJ	11.4	300	eP	03 06 09.5	2.3		
CN2	14.1	292	eP	03 06 46.0	3.1		
SNY	15.3	284	eP	03 07 00.4	2.1		
DL2	17.0	274	eP	03 07 23.0	2.7		
			PMZ	m_b = 5.2		1.0	0.10
SSE	20.1	251	P	03 07 58.5	0.2		
			PMZ	m_b = 4.3		1.0	0.014
			sP	03 08 05.0	−0.1		
BJI	21.0	280	eP	03 08 04.5	−2.5		
			PMZ	m_b = 4.7		1.8	0.062
TIA	21.1	269	−P	03 08 06.5	−1.9		
NJ2	21.4	257	−P	03 08 09.5	−1.8		
TIY	24.3	275	eP	03 08 43.0	3.0		
HHC	24.3	283	eP	03 08 40.4	−0.2		
WHN	25.5	258	+P	03 08 52.0	0.6		
			PMZ	m_b = 5.3		1.0	0.080
			sP	03 08 59.5	1.3		
BTO	25.5	283	eP	03 08 54.0	2.0		
XAN	28.2	269	P	03 09 15.5	−0.5		
LZH	31.4	276	−P	03 09 45.0	0.4		
			PMZ	m_b = 5.2		1.5	0.062
			pP	03 09 49.5	1.0		
GYA	33.4	258	P	03 10 01.8	−0.5		
CD2	33.4	267	eP	03 10 01.8	−0.7		
GTA	33.4	284	+iP	03 10 03.8	0.9		
WMQ	41.2	294	+P	03 11 09.0	1.2		
KSH	50.9	293	eP	03 12 25.0	−0.1		

OCT 27d 04h 39m 31.7 ± 0.15s, SD1.48 / 41
20.57 S ± 3.31km, 174.31 W ± 2.53km, h33 ± 0.23km
Tonga (173)
M_S5.2 / 1, m_b5.6 / 3,

SSE	80.4	308	P	04 51 42.0	−0.3		
			PMZ	m_b = 5.9		0.7	0.093
			pP	04 51 51.5	−0.4		
MDJ	82.6	323	eP	04 51 56.0	2.3		
DL2	84.2	315	eP	04 52 00.0	−1.8		
			PMZ	m_b = 5.6		1.0	0.070
WHN	85.3	305	eP	04 52 07.8	0.5		
			pP	04 52 17.8	0.8		
TIA	85.9	311	eP	04 52 10.1	−0.2		
BJI	88.4	314	eP	04 52 22.0	−0.4		
GYA	89.7	298	P	04 52 29.4	0.6		
TIY	89.9	311	eP	04 52 31.7	2.0		
			LE	M_S = 5.2		11.0	0.33
XAN	90.9	306	P	04 52 35.0	0.5		

OCT 27d 07h 42m 21.1 ± 0.32s, SD2.34 / 19
59.66 S ± 4.20km, 25.92 W ± 3.94km, h34 ± 1.93km

South Sandwich Islands region (153)
M_S6.0 / 1,

TIY	145.7	111	ePKP	08 01 57.8	0.7		
			LN	M_S = 6.0		15.0	1.03
			LE			14.0	0.78
			LZ	M_S = 5.8		16.0	1.19
BTO	146.7	105	ePKP	08 02 01.0	2.0		
HHC	147.7	106	ePKP	08 02 01.0	0.5		
BJI	149.3	113	ePKP	08 02 08.5	5.6		
DL2	150.8	121	ePKP	08 02 05.0	−0.3		

OCT 27d 08h 08m 59.6 ± 0.09s, SD1.58 / 67
39.99 N ± 2.21km, 143.41 E ± 1.77km, h2 ± 0.67km
Near east coast of Honshu (228)
M_S4.8 / 24, m_b4.8 / 13,

MDJ	11.2	299	eP	08 11 47.8	3.5		
			LZ	M_S = 4.7		15.0	4.36
CN2	13.9	292	eP	08 12 21.0	0.7		
SNY	15.1	283	eP	08 12 37.7	1.7		
			S	08 15 18.0	−6.4		
			LN	M_S = 4.6		12.0	1.19
			LE			14.0	1.09
			LZ	M_S = 4.5		16.0	2.22
DL2	16.9	273	eP	08 13 01.2	2.7		
			PMZ	m_b = 5.0		1.0	0.070
			LZ	M_S = 4.2		16.0	1.03
SSE	20.1	251	P	08 13 38.0	0.4		
			sP	08 13 48.5	3.8		
			sS	08 17 30.0	5.3		
			SS	08 17 49.0	2.6		
			LN	M_S = 4.7		12.0	1.01
			LE			12.0	0.79
			LZ	M_S = 4.2		16.0	0.71
BJI	20.8	279	eP	08 13 43.0	−2.3		
			PMZ	m_b = 4.8		2.0	0.083
			eS	08 17 30.0	−3.7		
			LN	M_S = 4.5		13.0	0.88
			LZ	M_S = 4.3		18.0	1.17
TIA	21.0	268	eP	08 13 44.9	−2.1		
			LN	M_S = 4.9		14.0	0.90
			LE			14.0	2.10
NJ2	21.3	256	−P	08 13 49.0	−1.4		
			S	08 17 46.0	3.3		
			LN	M_S = 4.7		10.0	0.78
			LE			11.0	0.63
			LZ	M_S = 4.4		18.0	1.25
TIY	24.2	275	eP	08 14 21.0	2.5		
HHC	24.2	282	eP	08 14 17.8	−1.0		
BTO	25.4	282	eP	08 14 30.0	−0.3		
			eS	08 18 52.0	−3.4		
			LN	M_S = 4.9		14.0	1.00
			LE			16.0	1.70
WHN	25.4	257	+P	08 14 31.2	0.7		
			PMZ	m_b = 5.5		1.4	0.15
			pP	08 14 39.5	4.8		
			sS	08 19 04.0	1.2		
			LN	M_S = 4.5		8.0	0.38
			LZ	M_S = 4.5		16.0	1.19
XAN	28.1	269	P	08 14 55.0	0.3		
			S	08 19 37.0	−0.9		
			LE	M_S = 4.8		14.0	1.03
LZH	31.2	276	−P	08 15 23.5	0.3		
			PMZ	m_b = 5.1		1.5	0.046
			LN	M_S = 5.0		14.0	0.81
			LE			14.0	1.23
			LZ	M_S = 4.8		16.0	1.52
GTA	33.3	283	+iP	08 15 41.2	0.0		
			PMZ	m_b = 5.1		1.0	0.030

			S	08 20 56.0	−4.7			
			LE	M_S=5.0		14.0	1.20	
			LZ	M_S=4.8		16.0	1.46	
CD2	33.3	267	eP	08 15 40.2	−1.1			
			eS	08 21 01.0	−1.0			
			LN	M_S=5.1		12.0	1.37	
			LZ	M_S=4.8		14.0	1.44	
GYA	33.3	257	P	08 15 41.0	−0.5			
			pP	08 15 49.6	4.0			
			S	08 21 00.0	−1.1			
			LN	M_S=5.1		15.0	1.30	
			LE			15.0	1.00	
QZN	35.6	244	eP	08 16 00.0	−0.9			
			eS	08 21 35.0	−2.3			
			LN	M_S=5.0		15.0	0.80	
			LE			15.0	0.81	
KMI	37.0	259	−P	08 16 14.0	1.0			
WMQ	41.0	294	P	08 16 47.0	1.1			
			sS	08 23 05.0	−1.0			
			LZ	M_S=4.7		13.0	0.67	
KSH	50.7	293	eP	08 18 08.0	4.7			
			eS	08 25 24.0	5.4			
			LN	M_S=5.2		12.0	0.80	

OCT 27d 21h 04m 51.4±0.14s, SD1.75/110
10.94 S±2.87km, 162.43 E±3.09km, h26±0.81km
Solomon Islands (193)
M_S6.9/52, m_B6.8/33, m_b5.7/15,

QZH	55.7	310	eP	21 14 28.0	−0.2			
			PMZ	m_B=6.7		6.0	6.27	
			pP	21 14 36.0	−0.5			
			S	21 22 10.0	−0.3			
			LN	M_S=6.8		20.0	51.0	
			LZ	M_S=6.5		29.0	54.0	
SSE	57.5	318	eP	21 14 40.0	−1.6			
			PMZ	m_B=6.5		6.0	3.43	
			sP	21 14 54.5	1.1			
			PcP	21 15 36.0	2.0			
			ScP	21 19 32.0	1.5			
			PcS	21 19 34.0	0.3			
			S	21 22 34.0	−1.1			
			sS	21 22 50.0	0.0			
			ScS	21 24 25.0	0.2			
			SS	21 26 28.0	1.5			
			LN	M_S=6.9		18.0	28.8	
			LE			19.0	43.3	
			LZ	M_S=6.6		22.0	58.8	
GZH	58.7	306	+iP	21 14 54.5	4.5			
			PMZ	m_b=5.7		1.5	0.15	
			PMZ	m_B=6.7		7.0	7.10	
			S	21 22 52.0	1.1			
			LN	M_S=6.9		18.0	30.9	
			LE			19.0	45.4	
			LZ	M_S=6.9		24.0	104	
NJ2	59.7	317	−P	21 14 51.7	−4.9			
			S	21 23 00.0	−3.1			
			LN	M_S=6.8		16.0	30.0	
			LE			17.0	14.0	
QZN	59.8	300	eP	21 14 57.5	0.3			
			S	21 23 07.0	2.8			
			LN	M_S=7.0		22.0	46.1	
			LE			27.0	79.5	
WHN	61.9	313	eP	21 15 10.5	−1.2			
			PMZ	m_B=6.8		6.0	6.94	
			PcP	21 15 54.0	2.7			
			S	21 23 25.0	−6.5			
			LE	M_S=7.0		18.0	59.0	
			LZ	M_S=6.9		20.0	81.6	
DL2	62.5	325	eP	21 15 16.0		0.6		
			PMZ	m_B=6.5		6.0	3.85	
			sP	21 15 28.0		0.7		
			PcP	21 15 56.0		2.4		
			eS	21 23 38.5		−1.2		
			LN	M_S=7.2		18.0	54.0	
			LE			18.0	76.0	
			LZ	M_S=6.6		25.0	52.6	
MDJ	62.8	334	+iP	21 15 18.5		1.0		
			pP	21 15 24.5		−1.3		
			sP	21 15 28.5		−0.8		
			S	21 23 40.0		−2.3		
			LZ	M_S=6.8		25.0	79.2	
TIA	63.4	320	−P	21 15 20.0		−1.6		
			PMZ	m_B=6.6		7.0	6.04	
			S	21 23 51.0		0.9		
			SMN			17.0	14.2	
			SME			17.0	8.83	
			LN	M_S=6.9		18.0	36.3	
			LE			17.0	29.1	
SNY	63.5	328	eP	21 15 21.9		−0.2		
			PMZ	m_b=5.5		1.0	0.058	
			PMZ	m_B=6.9		6.0	9.33	
			PP	21 17 45.0		2.5		
			S	21 23 46.0		−5.2		
			LN	M_S=6.9		16.0	34.3	
			LE			18.0	29.8	
			LZ	M_S=6.6		20.0	39.6	
CN2	64.0	331	+P	21 15 24.8		−0.8		
			PMZ	m_B=6.9		6.0	9.40	
			epP	21 15 35.0		1.0		
			iS	21 24 00.0		0.9		
			SME	m_B=7.0		10.0	16.3	
			LN	M_S=7.0		18.0	53.4	
			LZ	M_S=6.7		18.0	51.5	
GYA	65.7	306	P	21 15 41.0		4.5		
			PMZ	m_B=6.4		7.0	3.80	
			sP	21 15 50.4		2.1		
			S	21 24 20.0		1.7		
			LN	M_S=7.0		20.0	14.0	
			LE			20.0	58.5	
			LZ	M_S=6.5		22.0	35.7	
BJI	66.4	323	eP	21 15 39.0		−1.9		
			PMZ	m_b=6.0		2.0	0.36	
			PMZ	m_B=6.8		6.0	6.70	
			S	21 24 29.0		2.2		
			SKS	21 25 34.0		3.4		
			LN	M_S=6.9		18.0	36.2	
			LE			17.0	14.0	
TIY	67.3	319	eP	21 15 45.5		−1.3		
			pP	21 15 54.5		−0.5		
			S	21 24 38.0		0.2		
			sS	21 24 54.0		1.0		
			ScS	21 25 43.0		4.9		
			LN	M_S=7.0		16.0	39.3	
			LE			17.0	27.0	
			LZ	M_S=6.9		20.0	76.0	
XAN	67.7	314	P	21 15 47.0		−2.0		
			PMZ	m_B=6.8		6.0	7.04	
			S	21 24 46.0		3.8		
			LN	M_S=7.0		16.0	20.7	
			LE			17.0	43.9	
KMI	68.3	303	+P	21 15 53.0		−0.2		
			PMZ	m_B=6.6		8.0	6.00	
			PcP	21 16 17.0		−0.7		
			PP	21 18 26.0		1.1		
			S	21 24 50.0		0.2		
			LE	M_S=6.9		18.0	43.7	

			LZ		$M_S=6.9$		20.0	72.8
HHC	69.7	321	eP	21 16 01.0		−0.5		
			PP	21 18 40.0		3.5		
			S	21 25 08.0		2.0		
			SMN				16.5	25.3
			SME				13.0	5.85
			SS	21 29 36.5		0.8		
			LN		$M_S=6.9$		17.0	27.2
			LE				16.0	22.9
CD2	70.0	309	eP	21 16 04.5		1.2		
			iS	21 25 06.0		−5.0		
			LN		$M_S=7.0$		17.0	47.4
			LZ		$M_S=6.6$		24.0	47.3
BTO	70.5	320	P	21 16 05.5		−1.0		
			sP	21 16 20.0		1.7		
			PP	21 18 43.5		0.0		
			S	21 25 15.0		−0.6		
			SS	21 29 49.8		1.3		
			LN		$M_S=7.0$		17.0	32.2
			LE				17.0	31.5
LZH	72.3	313	+P	21 16 16.5		−0.9		
			PMZ		$m_b=6.3$		2.0	0.77
			pP	21 16 26.5		1.0		
			sP	21 16 29.5		0.4		
			PcP	21 16 38.5		3.9		
			PP	21 19 00.5		1.7		
			S	21 25 39.0		2.5		
			ScS	21 26 18.0		0.6		
			SS	21 30 13.0		−3.4		
			LN		$M_S=7.0$		18.0	30.2
			LE				18.0	30.8
GTA	76.7	315	P	21 16 41.5		−1.2		
			S	21 26 26.0		0.9		
			LE		$M_S=7.0$		17.0	35.7
			LZ		$M_S=6.9$		18.0	51.8
LSA	79.5	303	P	21 17 00.6		1.6		
			pP	21 17 07.0		0.3		
			LN		$M_S=6.6$		18.0	8.46
			LE				20.0	12.9
WMQ	86.7	316	P	21 17 35.0		−0.2		
			PMZ		$m_B=6.9$		6.0	6.32
			SKS	21 27 52.0		−4.3		
			LE		$M_S=6.8$		16.0	21.3
			LZ		$M_S=6.8$		20.0	37.1
KSH	94.2	309	eP	21 18 13.5		3.2		
			pP	21 18 21.5		3.0		
			PP	21 21 59.0		0.3		

OCT 28d 01h 35m 54.3 ± 0.05s, SD1.15 / 16
51.63 N ± 0.75km, 16.08 E ± 0.69km, h9 ± 0.32km
Poland (548)

WMQ	47.0	70	P	01 44 30.1	1.5	
TIY	65.1	60	eP	01 46 39.2	1.0	
XAN	65.8	65	P	01 46 42.6	−0.2	
CN2	67.1	48	P	01 46 51.8	0.9	
GYA	70.1	72	P	01 47 10.0	0.3	
WHN	71.5	64	eP	01 47 15.0	−2.9	

OCT 28d 04h 42m 24.8 ± 0.08s, SD1.44 / 46
36.42 N ± 1.87km, 142.69 E ± 1.56km, h45 ± 1.19km
Off east coast of Honshu (229)
M_S4.7 / 11, m_b4.4 / 5,

MDJ	12.9	313	eP	04 45 28.0	0.0		
			pP	04 45 37.0	0.7		
			S	04 47 46.0	−3.9		
			LN		$M_S=4.3$	12.0	1.10
CN2	15.1	304	eP	04 45 57.0	0.0		
			eS	04 48 42.0	−0.9		
			LN		$M_S=4.4$	13.0	0.90
			LE			13.0	0.80
			LZ		$M_S=4.1$	15.0	0.90
SNY	15.8	296	eP	04 46 06.8	1.1		
			sP	04 46 21.8	1.7		
			LN		$M_S=4.6$	13.0	1.18
			LE			10.0	0.73
			LZ		$M_S=4.4$	16.0	1.70
DL2	16.9	285	eP	04 46 22.0	2.6		
			LN		$M_S=4.5$	11.0	0.92
			LZ		$M_S=4.3$	15.0	1.17
NJ2	20.2	264	+P	04 46 59.0	0.6		
TIA	20.6	277	eP	04 47 01.7	−1.2		
TIY	24.1	282	eP	04 47 36.8	−1.2		
			sS	04 52 03.0	−5.1		
			LZ		$M_S=5.0$	14.0	3.33
WHN	24.3	264	P	04 47 40.0	0.4		
			pP	04 47 48.5	−2.0		
			sS	04 52 12.0	0.9		
			LZ		$M_S=4.6$	12.0	1.21
HHC	24.6	290	eP	04 47 44.7	1.7		
BTO	25.8	289	eP	04 47 55.0	0.8		
			pP	04 48 08.5	3.5		
			cS	04 52 21.0	2.8		
			LN		$M_S=4.7$	14.0	0.70
			LE			12.0	0.50
LZH	31.2	281	−P	04 48 42.0	−0.6		
			PMZ		$m_b=4.9$	1.8	0.042
			pP	04 48 52.5	−1.0		
			sP	04 48 57.5	−1.0		
			LE		$M_S=4.8$	16.0	1.00
			LZ		$M_S=4.6$	16.0	1.10
GYA	32.1	262	P	04 48 52.8	1.9		
GTA	33.7	288	eP	04 49 04.4	−0.3		
WMQ	42.0	298	eP	04 50 15.5	1.3		

OCT 28d 13h 26m 12.0 ± 0.15s, SD2.12 / 12
36.17 N ± 1.29km, 81.09 E ± 0.76km, h32 ± 0.22km
Kashmir–Tibet border region (304)
M_L4.8 / 5,

KSH	5.3	311	ePn	13 27 30.4	1.1		
			Sn	13 28 34.5	3.9		
			SMN		$M_L=5.0$	0.7	1.60
			SME			0.5	1.30
WMQ	9.2	32	P	13 28 26.1	0.9		
			S	13 30 11.6	3.5		
			SMN			1.1	0.090
			SME			0.8	0.070

OCT 28d 20h 21m 17.5 ± 0.07s, SD2.42 / 11
39.86 N ± 0.58km, 113.60 E ± 0.51km, h2 ± 0.22km
North–Eastern China (658)
M_L3.2 / 11,

BJI	2.0	84	Pg	20 21 52.0	−0.5		
			Sg	20 22 16.0	−3.6		
			SMN		$M_L=3.1$	0.5	0.18
			SME			0.5	0.11
TIY	2.3	203	Pn	20 22 00.4	3.2		
			iPg	20 22 03.0	4.4		
			Sg	20 22 33.8	3.3		
			SMN		$M_L=3.3$	0.5	0.10
			SME			0.5	0.30
BTO	2.8	286	ePg	20 22 07.6	−0.2		
			Sg	20 22 46.4	−0.1		
			SMN		$M_L=2.9$	0.3	0.050
			SME			0.3	0.060

OCT 28d 21h 06m 29.1 ± 0.36s, SD2.59 / 25

1.47 S ± 1.67km, 126.88 E ± 2.11km, h30 ± 3.65km
Molucca Sea (269)

QZN	26.4	321	eP	21 12 08.6	3.7			
WHN	34.0	340	eP	21 13 11.0	−1.7			
NJ2	34.2	348	eP	21 13 15.0	0.6			
XAN	39.2	336	P	21 13 52.6	−3.7			
TIY	41.2	343	eP	21 14 11.5	−1.9			
BJI	42.5	348	eP	21 14 21.5	−2.0			
LZH	43.1	332	P	21 14 32.5	3.6			
			pP	21 14 41.0	3.4			
			sP	21 14 46.5	5.2			
SNY	43.2	356	eP	21 14 32.1	2.5			
WMQ	57.1	327	P	21 16 13.1	−2.6			

OCT 29d 02h 22m 44.6 ± 0.08s, SD1.91 / 32
39.87 N ± 0.86km, 113.88 E ± 0.84km, h9 ± 0.18km
North-Eastern China (658)
M_L4.2 / 16,

BJI	1.8	84	Pn	02 23 16.0	0.2			
			Pg	02 23 17.0	1.1			
			Sn	02 23 41.0	0.6			
			Sg	02 23 42.0	1.8			
HHC	2.0	300	Pg	02 23 21.0	0.5			
			Sg	02 23 45.0	−3.0			
TIY	2.4	208	+Pn	02 23 26.0	1.0			
			iPg	02 23 28.5	1.0			
			Sg	02 24 00.7	0.0			
			SMN	M_L = 4.0		0.7	0.60	
			SME			0.7	1.00	
BTO	3.0	285	Pg	02 23 38.0	−0.5			
			Sg	02 24 16.5	−3.5			
			SMN	M_L = 3.7		0.3	0.30	
			SME			0.3	0.22	
TIA	4.5	144	ePn	02 23 54.3	1.5			
			Pg	02 24 07.0	3.7			
			Sn	02 24 43.8	−3.1			
			Sg	02 25 02.0	−2.3			
			SMN	M_L = 4.0		1.2	0.20	
			SME			1.2	0.34	
DL2	6.1	97	ePn	02 24 16.0	1.0			
			ePg	02 24 38.5	6.6			
			eSg	02 25 56.0	1.0			
			SMN	M_L = 4.2		1.0	0.18	
			SME			1.0	0.17	
XAN	7.0	216	Pn	02 24 28.6	0.3			
			Sg	02 26 22.4	−2.8			
			SMN	M_L = 4.5		1.5	0.27	
			SME			1.5	0.13	
CN2	9.5	62	eP	02 25 02.0	−2.7			
			eS	02 26 49.0	−3.6			
WMQ	19.9	290	eP	02 27 18.4	−0.9			

OCT 29d 03h 09m 09.4 ± 0.07s, SD1.41 / 110
39.64 N ± 1.88km, 143.33 E ± 1.55km, h6 ± 0.55km
Near east coast of Honshu (228)
M_S6.2 / 56, m_B6.2 / 34, m_b5.7 / 22,

MDJ	11.3	300	+P	03 11 57.5	2.1			
			S	03 14 06.0	2.7			
			sS	03 14 14.0	3.6			
			LE	M_S = 6.2		14.0	131	
CN2	14.0	293	+P	03 12 31.0	0.3			
			PMZ	m_B = 6.3		8.0	5.70	
			eS	03 15 10.0	2.5			
			LE			1.6	46.1	
SNY	15.1	285	+iP	03 12 47.0	1.2			
			PMZ			15.0	12.0	
			pP	03 12 53.0	3.3			
			S	03 15 35.0	0.8			
			LN	M_S = 6.0		13.0	21.1	
			LE			14.0	37.4	
			LZ	M_S = 5.9		19.0	74.3	
DL2	16.8	274	+iP	03 13 08.0	0.5			
			PMZ	m_B = 5.8		12.0	5.76	
			sP	03 13 20.0	5.0			
			eS	03 16 12.0	−2.1			
			LN	M_S = 6.1		14.0	41.1	
			LE			17.0	48.7	
			LZ	M_S = 5.7		16.0	32.5	
SSE	19.9	252	+P	03 13 42.0	−3.2			
			PMZ	m_B = 5.7		12.0	4.08	
			pP	03 13 46.5	−3.2			
			PP	03 13 59.0	−4.6			
			S	03 17 19.0	−4.8			
			sS	03 17 30.0	−1.0			
			LN	M_S = 6.1		12.0	27.0	
			LE			12.0	19.4	
			LZ	M_S = 5.2		20.0	10.2	
BJI	20.8	280	+P	03 13 52.5	−2.1			
			PMZ	m_b = 5.4		1.2	0.22	
			PMZ	m_B = 5.9		4.0	2.02	
			S	03 17 40.0	−2.0			
			esS	03 17 52.0	2.0			
			LN	M_S = 6.1		13.0	14.7	
			LE			14.0	34.3	
TIA	20.9	269	+P	03 13 53.7	−2.0			
			PMZ	m_B = 5.9		5.0	2.64	
			pP	03 13 58.7	−1.5			
			LN	M_S = 6.4		12.0	26.8	
			LE			12.5	59.1	
NJ2	21.2	257	+P	03 13 57.0	−1.4			
			LN	M_S = 6.0		12.0	17.4	
			LE			13.0	21.9	
			LZ	M_S = 5.8		18.0	29.8	
TIY	24.1	275	+P	03 14 27.0	−0.6			
			PMZ	m_b = 5.4		1.0	0.15	
			pP	03 14 31.5	−0.6			
			S	03 18 40.0	−2.3			
			sS	03 18 51.0	0.3			
			LN	M_S = 6.3		15.0	37.8	
			LE			16.0	26.8	
			LZ	M_S = 6.0		18.0	40.0	
HHC	24.2	283	P	03 14 28.0	−0.3			
			PP	03 15 05.0	2.7			
			S	03 18 43.5	0.0			
			SMN	m_B = 5.9		6.0	2.32	
			SME			8.0	2.03	
			LN	M_S = 6.3		14.0	22.6	
			LE			15.0	37.5	
			LZ	M_S = 6.2		20.0	73.1	
WHN	25.3	258	P	03 14 37.5	−1.1			
			PMZ	m_b = 6.4		1.0	0.91	
			PMZ	m_B = 6.6		4.0	6.23	
			sP	03 14 46.0	−0.2			
			S	03 19 05.0	3.1			
			LN	M_S = 5.9		15.0	3.17	
			LE			15.0	18.6	
BTO	25.4	283	+iP	03 14 39.5	−0.3			
			PMZ	m_B = 6.2		7.0	4.40	
			pP	03 14 46.0	1.7			
			PP	03 15 19.0	1.1			
			S	03 19 02.0	−1.7			
			sS	03 19 14.0	1.8			
			SS	03 20 04.0	−1.1			
			LN	M_S = 6.4		13.0	22.8	
			LE			13.0	44.5	
QZH	25.4	242	+iP	03 14 40.0	0.2			

			PMZ		$m_B = 6.2$		4.0	2.60
			pP	03 14 47.0		2.5		
			S	03 19 03.0		−1.0		
			LN		$M_S = 5.9$		13.0	15.7
			LZ		$M_S = 5.7$		17.0	18.3
XAN	28.0	269	+iP	03 15 03.3		−0.2		
			PMZ		$m_b = 5.7$		1.0	0.14
			PMZ		$m_B = 6.6$		6.0	7.00
			S	03 19 48.0		2.2		
			LN		$M_S = 6.3$		14.0	21.0
			LE				14.0	28.5
GZH	30.3	246	+iP	03 15 24.0		0.1		
			iS	03 20 23.0		−0.2		
			LN		$M_S = 6.2$		12.0	17.7
			LE				11.0	13.4
			LZ		$M_S = 6.1$		14.0	28.0
LZH	31.2	276	+P	03 15 32.2		−0.1		
			PMZ		$m_b = 6.0$		1.5	0.36
			PMZ		$m_B = 6.3$		5.0	2.80
			pP	03 15 37.5		0.6		
			sP	03 15 41.5		1.9		
			PP	03 16 29.0		−5.2		
			S	03 20 39.0		2.0		
			LN		$M_S = 6.5$		12.0	13.8
			LE				13.0	38.0
			LZ		$M_S = 6.3$		15.0	50.8
GYA	33.2	258	+P	03 15 50.0		0.3		
			PMZ		$m_b = 5.9$		1.2	0.22
			PP	03 17 00.0		0.0		
			S	03 21 05.0		−3.0		
			sS	03 21 22.0		5.2		
			LN		$M_S = 6.1$		14.0	14.3
			LE				14.0	8.80
			LZ		$M_S = 5.7$		16.0	12.6
CD2	33.2	267	+iP	03 15 49.6		−0.4		
			PMZ		$m_B = 5.9$		12.0	2.40
			pP	03 16 00.0		5.2		
			LN		$M_S = 6.6$		13.0	53.9
			LZ		$M_S = 6.2$		16.0	33.7
GTA	33.3	284	+iP	03 15 51.6		0.8		
			PMZ		$m_B = 6.2$		8.0	2.99
			sP	03 16 02.0		3.8		
			sS	03 21 22.0		3.2		
			LE		$M_S = 6.5$		16.0	53.2
			LZ		$M_S = 6.3$		18.0	57.7
QZN	35.4	244	+P	03 16 10.0		1.5		
			PP	03 17 29.5		2.0		
			S	03 21 43.0		0.9		
			SS	03 24 00.0		0.6		
			LN		$M_S = 6.1$		14.0	13.2
			LE				13.0	8.20
KMI	36.9	259	+iP	03 16 22.0		0.6		
			PMZ		$m_B = 6.3$		5.0	2.50
			pP	03 16 28.0		2.1		
			sP	03 16 32.0		3.4		
			PP	03 17 50.0		3.8		
			S	03 22 05.0		−0.1		
			LN		$M_S = 6.3$		13.0	17.5
			LE				13.0	9.70
WMQ	41.1	295	+iP	03 16 58.0		2.0		
			PMZ		$m_B = 6.6$		6.0	6.13
			S	03 23 06.0		−2.2		
			ScS	03 27 00.0		1.5		
			LN		$M_S = 6.3$		13.0	15.9
			LZ		$M_S = 5.9$		16.0	14.5
LSA	43.5	273	P	03 17 18.7		2.2		
			pP	03 17 25.7		4.8		
			PP	03 19 03.0		4.3		
			S	03 23 47.0		2.8		
			ScS	03 27 15.0		1.6		
			LN		$M_S = 6.1$		14.0	7.40
			LE				15.0	6.69
KSH	50.8	293	+iP	03 18 14.0		0.7		
			pP	03 18 21.5		3.6		
			PP	03 20 13.0		3.5		
			eS	03 25 29.0		0.3		
			LN		$M_S = 6.9$		16.0	56.1

OCT 29d 05h 25m 36.9 ± 0.07s, SD1.36 / 112
39.67 N ± 1.59km, 143.27 E ± 1.32km, h7 ± 0.35km
Near east coast of Honshu (228)
M_S6.9 / 54, m_B6.5 / 35, m_b6.0 / 18,

MDJ	11.3	300	+P	05 28 24.0		2.0		
			S	05 30 30.0		0.8		
			sS	05 30 40.0		3.5		
			LN		$M_S = 6.6$		14.0	343
CN2	13.9	293	+P	05 28 58.0		0.6		
			PMZ		$m_B = 7.1$		10.0	37.0
			S	05 31 38.0		5.0		
			SMN				13.0	27.8
			SME				13.0	15.4
			LE		$M_S = 6.7$		15.0	278
SNY	15.1	285	+iP	05 29 13.0		0.5		
			PMZ		$m_B = 6.4$		10.0	17.7
			pP	05 29 20.1		3.6		
			S	05 32 02.0		1.8		
			sS	05 32 10.0		2.7		
			LN		$M_S = 6.9$		15.0	345
			LE				17.0	238
DL2	16.8	274	+iP	05 29 34.3		0.1		
			PMZ		$m_B = 6.5$		12.0	28.8
			pP	05 29 40.0		1.7		
			eS	05 32 38.0		−2.2		
			LN		$M_S = 6.9$		14.0	263
			LE				16.0	188
			LZ		$M_S = 6.0$		24.0	85.8
SSE	19.9	251	+P	05 30 09.0		−3.2		
			PMZ		$m_B = 6.3$		8.0	11.1
			pP	05 30 16.0		−0.7		
			sP	05 30 18.3		−1.6		
			PP	05 30 28.0		−2.4		
			S	05 33 48.0		−2.3		
			sS	05 33 56.0		−1.6		
			LN		$M_S = 7.0$		13.0	232
			LE				12.0	115
BJI	20.8	280	eP	05 30 19.0		−2.5		
			PMZ		$m_B = 6.2$		11.0	12.4
			esS	05 34 20.0		3.7		
			LE		$M_S = 7.0$		15.0	306
TIA	20.9	269	+P	05 30 20.1		−2.5		
			PMZ		$m_B = 6.2$		11.5	11.4
			pP	05 30 25.5		−1.7		
			LN		$M_S = 7.4$		13.5	479
			LE				13.5	462
NJ2	21.2	257	+iP	05 30 23.0		−2.3		
			PMZ		$m_B = 6.2$		10.5	9.91
			iS	05 34 11.0		−5.3		
			LN		$M_S = 6.8$		13.0	105
			LE				14.0	117
TIY	24.1	275	−P	05 30 53.8		−0.7		
			PMZ		$m_B = 6.4$		8.0	11.4
			S	05 35 10.5		1.9		
			sS	05 35 20.0		2.7		
			LE		$M_S = 6.7$		16.0	135
			LZ		$M_S = 6.3$		20.0	102
HHC	24.2	283	P	05 30 55.0		−0.2		

			PMZ		$m_B = 6.5$		10.0	19.0
			S	05 35	10.0	0.2		
			SMN		$m_B = 6.5$		8.0	8.15
			SME				12.0	17.3
			LN		$M_S = 6.6$		15.0	83.6
			LE				15.0	61.9
			LZ		$M_S = 6.4$		26.0	157
WHN	25.3	258	+P	05 31	05.5	−0.1		
			PMZ		$m_b = 6.5$		0.8	0.97
			PMZ		$m_B = 6.8$		10.0	26.2
			sP	05 31	15.5	2.2		
			S	05 35	26.0	−2.5		
			LE		$M_S = 6.7$		17.0	115
			LZ		$M_S = 6.5$		20.0	138
BTO	25.4	283	+iP	05 31	06.0	−0.7		
			PMZ		$m_B = 6.8$		10.0	23.6
			sP	05 31	16.5	2.3		
			PP	05 31	44.0	−0.5		
			iS	05 35	28.0	−3.1		
			LN		$M_S = 6.7$		13.0	61.6
			LE				13.0	76.6
QZH	25.4	242	eP	05 31	06.0	−0.9		
			PMZ		$m_B = 6.9$		7.0	18.6
			pP	05 31	13.0	1.3		
			iS	05 35	30.0	−1.5		
			LE		$M_S = 6.7$		13.0	90.6
			LZ		$M_S = 6.5$		16.0	102
XAN	27.9	269	+iP	05 31	30.0	−0.4		
			PMZ		$m_b = 6.1$		1.2	0.42
			PMZ		$m_B = 6.5$		10.0	9.10
			sP	05 31	43.0	5.0		
			S	05 36	12.0	−0.3		
			sS	05 36	21.0	−0.3		
			LN		$M_S = 6.9$		16.0	144
			LE				14.0	85.4
GZH	30.2	246	+iP	05 31	50.0	−1.0		
			PMZ		$m_b = 5.8$		1.2	0.22
			PMZ		$m_B = 6.7$		12.0	15.2
			iS	05 36	50.0	0.1		
			LN		$M_S = 6.8$		15.0	88.8
			LE				13.0	45.4
			LZ		$M_S = 6.6$		20.0	148
LZH	31.2	276	+P	05 31	59.0	−0.3		
			PMZ		$m_B = 6.5$		8.0	7.13
			pP	05 32	05.2	1.2		
			PP	05 33	01.5	0.6		
			PcP	05 34	56.7	3.1		
			S	05 37	04.0	0.6		
			sS	05 37	16.0	3.4		
			ScS	05 42	32.0	0.6		
			LN		$M_S = 7.4$		13.0	135
			LE				13.0	289
GYA	33.2	258	+P	05 32	16.0	−0.7		
			PMZ		$m_B = 6.9$		4.0	7.40
			sP	05 32	28.0	3.8		
			PP	05 33	28.0	1.1		
			S	05 37	37.0	2.3		
			LN		$M_S = 6.9$		15.0	94.8
			LE				15.0	56.2
			LZ		$M_S = 6.3$		19.0	60.0
CD2	33.2	267	eP	05 32	16.6	−0.4		
			iPP	05 33	31.0	3.6		
			LE		$M_S = 7.0$		14.0	143
			LZ		$M_S = 6.0$		30.0	43.4
GTA	33.3	284	+iP	05 32	18.8	1.1		
			PMZ		$m_B = 6.8$		9.5	13.8
			PP	05 33	25.0	−3.3		
			S	05 37	31.0	−5.5		
			sS	05 37	48.0	2.5		
			LE		$M_S = 7.1$		15.0	180
			LZ		$M_S = 6.7$		18.0	135
QZN	35.4	244	+P	05 32	37.0	1.4		
			PP	05 33	56.0	1.5		
			S	05 38	04.5	−4.4		
			sS	05 38	19.0	1.0		
			LN		$M_S = 6.9$		14.0	73.9
			LE				13.0	39.5
KMI	36.8	259	+P	05 32	48.0	−0.4		
			pP	05 32	56.0	3.0		
			PP	05 34	17.0	3.9		
			PcP	05 35	05.0	−4.8		
			iS	05 38	33.0	−0.1		
			LN		$M_S = 7.0$		15.0	125
			LZ		$M_S = 6.7$		20.0	113
WMQ	41.0	295	+iP	05 33	23.7	0.8		
			PMZ				16.0	21.7
			S	05 39	36.0	1.4		
			sS	05 39	42.0	−1.8		
			LN		$M_S = 7.0$		15.0	80.9
			LE				15.0	70.6
			LZ		$M_S = 6.6$		15.0	65.2
LSA	43.5	273	P	05 33	45.9	2.4		
			S	05 40	08.0	−2.7		
			SME		$m_B = 6.4$		10.0	5.57
			ScS	05 43	43.0	2.6		
			LN		$M_S = 6.8$		15.0	46.8
			LE				15.0	43.5
			LZ		$M_S = 6.5$		17.0	50.0
KSH	50.7	293	+iP	05 34	40.0	−0.3		
			sP	05 34	51.0	3.3		
			PP	05 36	38.0	1.7		
			S	05 41	53.0	−0.8		
			sS	05 42	06.0	2.7		
			LN		$M_S = 7.2$		18.0	142

OCT 29d 05h 37m 49.9 ± 0.07s, SD1.44 / 46
39.36 N ± 1.99km, 143.39 E ± 1.58km, h14 ± 0.76km
Near east coast of Honshu (228)
m_b5.0 / 11,

MDJ	11.5	302	eP	05 40	38.0	0.5		
CN2	14.1	294	eP	05 41	14.0	1.6		
SNY	15.3	286	+P	05 41	28.0	1.1		
DL2	16.9	275	eP	05 41	49.0	1.1		
			PMZ		$m_b = 5.0$		1.0	0.080
SSE	19.9	252	eP	05 42	23.0	−1.1		
			PMZ		$m_b = 4.8$		1.0	0.047
BJI	20.9	281	eP	05 42	33.0	−2.0		
			PMZ		$m_b = 4.9$		1.5	0.080
TIA	21.0	270	eP	05 42	33.6	−1.9		
NJ2	21.2	257	−P	05 42	37.0	−0.6		
TIY	24.2	276	−P	05 43	09.0	1.3		
WHN	25.3	259	+P	05 43	16.5	−1.4		
BTO	25.5	284	eP	05 43	20.2	0.0		
GYA	33.2	258	+P	05 44	29.6	0.7		
			PMZ		$m_b = 5.1$		1.0	0.030
			S	05 49	50.0	3.7		
WMQ	41.2	295	+iP	05 45	38.0	1.3		

OCT 29d 06h 16m 04.7 ± 0.12s, SD1.64 / 26
39.83 N ± 1.87km, 143.05 E ± 2.05km, h17 ± 0.59km
Near east coast of Honshu (228)
m_b4.2 / 2,

BJI	20.6	279	eP	06 20	44.0	−1.8
TIA	20.7	268	eP	06 20	45.6	−1.6
NJ2	21.0	256	eP	06 20	52.0	1.6
WHN	25.1	257	−P	06 21	31.0	0.2

			pP	06 21 35.5	−1.6			
GYA	33.0	257	P	06 22 40.8	−1.1			
GTA	33.1	283	P	06 22 43.0	0.7			
			OCT 29d 10h 51m 24.4 ± 0.10s, SD1.72 / 95					
			39.56 N ± 2.39km, 143.25 E ± 1.93km, h12 ± 0.77km					
			Near east coast of Honshu		(228)			
			M_S5.5 / 45, m_B5.6 / 9, m_b5.3 / 15,					
MDJ	11.3	301	eP	10 54 11.0	1.6			
			S	10 56 14.0	−2.6			
			sS	10 56 28.0	2.6			
			LZ	M_S = 5.2		14.0	14.5	
CN2	14.0	293	−P	10 54 48.0	3.4			
			PMZ	m_b = 5.1		1.2	0.044	
			PMZ	m_B = 6.0		5.0	1.60	
			LN	M_S = 5.3		13.0	8.30	
			LE			13.0	5.10	
			LZ	M_S = 5.0		13.0	6.50	
SNY	15.1	285	+P	10 55 00.0	0.6			
			pP	10 55 07.0	2.8			
			sS	10 58 00.0	4.9			
			LN	M_S = 5.2		12.5	4.81	
			LE			13.5	5.92	
			LZ	M_S = 5.2		14.0	10.6	
DL2	16.8	275	eP	10 55 21.0	0.1			
			PMZ	m_B = 5.2		12.0	1.33	
			pP	10 55 29.0	3.3			
			eS	10 58 26.0	−0.4			
			LN	M_S = 5.2		12.0	5.10	
			LE			12.0	2.67	
			LZ	M_S = 4.8		16.0	3.83	
SSE	19.8	252	P	10 55 59.0	0.7			
			PMZ	m_B = 5.4		7.0	1.38	
			pP	10 56 02.0	−1.6			
			PP	10 56 15.0	−1.4			
			eS	10 59 36.0	−0.2			
			sS	10 59 44.0	0.0			
			SS	11 00 04.0	1.1			
			LN	M_S = 5.4		13.0	4.90	
			LE			13.0	5.41	
BJI	20.8	280	eP	10 56 05.5	−2.7			
			esS	11 00 07.0	3.1			
			LN	M_S = 5.4		13.0	5.16	
			LE			14.0	4.47	
			LZ	M_S = 5.2		16.0	6.70	
TIA	20.9	269	−P	10 56 07.3	−1.8			
			pP	10 56 13.4	−1.1			
			eS	10 59 54.5	−2.3			
			LN	M_S = 5.6		12.0	4.29	
			LE			12.0	8.55	
			LZ	M_S = 5.4		14.0	9.80	
NJ2	21.1	257	eP	10 56 09.4	−2.2			
			LN	M_S = 5.3		11.0	3.93	
			LE			12.0	3.22	
			LZ	M_S = 5.0		14.0	3.85	
TIY	24.1	275	eP	10 56 41.8	0.7			
			pP	10 56 51.0	4.4			
			LN	M_S = 5.4		14.0	5.83	
			LZ	M_S = 5.2		16.0	5.47	
HHC	24.2	283	P	10 56 41.4	−0.5			
			sS	11 01 11.0	4.9			
			LN	M_S = 5.5		14.0	4.35	
			LE			15.0	5.26	
			LZ	M_S = 5.3		16.0	7.99	
WHN	25.2	258	+P	10 56 53.0	1.0			
			PMZ	m_b = 5.6		1.3	0.19	
			pP	10 56 59.0	1.4			
			sP	10 57 03.5	2.9			
			sS	11 01 23.0	−1.0			
			LN	M_S = 5.6		17.0	8.24	
			LE			16.0	4.29	
			LZ	M_S = 5.1		14.0	4.14	
QZH	25.3	242	eP	10 56 53.0	0.0			
			S	11 01 17.0	1.2			
			sS	11 01 27.0	1.1			
			LN	M_S = 5.3		13.0	3.80	
			LZ	M_S = 5.1		14.0	3.55	
BTO	25.4	283	P	10 56 52.0	−1.5			
			pP	10 57 01.0	2.1			
			PP	10 57 31.0	−0.4			
			S	11 01 13.0	−3.3			
			LN	M_S = 5.6		13.0	5.30	
			LE			14.0	6.80	
XAN	27.9	269	P	10 57 16.7	−0.3			
			pP	10 57 24.0	1.4			
			LN	M_S = 5.5		14.0	3.42	
			LE			13.0	4.17	
LZH	31.1	276	−P	10 57 46.0	0.1			
			pP	10 57 52.0	0.6			
			sP	10 57 58.0	3.6			
			PP	10 58 50.5	2.9			
			eS	11 02 54.0	3.4			
			ScS	11 08 20.0	2.7			
			LN	M_S = 5.7		12.0	2.76	
			LE			13.0	5.71	
			LZ	M_S = 5.6		12.0	7.79	
GYA	33.1	258	+P	10 58 02.8	−0.2			
			PMZ			3.0	1.10	
			PP	10 59 17.0	3.9			
			PcP	11 00 46.0	0.5			
			S	11 03 19.0	−1.1			
			LN	M_S = 5.5		14.0	3.30	
			LE			14.0	1.80	
			LZ	M_S = 4.9		16.0	1.80	
CD2	33.2	267	eP	10 58 02.8	−0.7			
			sS	11 03 35.0	3.4			
			LZ	M_S = 5.3		15.0	4.75	
GTA	33.3	284	+iP	10 58 05.2	0.7			
			pP	10 58 11.0	0.9			
			sP	10 58 15.0	2.0			
			PP	10 59 18.0	2.9			
			S	11 03 28.0	5.3			
			LE	M_S = 5.5		13.5	4.45	
			LZ	M_S = 5.4		16.0	5.89	
QZN	35.3	244	eP	10 58 21.0	−0.8			
			eS	11 03 52.0	−2.9			
			sS	11 04 05.0	0.4			
			LN	M_S = 5.4		14.0	2.40	
			LE			15.0	1.55	
KMI	36.8	259	+P	10 58 35.0	0.3			
			pP	10 58 40.0	−0.3			
			S	11 04 16.0	−1.2			
			sS	11 04 30.0	2.2			
			LN	M_S = 5.5		12.0	2.90	
			LE			12.0	1.20	
WMQ	41.0	295	+P	10 59 11.3	1.5			
			PMZ	m_B = 5.6		8.0	0.88	
			eS	11 05 27.0	4.8			
			sS	11 05 34.0	2.2			
			LN	M_S = 5.7		13.0	3.44	
			LE			13.0	2.71	
			LZ	M_S = 5.4		15.0	3.66	
LSA	43.5	273	eP	10 59 32.1	2.1			
			LN	M_S = 5.4		16.0	1.84	
			LE			14.0	1.06	
KSH	50.8	293	eP	11 00 28.5	1.4			

			pP	11 00 36.0	3.3			
			sP	11 00 39.5	3.9			
			PP	11 02 24.0	0.9			
			eS	11 07 43.0	1.5			
			LN	$M_S=5.7$		12.0	2.60	

OCT 29d 11h 13m 44.8±0.07s, SD2.81/6
39.84 N±0.61km, 113.84 E±0.66km, h25±0.11km
North-Eastern China (658)
M_L3.1/5,

BJI	1.8	83	Pg	11 14 16.0	−1.0			
			Sn	11 14 38.5	−0.1			
			Sg	11 14 40.5	−1.3			
			SMN	$M_L=2.6$		0.5	0.066	
			SME			0.5	0.052	
TIY	2.4	208	iPg	11 14 27.2	−0.1			
			Sg	11 14 58.3	−1.6			
			SMN	$M_L=3.2$		0.5	0.12	
			SME			0.5	0.17	

OCT 29d 12h 45m 37.0±0.13s, SD1.81/47
39.64 N±2.15km, 143.40 E±2.73km, h14±0.92km
Near east coast of Honshu (228)
M_S4.3/2, m_b4.1/2,

MDJ	11.4	300	eP	12 48 25.0	2.2			
CN2	14.0	293	eP	12 48 59.0	0.9			
BJI	20.9	280	eP	12 50 19.0	−2.7			
			LZ	$M_S=4.1$		18.0	0.59	
TIA	21.0	269	eP	12 50 20.7	−2.1			
NJ2	21.2	257	eP	12 50 25.0	−0.4			
TIY	24.2	275	eP	12 50 57.9	3.3			
WHN	25.4	258	+P	12 51 06.5	0.9			
XAN	28.0	269	P	12 51 29.4	−1.1			
LZH	31.3	276	P	12 51 58.0	−1.3			
GYA	33.2	258	P	12 52 16.8	0.2			
GTA	33.4	284	eP	12 52 18.2	0.5			
WMQ	41.1	295	eP	12 53 24.0	1.1			

OCT 29d 13h 35m 28.5±0.08s, SD1.26/26
19.75 N±1.82km, 146.44 E±1.63km, h36±0.33km
Marianas (216)
m_b4.8/2,

MDJ	28.5	334	eP	13 41 24.0	1.1			
SNY	29.3	324	eP	13 41 29.0	−1.4			
CN2	29.7	328	eP	13 41 35.0	1.0			
WHN	30.9	297	eP	13 41 47.0	2.9			
GTA	44.5	307	eP	13 43 38.0	−0.8			
WMQ	54.2	310	+P	13 44 53.5	0.4			

OCT 29d 15h 53m 09.7±0.08s, SD1.43/99
39.51 N±1.88km, 143.34 E±1.98km, h8±0.80km
Near east coast of Honshu (228)
M_S5.6/48, m_B5.7/20, m_b5.5/20,

MDJ	11.4	301	+P	15 55 57.5	1.1			
			S	15 58 05.0	0.0			
			LZ	$M_S=5.4$		14.0	23.2	
CN2	14.0	294	+P	15 56 31.5	0.0			
			PMZ	$m_B=5.8$		6.0	1.20	
			pP	15 56 37.0	1.3			
			eS	15 59 08.0	−0.8			
			SMN			15.0	1.50	
			SME			15.0	0.90	
			LN	$M_S=5.4$		13.0	12.1	
			LE			13.0	5.80	
			LZ	$M_S=5.0$		13.0	6.50	
SNY	15.2	285	+iP	15 56 47.0	0.7			
			PMZ			15.0	2.99	
			sP	15 56 58.5	4.4			
			S	15 59 39.5	4.5			
			SMN	$m_B=5.1$		8.5	0.84	
			SME			7.0	0.58	
			LN	$M_S=5.4$		12.0	7.25	
			LE			13.0	7.14	
			LZ	$M_S=5.4$		16.0	18.0	
DL2	16.8	275	+P	15 57 07.0	−0.7			
			PMZ	$m_B=5.2$		12.0	1.32	
			sP	15 57 20.0	4.5			
			eS	16 00 12.0	−2.3			
			sS	16 00 24.0	2.8			
			LN	$M_S=5.4$		12.0	8.84	
			LE			13.0	4.61	
			LZ	$M_S=5.2$		12.0	7.55	
SSE	19.9	252	+P	15 57 40.0	−4.8			
			PMZ	$m_B=5.3$		10.0	1.44	
			pP	15 57 46.2	−3.3			
			sP	15 57 52.0	−0.7			
			S	16 01 26.0	3.2			
			sS	16 01 32.0	1.6			
			SS	16 01 47.0	−3.3			
			LN	$M_S=5.6$		14.0	7.74	
			LE			13.0	8.12	
			LZ	$M_S=4.7$		20.0	2.98	
BJI	20.9	280	+eP	15 57 53.0	−1.9			
			PMZ	$m_b=5.5$		1.5	0.31	
			esS	16 01 50.0	−0.8			
			LE	$M_S=5.5$		14.0	8.40	
			LZ	$M_S=5.5$		16.0	13.4	
TIA	20.9	269	+P	15 57 53.8	−1.9			
			pP	15 58 00.0	−0.5			
			LN	$M_S=5.8$		14.0	2.55	
			LE			13.0	17.2	
			LZ	$M_S=5.7$		13.0	17.6	
NJ2	21.2	257	+P	15 57 57.0	−1.1			
			S	16 01 54.0	5.6			
			LN	$M_S=5.3$		11.0	3.47	
			LE			11.5	3.52	
			LZ	$M_S=5.2$		16.0	6.90	
TIY	24.2	276	+P	15 58 26.3	−1.4			
			pP	15 58 31.5	−1.1			
			sS	16 02 56.0	4.8			
			LN	$M_S=5.6$		13.0	5.83	
			LE			16.0	7.61	
			LZ	$M_S=5.5$		17.0	12.5	
HHC	24.2	283	P	15 58 28.5	−0.2			
			LN	$M_S=5.7$		15.0	4.82	
			LE			16.0	10.1	
			LZ	$M_S=5.7$		18.0	18.9	
WHN	25.3	258	+P	15 58 39.5	1.1			
			PMZ	$m_b=6.2$		1.3	0.79	
			PMZ			3.0	2.63	
			pP	15 58 44.5	1.1			
			sP	15 58 49.0	2.7			
			S	16 03 04.0	2.7			
			LN	$M_S=5.6$		13.0	3.61	
			LE			12.0	7.07	
			LZ	$M_S=5.2$		16.0	5.95	
QZH	25.4	242	+P	15 58 39.5	0.2			
			S	16 03 04.0	1.3			
			LN	$M_S=5.3$		12.0	3.68	
			LZ	$M_S=5.3$		14.0	6.75	
BTO	25.4	283	+iP	15 58 39.5	−0.6			
			PMZ	$m_B=5.6$		8.0	1.30	
			sP	15 58 52.0	4.1			
			S	16 03 02.0	−2.1			
			LN	$M_S=5.9$		14.0	4.80	
			LE			16.0	18.7	

XAN	28.0	270	+P	15 59 03.2	−0.3			
			sP	15 59 14.0	2.7			
			S	16 03 45.0	−0.7			
			LN	M_S=5.7		14.0	6.94	
			LE			13.0	5.36	
GZH	30.2	246	eP	15 59 24.0	0.6			
			S	16 04 25.0	3.7			
			LN	M_S=5.6		12.0	4.10	
			LE			11.0	3.80	
			LZ	M_S=5.4		14.0	6.00	
LZH	31.2	276	+P	15 59 32.0	−0.5			
			PMZ	m_b=5.7		2.0	0.28	
			pP	15 59 37.0	−0.4			
			S	16 04 39.0	2.0			
			sS	16 04 47.0	0.5			
			ScS	16 10 06.0	1.8			
			LN	M_S=6.0		13.0	4.10	
			LE			13.0	11.5	
			LZ	M_S=5.9		13.0	15.0	
GYA	33.2	258	+P	15 59 49.4	−0.1			
			PMZ	m_b=5.5		1.2	0.10	
			PMZ			3.0	1.10	
			pP	15 59 59.0	4.6			
			PP	16 01 00.0	0.3			
			S	16 05 05.0	−2.4			
			LN	M_S=5.7		14.0	4.40	
			LE			14.0	4.10	
			LZ	M_S=5.1		16.0	3.00	
CD2	33.2	267	eP	15 59 50.0	0.0			
			LN	M_S=6.0		12.0	10.7	
			LZ	M_S=5.7		12.0	8.88	
GTA	33.4	284	+iP	15 59 51.8	0.7			
			pP	15 59 59.0	2.9			
			PP	16 01 00.0	−2.0			
			S	16 05 08.0	−2.4			
			sS	16 05 23.0	3.3			
			LE	M_S=5.9		16.0	11.9	
			LZ	M_S=5.8		16.0	13.3	
QZN	35.3	244	eP	16 00 05.0	−3.0			
			eS	16 05 36.0	−6.0			
			sS	16 05 49.0	−1.4			
			LN	M_S=5.5		14.0	3.70	
KMI	36.9	259	+P	16 00 22.0	0.8			
			sP	16 00 32.0	3.2			
			PP	16 01 51.0	5.0			
			S	16 06 05.0	0.5			
			LN	M_S=5.6		13.0	3.10	
			LE			14.0	3.40	
WMQ	41.1	295	P	16 00 58.0	1.5			
			PMZ	m_B=6.2		4.0	1.53	
			PP	16 02 33.5	−0.5			
			S	16 07 12.0	3.2			
			LN	M_S=5.7		14.0	4.33	
			LZ	M_S=5.5		12.0	3.95	
LSA	43.5	274	P	16 01 18.2	1.6			
KSH	50.8	293	eP	16 02 14.0	0.3			
			pP	16 02 21.5	2.8			
			sP	16 02 26.0	4.6			
			eS	16 09 27.0	−2.2			

OCT 29d 16h 07m 46.7 ± 0.14s, SD1.81 / 49
39.45 N ± 2.27km, 143.63 E ± 2.96km, h11 ± 0.95km
Off east coast of Honshu (229)
m_b4.4 / 5,

MDJ	11.6	301	eP	16 10 38.0	1.8			
SNY	15.4	285	eP	16 11 30.6	4.6			
SSE	20.1	252	eP	16 12 22.8	−0.8			
			sP	16 12 37.0	5.0			
BJI	21.1	280	eP	16 12 31.0	−2.9			
			PMZ	m_b=4.3		1.2	0.016	
TIA	21.2	270	eP	16 12 32.8	−1.8			
NJ2	21.4	257	eP	16 12 38.0	1.2			
TIY	24.4	276	+P	16 13 09.6	3.0			
WHN	25.5	259	−P	16 13 18.5	1.5			
			PMZ	m_b=5.0		1.0	0.040	
			pP	16 13 23.0	0.6			
XAN	28.2	270	P	16 13 42.5	0.3			
GYA	33.4	258	P	16 14 27.6	−0.3			
GTA	33.6	284	P	16 14 30.6	0.8			
WMQ	41.4	295	P	16 15 36.0	1.0			

OCT 29d 19h 09m 11.7 ± 0.12s, SD0.89 / 84
36.74 N ± 1.63km, 2.31 E ± 2.16km, h6 ± 0.74km
Algeria (396)
M_S6.0 / 33, m_B5.8 / 11, m_b5.7 / 17,

KSH	56.4	63	eP	19 18 57.0	−0.4			
			PP	19 21 05.0	1.4			
			eS	19 26 45.5	−2.1			
			LE	M_S=5.5		12.0	1.50	
WMQ	62.8	54	P	19 19 41.0	0.1			
			S	19 28 08.0	0.2			
			LN	M_S=6.2		16.0	6.01	
			LE			16.0	5.06	
			LZ	M_S=5.7		12.0	3.41	
LSA	72.1	66	P	19 20 40.5	0.5			
			S	19 30 03.0	3.3			
			SMN	m_B=5.7		9.0	0.63	
GTA	72.8	54	+iP	19 20 44.0	−0.1			
			pP	19 20 50.0	1.3			
			S	19 30 10.0	1.8			
			sS	19 30 17.0	−0.7			
			LN	M_S=5.8		17.0	2.84	
			LZ	M_S=5.5		16.0	2.33	
LZH	77.3	54	P	19 21 09.5	−0.5			
			PMZ	m_b=5.7		1.5	0.12	
			PMZ	m_B=5.9		10.0	1.28	
			pP	19 21 17.5	2.9			
			PcP	19 21 21.0	1.2			
			PP	19 24 09.0	4.4			
			eS	19 30 57.0	−3.1			
			sS	19 31 11.0	3.2			
			LN	M_S=5.8		15.0	1.04	
			LE			14.0	1.81	
			LZ	M_S=5.5		18.0	2.40	
BTO	78.5	48	P	19 21 16.5	0.4			
			sP	19 21 23.0	−0.3			
			PP	19 24 18.0	3.5			
			eS	19 31 13.5	1.4			
			LN	M_S=5.7		14.0	1.20	
			LE			15.0	0.90	
HHC	79.2	47	−P	19 21 21.0	0.7			
CD2	80.4	59	eP	19 21 26.4	0.0			
			S	19 31 31.5	1.3			
TIY	81.7	49	eP	19 21 34.0	0.3			
			S	19 31 42.0	−2.5			
			LE	M_S=6.0		15.0	3.44	
			LZ	M_S=5.8		17.0	4.07	
XAN	81.9	53	P	19 21 34.4	0.0			
			S	19 31 40.0	−6.0			
			LN	M_S=5.9		13.2	0.82	
			LE			13.0	1.81	
BJI	82.4	45	eP	19 21 37.5	0.5			
			PMZ	m_b=5.7		1.0	0.080	
			PMZ	m_B=5.7		12.0	0.90	
			eS	19 31 56.0	3.0			
			LN	M_S=6.0		13.0	2.21	

			LE			14.0	1.49
			LZ		$M_S=5.9$	16.0	4.37
KMI	83.1	64	+P	19 21 40.0	−1.0		
			sP	19 21 48.0	0.0		
			SKS	19 32 00.0	1.9		
			LN		$M_S=5.6$	18.0	1.60
			LZ		$M_S=5.4$	20.0	1.60
CN2	84.7	38	+P	19 21 48.5	−0.1		
			PMZ		$m_B=6.2$	5.0	1.00
			PP	19 25 08.0	2.9		
			eS	19 32 17.0	1.2		
			SME		$m_B=5.8$	7.0	0.60
			LN		$M_S=6.0$	15.0	1.20
			LE			15.0	3.10
			LZ		$M_S=5.5$	19.0	2.10
GYA	85.1	61	+P	19 21 51.2	0.4		
			PMZ		$m_b=5.4$	1.2	0.040
			LN		$M_S=5.6$	20.0	0.90
			LE			20.0	1.20
SNY	85.2	40	+P	19 21 49.8	−1.3		
			PMZ		$m_b=5.6$	1.0	0.060
			sP	19 21 57.0	−1.3		
			PP	19 25 14.0	4.9		
			S	19 32 20.0	1.0		
			LZ		$M_S=5.7$	22.0	3.73
TIA	85.5	47	+P	19 21 53.1	0.2		
MDJ	86.0	35	eP	19 21 54.0	−1.3		
			pP	19 22 00.0	−0.1		
			PP	19 25 18.0	2.1		
			S	19 32 25.0	−2.1		
			SS	19 38 05.5	−2.9		
			LE		$M_S=6.2$	16.0	5.07
			LZ		$M_S=5.9$	16.0	4.37
DL2	86.2	43	eP	19 21 57.0	0.7		
			PMZ		$m_b=5.7$	1.0	0.070
			PMZ		$m_B=5.8$	8.0	0.71
			LN		$M_S=6.0$	12.0	1.70
			LE			12.0	1.68
			LZ		$M_S=5.6$	18.0	2.11
WHN	87.6	53	eP	19 22 03.5	0.3		
			pP	19 22 10.0	2.0		
			eSKS	19 32 29.0	0.9		
			LE		$M_S=5.7$	16.0	1.52
NJ2	89.4	49	−P	19 22 12.0	0.2		
			S	19 32 55.5	−3.8		
			LZ		$M_S=5.8$	15.0	2.83
SSE	91.5	49	P	19 22 21.0	−0.4		
			PMZ		$m_b=5.5$	1.4	0.041
			PP	19 26 02.0	1.4		
			S	19 33 18.0	−0.1		
			sS	19 33 29.0	1.2		
			SS	19 39 32.0	4.6		
			LN		$M_S=6.1$	14.0	1.35
			LE			14.0	2.45
			LZ		$M_S=5.4$	18.0	1.36
QZN	92.1	65	eP	19 22 26.0	2.1		
			SKS	19 32 54.5	−0.1		
			eS	19 33 20.0	−4.5		
			LE		$M_S=5.7$	18.0	1.70
QZH	94.2	55	eP	19 22 31.0	−2.7		
			PP	19 26 18.0	−4.1		
			LN		$M_S=5.8$	14.0	1.54
			LZ		$M_S=5.6$	16.0	1.66

OCT 29d 19h 21m 51.8 ± 0.07s, SD0.77 / 78
36.70 N ± 1.22km, 2.35 E ± 1.38km, h12 ± 0.58km
Algeria (396)
M_S5.9 / 12, m_B5.9 / 2, m_b5.6 / 12,

KSH	56.4	63	P	19 31 36.5	0.1		
			eS	19 39 26.5	0.6		
			LE		$M_S=5.4$	12.0	1.10
WMQ	62.8	54	P	19 32 19.5	−0.6		
LSA	72.1	66	P	19 33 19.5	0.5		
GTA	72.8	54	+iP	19 33 22.8	−0.4		
			PMZ		$m_b=5.9$	0.8	0.10
			LN		$M_S=5.6$	14.0	1.58
			LZ		$M_S=5.5$	18.0	2.30
LZH	77.3	54	+P	19 33 49.0	−0.1		
			PMZ		$m_b=5.8$	1.0	0.12
			pP	19 33 50.5	−4.1		
BTO	78.5	48	eP	19 33 56.0	0.7		
HHC	79.2	47	−P	19 34 00.2	0.8		
			LN		$M_S=6.1$	14.0	2.45
			LE			13.0	2.46
CD2	80.4	59	P	19 34 06.0	0.5		
TIY	81.7	49	+P	19 34 12.6	−0.2		
			eS	19 44 26.5	1.7		
			LE		$M_S=6.0$	15.0	3.26
XAN	81.9	54	P	19 34 13.3	−0.2		
BJI	82.4	45	eP	19 34 16.5	0.4		
			PMZ		$m_b=5.7$	1.0	0.078
KMI	83.1	64	+P	19 34 20.0	−0.1		
CN2	84.7	38	+P	19 34 27.0	−0.7		
GYA	85.1	61	+P	19 34 30.4	0.5		
			PMZ		$m_b=5.5$	1.2	0.050
			LN		$M_S=5.7$	20.0	1.80
			LE			20.0	1.30
SNY	85.2	40	+P	19 34 29.7	−0.5		
			PMZ		$m_b=5.6$	1.0	0.056
			sS	19 45 05.0	−3.8		
			LZ		$M_S=5.7$	22.0	3.73
TIA	85.6	47	+P	19 34 32.3	0.2		
			LN		**$M_S=5.9$**	**13.0**	**1.56**
			LE			**13.0**	**1.09**
			LZ		$M_S=5.7$	**18.0**	**2.64**
MDJ	86.0	35	eP	19 34 33.0	−1.5		
WHN	87.6	53	eP	19 34 42.0	−0.2		
NJ2	89.4	49	−P	19 34 51.0	0.1		

OCT 29d 19h 47m 40.7 ± 0.18s, SD3.42 / 10
29.72 N ± 1.97km, 108.80 E ± 1.15km, h15 ± km
Sichuan Province (307)
M_S3.8 / 1, M_L3.2 / 6,

GYA	3.8	211	Pn	19 48 41.8	3.1		
			Pg	19 48 53.0	6.0		
			Sn	19 49 22.8	−1.7		
			Sg	19 49 37.0	−1.3		
			SMN		$M_L=3.0$	1.0	0.040
			SME			1.0	0.040
XAN	4.3	1	Pn	19 48 44.8	−1.5		
			Pg	19 48 57.0	0.2		
			Sg	19 49 51.8	−4.0		
			SMN		$M_L=3.2$	0.7	0.040
			SME			1.0	0.050
WHN	4.9	79	ePg	19 49 08.0	1.1		
			LN		$M_S=3.8$	12.0	0.79
			LE			13.0	1.68
			LZ		$M_S=4.0$	16.0	2.38

OCT 29d 23h 18m 03.1 ± 0.08s, SD1.57 / 82
39.80 N ± 2.20km, 143.21 E ± 1.98km, h11 ± 0.86km
Near east coast of Honshu (228)
M_S5.0 / 26, m_b4.9 / 13,

MDJ	11.2	300	eP	23 20 48.5	2.2		
			S	23 22 54.0	1.9		
			LN		$M_S=4.6$	14.0	2.88

CN2	13.8	293	eP	23 21 23.0	1.1			
			PMZ	m_b=4.9		0.8	0.020	
			eS	23 23 58.0	1.3			
			LN	M_S=4.6		13.0	1.90	
			LZ	M_S=4.4		20.0	2.40	
SNY	15.0	284	eP	23 21 39.0	1.8			
			LN	M_S=4.7		14.0	1.45	
			LE			16.5	2.63	
			LZ	M_S=4.7		17.0	4.23	
DL2	16.7	274	eP	23 22 02.0	2.8			
			LZ	M_S=4.3		15.0	1.30	
SSE	19.9	251	P	23 22 38.0	0.2			
			sP	23 22 50.0	3.8			
			sS	23 26 28.0	4.2			
			SS	23 26 42.0	−1.2			
			LN	M_S=4.8		13.0	1.44	
			LE			13.0	0.90	
			LZ	M_S=4.5		12.0	1.09	
BJI	20.7	279	eP	23 22 43.5	−2.9			
			esS	23 26 44.0	2.8			
			LE	M_S=4.8		15.0	1.76	
			LZ	M_S=4.7		16.0	2.33	
TIA	20.8	268	−P	23 22 45.5	−2.2			
			LN	M_S=5.1		13.0	2.14	
			LE			13.0	2.86	
			LZ	M_S=4.9		15.0	3.86	
NJ2	21.1	256	+P	23 22 50.0	−0.8			
			LZ	M_S=4.6		17.0	1.78	
TIY	24.0	275	+P	23 23 20.7	1.2			
			LN	M_S=4.8		15.0	1.60	
			LZ	M_S=4.7		16.0	1.90	
HHC	24.1	283	−P	23 23 19.0	−1.1			
WHN	25.2	258	+P	23 23 31.5	0.4			
			PMZ	m_b=5.6		0.7	0.098	
			pP	23 23 40.5	4.0			
			eS	23 27 49.0	−5.1			
			LN	M_S=5.0		16.0	1.98	
			LE			16.0	1.43	
BTO	25.3	283	eP	23 23 30.5	−1.1			
			eS	23 27 49.0	−6.1			
			LN	M_S=5.2		13.0	0.80	
			LE			16.0	3.70	
QZH	25.4	242	eP	23 23 32.5	−0.2			
			sP	23 23 45.0	3.9			
			eS	23 27 52.0	−5.0			
			LN	M_S=4.7		14.0	1.05	
			LZ	M_S=4.4		16.0	0.95	
XAN	27.9	269	P	23 23 55.0	−0.6			
LZH	31.1	276	+P	23 24 24.5	0.2			
			PMZ	m_b=5.1		1.4	0.051	
			pP	23 24 33.0	3.4			
			LN	M_S=5.2		12.0	0.61	
			LE			13.0	1.86	
			LZ	M_S=5.1		14.0	2.70	
GYA	33.1	258	+P	23 24 41.6	−0.5			
			sP	23 24 55.0	4.6			
			S	23 29 55.0	−4.5			
			LN	M_S=5.1		14.0	0.90	
			LE			14.0	1.20	
CD2	33.2	267	eP	23 24 42.0	−0.2			
			eS	23 29 54.0	−6.8			
			LN	M_S=5.4		13.0	3.30	
			LZ	M_S=5.0		14.0	2.15	
GTA	33.2	284	+P	23 24 42.8	0.1			
			LE	M_S=5.3		16.0	2.69	
			LZ	M_S=5.2		16.0	3.38	
QZN	35.4	244	eP	23 25 02.0	0.7			
			eS	23 30 29.0	−6.2			
			LN	M_S=5.0		14.0	0.85	
			LE			15.0	0.81	
KMI	36.8	259	eP	23 25 13.0	−0.8			
			sP	23 25 25.0	3.0			
			S	23 31 00.0	3.5			
			LN	M_S=5.1		16.0	1.40	
			LE			16.0	0.70	
			LZ	M_S=5.1		16.0	2.70	
WMQ	40.9	294	P	23 25 48.5	0.8			
			eS	23 31 55.0	−4.5			
			LN	M_S=4.9		13.0	0.45	
			LE			13.0	0.43	
			LZ	M_S=4.6		16.0	0.67	
LSA	43.4	273	eP	23 26 11.4	2.8			
KSH	50.6	293	eP	23 27 06.0	0.9			
			eS	23 34 17.0	−2.0			

OCT 30d 06h 40m 06.6±0.10s, SD0.85/18
27.64 S±3.28km, 64.19 E±1.61km, h6±1.21km
Atlantic–Indian Ridge (428)

KMI	64.3	39	+P	06 50 46.5	0.6			
GYA	67.5	41	P	06 51 06.8	0.1			
CD2	69.4	36	eP	06 51 16.8	−1.4			
LZH	73.6	33	P	06 51 41.5	−2.0			
GTA	74.5	28	eP	06 51 48.8	−0.1			
XAN	74.6	37	P	06 51 49.0	0.0			
WHN	75.1	43	eP	06 51 52.1	0.0			

OCT 30d 09h 23m 04.7±0.18s, SD3.75/8
35.40 N±0.92km, 80.43 E±2.10km, h25±2.70km
Kashmir–Tibet border region (304)
M_L4.5/5,

KSH	5.5	320	ePn	09 24 28.9	3.7			
			eSn	09 25 33.6	4.6			
			SMN	M_L=4.7		0.8	0.80	
			SME			0.6	0.80	

OCT 30d 12h 54m 42.1±0.13s, SD4.32/6
39.30 N±1.58km, 75.10 E±0.61km, h13±1.59km
Tadzhikistan–Xinjiang border region (719)
M_L3.6/4,

KSH	0.7	71	Pg	12 54 53.4	−0.9			
			Sg	12 55 01.0	−2.4			
			SME	M_L=3.5		0.5	1.90	

OCT 30d 23h 46m 30.9±0.08s, SD0.79/93
20.88 S±2.45km, 178.65 W±1.65km, h583±0.30km
Fiji region (181)
m_B5.8/12, m_b5.7/21,

QZH	76.1	304	−P	23 57 21.5	−0.1			
			PMZ	m_b=5.5		0.8	0.16	
SSE	77.5	310	−P	23 57 28.5	−0.4			
			PMZ	m_b=5.2		1.0	0.12	
			PMZ	m_B=5.4		4.0	0.77	
GZH	79.4	300	−iP	23 57 39.1	0.1			
NJ2	79.7	310	−iP	23 57 40.0	−0.5			
			PMZ	m_B=5.8		3.5	1.45	
QZN	80.5	295	−P	23 57 44.5	−0.1			
			pP	23 59 50.5	3.1			
			S	24 07 04.5	1.5			
MDJ	80.5	325	−iP	23 57 45.0	0.2			
			pP	23 59 48.0	0.5			
			S	24 07 05.0	1.8			
			SMN	m_B=5.7		8.0	1.27	
DL2	81.6	317	eP	23 57 50.5	0.1			
			PMZ	m_b=5.3		1.2	0.15	
SNY	82.1	320	−iP	23 57 53.0	0.0			
WHN	82.2	307	−iP	23 57 53.6	0.2			

			PMZ		$m_b = 5.7$		1.4	0.41
			PMZ		$m_B = 5.8$		4.0	1.47
			eS	24 07 18.0		−3.7		
CN2	82.2	323	−iP	23 57 53.2		−0.5		
			PMZ		$m_b = 5.8$		1.4	0.54
			PMZ		$m_B = 5.9$		3.5	1.60
			eS	24 07 21.0		−1.2		
BJI	85.7	316	−P	23 58 10.5		−0.4		
			PMZ		$m_b = 5.9$		1.7	0.41
			PMZ				3.0	0.80
			sP	24 01 08.0		−4.5		
			ePP	24 01 38.0		−3.4		
			eSKS	24 07 40.0		0.7		
			eS	24 07 50.0		−5.7		
GYA	86.3	300	−P	23 58 14.0		0.2		
			PMZ		$m_b = 6.3$		2.0	1.10
			pP	24 00 16.0		−2.3		
			sP	24 01 16.0		0.7		
			PP	24 01 45.0		−1.2		
			SMN		$m_B = 6.0$		5.0	0.50
			SME				5.0	1.00
TIY	87.1	312	−iP	23 58 18.0		0.7		
			PMZ		$m_b = 5.9$		1.3	0.31
			PMZ		$m_B = 6.0$		4.0	1.06
			pP	24 00 23.0		0.9		
			SKS	24 07 49.5		1.5		
			S	24 08 02.0		−4.4		
			LE				14.0	0.39
			LZ				30.0	0.94
XAN	87.9	308	−P	23 58 21.3		0.2		
KMI	89.0	297	−P	23 58 27.0		0.6		
			PMZ				3.0	1.20
			pP	24 00 36.5		4.9		
			PP	24 02 13.0		4.9		
			SKS	24 08 01.0		1.5		
HHC	89.2	315	−P	23 58 27.4		0.1		
			SMN		$m_B = 5.8$		6.0	0.45
			SME				6.0	0.54
BTO	90.1	314	+iP	23 58 32.0		0.5		
CD2	90.5	303	eP	23 58 34.0		0.8		
LZH	92.5	308	−P	23 58 42.0		−0.6		
			PMZ		$m_b = 5.9$		2.0	0.26
			pP	24 00 49.0		0.6		
			SKS	24 08 19.0		−0.6		
GTA	96.7	310	−iP	23 59 01.6		−0.1		
WMQ	106.7	311	Pdif	23 59 46.0		−0.1		
KSH	114.6	305	ePKP	24 04 07.5		0.7		
			PP	24 05 16.0		−3.0		

OCT 31d 03h 50m 46.7 ± 0.05s, SD2.14 / 5
23.28 N ± 0.29km, 117.45 E ± 0.50km, h35 ± 0.74km
Near south−eastern coast of China (242)
M_L3.5 / 5,

QZH	2.0	32	Pn	03 51 18.2		0.4		
			Pg	03 51 22.0		0.3		
			Sg	03 51 45.9		−2.8		
			SMN		$M_L = 3.5$		0.1	0.56
			SME				0.2	0.29

OCT 31d 05h 07m 57.0 ± 0.06s, SD1.30 / 51
39.76 N ± 1.64km, 143.17 E ± 1.40km, h31 ± 1.19km
Near east coast of Honshu (228)
m_B5.1 / 1, m_b4.4 / 5,

MDJ	11.2	300	eP	05 10 39.8		1.9		
			S	05 12 40.0		−2.6		
			LZ		$M_S = 4.0$		20.0	1.33
BJI	20.7	279	eP	05 12 32.5		−4.7		
			LZ		$M_S = 4.2$		12.0	0.60
NJ2	21.1	256	−P	05 12 41.6		0.1		
TIY	24.0	275	eP	05 13 10.5		0.2		
			LZ		$M_S = 4.2$		20.0	0.75
WHN	25.2	258	−iP	05 13 22.2		0.5		
			PMZ		$m_b = 5.2$		1.0	0.060
XAN	27.9	269	P	05 13 45.5		−0.9		
LZH	31.1	276	+P	05 14 15.0		−0.1		
			PMZ		$m_b = 5.0$		1.0	0.027
			LZ		$M_S = 4.6$		14.0	0.80
GYA	33.1	258	+P	05 14 32.0		−0.8		
CD2	33.1	267	eP	05 14 32.0		−0.9		
GTA	33.2	284	P	05 14 34.0		0.5		
KMI	36.8	259	−P	05 15 04.5		0.1		
			pP	05 15 13.5		0.4		
WMQ	40.9	294	P	05 15 40.0		1.4		

OCT 31d 07h 18m 49.1 ± 0.10s, SD1.29 / 26
10.87 S ± 1.41km, 162.50 E ± 1.10km, h60 ± 1.20km
Solomon Islands (193)

MDJ	62.8	334	eP	07 29 11.7		0.6		
CN2	64.0	331	+P	07 29 19.8		0.6		
BJI	66.4	323	eP	07 29 36.0		1.5		
XAN	67.7	314	P	07 29 42.0		−0.8		
CD2	70.0	309	eP	07 29 57.0		0.0		
GTA	76.7	315	eP	07 30 37.0		0.7		

OCT 31d 13h 11m 55.4 ± 0.05s, SD1.02 / 16
12.33 S ± 1.30km, 166.85 E ± 1.27km, h291 ± 0.32km
Santa Cruz Islands (184)

CN2	67.4	329	+P	13 22 21.8		−0.2		
TIY	71.2	317	+P	13 22 46.0		0.5		
GTA	80.7	314	eP	13 23 39.4		0.7		

OCT 31d 15h 29m 59.0 ± 0.16s, SD0.81 / 53
37.26 N ± 1.70km, 116.37 W ± 1.15km, h4 ± 0.59km
California−Nevada border region (40)
m_b5.5 / 11,

MDJ	79.1	318	eP	15 42 06.0		−0.8		
CN2	81.8	320	+P	15 42 20.6		−0.7		
SNY	84.2	319	+iP	15 42 34.0		0.5		
DL2	87.3	319	eP	15 42 49.5		0.5		
			PMZ		$m_b = 5.7$		1.0	0.070
BJI	89.2	322	eP	15 42 58.5		0.3		
			PMZ		$m_b = 5.3$		1.2	0.024
HHC	90.7	326	−P	15 43 06.4		1.0		
BTO	91.6	327	P	15 43 10.0		0.5		
TIY	92.8	323	−iP	15 43 16.1		1.0		
			PMZ		$m_b = 5.7$		1.2	0.050
SSE	93.3	314	+P	15 43 17.6		0.6		
			PMZ		$m_b = 6.1$		1.4	0.13
NJ2	93.9	316	+P	15 43 20.0		0.1		
WMQ	96.4	343	eP	15 43 31.5		0.1		
GTA	96.8	333	eP	15 43 33.6		0.5		
XAN	97.5	323	P	15 43 36.0		−0.3		
WHN	97.5	318	eP	15 43 35.5		−0.9		

OCT 31d 16h 56m 59.7 ± 0.07s, SD1.56 / 18
21.65 S ± 2.32km, 138.74 W ± 3.27km, h5 ± km
Tuamotu Archipelago region (631)

GTA	127.4	304	PKP	17 16 07.4		0.1		
KSH	145.5	309	PKP	17 16 42.0		1.6		

OCT 31d 17h 16m 45.8 ± 0.15s, SD1.74 / 48
9.50 S ± 2.18km, 111.87 E ± 2.53km, h33 ± 0.32km
South of Java (282)
m_b5.1 / 3,

KMI	35.5	346	+P	17 23 44.5		2.1		
GYA	36.1	352	P	17 23 48.2		1.2		

WHN	39.9	3	eP	17 24 20.0	1.5		
CD2	40.9	349	eP	17 24 27.8	0.6		
NJ2	41.9	9	−P	17 24 36.6	1.9		
XAN	43.4	356	P	17 24 47.0	−0.4		
LSA	43.8	334	P	17 24 51.7	0.7		
LZH	46.0	351	P	17 25 08.0	−0.2		
			PMZ	m_b = 5.0		1.5	0.030
TIY	47.0	1	eP	17 25 15.7	−0.2		
BJI	49.4	4	eP	17 25 33.5	−1.6		
BTO	49.9	358	eP	17 25 38.0	−0.6		
GTA	49.9	348	eP	17 25 39.0	−0.1		
MDJ	56.2	15	eP	17 26 24.0	−1.4		
WMQ	57.4	339	eP	17 26 32.5	−1.7		

OCT 31d 18h 44m 19.3 ± 0.13s, SD1.35 / 81
9.33 S ± 1.98km, 111.91 E ± 2.48km, h33 ± 0.08km
South of Java (282)
M_S5.4 / 33, m_B5.6 / 1, m_b5.3 / 15,

QZN	28.3	356	eP	18 50 13.4	1.5		
			eS	18 54 52.0	−2.5		
			LN	M_S = 5.2		15.0	3.00
QZH	34.7	11	eP	18 51 10.0	1.6		
			eS	18 56 36.0	0.5		
			LZ	M_S = 4.8		32.0	2.74
KMI	35.4	346	−P	18 51 16.5	1.8		
			pP	18 51 27.0	3.4		
			PP	18 52 38.5	4.3		
			S	18 56 50.0	4.5		
			LN	M_S = 5.8		15.0	5.20
			LE			16.0	5.70
			LZ	M_S = 5.7		16.0	11.0
GYA	35.9	352	−P	18 51 21.0	1.8		
			pP	18 51 30.8	2.5		
			PcP	18 53 47.8	2.5		
			S	18 56 56.0	2.1		
			ScP	18 57 33.0	5.3		
			LN	M_S = 5.5		15.0	3.20
			LE			15.0	2.90
			LZ	M_S = 4.8		26.0	2.30
WHN	39.7	3	eP	18 51 49.5	−1.2		
			sP	18 52 01.5	−2.4		
			eS	18 57 54.0	1.7		
			LN	M_S = 5.4		18.0	2.08
			LE			14.0	1.63
			LZ	M_S = 4.9		20.0	1.88
CD2	40.8	349	eP	18 51 59.6	0.1		
			sP	18 52 17.5	4.8		
			eS	18 58 05.5	−2.7		
			LE	M_S = 5.7		14.0	4.49
			LZ	M_S = 5.2		17.0	2.61
SSE	41.2	12	P	18 52 04.5	1.8		
			PMZ	m_b = 4.9		0.8	0.014
			sP	18 52 20.0	4.0		
			PP	18 53 44.0	3.0		
			S	18 58 15.0	1.9		
			sS	18 58 31.0	1.7		
			LE	M_S = 5.1		16.0	1.47
			LZ	M_S = 4.8		20.0	1.40
NJ2	41.7	9	−P	18 52 08.0	1.1		
			S	18 58 20.0	−0.7		
			LN	M_S = 5.1		8.0	0.62
			LE			12.0	0.61
XAN	43.2	356	P	18 52 20.0	0.3		
LSA	43.6	333	P	18 52 24.1	0.5		
			S	18 58 52.5	3.0		
			LE	M_S = 5.1		16.0	1.19
TIA	45.6	6	P	18 52 37.3	−1.1		
			eS	18 59 12.0	−6.1		
			LN	M_S = 5.3		16.0	1.90
			LZ	M_S = 5.1		25.0	2.60
LZH	45.8	351	+P	18 52 40.5	−0.1		
			PMZ	m_b = 5.5		1.6	0.11
			pP	18 52 46.0	−3.7		
			PP	18 54 23.0	−4.7		
			eS	18 59 25.0	3.1		
			LN	M_S = 5.5		11.0	0.85
			LE			17.0	2.76
			LZ	M_S = 5.3		26.0	4.40
TIY	46.8	1	−P	18 52 48.0	−0.2		
			S	18 59 35.0	0.4		
			LE	M_S = 5.6		20.0	3.90
			LZ	M_S = 5.0		22.0	2.09
DL2	48.8	10	eP	18 53 05.0	1.0		
			eS	19 00 04.0	−0.4		
			LN	M_S = 5.5		15.0	2.15
			LZ	M_S = 5.2		16.0	1.88
BJI	49.3	4	eP	18 53 06.5	−1.0		
			PMZ	m_b = 4.9		1.2	0.020
			eS	19 00 13.0	2.4		
			LE	M_S = 5.2		16.0	1.39
			LZ	M_S = 5.2		19.0	2.67
BTO	49.7	358	P	18 53 10.5	−0.4		
			sP	18 53 25.0	1.0		
			PP	18 55 05.0	−0.5		
			S	19 00 16.0	0.5		
			LN	M_S = 5.7		18.0	4.30
			LE			14.0	1.40
GTA	49.8	348	+iP	18 53 12.0	0.5		
			S	19 00 20.0	3.5		
			LN	M_S = 5.4		13.0	1.65
			LZ	M_S = 5.3		16.0	2.74
SNY	52.0	11	−P	18 53 25.8	−2.5		
			S	19 00 47.0	−0.5		
			LZ	M_S = 5.0		26.0	1.88
CN2	54.3	12	−P	18 53 43.5	−1.7		
			PMZ	m_b = 5.4		1.0	0.047
			eS	19 01 16.5	−3.0		
			LN	M_S = 5.3		13.0	1.00
			LZ	M_S = 4.9		24.0	1.20
MDJ	56.0	15	eP	18 53 56.0	−1.8		
			S	19 01 40.0	−1.5		
			LZ	M_S = 4.9		26.0	1.45
WMQ	57.3	339	+P	18 54 06.2	−0.6		
			pP	18 54 16.5	0.3		
			sP	18 54 19.5	−0.6		
			S	19 02 02.0	3.9		
			LE	M_S = 5.2		15.0	0.85
KSH	59.0	328	P	18 54 18.0	−0.7		
			pP	18 54 28.0	0.1		
			eS	19 02 19.0	−2.5		

OCT 31d 19h 13m 46.4 ± 0.13s, SD1.47 / 38
9.69 S ± 2.59km, 111.76 E ± 2.28km, h36 ± 0.40km
South of Java (282)

GYA	36.3	352	P	19 20 49.8	1.0
WHN	40.1	3	eP	19 21 22.5	2.1
CD2	41.1	350	eP	19 21 29.8	0.9
XAN	43.6	357	P	19 21 48.5	−0.7
LZH	46.1	351	eP	19 22 09.5	−0.4
TIY	47.1	1	eP	19 22 19.0	1.2
BJI	49.6	4	P	19 22 35.0	−2.0
GTA	50.1	348	eP	19 22 40.8	0.1
WMQ	57.6	340	P	19 23 34.5	−1.1
KSH	59.2	328	eP	19 23 47.5	0.5
			eS	19 31 55.0	4.2

OCT 31d 19h 34m 59.8 ± 0.11s, SD1.45 / 92
9.27 S ± 2.01km, 112.05 E ± 2.67km, h32 ± 0.20km
South of Java (282)
M_S5.4 / 27, m_B5.6 / 5, m_b5.6 / 15,

QZN	28.2	356	eP	19 40 52.5	0.5		
			eS	19 45 36.0	1.8		
			sS	19 45 52.0	2.8		
			LN	M_S = 5.3		18.0	3.20
			LE			19.0	3.50
QZH	34.6	10	eP	19 41 50.0	1.8		
			eS	19 47 16.0	1.4		
			LZ	M_S = 4.7		32.0	2.42
KMI	35.4	345	+P	19 41 57.0	2.0		
			pP	19 42 06.5	2.6		
			S	19 47 32.0	6.3		
			sS	19 47 44.0	2.3		
			LE	M_S = 5.7		15.0	5.70
			LZ	M_S = 5.2		20.0	4.50
GYA	35.9	352	P	19 42 01.8	2.4		
			pP	19 42 12.0	3.6		
			PcP	19 44 28.6	2.9		
			S	19 47 40.0	6.2		
			LN	M_S = 5.4		16.0	1.50
			LE			16.0	3.10
			LZ	M_S = 4.7		26.0	1.60
WHN	39.6	3	+P	19 42 31.5	0.9		
			pP	19 42 41.5	1.6		
			LE	M_S = 5.2		12.0	1.22
			LZ	M_S = 4.9		20.0	1.88
CD2	40.7	349	eP	19 42 40.0	0.3		
			S	19 48 48.0	0.8		
			sS	19 49 06.5	3.2		
			LE	M_S = 5.7		16.0	4.84
			LZ	M_S = 5.2		16.0	2.68
SSE	41.1	12	P	19 42 43.6	1.1		
			PMZ	m_b = 5.2		0.8	0.029
			sP	19 42 58.0	2.2		
			S	19 48 53.0	0.7		
			sS	19 49 13.0	4.5		
			LN	M_S = 5.2		14.0	1.35
			LE			14.0	0.70
			LZ	M_S = 4.6		20.0	0.93
NJ2	41.6	9	+P	19 42 50.0	3.2		
XAN	43.2	356	P	19 42 59.0	−0.8		
LSA	43.7	333	P	19 43 04.7	0.6		
			S	19 49 34.5	4.3		
			SME	m_B = 5.6		5.0	0.44
			LZ	M_S = 5.1		19.0	2.37
TIA	45.5	6	P	19 43 17.2	−1.1		
			eS	19 49 54.0	−3.5		
			LN	M_S = 5.4		17.0	2.46
			LZ	M_S = 5.1		18.0	2.26
LZH	45.8	351	−P	19 43 19.5	−1.3		
			PMZ	m_b = 5.6		1.5	0.12
			pP	19 43 28.5	−1.4		
			S	19 50 02.5	2.0		
			LN	M_S = 5.7		10.0	0.51
			LE			18.0	4.95
			LZ	M_S = 5.1		26.0	3.17
TIY	46.7	0	eP	19 43 28.0	−0.3		
			S	19 50 14.0	−0.3		
			LN	M_S = 5.4		15.0	1.83
			LZ	M_S = 5.3		14.0	2.26
DL2	48.7	10	eP	19 43 44.0	0.1		
			eS	19 50 43.0	−0.8		
			LN	M_S = 5.3		14.0	1.37
			LZ	M_S = 5.1		16.0	1.50
BJI	49.2	4	eP	19 43 46.5	−0.9		
			PMZ	m_b = 5.3		1.0	0.043
			eS	19 50 47.0	−3.1		
			LE	M_S = 5.2		14.0	0.99
			LZ	M_S = 5.2		20.0	2.69
BTO	49.6	358	+P	19 43 50.6	−0.4		
			sP	19 44 04.0	0.0		
			PP	19 45 48.5	3.0		
			eS	19 50 55.0	−1.6		
			LN	M_S = 5.6		20.0	2.60
			LE			18.0	2.40
GTA	49.7	348	−iP	19 43 52.0	0.2		
			sP	19 44 06.0	1.2		
			S	19 50 59.0	2.4		
			sS	19 51 14.0	0.8		
			LN	M_S = 5.4		12.0	1.49
			LZ	M_S = 5.2		20.0	2.58
SNY	51.9	11	+P	19 44 06.6	−1.6		
			S	19 51 32.0	5.2		
			LZ	M_S = 4.8		28.0	1.26
CN2	54.2	12	+iP	19 44 23.0	−2.1		
			pP	19 44 34.0	−0.5		
			sP	19 44 38.0	−0.4		
			eS	19 51 56.0	−2.8		
			LN	M_S = 5.3		13.0	1.00
			LZ	M_S = 4.9		20.0	1.20
MDJ	55.9	15	eP	19 44 35.3	−2.3		
			S	19 52 16.0	−4.8		
			LZ	M_S = 4.9		28.0	1.51
WMQ	57.3	339	−P	19 44 46.0	−1.3		
			pP	19 44 57.0	0.4		
			eS	19 52 38.0	−1.9		
			ScS	19 54 34.0	4.4		
			LZ	M_S = 5.7		21.0	6.36
KSH	59.0	328	P	19 44 58.3	−1.0		
			pP	19 45 08.0	−0.6		
			eS	19 53 00.5	−1.9		