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Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
OCT 1d 10h 24m 23.8 ± 0.04s, SD1.45 / 19							
31.37 S ± 1.11km, 178.69 W ± 0.99km, h37 ± 0.25km							
Kermadec Islands region					(177)		
m_b5.3 / 7,							
MDJ	89.1	326	eP	10 37 15.0	−2.4		
CN2	90.6	323	eP	10 37 23.0	−1.3		
OCT 1d 13h 23m 45.3 ± 0.10s, SD1.84 / 53							
23.96 N ± 0.91km, 121.70 E ± 1.15km, h26 ± 0.27km							
Taiwan					(244)		
M_S4.2 / 3, M_L4.4 / 12, m_b4.4 / 11							
QZH	3.0	290	Pn	13 24 32.4	0.8		
			Sn	13 25 05.5	−2.9		
			SMN	M_L = 3.6		1.0	0.24
			SME			1.0	0.22
SSE	7.1	356	eP	13 25 28.5	−2.2		
			SMN	M_L = 4.1		1.1	0.056
			SME			1.0	0.092
			LZ	M_S = 3.6		20.0	0.80
GZH	7.7	265	eP	13 25 38.8	−0.1		
			SMN	M_L = 4.8		1.0	0.40
			SME			1.0	0.14
WHN	9.3	317	eP	13 25 58.0	−2.4		
			SMN			1.2	0.20
			SME			1.0	0.079
QZN	12.1	248	eP	13 26 39.2	0.3		
			eS	13 28 50.7	−3.1		
GYA	13.8	284	P	13 27 01.8	−0.7		
			PMZ	m_b = 4.5		1.0	0.010
			pP	13 27 09.4	0.7		
			SMN			1.6	0.12
			SME			1.6	0.11
XAN	15.0	315	eP	13 27 17.5	−0.4		
CD2	17.4	297	eP	13 27 52.2	4.5		
HHC	18.9	336	eP	13 28 06.6	0.1		
BTO	19.3	332	eP	13 28 10.5	−0.7		
GTA	24.1	315	eP	13 29 01.0	0.9		
			PMZ	m_b = 3.9		1.0	0.0050
			LZ	M_S = 4.0		16.0	0.35
OCT 1d 17h 00m 53.2 ± 0.05s, SD1.77 / 18							
34.14 N ± 0.47km, 113.43 E ± 0.41km, h9 ± 0.07km							
Eastern China					(664)		
M_L3.5 / 16,							
TIY	3.7	348	ePg	17 02 00.3	2.5		
			Sn	17 02 33.8	−1.6		
			SMN	M_L = 3.4		1.0	0.10
			SME			0.5	0.12
TIA	3.7	55	ePg	17 01 57.8	−0.2		
			Sg	17 02 43.1	−4.9		
			SMN	M_L = 3.3		0.7	0.070
WHN	3.7	167	Pg	17 02 02.5	4.3		
			Sg	17 02 49.5	1.2		
			SMN	M_L = 3.8		1.0	0.35
			SME			0.7	0.12
XAN	3.7	270	Pn	17 01 50.8	−0.7		
			Pg	17 02 01.5	2.3		
			Sn	17 02 33.5	−4.1		
			Sg	17 02 50.5	0.1		
			SMN	M_L = 3.6		0.6	0.16
			SME			0.6	0.14
OCT 1d 20h 30m 19.3 ± 0.04s, SD1.21 / 216							
35.76 N ± 0.90km, 65.52 E ± 0.44km, h12 ± 0.02km							
Hindu Kush region					(718)		
M_S5.0 / 20, m_B5.5 / 3, m_b5.2 / 73							
KSH	9.1	62	P	20 32 35.0	1.6		
			S	20 34 18.0	2.0		
			LN	M_S = 5.7		8.0	17.6
			LE			8.0	25.5
WMQ	18.8	58	P	20 34 41.0	−0.6		
			PMZ	m_b = 4.9		1.0	0.056
			PMZ	m_B = 5.5		4.0	0.95
			sP	20 34 49.5	−0.3		
			PP	20 34 56.3	−0.7		
			PcP	20 39 05.5	−2.6		
			S	20 38 10.3	2.8		
			sS	20 38 16.0	0.0		
			PcS	20 42 43.0	−0.6		
			LN	M_S = 5.3		11.0	5.26
			LZ	M_S = 4.7		18.0	2.93
LSA	22.4	98	eP	20 35 20.4	0.8		
GTA	27.3	72	eP	20 36 06.4	−0.2		
			PMZ	m_b = 4.3		1.0	0.0060
			pP	20 36 10.5	−1.6		
			LE	M_S = 5.0		12.0	1.68
			LZ	M_S = 4.8		16.0	2.03
CD2	32.2	88	eP	20 36 49.0	−0.8		
			LN	M_S = 4.9		11.0	1.07
KMI	33.6	98	eP	20 37 05.5	3.0		
			PMZ	m_b = 5.2		0.5	0.020
			LZ	M_S = 4.7		16.0	1.20
BTO	35.0	68	eP	20 37 14.0	−0.6		
			LN	M_S = 5.1		14.0	0.90
			LE			14.0	1.50
XAN	35.4	80	eP	20 37 16.4	−1.5		
			LN	M_S = 5.0		12.0	0.90
			LE			12.0	0.77
GYA	36.2	93	P	20 37 25.4	0.8		
			PMZ	m_b = 4.6		1.0	0.010
			LN	M_S = 4.7		15.0	0.45
			LE			15.0	0.58
TIY	37.3	73	eP	20 37 32.5	−1.6		
			LN	M_S = 4.9		13.0	0.44
			LE			12.0	0.69
			LZ	M_S = 4.8		17.0	1.20
TIA	41.3	74	−P	20 38 07.7	0.4		
			PMZ	m_b = 4.8		0.6	0.010
QZN	42.4	101	P	20 38 12.0	−3.6		
NJ2	44.0	79	+P	20 38 31.0	2.3		
			LZ	M_S = 4.6		17.0	0.70
OCT 2d 06h 37m 27.1 ± 0.05s, SD1.42 / 55							
6.10 S ± 0.71km, 150.89 E ± 1.40km, h10 ± 0.01km							
New Britain region					(192)		
M_S4.9 / 1, m_b5.0 / 6,							
QZN	47.5	303	eP	06 46 03.8	−1.2		
NJ2	48.7	323	+P	06 46 15.0	0.9		
			LZ	M_S = 4.6		18.0	0.53
WHN	50.5	318	eP	06 46 29.0	0.9		
TIA	52.7	326	eP	06 46 44.3	−0.1		
BJI	55.9	328	eP	06 47 11.5	3.1		
			LZ	M_S = 4.4		20.0	0.36
XAN	56.3	318	eP	06 47 09.5	−1.4		
TIY	56.4	324	eP	06 47 14.0	2.2		
			LN	M_S = 4.9		16.0	0.48
			LZ	M_S = 4.8		16.0	0.71
CD2	58.2	312	eP	06 47 23.2	−1.0		

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			S	06 55 26.0	2.9			
HHC	59.0	326	eP	06 47 29.0	−1.3			
			LZ	M_S=4.8		18.0	0.73	
LZH	60.9	317	eP	06 47 41.0	−2.0			
			PMZ	m_b=5.0		2.0	0.039	
			pP	06 47 45.0	−3.2			
			eS	06 56 06.0	6.5			
			LZ	M_S=4.5		18.0	0.30	
GTA	65.3	318	eP	06 48 15.0	2.4			
			LZ	M_S=4.6		16.0	0.29	
WMQ	75.4	318	eP	06 49 13.3	−0.5			

OCT 2d 14h 32m 54.8±0.03s, SD0.90 / 162
10.35 S±0.61km, 161.38 E±0.68km, h91±0.13km
Solomon Islands (193)
m_B5.7 / 2, m_b5.4 / 59,

SSE	56.4	318	P	14 42 29.0	−0.8			
			PMZ	m_b=5.6		1.2	0.10	
			sP	14 43 02.0	−0.6			
			eS	14 50 10.0	−2.1			
NJ2	58.6	318	−P	14 42 44.8	0.0			
			PMZ	m_b=5.7		1.1	0.11	
			S	14 50 38.0	−1.0			
QZN	58.6	300	+P	14 42 46.2	1.2			
			PMZ	m_b=5.3		1.0	0.040	
			eS	14 50 37.0	−3.5			
WHN	60.8	314	−P	14 42 59.5	−0.4			
			PMZ	m_b=5.6		1.5	0.12	
MDJ	61.8	335	eP	14 43 06.0	−1.0			
			PMZ	m_b=5.9		1.2	0.20	
TIA	62.3	320	−P	14 43 09.5	−0.7			
			PMZ	m_b=5.3		1.2	0.051	
SNY	62.5	329	−P	14 43 10.0	−1.3			
			PMZ	m_b=5.2		1.2	0.037	
			S	14 51 32.0	3.3			
			LZ			34.0	0.82	
CN2	63.0	332	−iP	14 43 14.4	−0.6			
			PMZ	m_b=6.0		1.6	0.31	
			pP	14 43 37.4	−0.1			
			LZ			22.0	0.79	
GYA	64.5	306	P	14 43 25.0	0.1			
			PMZ	m_b=5.0		1.4	0.029	
BJI	65.3	323	eP	14 43 29.0	−0.9			
			PMZ	m_b=5.4		1.5	0.088	
			ePcP	14 44 00.0	−0.5			
			eS	14 52 06.0	0.8			
TIY	66.2	319	−P	14 43 35.5	−0.1			
			LZ			22.0	0.65	
XAN	66.5	314	P	14 43 36.8	−0.9			
			PMZ	m_b=5.3		1.0	0.040	
KMI	67.1	303	−P	14 43 42.5	0.8			
			PMZ	m_b=5.6		1.5	0.13	
HHC	68.6	321	+P	14 43 51.0	0.4			
			PMZ	m_b=5.6		1.4	0.13	
CD2	68.8	309	eP	14 43 51.0	−1.0			
			PMZ	m_b=5.5		1.4	0.11	
			eS	14 52 50.0	2.4			
BTO	69.4	321	+iP	14 43 56.0	0.4			
LZH	71.1	314	−iP	14 44 06.8	0.4			
			PMZ	m_b=5.7		1.5	0.18	
			PMZ	m_B=5.6		4.0	0.38	
			pP	14 44 32.0	2.9			
			sP	14 44 43.0	3.6			
			LE			17.0	0.34	
			LZ			23.0	0.53	
GTA	75.5	315	−iP	14 44 32.4	0.5			
			PMZ	m_b=5.5		1.2	0.11	
			PMZ	m_B=5.7		3.5	0.51	
			LZ			20.0	0.30	
LSA	78.4	303	−iP	14 44 47.4	−0.7			
WMQ	85.6	316	P	14 45 24.0	−1.1			
			PMZ	m_b=5.1		1.9	0.039	
			pP	14 45 49.5	1.0			
			PP	14 48 43.5	−1.6			
			SKS	14 55 32.8	−4.9			
			LZ			26.0	0.43	

OCT 2d 17h 49m 10.4±0.04s, SD1.17 / 173
10.20 S±0.73km, 161.05 E±0.87km, h95±0.16km
Solomon Islands (193)
m_B5.9 / 2, m_b5.2 / 47,

SSE	56.1	319	P	17 58 42.0	−0.6			
			PMZ	m_b=5.3		1.0	0.037	
			LZ			22.0	0.50	
GZH	57.2	306	P	17 58 52.0	1.4			
QZN	58.2	300	eP	17 58 57.0	−0.7			
			eS	18 06 57.0	6.3			
NJ2	58.2	318	+P	17 58 57.0	−0.7			
			PMZ	m_b=5.0		1.0	0.019	
			pP	17 59 21.0	0.3			
			iS	18 06 54.0	3.2			
WHN	60.4	314	+P	17 59 13.5	0.7			
			PMZ	m_b=5.1		0.5	0.012	
			pP	17 59 31.2	−4.8			
DL2	61.1	326	PMZ	17 59 11.0	−0.7			
			pP	17 59 45.0	4.4			
MDJ	61.5	335	eP	17 59 20.0	−0.3			
			PMZ	m_b=5.5		1.0	0.068	
			S	18 07 36.0	4.0			
			LZ			32.0	1.47	
TIA	62.0	321	eP	17 59 21.8	−1.4			
SNY	62.2	329	eP	17 59 23.8	−0.6			
			PMZ	m_b=5.0		0.8	0.015	
			S	18 07 43.5	3.7			
			LZ			30.0	1.48	
CN2	62.7	332	+iP	17 59 27.4	−0.9			
			PMZ	m_b=5.8		0.5	0.072	
			PMZ			3.0	0.31	
			S	18 07 50.0	3.0			
			LZ			20.0	1.19	
GYA	64.2	306	P	17 59 39.0	1.2			
			S	18 08 10.0	5.3			
BJI	65.0	323	eP	17 59 42.5	−0.5			
			PMZ	m_b=4.6		1.2	0.010	
			eS	18 08 18.0	1.8			
			LZ			22.0	0.74	
TIY	65.9	319	eP	17 59 49.6	0.9			
			S	18 08 30.0	4.4			
			LN			10.0	0.16	
			LZ			20.0	0.75	
XAN	66.2	314	P	17 59 49.5	−1.3			
			PMZ	m_b=5.1		0.7	0.020	
			pP	18 00 11.7	−2.5			
KMI	66.8	303	+P	17 59 57.0	2.3			
			PMZ	m_b=5.2		1.5	0.050	
HHC	68.3	322	P	18 00 04.0	0.2			
CD2	68.5	309	eP	18 00 05.0	0.0			
			PMZ	m_b=5.2		1.0	0.040	
			eS	18 08 52.5	−5.8			
			sS	18 09 35.0	−4.0			
GTA	75.2	315	eP	18 00 45.0	−0.1			
			PMZ	m_b=5.0		1.0	0.028	
			pP	18 01 08.4	−0.5			
			S	18 10 20.0	6.5			
			sS	18 10 55.0	−1.7			
			LZ			30.0	0.70	

LSA	78.0	303	P	18 01 01.0	−0.3			
WMQ	85.2	316	P	18 01 39.5	0.9			
			PMZ	m_b=4.6		1.0	0.0070	

OCT 2d 18h 24m 08.2±0.04s, SD2.64/8
27.57 N±0.36km, 100.81 E±0.48km, h16±0.14km
Yunnan Province (318)
M_L3.0/5,

KMI	3.0	144	ePn	18 24 56.0	0.5			
			Pg	18 24 59.5	−1.3			
			Sg	18 25 39.0	−2.6			
			SMN	M_L=3.0		1.2	0.060	
			SME			1.0	0.050	
CD2	4.2	37	ePg	18 25 22.9	0.2			
			Sg	18 26 15.0	−5.1			
			SMN	M_L=3.2		1.0	0.030	
			SME			1.2	0.050	

OCT 3d 15h 46m 14.0±0.04s, SD1.24/89
10.13 S±0.70km, 160.91 E±0.82km, h46±0.25km
Solomon Islands (193)
m_B5.4/1, m_b4.9/26,

NJ2	58.1	318	−P	15 56 05.0	−0.6			
MDJ	61.4	335	eP	15 56 27.5	−1.0			
			PMZ	m_b=5.2		1.2	0.041	
CN2	62.6	332	eP	15 56 35.4	−1.0			
			PMZ	m_b=5.3		1.4	0.050	
			PMZ	m_B=5.4		4.0	0.18	
			epP	15 56 51.0	2.4			
			LZ	M_S=4.8		20.0	0.60	
GYA	64.0	306	P	15 56 49.0	3.2			
BJI	64.8	323	eP	15 56 50.0	−1.1			
			LZ	M_S=4.7		20.0	0.48	
XAN	66.0	314	eP	15 56 58.4	−0.4			
KMI	66.6	303	−P	15 57 03.0	0.3			
			PMZ	m_b=5.2		1.4	0.040	
HHC	68.1	322	eP	15 57 12.5	0.5			
CD2	68.3	309	eP	15 57 14.8	1.7			
			PMZ	m_b=5.0		1.2	0.023	
BTO	68.9	321	eP	15 57 18.0	1.0			
LZH	70.7	314	eP	15 57 27.0	−0.7			
			PMZ	m_b=5.0		1.5	0.028	
			LZ	M_S=4.8		18.0	0.45	
GTA	75.0	315	eP	15 57 55.6	2.1			
			PMZ	m_b=4.4		1.0	0.0050	
WMQ	85.1	316	eP	15 58 45.0	−2.2			

OCT 3d 20h 20m 13.2±0.07s, SD1.46/143
17.08 S±1.09km, 167.97 E±1.04km, h31±0.24km
Vanuatu (New Hebrides) (186)
M_S5.6/21, m_B5.6/1, m_b5.0/32

QZH	63.7	310	eP	20 30 44.0	−0.6			
			eS	20 39 16.0	0.1			
			LN	M_S=5.6		16.0	1.92	
			LZ	M_S=5.4		20.0	2.49	
MDJ	70.7	332	eP	20 31 27.5	−1.0			
			PMZ	m_b=5.3		1.5	0.060	
			sP	20 31 42.0	0.5			
			LN	M_S=5.8		16.0	1.93	
			LE			14.0	1.75	
			LZ	M_S=5.5		24.0	3.02	
SNY	71.5	327	eP	20 31 33.8	0.2			
			S	20 40 50.0	1.7			
			SS	20 45 28.0	2.7			
			LN	M_S=5.6		14.0	1.28	
			LE			15.0	0.60	
			LZ	M_S=5.7		20.0	4.20	
TIA	71.5	319	eP	20 31 33.0	−0.7			
			LE	M_S=5.6		18.0	1.77	
			LZ	M_S=5.3		30.0	2.32	
CN2	72.0	329	eP	20 31 35.6	−0.8			
			PMZ	m_b=5.0		1.0	0.017	
			PMZ	m_B=5.6		5.0	0.36	
			esP	20 31 48.0	−1.5			
			LN	M_S=5.6		16.0	0.60	
			LE			16.0	1.62	
			LZ	M_S=5.6		25.0	3.85	
GYA	73.6	305	P	20 31 48.0	1.9			
BJI	74.5	321	eP	20 31 50.0	−1.2			
			PMZ	m_b=5.0		2.0	0.038	
			eS	20 41 28.0	4.5			
			eSKS	20 41 56.0	4.8			
			LN	M_S=5.9		20.0	2.46	
			LE			20.0	2.80	
			LZ	M_S=5.8		26.0	5.99	
TIY	75.4	317	eP	20 31 56.0	−0.7			
			S	20 41 28.0	−4.4			
			LN	M_S=5.9		15.0	1.01	
			LE			19.0	2.94	
			LZ	M_S=5.6		23.0	3.49	
XAN	75.8	313	eP	20 31 58.0	−0.5			
			LN	M_S=5.7		18.0	1.39	
			LE			20.0	1.82	
KMI	76.1	302	−P	20 32 03.0	2.3			
			PMZ	m_b=5.2		2.0	0.060	
			sP	20 32 12.5	−1.0			
			LZ	M_S=5.5		32.0	3.70	
HHC	77.8	320	eP	20 32 10.0	−0.1			
			LN	M_S=5.6		9.0	0.33	
			LE			11.0	0.81	
			LZ	M_S=5.6		30.0	4.67	
CD2	78.0	308	eP	20 32 12.6	1.7			
			LN	M_S=5.4		16.0	0.94	
			LZ	M_S=5.4		28.0	2.66	
BTO	78.6	319	eP	20 32 16.0	1.4			
			epP	20 32 21.0	−2.6			
			ePP	20 35 18.5	5.1			
			LN	M_S=5.5		14.0	0.68	
			LE			14.0	0.60	
LZH	80.4	312	P	20 32 26.5	2.3			
			PMZ	m_b=5.3		2.0	0.074	
			pP	20 32 33.5	0.3			
			LN	M_S=5.6		15.0	1.33	
			LZ	M_S=5.5		28.0	3.29	
GTA	84.8	314	eP	20 32 48.0	1.3			
			PMZ	m_b=5.5		1.8	0.089	
			PMZ			3.0	0.43	
			pP	20 32 57.0	1.2			
			SKS	20 43 08.0	4.2			
			LN	M_S=5.5		15.0	0.96	
			LZ	M_S=5.5		22.0	2.18	
WMQ	94.8	314	+P	20 33 35.0	0.8			
			PMZ	m_b=5.5		1.5	0.031	
			sP	20 33 51.5	4.4			
			SKS	20 44 08.0	3.3			
			S	20 44 42.0	0.5			
			sS	20 44 58.0	−0.7			
			LZ	M_S=5.7		25.0	2.97	

OCT 3d 20h 24m 22.0±0.11s, SD1.82/88
16.96 S±0.91km, 167.92 E±1.41km, h48±0.67km
Vanuatu (New Hebrides) (186)
M_S5.4/10, m_B5.6/1, m_b4.7/14

WHN	69.9	312	eP	20 35 35.0	4.4			
			LN	M_S=5.3		12.0	0.52	
			LE			10.0	0.42	

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MDJ	70.5	332	eP	20 35 32.7	−1.8			
			PMZ	m_b=5.1		1.0	0.027	
CN2	71.9	329	eP	20 35 40.0	−2.5			
			PMZ	m_b=4.7		1.0	0.011	
			PMZ	m_B=5.6		4.0	0.31	
			eS	20 45 04.0	5.5			
			LN	M_S=5.5		14.0	0.72	
			LE			14.0	0.77	
			LZ	M_S=5.7		22.0	4.26	
GYA	73.5	305	P	20 35 56.4	4.1			
			LN	M_S=5.9		20.0	3.10	
			LE			20.0	2.00	
			LZ	M_S=5.2		30.0	2.11	
BJI	74.4	321	eP	20 35 57.0	−0.3			
			LE	M_S=5.6		18.0	1.64	
			LZ	M_S=5.7		26.0	5.66	
TIY	75.3	318	eP	20 36 02.5	−0.3			
XAN	75.6	313	eP	20 36 04.9	0.3			
HHC	77.7	320	eP	20 36 15.0	−1.1			
			LZ	M_S=5.3		30.0	2.44	
CD2	77.9	308	eP	20 36 14.6	−2.5			
LZH	80.3	312	eP	20 36 30.5	0.1			
			PMZ	m_b=5.1		1.8	0.044	
			sP	20 36 48.0	0.0			
			LE	M_S=5.4		15.0	0.81	
			LZ	M_S=5.4		18.0	1.58	
GTA	84.6	314	P	20 36 52.6	−0.2			

OCT 3d 20h 43m 30.8 ± 0.06s, SD1.39 / 168
16.80 S ± 0.97km, 168.14 E ± 0.85km, h16 ± 0.23km
Vanuatu (New Hebrides) (186)
M_S5.3 / 8, m_B5.4 / 1, m_b5.2 / 40

WHN	69.9	312	eP	20 54 44.0	−0.1			
MDJ	70.5	332	eP	20 54 46.5	−0.9			
			PMZ	m_b=5.4		1.0	0.041	
CN2	71.8	329	P	20 54 54.3	−1.3			
			PMZ	m_b=4.8		1.0	0.011	
			LN	M_S=5.3		14.0	0.36	
			LE			14.0	0.62	
			LZ	M_S=5.5		18.0	2.68	
GYA	73.6	305	P	20 55 06.6	0.6			
BJI	74.4	321	eP	20 55 11.5	0.9			
TIY	75.3	317	eP	20 55 18.5	2.3			
XAN	75.7	313	P	20 55 17.5	−0.7			
			sP	20 55 28.0	0.5			
KMI	76.1	302	eP	20 55 21.5	0.8			
			PMZ	m_b=5.3		1.0	0.040	
			pP	20 55 25.2	−1.6			
HHC	77.7	320	eP	20 55 27.3	−2.2			
			LE	M_S=5.3		15.0	0.72	
CD2	77.9	308	eP	20 55 30.9	0.2			
BTO	78.5	319	eP	20 55 34.4	0.4			
LZH	80.3	312	−iP	20 55 45.0	1.2			
			PMZ	m_b=5.3		1.5	0.048	
			PMZ	m_B=5.4		8.0	0.36	
			pP	20 55 49.5	−0.5			
			sP	20 55 53.0	0.0			
GTA	84.7	314	eP	20 56 06.0	−0.4			
			PMZ	m_b=4.9		0.8	0.010	
			pP	20 56 11.4	−1.3			
			sP	20 56 15.0	−0.5			
			LE	M_S=5.3		12.0	0.42	
			LZ	M_S=5.2		22.0	1.21	
LSA	87.4	302	eP	20 56 19.0	−0.8			
WMQ	94.8	314	P	20 56 52.2	−1.7			
			PMZ	m_b=5.3		1.0	0.011	
			pP	20 56 58.0	−2.3			
			LZ	M_S=5.6		21.0	2.35	

OCT 4d 21h 44m 40.5 ± 0.05s, SD2.39 / 22
39.20 N ± 0.58km, 118.09 E ± 0.46km, h14 ± 0.23km
North-Eastern China (658)
M_L3.7 / 19,

BJI	1.7	300	Pg	21 45 08.0	−2.6			
			Sg	21 45 29.0	−4.9			
			SMN	M_L=3.5		0.5	0.55	
			SME			0.5	0.43	
DL2	2.8	95	+Pn	21 45 26.3	1.3			
			eSg	21 46 10.0	2.5			
TIA	3.1	195	Pn	21 45 29.4	0.2			
			Pg	21 45 37.2	2.3			
			Sg	21 46 17.5	0.4			
			SMN	M_L=3.6		0.4	0.21	
			SME			0.6	0.20	
TIY	4.7	253	ePn	21 45 50.7	−0.6			
			+Pg	21 46 01.4	−1.7			
			SMN	M_L=3.8		1.0	0.12	
			SME			0.6	0.16	
SNY	4.9	56	ePn	21 45 54.6	−0.1			
			Pg	21 46 12.8	5.1			
			Sg	21 47 14.0	−1.3			
			SMN	M_L=3.9		1.0	0.18	
			SME			1.0	0.099	
HHC	5.3	290	+Pg	21 46 14.2	0.4			
			Sg	21 47 20.2	−5.5			
			SMN	M_L=3.6		1.0	0.076	
			SME			0.7	0.064	
BTO	6.4	285	ePg	21 46 31.8	−1.2			
			Sg	21 47 53.0	−6.8			
			SMN	M_L=3.3		0.8	0.030	
			SME			0.8	0.010	
CN2	7.2	48	+Pg	21 46 50.2	2.7			
			eSg	21 48 23.0	−2.6			
			SMN	M_L=4.1		0.7	0.076	
			SME			0.7	0.079	

OCT 5d 05h 58m 50.1 ± 0.06s, SD1.07 / 51
19.10 S ± 0.93km, 172.96 W ± 0.64km, h33 ± 0.21km
Tonga (173)
m_b4.9 / 18,

CN2	84.2	320	eP	06 11 19.5	−0.7			
			PMZ	m_b=4.9		1.0	0.013	
			epP	06 11 30.0	0.2			
			LZ	M_S=5.1		15.0	0.58	
SNY	84.3	318	eP	06 11 20.0	−0.7			
WHN	85.5	304	eP	06 11 27.5	0.7			
BJI	88.3	313	eP	06 11 41.0	0.6			
			PMZ	m_b=5.0		1.4	0.018	
TIY	89.9	310	eP	06 11 49.0	0.7			
GYA	90.1	298	P	06 11 51.0	1.8			
			PMZ	m_b=5.2		1.4	0.021	
HHC	91.8	313	+P	06 11 58.0	0.9			
BTO	92.8	312	eP	06 12 03.0	1.4			

OCT 5d 07h 24m 26.8 ± 0.04s, SD1.03 / 265
52.19 N ± 1.19km, 169.33 W ± 0.54km, h33 ± 0.12km
Fox Islands (9)
M_S5.1 / 18, m_b5.3 / 111,

CN2	43.1	286	P	07 32 25.0	−1.0			
			PMZ	m_b=5.0		1.0	0.023	
			epP	07 32 33.0	−2.3			
			eScS	07 42 20.0	−0.8			
			LN	M_S=5.1		17.0	1.20	
			LE			17.0	0.64	
			LZ	M_S=5.4		18.0	4.66	
SNY	45.4	285	+P	07 32 44.0	−0.3			

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			PMZ		$m_b = 5.1$	1.2	0.032
			LE		$M_S = 5.0$	17.0	1.05
			LZ		$M_S = 5.0$	16.0	1.53
BJI	50.9	287	eP	07 33 27.0	0.0		
			PMZ		$m_b = 4.7$	0.7	0.0070
			eS	07 40 36.0	−4.0		
			LZ		$M_S = 5.2$	16.0	1.75
TIA	52.8	283	−P	07 33 41.9	0.2		
HHC	53.0	291	+P	07 33 43.6	0.2		
			PMZ		$m_b = 5.2$	1.0	0.032
			LN		$M_S = 4.9$	19.0	0.75
			LZ		$M_S = 5.0$	22.0	1.68
SSE	53.8	276	−P	07 33 49.6	0.2		
			PMZ		$m_b = 5.5$	1.0	0.064
			pP	07 34 01.0	2.2		
			S	07 41 24.0	4.3		
			LN		$M_S = 4.8$	14.0	0.40
			LZ		$M_S = 4.6$	20.0	0.50
BTO	54.1	292	P	07 33 51.0	−0.1		
			epP	07 33 59.0	−1.5		
			LN		$M_S = 5.4$	17.0	0.80
			LE			17.0	1.63
TIY	54.6	288	eP	07 33 54.5	−0.4		
			S	07 41 36.0	6.3		
			LE		$M_S = 5.2$	20.0	1.47
			LZ		$M_S = 5.0$	20.0	1.25
NJ2	54.6	278	+P	07 33 54.5	−0.4		
			PMZ		$m_b = 5.6$	0.9	0.069
			ScP	07 38 54.0	2.8		
			LZ		$M_S = 4.6$	20.0	0.53
WHN	58.4	280	+iP	07 34 22.0	0.0		
			PMZ		$m_b = 5.6$	1.0	0.077
			pP	07 34 35.0	3.5		
XAN	59.2	287	P	07 34 26.7	−0.9		
			PMZ		$m_b = 5.1$	1.0	0.022
			pP	07 34 37.0	0.0		
			sP	07 34 43.5	2.6		
			S	07 42 36.0	5.6		
			LE		$M_S = 5.1$	14.0	0.68
GTA	60.6	297	+P	07 34 36.0	−1.4		
			PMZ		$m_b = 5.0$	0.8	0.017
			pP	07 34 46.0	−0.6		
LZH	60.7	292	+P	07 34 37.6	−0.4		
			PMZ		$m_b = 5.5$	1.5	0.090
			pP	07 34 44.0	−3.2		
			LN		$M_S = 5.4$	16.0	1.47
			LZ		$M_S = 5.2$	18.0	1.73
WMQ	63.7	308	−P	07 34 57.5	−0.4		
			PMZ		$m_b = 5.2$	1.0	0.028
			PcP	07 35 33.0	0.1		
			ScS	07 44 49.0	5.0		
			LZ		$M_S = 5.2$	16.0	1.26
CD2	64.4	288	eP	07 35 02.3	−0.7		
			PMZ		$m_b = 5.7$	1.2	0.12
			eS	07 43 43.0	4.6		
			LZ		$M_S = 4.6$	22.0	0.48
GYA	66.0	283	+iP	07 35 13.0	0.0		
			PMZ		$m_b = 5.5$	1.0	0.060
			pP	07 35 23.8	1.4		
			PcP	07 35 43.0	0.5		
			S	07 44 00.0	4.1		
			sS	07 44 13.0	0.0		
			LN		$M_S = 5.5$	18.0	1.12
			LE			18.0	1.30
			LZ		$M_S = 4.9$	22.0	0.81
KMI	69.3	285	+P	07 35 35.0	1.1		
			PMZ		$m_b = 5.6$	1.5	0.11
			pP	07 35 41.0	−2.2		
LSA	72.6	296	eP	07 35 54.0	0.3		
			eS	07 45 16.0	0.4		

OCT 5d 07h 32m 40.9 ± 0.05s, SD1.21 / 58
0.70 N ± 0.46km, 121.22 E ± 0.77km, h106 ± 0.48km
Minahassa Peninsula (Celebes) (265)
m_b5.0 / 19,

GZH	23.5	342	+P	07 37 43.5	1.0		
CD2	34.3	333	eP	07 39 19.0	−0.6		
XAN	35.1	342	P	07 39 26.0	−0.4		
TIY	37.7	349	eP	07 39 47.4	−0.9		
LZH	38.7	337	eP	07 39 58.0	1.1		
			PMZ		$m_b = 4.9$	2.0	0.040
LSA	40.6	318	+iP	07 40 14.0	1.1		
HHC	40.9	349	P	07 40 15.6	0.8		
			LN			17.0	0.63
BTO	41.0	347	eP	07 40 15.5	0.0		
SNY	41.0	3	+P	07 40 15.0	−0.4		
GTA	43.2	336	−P	07 40 34.3	0.6		
			PMZ		$m_b = 4.8$	1.4	0.019
			pP	07 40 56.0	−1.6		
			LE			16.0	1.30
			LZ			20.0	1.83
MDJ	44.4	9	eP	07 40 42.2	−0.6		
			LZ			24.0	1.51
WMQ	52.3	330	P	07 41 44.8	0.6		
			PMZ		$m_b = 4.9$	1.0	0.015

OCT 5d 13h 09m 33.8 ± 0.03s, SD0.89 / 88
24.70 S ± 0.42km, 179.97 E ± 0.48km, h500 ± 0.18km
South of Fiji (171)
m_b4.9 / 41,

MDJ	82.9	326	eP	13 21 07.5	0.2		
WHN	83.5	308	eP	13 21 10.5	0.5		
CN2	84.5	324	−P	13 21 15.0	−0.2		
			PMZ		$m_b = 4.9$	1.4	0.049
TIA	84.8	314	−P	13 21 15.6	−0.8		
TIY	88.7	313	−P	13 21 35.8	0.5		
XAN	89.2	308	P	13 21 38.5	0.9		
			PMZ		$m_b = 4.7$	0.8	0.011
CD2	91.5	303	eP	13 21 47.0	−1.1		
			PMZ		$m_b = 5.1$	1.0	0.028
GTA	98.2	310	eP	13 22 18.6	−0.1		

OCT 6d 01h 46m 47.0 ± 0.04s, SD1.25 / 167
41.12 N ± 0.71km, 43.40 E ± 0.40km, h18 ± 0.16km
Turkey (366)
M_S5.2 / 15, m_B5.8 / 2, m_b4.9 / 37

KSH	24.8	83	−P	01 52 12.0	2.4		
			sP	01 52 22.0	2.8		
WMQ	32.5	70	P	01 53 19.0	−0.4		
			PMZ		$m_b = 4.9$	1.0	0.021
			PMZ		$m_B = 5.3$	4.0	0.19
			LN		$M_S = 5.3$	14.0	3.03
			LZ		$M_S = 5.2$	16.0	3.92
GTA	42.4	73	eP	01 54 43.0	−0.1		
			PMZ		$m_b = 4.8$	1.2	0.021
			LN		$M_S = 5.1$	14.0	1.30
			LZ		$M_S = 5.1$	16.0	1.97
LZH	46.7	76	eP	01 55 18.5	1.3		
			PMZ		$m_b = 5.2$	1.5	0.060
			LN		$M_S = 5.3$	14.0	1.43
			LE			14.0	0.89
			LZ		$M_S = 5.0$	15.0	1.26
CD2	49.0	82	P	01 55 36.2	1.0		
			LZ		$M_S = 4.7$	16.0	0.70
BTO	49.2	67	eP	01 55 39.0	1.9		
			esP	01 55 48.0	1.2		

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			LN		$M_S = 5.1$		13.0	0.50
			LE				13.0	0.76
			LZ		$M_S = 4.9$		17.0	1.10
HHC	50.2	66	eP	01 55 45.0		0.4		
			LN		$M_S = 5.3$		9.0	0.65
			LE				9.0	0.73
			LZ		$M_S = 5.1$		10.0	0.95
KMI	51.2	89	+P	01 55 53.0		0.4		
XAN	51.3	75	eP	01 55 53.0		0.1		
			LN		$M_S = 5.3$		14.0	1.06
			LE				13.0	0.88
TIY	52.2	70	eP	01 55 59.4		0.1		
			S	02 03 22.0		1.5		
			LN		$M_S = 5.0$		11.0	0.58
			LZ		$M_S = 5.1$		17.0	1.44
GYA	53.5	85	P	01 56 09.0		−0.2		
			PMZ		$m_b = 4.8$		1.2	0.017
BJI	53.7	65	eP	01 56 10.0		−0.9		
			LN		$M_S = 5.0$		12.0	0.62
			LZ		$M_S = 4.8$		18.0	0.77
WHN	57.0	76	eP	01 56 36.5		1.6		
			pP	01 56 42.5		0.7		
			LN		$M_S = 5.3$		16.0	0.97
			LE				14.0	0.92
			LZ		$M_S = 4.9$		18.0	0.84
NJ2	59.5	72	eP	01 56 55.0		2.7		
			LZ		$M_S = 4.8$		18.0	0.65

OCT 6d 07h 51m 33.4 ± 0.05s, SD1.81 / 54
16.76 S ± 1.33km, 168.10 E ± 1.26km, h22 ± 0.28km
Vanuatu (New Hebrides) (186)
M_S5.1 / 2, m_b5.0 / 8,

CN2	71.8	329	eP	08 02 54.6		−2.3		
			LZ		$M_S = 5.2$		19.0	1.35
BJI	74.3	321	eP	08 03 13.0		1.1		
			eS	08 12 42.0		−2.0		
			eSKS	08 13 16.0		3.5		
			eSS	08 17 26.0		−4.8		
			LZ		$M_S = 5.2$		26.0	1.53
TIY	75.3	317	eP	08 03 18.0		0.5		
			eP	08 03 18.7		2.2		
			LZ		$M_S = 5.0$		18.0	0.73
LZH	80.3	312	eP	08 03 47.5		2.3		
			PMZ		$m_b = 5.0$		2.0	0.035
			pP	08 03 56.0		3.5		
			LE		$M_S = 5.0$		10.0	0.22
			LZ		$M_S = 5.0$		28.0	0.92
GTA	84.6	314	eP	08 04 06.8		−0.9		
			PMZ		$m_b = 5.0$		1.4	0.019
			pP	08 04 13.0		−2.1		
			LE		$M_S = 5.2$		14.0	0.47
WMQ	94.7	314	eP	08 04 54.0		−1.3		

OCT 6d 09h 48m 56.2 ± 0.05s, SD2.32 / 25
37.89 N ± 0.65km, 101.61 E ± 0.47km, h10 ± 0.06km
Qinghai Province (325)
M_S4.1 / 5, M_L4.2 / 10,

GTA	2.1	318	Pg	09 49 32.0		−1.1		
			Sg	09 49 58.7		−2.5		
			SMN		$M_L = 3.9$		0.4	1.05
			SME				0.4	0.76
			LE				7.5	2.97
			LZ				8.0	2.71
LZH	2.5	134	Pn	09 49 41.0		3.0		
			Pg	09 49 44.5		3.5		
			Sn	09 50 15.0		4.4		
			Sg	09 50 18.0		2.4		
			SMN		$M_L = 4.2$		1.0	1.46
			SME				1.0	0.94
			LN				5.0	0.98
			LZ				9.0	1.47
BTO	7.1	65	ePn	09 50 42.9		2.7		
			Sg	09 52 38.6		1.1		
			SMN		$M_L = 3.7$		0.8	0.050
			SME				0.8	0.020
HHC	8.3	66	P	09 50 59.4		0.1		
			SMN		$M_L = 4.5$		0.8	0.14
			SME				1.0	0.10
TIY	8.6	88	+P	09 51 04.7		1.1		
			SMN		$M_L = 4.8$		1.2	0.26
			SME				1.0	0.12
			LE		$M_S = 4.1$		9.0	1.03
			LZ		$M_S = 4.1$		11.0	1.11
WMQ	12.1	304	P	09 51 56.0		4.3		
			LZ		$M_S = 3.6$		14.0	0.37
WHN	12.8	121	eP	09 52 01.0		−0.7		
CN2	18.9	64	eP	09 53 19.4		−0.8		

OCT 6d 10h 12m 52.2 ± 0.04s, SD1.01 / 117
51.13 N ± 1.35km, 176.53 W ± 0.48km, h32 ± 0.07km
Andreanof Islands (7)
M_S4.9 / 2, m_b5.0 / 50,

MDJ	36.0	281	eP	10 19 51.0		−1.7		
CN2	39.0	283	eP	10 20 17.0		−0.6		
			PMZ		$m_b = 4.6$		1.0	0.011
			LZ		$M_S = 4.7$		20.0	1.19
SNY	41.2	281	+P	10 20 37.0		0.9		
			PMZ		$m_b = 5.4$		1.2	0.070
BJI	46.8	284	eP	10 21 22.0		0.8		
			PMZ		$m_b = 5.1$		1.0	0.027
			LZ		$M_S = 4.3$		16.0	0.29
TIA	48.6	279	eP	10 21 35.2		0.0		
HHC	49.1	288	eP	10 21 39.8		0.5		
			PMZ		$m_b = 5.4$		1.2	0.056
SSE	49.4	271	P	10 21 41.0		−0.4		
			PMZ		$m_b = 4.9$		1.0	0.015
			LZ		$M_S = 4.5$		20.0	0.50
BTO	50.2	288	P	10 21 49.0		1.4		
NJ2	50.2	274	−P	10 21 48.0		0.2		
TIY	50.6	284	+P	10 21 51.3		1.1		
			PMZ		$m_b = 5.5$		1.2	0.070
			LZ		$M_S = 4.8$		16.0	0.83
XAN	55.1	283	eP	10 22 19.5		−4.6		
			PMZ		$m_b = 4.9$		1.0	0.015
LZH	56.8	288	eP	10 22 37.0		0.4		
			PMZ		$m_b = 5.6$		1.4	0.11
			pP	10 22 50.5		4.7		
			LE		$M_S = 4.7$		10.0	0.22
			LZ		$M_S = 4.8$		18.0	0.74
GTA	57.0	293	+P	10 22 36.8		−0.9		
			PMZ		$m_b = 5.6$		0.8	0.063
CD2	60.4	283	P	10 23 01.2		−0.3		
			PMZ		$m_b = 5.5$		1.0	0.061
WMQ	60.7	304	P	10 23 02.5		−0.7		
			PMZ		$m_b = 4.8$		0.8	0.0090
			LZ		$M_S = 4.9$		19.0	0.84
GYA	61.8	278	P	10 23 10.6		−0.1		

OCT 6d 10h 50m 44.2 ± 0.07s, SD1.86 / 86
21.35 N ± 0.92km, 104.21 E ± 0.64km, h10 ± 0.10km
Indo-Pacific Peninsula (299)
M_S5.3 / 34, M_L5.1 / 7, m_B5.0 / 2,

KMI	4.0	341	Pn	10 51 48.0		1.7		
			Sn	10 52 31.0		−4.2		
			Sg	10 52 46.0		−3.8		
			LN		$M_S = 5.3$		4.0	7.20

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			LE				4.0	15.7
GYA	5.6	23	+iPn	10	52	10.0	2.5		
			PMZ			$m_b = 4.7$		0.8	0.084
			Sn	10	53	10.0	−3.4		
			Sg	10	53	39.0	0.8		
			LN			$M_S = 5.8$		6.0	23.2
			LE					6.0	54.8
QZN	5.8	113	ePn	10	52	11.4	1.1		
			PMZ			$m_b = 4.8$		0.7	0.089
			eSn	10	53	15.0	−3.8		
			LN			$M_S = 4.7$		11.0	6.71
			LE					9.0	3.27
GZH	8.6	77	+P	10	52	51.4	−1.0		
			PMZ			$m_b = 5.3$		0.8	0.11
			S	10	54	37.4	6.8		
			SMN			$M_L = 5.8$		1.2	2.85
			SME					1.2	1.62
			LN			$M_S = 5.3$		6.0	7.42
			LE					7.0	8.70
			LZ			$M_S = 5.2$		6.0	9.29
CD2	9.5	358	P	10	53	03.0	−1.8		
			PMZ			$m_b = 5.0$		0.7	0.043
			LE			$M_S = 5.5$		8.0	16.7
			LZ			$M_S = 4.9$		10.0	5.72
WHN	12.9	43	eP	10	53	49.0	−1.8		
XAN	13.3	17	P	10	53	53.5	−2.6		
			sP	10	54	08.0	4.1		
			S	10	56	21.6	−3.1		
			LN			$M_S = 5.5$		14.0	8.87
			LE					12.0	12.8
LSA	14.4	308	eP	10	54	12.0	0.8		
LZH	14.7	359	eP	10	54	12.5	−1.9		
			PMZ			$m_b = 5.1$		1.5	0.054
			PP	10	54	22.0	−3.5		
			eS	10	56	57.5	−0.9		
			SS	10	57	10.0	−4.3		
			LN			$M_S = 5.3$		10.0	2.62
			LE					10.0	6.88
			LZ			$M_S = 4.6$		10.0	1.70
TIY	17.8	22	−P	10	54	54.0	0.0		
			LN			$M_S = 5.3$		11.0	4.13
			LE					14.0	6.06
			LZ			$M_S = 4.7$		13.0	2.40
GTA	18.4	349	−P	10	55	01.2	−0.3		
			PMZ			$m_b = 4.8$		1.0	0.042
			LE			$M_S = 4.8$		10.0	1.59
			LZ			$M_S = 4.5$		15.0	1.51
TIA	18.6	35	eP	10	55	04.9	0.9		
			S	10	58	30.0	2.0		
			LN			$M_S = 5.1$		11.0	1.75
			LE					11.0	3.33
BTO	19.8	13	P	10	55	17.5	−0.7		
			PMZ			$m_b = 4.8$		1.2	0.050
			LN			$M_S = 5.2$		9.0	3.18
			LE					9.0	1.49
			LZ			$M_S = 4.4$		10.0	0.88
HHC	20.4	16	P	10	55	25.4	0.8		
			PMZ			$m_b = 4.6$		1.3	0.034
			LN			$M_S = 5.4$		10.0	3.23
			LE					10.0	4.34
			LZ			$M_S = 5.1$		10.0	3.43
BJI	21.2	26	eP	10	55	34.5	1.5		
			PMZ			$m_b = 4.5$		1.4	0.029
			LE			$M_S = 4.9$		11.0	2.20
			LZ			$M_S = 4.6$		16.0	1.75
WMQ	26.3	332	P	10	56	23.0	1.0		
			PMZ			$m_b = 4.4$		1.4	0.013
			PP	10	57	06.3	2.9		
			PcP	10	59	47.0	−1.2		
			S	11	00	49.0	−2.6		
			PcS	11	03	27.6	−0.4		
			LN			$M_S = 4.9$		10.0	1.17
			LZ			$M_S = 4.6$		12.0	1.06
CN2	28.5	33	eP	10	56	42.0	−0.2		

OCT 6d 12h 18m 12.2 ± 0.05s, SD2.26 / 33
37.82 N ± 0.56km, 101.46 E ± 0.44km, h9 ± 0.02km
Qinghai Province (325)
M_S4.1 / 4, M_L4.2 / 11, m_b4.1 / 2

GTA	2.1	321	Pg	12	18	49.9	1.2		
			Sg	12	19	16.0	−0.5		
			SME			$M_L = 3.8$		0.6	0.68
			LE					7.5	4.21
			LZ					10.0	3.40
LZH	2.6	131	+Pn	12	18	58.0	3.4		
			Pg	12	19	02.0	4.4		
			Sg	12	19	35.0	2.2		
			SMN			$M_L = 4.2$		1.2	1.65
			SME					1.0	1.03
			LN					4.0	1.47
			LZ					10.0	1.97
XAN	7.1	120	ePn	12	19	58.6	1.6		
			Pg	12	20	21.5	3.5		
			Sg	12	21	53.0	−2.4		
			SMN			$M_L = 3.9$		1.0	0.056
			SME					1.1	0.053
BTO	7.2	65	ePn	12	20	01.0	2.9		
			Sg	12	21	56.9	−0.8		
			SMN			$M_L = 3.9$		0.9	0.080
			SME					0.9	0.020
HHC	8.4	66	P	12	20	16.2	−1.0		
			SMN			$M_L = 4.6$		1.0	0.16
			SME					1.0	0.13
TIY	8.7	87	eP	12	20	21.8	0.5		
			SMN			$M_L = 4.9$		1.2	0.31
			SME					1.0	0.15
			LE			$M_S = 4.0$		9.0	0.80
			LZ			$M_S = 4.1$		11.0	1.24
WMQ	12.0	304	eP	12	21	09.5	2.5		
			SME					1.5	9.21
			LZ			$M_S = 3.6$		14.0	0.37
GYA	12.1	157	P	12	21	10.6	1.8		
			LN			$M_S = 4.1$		10.0	0.31
			LE					10.0	0.56

OCT 6d 15h 30m 27.4 ± 0.04s, SD2.31 / 8
38.17 N ± 0.53km, 101.65 E ± 0.37km, h10 ± km
Qinghai Province (325)
M_L3.6 / 7,

LZH	2.7	139	Pg	15	31	14.0	−1.7		
			Sn	15	31	44.0	−2.5		
			SMN			$M_L = 3.6$		1.2	0.39
			SME					1.2	0.24
			LN					5.0	0.42
			LZ					6.0	0.43

OCT 6d 16h 48m 20.9 ± 0.04s, SD1.23 / 308
7.32 S ± 0.79km, 74.80 W ± 1.05km, h142 ± 0.11km
Northern Peru (111)
m_b5.4 / 73,

MDJ	137.2	334	ePKP	17	07	26.7	−1.8		
CN2	139.6	337	ePKP	17	07	33.6	0.8		
DL2	145.2	337	+PKP	17	07	42.6	−0.1		
BJI	146.0	345	ePKP	17	07	44.5	0.5		
HHC	146.1	351	PKP	17	07	46.2	1.8		
			pPKP	17	08	25.0	4.2		

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BTO	146.6	353	+iPKP	17 07 47.5	2.4			
GTA	147.7	8	PKP	17 07 48.4	1.4			
TIY	149.0	349	ePKP	17 07 50.0	0.9			
TIA	149.3	341	ePKP	17 07 50.6	1.2			
LZH	151.3	2	ePKP	17 07 54.5	1.8			
SSE	152.0	330	PKP	17 07 54.0	0.5			
NJ2	152.3	334	PKP	17 07 55.0	1.1			
XAN	153.2	353	PKP	17 07 56.2	1.0			
LSA	154.1	29	−iPKP	17 07 58.0	1.1			
CD2	156.5	3	PKP	17 08 01.5	1.9			
GYA	160.9	356	PKP	17 08 06.6	1.7			

OCT 6d 18h 03m 29.7 ± 0.04s, SD1.11 / 35
17.66 N ± 0.73km, 119.20 E ± 0.62km, h34 ± 0.19km
Philippine Islands region (248)
M_S4.2 / 2, m_b4.4 / 9,

QZN	9.0	280	eP	18 05 37.6	−2.7			
			LN	M_S = 3.9		9.0	0.50	
TIA	18.6	355	P	18 07 46.3	0.2			
XAN	18.7	333	P	18 07 48.0	−0.1			
CD2	19.3	316	eP	18 07 53.8	−0.5			
BJI	22.5	354	eP	18 08 28.5	1.2			
			PMZ	m_b = 4.5		1.5	0.035	
HHC	24.0	346	P	18 08 44.8	2.0			
CN2	26.6	10	eP	18 09 07.0	0.0			
GTA	27.4	326	P	18 09 15.0	0.0			
			PMZ	m_b = 4.4		1.0	0.0090	
			pP	18 09 26.0	2.0			
			LE	M_S = 4.5		6.0	0.28	
			LZ	M_S = 4.2		10.0	0.32	
MDJ	28.3	16	eP	18 09 22.0	−0.1			
LSA	28.3	300	P	18 09 23.0	0.2			

OCT 6d 19h 52m 06.7 ± 0.04s, SD1.46 / 40
59.06 S ± 1.01km, 25.56 W ± 0.87km, h33 ± 0.03km
South Sandwich Islands region (153)
m_b5.0 / 9,

GTA	140.6	95	ePKP	20 11 34.0	−0.4			
TIY	145.7	110	ePKP	20 11 43.0	−0.1			
TIA	146.7	117	ePKP	20 11 46.7	2.0			
BTO	146.7	104	ePKP	20 11 46.4	1.5			
HHC	147.7	105	ePKP	20 11 44.4	−2.0			
BJI	149.3	111	ePKP	20 11 52.5	3.6			

OCT 6d 23h 25m 21.5 ± 0.05s, SD1.83 / 23
37.79 N ± 0.44km, 115.21 E ± 0.44km, h18 ± 0.17km
North−Eastern China (658)
M_L3.8 / 21,

TIA	2.2	135	Pn	23 25 59.0	1.2			
			Pg	23 26 03.6	3.1			
			Sg	23 26 33.1	2.4			
			SME	M_L = 3.6		0.6	0.38	
TIY	2.2	269	−iPg	23 26 00.9	0.2			
			Sg	23 26 29.8	−0.9			
			SMN	M_L = 3.7		0.7	0.28	
			SME			0.8	0.71	
BJI	2.4	18	Pn	23 25 59.0	−1.0			
			Pg	23 26 02.5	−0.9			
			Sg	23 26 31.0	−4.8			
			SMN	M_L = 3.6		0.5	0.47	
			SME			0.5	0.36	
HHC	4.2	318	Pg	23 26 36.2	1.0			
			Sg	23 27 27.0	−4.9			
			SMN	M_L = 4.0		0.6	0.31	
			SME			0.6	0.25	
BTO	4.9	306	Pg	23 26 49.8	1.3			
			SMN	M_L = 3.6		0.9	0.080	
			SME			0.9	0.060	
XAN	6.3	236	ePn	23 26 52.0	−2.6			
			Pg	23 27 14.0	0.7			
			Sg	23 28 34.2	−5.7			
			SME	M_L = 3.7		1.0	0.043	

OCT 7d 00h 43m 45.2 ± 0.09s, SD4.41 / 7
40.43 N ± 1.15km, 104.47 E ± 0.70km, h18 ± km
Northern China (323)
M_L3.3 / 7,

GTA	3.7	256	Pn	00 44 42.0	−0.5			
			Pg	00 44 50.4	−0.5			
			Sn	00 45 25.0	−2.7			
			SMN	M_L = 3.0		0.6	0.040	
			SME			0.6	0.034	
HHC	5.4	83	ePn	00 45 00.8	−4.9			
			Sg	00 46 38.8	4.0			
			SMN	M_L = 3.3		0.4	0.031	
			SME			0.4	0.029	

OCT 7d 10h 38m 30.9 ± 0.04s, SD1.57 / 114
33.68 N ± 0.74km, 141.05 E ± 0.84km, h50 ± 0.34km
South of Honshu (211)
M_S4.3 / 2, m_b4.8 / 22,

MDJ	14.1	324	eP	10 41 48.5	−0.8			
			PMZ	m_b = 5.1		1.0	0.032	
CN2	15.8	314	eP	10 42 10.0	−1.7			
TIY	23.5	288	eP	10 43 39.0	1.1			
			LE	M_S = 4.3		11.0	0.38	
			LZ	M_S = 4.4		12.0	0.72	
HHC	24.5	296	eP	10 43 46.4	−0.4			
BTO	25.6	295	eP	10 43 58.4	0.8			
XAN	26.6	280	eP	10 44 07.6	0.4			
GYA	30.5	266	eP	10 44 43.0	0.8			
CD2	31.5	275	P	10 44 49.0	−2.1			
GTA	33.4	292	P	10 45 07.5	0.1			
			PMZ	m_b = 4.6		0.6	0.0060	
WMQ	42.2	300	P	10 46 21.0	0.1			
			pP	10 46 30.0	−3.1			

OCT 7d 10h 44m 26.7 ± 0.09s, SD3.22 / 13
42.82 N ± 0.84km, 127.03 E ± 0.72km, h12 ± 0.07km
North−Eastern China (658)
M_L3.5 / 12,

CN2	1.5	311	−iPg	10 44 50.4	−3.2			
			eSg	10 45 07.8	−6.6			
			SMN	M_L = 3.5		0.3	0.68	
			SME			0.3	0.48	
MDJ	2.6	45	Pg	10 45 12.0	−0.4			
			Sg	10 45 47.0	−0.7			
			SMN	M_L = 3.6		0.5	0.35	
			SME			0.5	0.26	
SNY	2.7	250	+iPg	10 45 13.0	−2.2			
			Sg	10 45 48.0	−4.8			
			SMN	M_L = 3.8		0.4	0.32	
			SME			0.4	0.55	

OCT 7d 11h 28m 49.3 ± 0.05s, SD1.44 / 97
3.34 N ± 0.67km, 125.76 E ± 0.85km, h115 ± 0.34km
Talaud Islands (263)
m_b4.9 / 28,

WHN	29.1	339	P	11 34 43.7	1.9			
KMI	31.0	317	eP	11 34 58.5	−0.1			
			PMZ	m_b = 5.1		1.5	0.050	
XAN	34.3	335	P	11 35 26.4	−0.9			
			PMZ	m_b = 4.8		0.7	0.011	
CD2	34.4	325	P	11 35 27.8	0.0			
TIY	36.3	342	eP	11 35 44.3	0.1			
BJI	37.5	348	eP	11 35 54.0	−0.3			

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			PMZ		$m_b = 4.7$	1.0	0.013
LZH	38.4	331	eP	11 36 02.0	0.7		
			PMZ		$m_b = 5.2$	1.5	0.071
			pP	11 36 27.5	0.7		
			LN			7.0	0.23
			LZ			14.0	1.24
SNY	38.4	357	−P	11 36 01.7	0.5		
			PMZ		$m_b = 4.7$	0.8	0.010
HHC	39.5	343	eP	11 36 10.6	0.1		
CN2	40.3	360	eP	11 36 17.4	0.3		
MDJ	41.2	4	−iP	11 36 25.6	0.7		
			PMZ		$m_b = 5.6$	0.9	0.083
			pP	11 36 52.0	1.3		
LSA	42.0	312	eP	11 36 30.4	−1.0		
GTA	42.9	330	P	11 36 39.0	0.0		
			PMZ		$m_b = 4.7$	1.0	0.014
			pP	11 37 03.6	−1.1		
			PcP	11 38 28.8	1.4		
			ScP	11 42 06.6	0.3		
			ScS	11 46 25.0	0.5		
WMQ	52.5	326	+P	11 37 52.5	−0.7		
			PMZ		$m_b = 5.0$	0.7	0.013

OCT 7d 19h 56m 20.8 ± 0.05s, SD1.39 / 129
10.50 S ± 0.75km, 117.21 E ± 1.05km, h50 ± 0.03km
South of Sumbawa (291)
M_S5.2 / 26, m_B5.6 / 9, m_b5.2 / 49

GZH	33.6	354	eP	20 03 00.0	1.2		
			LZ		$M_S = 4.8$	18.0	1.82
GYA	38.1	345	P	20 03 38.0	0.5		
			PMZ		$m_b = 4.9$	1.2	0.023
			PMZ			3.0	0.55
			PP	20 05 05.0	−2.8		
			S	20 09 28.0	2.5		
			LN		$M_S = 5.3$	18.0	2.76
			LE			18.0	2.12
			LZ		$M_S = 4.7$	20.0	1.25
WHN	40.9	356	eP	20 04 01.5	1.3		
			pP	20 04 13.6	1.0		
			eS	20 10 10.0	2.1		
			LZ		$M_S = 4.9$	20.0	1.60
SSE	41.5	5	+P	20 04 06.0	0.6		
			PMZ		$m_B = 5.6$	10.0	1.00
			pP	20 04 18.5	0.7		
			LN		$M_S = 5.0$	14.0	1.10
			LZ		$M_S = 4.8$	20.0	1.40
NJ2	42.3	2	+P	20 04 13.0	0.9		
			PMZ		$m_b = 5.4$	1.0	0.064
			pP	20 04 23.0	−1.5		
			S	20 10 30.0	1.8		
			LZ		$M_S = 4.7$	18.0	0.88
CD2	43.2	343	P	20 04 18.6	−0.2		
			PMZ		$m_b = 5.3$	1.0	0.051
			S	20 10 38.0	−2.0		
			LE		$M_S = 5.3$	16.0	2.34
			LZ		$M_S = 5.0$	18.0	1.82
XAN	45.0	350	eP	20 04 32.4	−1.2		
			pP	20 04 45.0	−1.0		
			S	20 11 06.0	−0.6		
			LN		$M_S = 5.2$	13.0	0.91
			LE			16.0	1.44
TIA	46.5	360	−P	20 04 45.1	−0.1		
			eS	20 11 23.0	−5.7		
			LZ		$M_S = 4.9$	20.0	1.53
LSA	47.2	329	+iP	20 04 50.6	−0.9		
			S	20 11 38.0	−0.1		
LZH	48.0	345	eP	20 04 57.5	−0.2		
			PMZ		$m_b = 5.2$	1.5	0.045
			PMZ		$m_B = 5.2$	12.0	0.66
			pP	20 05 10.0	0.0		
			sP	20 05 17.0	1.7		
			PcP	20 06 27.5	3.2		
			PP	20 06 48.0	−0.2		
			ScP	20 10 09.0	−3.8		
			PcS	20 10 20.0	1.5		
			eS	20 11 50.0	−1.2		
			sS	20 12 10.0	−2.3		
			LN		$M_S = 5.3$	15.0	1.69
			LZ		$M_S = 5.1$	17.0	1.82
TIY	48.2	355	+P	20 04 57.4	−1.3		
			S	20 11 52.0	0.2		
			LN		$M_S = 5.2$	15.0	1.21
			LZ		$M_S = 5.1$	17.0	1.68
DL2	49.3	5	eP	20 05 06.5	−1.0		
BJI	50.3	359	eP	20 05 14.0	−0.9		
			PMZ		$m_b = 5.3$	1.3	0.052
			ePcP	20 06 36.0	3.6		
			eS	20 12 21.0	−1.4		
			LN		$M_S = 5.1$	17.0	1.24
			LZ		$M_S = 5.0$	22.0	1.86
BTO	51.3	353	P	20 05 22.0	−0.5		
			PMZ		$m_b = 5.1$	1.4	0.035
			LN		$M_S = 5.1$	14.0	0.80
			LE			15.0	0.60
			LZ		$M_S = 4.9$	15.0	0.90
HHC	51.4	355	+P	20 05 22.8	−0.3		
			PMZ		$m_b = 5.0$	1.2	0.022
			pP	20 05 33.0	−2.5		
			S	20 12 39.0	2.9		
			LN		$M_S = 5.1$	12.0	0.41
			LE			12.0	0.68
			LZ		$M_S = 5.7$	20.0	7.94
GTA	52.2	343	+iP	20 05 30.0	0.3		
			PMZ		$m_b = 5.2$	1.2	0.034
			PMZ		$m_B = 5.6$	5.0	0.41
			pP	20 05 41.0	−1.2		
			PP	20 07 26.0	−1.9		
			S	20 12 50.0	2.0		
			LE		$M_S = 5.4$	15.0	1.64
			LZ		$M_S = 5.1$	18.0	1.75
SNY	52.4	6	+iP	20 05 28.0	−2.8		
			PMZ		$m_b = 5.0$	1.4	0.025
			S	20 12 53.0	2.7		
			LZ		$M_S = 4.9$	22.0	1.19
CN2	54.6	7	eP	20 05 45.0	−1.8		
			pP	20 05 56.0	−3.5		
			LZ		$M_S = 5.0$	20.0	1.48
MDJ	56.0	11	+iP	20 05 56.0	−1.2		
			PMZ		$m_b = 5.8$	1.2	0.15
			PMZ		$m_B = 5.9$	5.0	0.80
			eS	20 13 40.0	0.0		
			LN		$M_S = 5.1$	15.0	0.82
			LZ		$M_S = 4.7$	20.0	0.65
WMQ	60.4	336	P	20 06 27.0	−0.8		
			PMZ		$m_b = 4.9$	1.5	0.023
			pP	20 06 36.1	−4.3		
			PcP	20 07 11.3	0.2		
			PP	20 08 41.6	−0.3		
			ScP	20 11 10.5	4.2		
			PcS	20 11 14.0	2.0		
			S	20 14 36.4	0.8		
			SS	20 18 34.0	−0.7		
			LZ		$M_S = 4.9$	28.0	1.27

OCT 8d 03h 31m 14.7 ± 0.04s, SD0.96 / 618
45.64 N ± 0.71km, 149.07 E ± 0.60km, h146 ± 0.16km

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Kurile Islands
m_B6.3 / 37, m_b6.0 / 155,

MDJ	13.8	273	+iP	03 34 25.8	0.6			
			PMZ	m_B = 6.6		6.0	7.79	
			sP	03 35 07.0	3.2			
			ScP	03 42 56.5	−0.3			
			S	03 36 56.0	1.2			
			ScS	03 46 35.0	2.3			
CN2	16.9	272	+iP	03 35 02.4	−1.4			
			PMZ	m_b = 5.9		1.0	0.57	
			PMZ	m_B = 6.3		5.0	6.36	
			sP	03 35 43.0	−1.1			
			S	03 38 04.0	−0.9			
			ScS	03 46 41.0	0.1			
SNY	18.8	267	+iP	03 35 25.5	0.2			
			PMZ	m_b = 6.2		1.2	1.46	
			PMZ	m_B = 6.5		5.0	11.3	
			sP	03 36 10.0	1.9			
			iS	03 38 46.0	−0.6			
			ScS	03 46 48.7	2.1			
			LE			12.0	5.07	
			LZ			12.0	5.20	
DL2	21.3	261	−iP	03 35 52.0	0.7			
			sP	03 36 40.0	2.7			
			S	03 39 34.0	0.1			
			SMN			18.0	16.1	
			SME			12.0	8.32	
BJI	24.6	269	iP	03 36 24.0	0.6			
			PMZ	m_b = 6.2		1.5	1.39	
			PMZ	m_B = 6.4		5.0	7.83	
			epP	03 36 52.0	−0.8			
			eS	03 40 36.0	4.3			
			eScS	03 47 09.5	1.6			
TIA	25.8	260	+P	03 36 34.3	0.4			
			PMZ	m_b = 6.1		0.8	0.40	
			PMZ	m_B = 5.8		10.0	2.56	
			sP	03 37 21.0	0.0			
			PcP	03 39 59.7	−0.2			
			S	03 40 52.0	2.5			
			ScS	03 47 14.1	1.6			
SSE	26.1	246	+iP	03 36 38.0	1.3			
			PMZ	m_b = 6.0		1.2	0.52	
			PMZ			3.0	1.54	
			PP	03 37 22.0	−2.8			
			S	03 40 54.0	−0.7			
			ScS	03 47 16.0	2.2			
			LN			15.0	2.10	
			LE			15.0	2.60	
			LZ			18.0	2.00	
NJ2	27.0	250	+P	03 36 45.0	0.0			
			PMZ	m_b = 6.0		1.1	0.41	
			PMZ	m_B = 5.9		5.5	1.69	
			S	03 41 10.0	0.7			
			LZ			30.0	2.81	
HHC	27.6	274	−iP	03 36 51.4	0.9			
			PMZ	m_B = 6.7		4.0	7.85	
			pP	03 37 25.0	4.5			
			PP	03 37 42.5	−2.0			
			S	03 41 21.0	2.3			
			LN			11.0	1.46	
			LE			9.0	2.37	
			LZ			14.0	5.08	
TIY	28.3	267	+iP	03 36 58.0	1.0			
			PMZ	m_b = 6.3		1.2	0.85	
			PMZ	m_B = 6.2		4.0	2.04	
			pP	03 37 28.0	0.9			
			S	03 41 35.0	4.6			
BTO	28.7	274	−iP	03 37 01.5	0.5			
			PMZ	m_b = 6.2		1.2	0.60	
			PMZ	m_B = 6.4		6.0	5.52	
			pP	03 37 32.5	1.2			
			PP	03 37 58.0	−1.4			
			S	03 41 38.0	0.4			
			sS	03 42 32.0	0.1			
			LN			10.0	1.17	
			LE			10.0	1.27	
WHN	30.9	253	+iP	03 37 20.3	0.1			
			PMZ	m_b = 6.2		0.8	0.38	
			PMZ	m_B = 6.3		4.0	2.36	
			pP	03 37 51.0	0.1			
			iS	03 42 13.0	0.3			
			sS	03 43 08.0	1.2			
			ScS	03 47 38.0	2.0			
QZH	32.0	240	−iP	03 37 31.2	1.3			
			PMZ	m_b = 5.8		1.3	0.23	
			S	03 42 30.0	0.8			
			ScS	03 47 46.5	4.9			
XAN	32.6	263	+iP	03 37 35.0	0.1			
			PMZ	m_b = 6.0		1.2	0.34	
			PMZ	m_B = 6.1		4.0	1.35	
			S	03 42 40.0	1.8			
			LN			9.0	1.11	
			LE			10.0	1.87	
LZH	35.1	270	+iP	03 37 57.5	1.2			
			PMZ	m_b = 5.6		1.5	0.18	
			PMZ	m_B = 6.5		4.0	3.76	
			pP	03 38 29.0	1.5			
			PP	03 39 19.0	1.2			
			PcP	03 40 26.0	1.7			
			S	03 43 16.0	−0.7			
			ScP	03 43 57.5	2.8			
			sS	03 44 08.0	−4.2			
			SS	03 45 40.0	−1.1			
			ScS	03 48 02.0	4.4			
			LN			9.0	2.90	
			LZ			20.0	3.46	
GTA	36.4	278	+iP	03 38 08.2	1.3			
			PMZ	m_b = 6.1		1.0	0.40	
			PMZ	m_B = 6.6		4.0	5.43	
			pP	03 38 39.0	0.7			
			sP	03 38 55.0	−0.2			
			PP	03 39 35.0	2.5			
			S	03 43 38.0	2.1			
			sS	03 44 30.0	−1.7			
			SS	03 46 14.0	5.1			
			ScS	03 48 07.8	3.3			
			LN			10.0	3.88	
			LZ			14.0	4.69	
GZH	36.6	244	+iP	03 38 09.5	0.4			
			pP	03 38 40.0	−0.7			
			PP	03 39 39.0	2.6			
			SMN			8.0	1.84	
			SME			8.0	1.69	
			LN			12.0	1.63	
			LZ			10.0	1.52	
CD2	38.0	263	+iP	03 38 20.8	0.5			
			PMZ	m_b = 6.3		1.0	0.58	
			PMZ	m_B = 6.5		4.0	4.27	
			pP	03 38 49.0	−3.0			
			sP	03 39 07.0	−1.8			
			PP	03 39 52.5	0.5			
			S	03 44 00.0	−0.4			
GYA	38.7	255	+iP	03 38 26.8	0.2			
			PMZ	m_b = 5.9		1.0	0.26	
			PMZ	m_B = 6.3		4.0	2.27	
			pP	03 38 59.0	0.7			

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			sP	03 39 16.0	0.9			
			PP	03 40 01.0	0.1			
			S	03 44 10.0	−1.7			
			PcS	03 44 25.0	1.8			
			SS	03 46 56.0	−4.2			
			ScS	03 48 19.8	1.8			
QZN	41.8	244	P	03 38 52.0	−0.1			
			sP	03 39 41.5	0.6			
			PP	03 40 31.0	−2.5			
			S	03 44 55.0	−2.7			
			sS	03 45 50.0	−4.6			
			SS	03 48 00.0	−4.2			
KMI	42.2	257	+iP	03 38 57.0	1.3			
			PMZ		m_b=6.0	1.5	0.44	
			pP	03 39 31.0	3.5			
			sP	03 39 43.5	−0.8			
			iS	03 45 06.0	0.8			
			sS	03 45 58.0	−2.8			
			SS	03 48 16.0	4.2			
			LN			8.0	0.50	
			LE			8.0	0.70	
			LZ			14.0	1.80	
WMQ	42.7	290	+iP	03 38 59.5	0.3			
			PMZ		m_b=6.2	1.5	0.71	
			PMZ		m_B=6.6	4.0	4.76	
			pP	03 39 32.0	0.8			
			sP	03 39 48.0	0.1			
			PcP	03 40 48.0	−0.1			
			PcS	03 44 40.0	1.1			
			iS	03 45 14.0	2.5			
			sS	03 46 08.5	1.0			
			ScS	03 48 44.0	2.4			
			LN			8.0	3.05	
			LZ			18.0	5.48	
LSA	47.5	271	+iP	03 39 39.0	1.2			
			pP	03 40 12.0	2.1			
			PP	03 41 32.0	2.3			
			S	03 46 23.0	3.8			
			ScS	03 49 17.0	4.7			
KSH	52.5	291	P	03 40 17.0	1.6			
			S	03 47 34.0	6.1			
			ScS	03 49 50.0	4.0			

OCT 8d 14h 48m 17.3±0.19s, SD1.76/23
23.94 N±0.61km, 121.84 E±0.62km, h11±1.26km
Taiwan (244)
M_L4.0/8, m_b3.7/1,

QZH	3.1	289	Pn	14 49 06.7	−0.2			
			Sn	14 49 40.6	−5.5			
			SMN		M_L=3.7	0.4	0.37	
			SME			0.5	0.24	
NJ2	8.5	343	+P	14 50 21.8	−1.7			
			S	14 51 54.2	−5.9			
			SMN		M_L=4.4	1.0	0.074	
			SME			1.0	0.096	
GTA	24.2	315	eP	14 53 37.0	1.8			

OCT 8d 18h 00m 52.8±0.07s, SD2.69/20
43.22 N±0.64km, 124.76 E±0.56km, h14±0.32km
North-Eastern China (658)
M_L3.7/17,

CN2	0.8	40	−iPg	18 01 08.1	1.5			
			Sg	18 01 19.4	2.3			
			SMN		M_L=3.3	0.4	1.13	
			SME			0.4	0.86	
SNY	1.6	213	+Pn	18 01 18.4	−3.4			
			Pg	18 01 20.0	−1.9			
			Sg	18 01 40.0	−4.4			
			SMN		M_L=3.7	0.4	0.89	
			SME			0.4	0.72	
MDJ	3.8	67	Pg	18 02 01.6	2.3			
			Sg	18 02 52.2	1.6			
			SMN		M_L=3.6	0.5	0.18	
			SME			0.5	0.12	
DL2	4.9	210	ePg	18 02 22.3	2.6			
			Sg	18 03 21.0	−5.9			

OCT 9d 03h 35m 42.5±0.10s, SD2.38/14
44.46 N±0.48km, 80.84 E±0.65km, h10±0.41km
Kazakhstan-Xinjiang border region (331)
M_S3.8/1, M_L3.9/8,

WMQ	5.0	95	ePn	03 37 00.8	2.9			
			Pg	03 37 16.2	5.7			
			Sn	03 37 59.2	1.6			
			SMN		M_L=3.9	0.5	0.18	
			SME			0.8	0.14	
			LN		M_S=3.8	5.0	0.59	
GTA	15.0	103	P	03 39 17.6	1.0			
			pP	03 39 23.5	2.6			
			sP	03 39 28.0	3.5			
BTO	21.8	90	eP	03 40 37.0	0.0			

OCT 9d 07h 33m 20.4±0.07s, SD2.99/17
27.61 N±0.52km, 101.03 E±0.72km, h15±0.17km
Yunnan Province (318)
M_L3.6/10,

CD2	4.1	35	Pg	07 34 35.0	2.8			
			Sg	07 35 27.0	−0.6			
			SMN		M_L=3.8	1.0	0.17	
			SME			1.0	0.19	
GYA	5.2	102	Pn	07 34 41.0	3.4			
			Sn	07 35 41.4	2.6			
			SMN		M_L=3.5	1.0	0.058	
			SME			1.0	0.048	
XAN	9.3	45	eP	07 35 33.9	−3.8			
			S	07 37 26.5	3.4			

OCT 9d 10h 25m 48.7±0.04s, SD2.13/8
31.95 N±0.32km, 117.73 E±0.38km, h12±0.14km
Eastern China (664)
M_L3.1/8,

SSE	3.1	105	ePg	10 26 46.5	3.5			
			Sg	10 27 25.0	−0.1			
			SMN		M_L=3.2	0.5	0.12	
			SME			0.5	0.044	

OCT 9d 12h 19m 18.4±0.04s, SD1.63/87
0.96 N±0.98km, 87.37 W±0.88km, h8±0.30km
Galapagos Islands region (696)
m_b4.9/18,

GTA	139.3	351	PKP	12 38 48.4	0.8
CD2	146.6	342	ePKP	12 39 01.2	1.0
GYA	149.6	335	PKP	12 39 10.0	4.9

OCT 9d 12h 37m 32.7±0.05s, SD2.27/9
40.69 N±0.45km, 122.79 E±0.48km, h14±0.10km
North-Eastern China (658)
M_L3.1/8,

DL2	2.0	207	Pg	12 38 06.6	−1.4			
			Sg	12 38 32.8	−2.5			
CN2	3.7	32	−Pg	12 38 38.6	0.8			
			eSg	12 39 25.6	−2.5			
			SMN		M_L=2.9	0.5	0.027	
			SME			0.5	0.035	

OCT 9d 15h 39m 23.6±0.03s, SD1.16/187

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53.51 N ± 1.01km, 165.96 W ± 0.54km, h33 ± 0.27km
Fox Islands (9)
M_S5.1 / 3, m_b5.1 / 51,

CN2	44.7	287	+P	15 47 35.1	−0.5			
			PMZ		m_b = 5.0		0.8	0.020
			epP	15 47 45.0	0.0			
			PcP	15 49 16.5	−1.1			
			eS	15 54 15.0	5.4			
			LZ		M_S = 5.3		20.0	3.32
SNY	47.0	286	−P	15 47 54.2	0.3			
			LZ		M_S = 4.8		26.0	1.36
BJI	52.4	289	eP	15 48 36.0	0.7			
			LZ		M_S = 5.1		20.0	1.69
HHC	54.4	292	P	15 48 50.8	0.3			
			PMZ		m_b = 5.2		1.2	0.034
			LZ		M_S = 4.9		23.0	1.19
TIA	54.5	285	eP	15 48 51.3	0.5			
BTO	55.4	293	eP	15 48 57.8	−0.1			
SSE	55.7	277	+P	15 49 00.8	1.0			
			PMZ		m_b = 5.7		1.4	0.13
			LZ		M_S = 4.8		24.0	1.00
TIY	56.1	289	eP	15 49 03.5	0.8			
NJ2	56.4	280	−P	15 49 04.0	−0.8			
			PMZ		m_b = 5.3		0.8	0.034
			LZ		M_S = 4.6		24.0	0.56
WHN	60.1	282	eP	15 49 31.0	0.1			
XAN	60.7	288	P	15 49 34.3	−0.6			
GTA	61.8	299	+iP	15 49 41.0	−1.1			
			PMZ		m_b = 5.1		1.0	0.023
			PcP	15 50 23.0	1.1			
			LN		M_S = 5.1		15.0	0.67
			LZ		M_S = 5.1		18.0	1.40
QZH	61.8	274	P	15 49 42.7	0.6			
			PMZ		m_b = 5.4		0.8	0.037
LZH	62.0	294	eP	15 49 43.5	−0.5			
			PMZ		m_b = 5.3		1.5	0.057
			sP	15 49 58.5	1.1			
			LN		M_S = 4.8		10.0	0.24
			LZ		M_S = 5.0		23.0	1.25
WMQ	64.4	310	P	15 49 57.6	−2.0			
			PMZ		m_b = 5.0		1.2	0.021
			LZ		M_S = 5.1		20.0	1.31
CD2	66.0	290	P	15 50 09.8	0.4			
			PMZ		m_b = 5.6		1.0	0.072
GZH	66.3	277	+P	15 50 12.5	0.9			
GYA	67.7	285	+iP	15 50 20.8	0.5			
			PMZ		m_b = 5.6		1.2	0.086
KMI	70.9	287	+P	15 50 40.0	−0.5			
			PMZ		m_b = 5.6		1.5	0.11
			pP	15 50 49.0	−0.9			
			LZ		M_S = 5.1		20.0	1.20
QZN	71.5	277	+P	15 50 45.0	1.3			
LSA	73.8	298	+iP	15 50 58.6	1.0			

OCT 9d 17h 22m 05.4 ± 0.05s, SD1.12 / 268
1.86 N ± 0.84km, 31.25 E ± 0.86km, h32 ± 0.04km
Uganda (568)
M_S5.6 / 8, m_B5.6 / 3, m_b5.7 / 54

KSH	55.2	41	P	17 31 42.0	3.7			
			LN		M_S = 5.9		11.0	2.50
			LE				12.0	3.40
LSA	63.1	58	+iP	17 32 33.0	−0.3			
WMQ	65.0	42	P	17 32 45.0	−0.4			
			PMZ		m_b = 5.2		1.4	0.045
			PMZ		m_B = 5.5		8.0	0.53
			iS	17 41 26.0	1.7			
			SS	17 45 38.0	1.1			
			LN		M_S = 5.7		21.0	3.12
			LZ		M_S = 5.3		29.0	2.79
GTA	72.3	49	P	17 33 30.0	−0.7			
			PMZ		m_b = 5.6		1.2	0.094
			PMZ		m_B = 5.6		6.0	0.43
			sP	17 33 48.0	4.1			
			LE		M_S = 5.6		14.0	1.30
			LZ		M_S = 5.3		18.0	1.66
CD2	74.1	58	eP	17 33 41.3	0.6			
LZH	74.9	53	eP	17 33 48.0	2.5			
			PMZ		m_b = 5.7		1.4	0.12
			PMZ		m_B = 5.6		6.0	0.43
			pP	17 33 59.0	4.3			
			PP	17 36 37.5	3.3			
			LE		M_S = 5.5		10.0	0.74
			LZ		M_S = 5.2		22.0	1.50
GYA	76.1	63	P	17 33 52.8	0.2			
			PMZ		m_b = 5.3		1.0	0.040
			S	17 43 34.0	2.3			
			LZ		M_S = 4.9		24.0	0.67
QZN	78.6	71	P	17 34 10.5	4.1			
			eS	17 44 03.0	2.7			
XAN	78.7	56	eP	17 34 09.0	1.8			
BTO	80.3	49	eP	17 34 16.4	0.9			
HHC	81.5	49	P	17 34 23.8	2.0			
			PMZ		m_b = 5.8		1.5	0.16
			S	17 44 30.0	1.7			
			LZ		M_S = 5.4		22.0	1.81
TIY	81.9	52	eP	17 34 25.0	1.0			
WHN	83.1	60	eP	17 34 31.0	0.8			
			eS	17 44 48.0	1.2			
			LZ		M_S = 5.3		20.0	1.30
BJI	84.9	50	eP	17 34 41.0	1.7			
			PMZ		m_b = 5.7		2.0	0.15
			eSKS	17 45 00.0	3.3			
			LZ		M_S = 5.0		24.0	0.77
TIA	85.6	54	eP	17 34 43.9	1.3			
NJ2	87.0	58	eP	17 34 48.0	−1.4			
CN2	91.8	46	eP	17 35 12.0	0.0			
			PMZ		m_b = 5.3		1.4	0.024
			epP	17 35 26.0	4.5			
			LZ		M_S = 6.0		16.0	4.05
MDJ	94.6	45	eP	17 35 24.5	−0.7			

OCT 10d 00h 06m 14.4 ± 0.03s, SD0.99 / 178
13.93 S ± 0.79km, 167.23 E ± 0.75km, h199 ± 0.16km
Vanuatu (New Hebrides) (186)
m_b4.9 / 49,

NJ2	65.1	316	+P	00 16 36.0	−0.3			
			PMZ		m_b = 5.2		0.8	0.034
QZN	65.3	299	P	00 16 38.2	0.4			
MDJ	67.6	332	+P	00 16 51.0	−1.0			
			PMZ		m_b = 5.3		1.0	0.054
DL2	67.6	323	P	00 16 52.8	0.3			
TIA	68.7	318	eP	00 16 58.1	−1.0			
CN2	68.9	329	P	00 17 00.0	−0.5			
			PMZ		m_b = 5.2		0.7	0.033
			epP	00 17 44.0	−2.7			
GYA	71.2	304	P	00 17 14.6	0.1			
			PMZ		m_b = 4.5		1.0	0.010
BJI	71.6	321	eP	00 17 16.0	−0.7			
			PMZ		m_b = 5.0		1.8	0.057
			pP	00 18 02.5	−0.6			
TIY	72.6	317	+iP	00 17 23.6	0.7			
			PMZ		m_b = 5.0		1.0	0.034
XAN	73.1	312	+P	00 17 25.5	−0.1			
			PMZ		m_b = 4.8		0.7	0.012
KMI	73.9	302	+P	00 17 31.0	0.9			
			PMZ		m_b = 5.3		1.5	0.10

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			pP	00	18	18.2	1.7		
HHC	75.0	320	P	00	17	36.6	0.3		
CD2	75.5	307	P	00	17	39.4	0.2		
			PMZ			$m_b = 4.7$		1.0	0.017
BTO	75.8	319	eP	00	17	39.8	−1.2		
GTA	82.1	314	+iP	00	18	15.7	0.8		
			PMZ			$m_b = 5.3$		0.6	0.036
LSA	85.1	302	+iP	00	18	31.2	0.7		
WMQ	92.1	315	+P	00	19	03.0	−0.4		
			PMZ			$m_b = 5.0$		1.8	0.028
			pP	00	19	50.5	−1.0		

OCT 10d 01h 32m 29.1 ± 0.04s, SD1.16 / 182
17.49 S ± 0.82km, 174.51 W ± 0.75km, h152 ± 0.21km
Tonga (173)
m_b5.2 / 56,

MDJ	80.0	323	eP	01	44	24.0	0.0		
			PMZ			$m_b = 5.0$		1.0	0.027
			pP	01	45	01.0	0.2		
DL2	81.9	315	eP	01	44	34.2	0.4		
CN2	82.0	321	eP	01	44	34.0	−0.4		
			PMZ			$m_b = 4.8$		1.0	0.017
			epP	01	45	11.0	−0.4		
			eS	01	54	34.0	−1.0		
SNY	82.1	318	−P	01	44	35.2	0.3		
			PMZ			$m_b = 4.9$		1.0	0.020
BJI	86.1	314	eP	01	44	55.5	0.5		
			PMZ			$m_b = 5.1$		1.5	0.042
			pP	01	45	33.0	0.6		
TIY	87.8	311	eP	01	45	04.0	0.9		
GYA	88.1	298	P	01	45	05.8	1.2		
			PMZ			$m_b = 5.2$		1.2	0.031
			pP	01	45	42.4	0.6		
XAN	89.0	306	P	01	45	09.5	0.8		
			PMZ			$m_b = 4.7$		1.0	0.0080
			pP	01	45	47.3	1.1		
HHC	89.7	313	−P	01	45	13.0	1.0		
			PMZ			$m_b = 5.3$		1.2	0.040
BTO	90.6	313	eP	01	45	17.7	1.1		
KMI	91.0	296	+P	01	45	20.6	2.4		
			PMZ			$m_b = 5.6$		1.8	0.10
			pP	01	45	58.5	2.9		
LZH	93.6	307	eP	01	45	30.0	−0.2		
			PMZ			$m_b = 5.4$		1.0	0.026

OCT 10d 07h 04m 01.8 ± 0.06s, SD1.07 / 24
31.67 S ± 0.82km, 57.68 E ± 1.38km, h9 ± 0.09km
Atlantic–Indian Ridge (428)
m_b5.1 / 9,

WMQ	80.0	22	P	07	16	14.0	0.0		
GTA	80.8	32	−iP	07	16	19.3	0.8		
			PMZ			$m_b = 5.3$		1.0	0.034
TIY	85.9	40	eP	07	16	47.0	2.8		

OCT 10d 08h 52m 37.2 ± 0.02s, SD1.00 / 85
13.24 N ± 0.67km, 121.21 E ± 0.74km, h64 ± 0.62km
Mindoro (250)
m_b5.0 / 31,

QZH	11.9	348	+P	08	55	26.9	0.5		
			PMZ			$m_b = 5.6$		0.7	0.070
GZH	12.3	324	+P	08	55	31.0	−0.9		
QZN	12.3	299	eP	08	55	33.4	1.1		
SSE	17.8	360	P	08	56	43.5	1.6		
			PMZ			$m_b = 4.4$		1.0	0.021
WHN	18.4	341	−P	08	56	50.0	1.1		
			PMZ			$m_b = 4.9$		1.2	0.070
NJ2	18.8	354	eP	08	56	55.0	0.2		
			pP	08	57	11.6	5.0		
GYA	19.0	316	+iP	08	56	56.0	−0.2		
			PMZ			$m_b = 4.9$		1.6	0.060
TIA	23.2	352	eP	08	57	40.1	1.0		
			PMZ			$m_b = 5.0$		0.9	0.068
XAN	23.5	334	−iP	08	57	42.5	−0.2		
			PMZ			$m_b = 5.1$		0.5	0.042
CD2	23.8	320	P	08	57	45.0	−0.6		
			PMZ			$m_b = 5.5$		0.8	0.17
DL2	25.6	1	P	08	58	02.4	0.3		
TIY	25.6	344	eP	08	58	02.0	−0.6		
			PMZ			$m_b = 5.1$		1.0	0.056
BJI	27.1	351	eP	08	58	15.5	−0.5		
			PMZ			$m_b = 5.1$		1.5	0.063
			pP	08	58	28.5	−2.1		
LZH	27.6	329	eP	08	58	20.0	−1.0		
			PMZ			$m_b = 5.3$		1.5	0.11
			pP	08	58	35.0	−0.4		
SNY	28.6	4	−P	08	58	29.4	−0.1		
			PMZ			$m_b = 4.7$		1.2	0.020
HHC	28.8	345	P	08	58	31.2	−0.4		
			PMZ			$m_b = 5.2$		1.3	0.060
BTO	29.0	342	eP	08	58	32.0	−1.3		
MDJ	32.1	11	eP	08	59	01.5	0.8		
GTA	32.2	328	+P	08	59	01.0	−0.8		
			PMZ			$m_b = 5.5$		1.0	0.074
			pP	08	59	13.0	−3.4		
LSA	32.3	305	+iP	08	59	03.2	0.3		

OCT 10d 14h 51m 30.4 ± 0.07s, SD2.12 / 11
43.28 N ± 0.74km, 112.40 E ± 0.55km, h5 ± km
North–Eastern China (658)
M_L3.3 / 9,

HHC	2.5	195	Pn	14	52	11.4	−0.9		
			Pg	14	52	13.3	−1.3		
			Sg	14	52	43.8	−5.1		
			SMN			$M_L = 3.4$		0.4	0.24
			SME					0.4	0.16
BTO	3.2	214	ePg	14	52	26.8	−0.5		
			Sg	14	53	05.9	−5.2		
			SMN			$M_L = 3.1$		0.6	0.080
			SME					0.6	0.060
TIY	5.6	180	ePg	14	53	08.4	−0.3		
			SMN			$M_L = 3.3$		0.5	0.023
			SME					0.6	0.033

OCT 10d 23h 20m 07.4 ± 0.04s, SD1.58 / 68
3.57 N ± 1.00km, 83.30 W ± 0.69km, h8 ± 0.31km
Off coast of Central America (76)
m_b4.9 / 18,

WMQ	132.1	9	PKP	23	39	23.2	−0.1		
CD2	145.1	349	PKP	23	39	46.2	−0.4		
LSA	146.5	9	PKP	23	39	50.8	1.4		
GYA	148.6	343	PKP	23	39	56.0	3.4		
KMI	150.9	349	+PKP	23	39	57.5	1.3		

OCT 11d 02h 16m 35.6 ± 0.06s, SD0.97 / 55
29.80 S ± 0.57km, 177.47 W ± 0.79km, h90 ± 0.32km
Kermadec Islands (178)
m_b5.2 / 13,

NJ2	86.2	310	+P	02	29	10.0	0.9		
			PMZ			$m_b = 5.2$		1.0	0.025
WHN	88.4	307	eP	02	29	18.5	−0.9		
MDJ	88.4	325	eP	02	29	18.5	−1.1		
SNY	89.6	320	eP	02	29	25.0	−0.4		
TIA	89.9	313	eP	02	29	27.0	0.3		
CN2	89.9	323	eP	02	29	26.2	−0.7		
			PMZ			$m_b = 5.2$		1.0	0.018
TIY	93.8	312	eP	02	29	46.4	1.5		

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XAN	94.1	307	eP	02 29 47.5	1.3			

OCT 11d 02h 26m 29.3 ± 0.07s, SD3.24 / 17
22.00 N ± 0.91km, 104.96 E ± 0.76km, h7 ± 0.66km
Indo-Pacific Peninsula (299)
M_S4.5 / 9, M_L4.1 / 9, m_b4.5 / 1

KMI	3.7	328	Pg	02 27 40.0	4.4			
			Sg	02 28 31.5	5.2			
			SMN		M_L = 4.1		1.5	0.37
			SME				1.5	0.54
			LN		M_S = 4.0		4.0	0.70
			LE				4.0	0.90
GYA	4.7	19	Pg	02 27 48.0	−4.6			
			SMN		M_L = 4.1		1.6	0.21
			SME				1.6	0.29
			LN		M_S = 4.6		6.0	2.11
			LE				6.0	4.90
QZN	5.4	122	ePn	02 27 49.4	−1.9			
			Sn	02 28 51.8	−4.6			
			SMN		M_L = 3.8		0.9	0.11
			SME				0.8	0.086
			LN		M_S = 3.7		10.0	0.87
GZH	7.8	80	−P	02 28 29.5	3.0			
			SMN		M_L = 4.7		1.0	0.34
			SME				1.0	0.12
			LN		M_S = 4.4		6.0	0.79
			LE				5.0	0.98
CD2	8.9	353	P	02 28 41.7	−0.4			
			LE		M_S = 4.6		7.0	2.06
LZH	14.1	356	eP	02 29 51.0	−0.8			
			PMZ		m_b = 4.5		2.0	0.020
			LE		M_S = 4.5		8.0	0.99

OCT 11d 03h 01m 50.9 ± 0.04s, SD1.41 / 170
2.72 S ± 0.74km, 153.10 E ± 0.98km, h27 ± 0.12km
New Ireland region (190)
M_S5.3 / 15, m_B5.7 / 9, m_b5.2 / 70

QZH	43.3	311	P	03 09 53.0	0.3			
			PMZ		m_b = 5.7		1.0	0.11
			pP	03 09 58.0	−3.1			
			S	03 16 20.0	2.6			
			sS	03 16 28.0	−4.3			
			SS	03 19 30.0	4.7			
SSE	45.3	320	−P	03 10 08.0	−0.7			
			PMZ		m_b = 5.4		1.6	0.082
			pP	03 10 18.4	1.2			
			S	03 16 40.0	−6.3			
			LZ		M_S = 4.9		20.0	1.40
GZH	46.5	306	+iP	03 10 19.5	1.7			
			S	03 17 03.0	0.3			
			LZ		M_S = 4.9		20.0	1.25
NJ2	47.4	320	+P	03 10 26.0	0.5			
			PMZ		m_b = 5.2		1.4	0.053
			S	03 17 20.0	3.4			
			LZ		M_S = 4.7		22.0	0.85
QZN	47.7	299	+P	03 10 28.5	0.9			
			S	03 17 25.0	4.8			
			LE		M_S = 5.2		16.0	1.46
WHN	49.6	315	+P	03 10 42.5	0.3			
			PMZ		m_b = 5.3		0.7	0.027
			pP	03 10 50.0	−0.5			
			S	03 17 48.0	1.4			
			LZ		M_S = 4.7		22.0	0.91
TIA	51.2	322	eP	03 10 53.6	−1.2			
			LZ		M_S = 5.1		18.0	1.53
MDJ	51.6	339	eP	03 10 55.5	−1.9			
			PMZ		m_b = 5.1		1.0	0.027
			eS	03 18 12.0	−3.5			
			LZ		M_S = 4.6		25.0	0.72
SNY	51.8	332	+P	03 11 01.8	2.8			
			PMZ		m_b = 5.0		1.6	0.036
			S	03 18 20.0	2.7			
			LN		M_S = 5.2		12.0	0.96
			LZ		M_S = 5.0		20.0	1.46
CN2	52.5	335	eP	03 11 02.6	−2.0			
			PMZ		m_b = 4.9		1.0	0.018
			esP	03 11 18.0	1.5			
			S	03 18 29.0	1.7			
			eSS	03 22 08.0	3.8			
			LZ		M_S = 5.5		20.0	4.50
GYA	53.4	306	+iP	03 11 12.0	0.9			
			PMZ		m_b = 5.5		1.2	0.069
			pP	03 11 19.0	−0.4			
			sP	03 11 22.0	−1.0			
BJI	54.3	325	eP	03 11 16.5	−1.4			
			PMZ		m_b = 4.8		1.5	0.021
			PMZ		m_B = 5.6		8.0	0.71
			eScP	03 16 19.5	4.0			
			eS	03 18 52.0	−0.9			
			eScS	03 21 04.0	3.0			
			eSS	03 22 32.0	−1.3			
			LZ		M_S = 4.9		18.0	0.88
TIY	55.1	321	eP	03 11 22.5	−1.0			
			S	03 19 06.0	4.2			
			LN		M_S = 5.2		13.0	0.96
			LZ		M_S = 5.1		20.0	1.63
XAN	55.3	315	+iP	03 11 24.4	−0.8			
			PMZ		m_b = 5.3		0.8	0.035
KMI	56.1	303	+P	03 11 31.5	0.6			
			PMZ		m_b = 5.8		1.5	0.17
			sP	03 11 44.0	1.3			
HHC	57.6	323	eP	03 11 40.3	−0.8			
			PMZ		m_b = 4.8		1.0	0.014
			PMZ		m_B = 5.5		7.0	0.41
			S	03 19 38.0	3.6			
			LN		M_S = 4.9		11.0	0.36
			LZ		M_S = 4.2		21.0	0.20
CD2	57.6	309	+iP	03 11 41.6	0.0			
			PMZ		m_b = 5.8		1.0	0.12
			PMZ		m_B = 6.0		6.0	1.14
			S	03 19 40.0	4.5			
BTO	58.3	322	eP	03 11 46.0	−0.6			
			PMZ		m_b = 5.3		1.0	0.040
			pP	03 11 51.0	−3.9			
			eS	03 19 45.0	−1.0			
			LN		M_S = 5.5		17.0	1.24
			LE				17.0	1.88
LZH	60.0	315	+iP	03 11 58.0	0.0			
			PMZ		m_b = 5.7		2.0	0.19
			ePP	03 14 15.0	3.7			
			eS	03 20 07.0	−0.4			
			LE		M_S = 5.3		15.0	1.23
			LZ		M_S = 5.0		21.0	1.30
GTA	64.4	316	+iP	03 12 27.6	0.4			
			PMZ		m_b = 5.6		1.0	0.071
			PMZ		m_B = 5.6		9.0	0.67
			pP	03 12 31.6	−4.1			
			S	03 21 07.0	5.9			
			sS	03 21 14.0	−2.6			
			LE		M_S = 5.7		16.0	2.60
			LZ		M_S = 5.4		21.0	2.69
LSA	67.3	304	P	03 12 48.0	1.4			
			sP	03 13 01.0	2.7			
			S	03 21 32.0	−5.3			
			LN		M_S = 5.3		10.0	0.59
WMQ	74.4	317	+iP	03 13 29.0	−0.1			

			PMZ		$m_b = 4.9$		1.5	0.023
			PMZ		$m_B = 5.8$		4.0	0.48
			iS	03 23 05.3		4.0		
			ScS	03 23 32.8		−0.7		
			LN		$M_S = 5.8$		11.0	1.82
			LZ		$M_S = 5.6$		20.0	3.08

OCT 11d 03h 07m 54.0 ± 0.09s, SD1.45 / 25
51.11 N ± 0.60km, 176.91 W ± 0.55km, h49 ± 0.82km
Andreanof Islands (7)
m_b5.2 / 7,

SNY	41.0	281	−iP	03 15 34.7		0.4		
			PMZ		$m_b = 5.1$		1.6	0.048
			sP	03 15 54.4		2.6		
			LZ		$M_S = 4.8$		23.0	1.66
BTO	50.0	288	eP	03 16 45.7		−0.4		
TIY	50.3	284	−P	03 16 49.0		0.4		
XAN	54.9	282	eP	03 17 21.4		−1.1		
LZH	56.6	288	P	03 17 34.3		−0.7		
			PMZ		$m_b = 5.2$		1.5	0.045

OCT 11d 03h 14m 40.6 ± 0.04s, SD1.21 / 189
31.69 N ± 0.84km, 50.76 E ± 0.43km, h38 ± 0.08km
Iran (348)
M_S5.4 / 9, m_B5.8 / 3, m_b5.0 / 46

KSH	21.9	62	eP	03 19 34.0		1.9		
WMQ	31.4	57	P	03 20 59.9		−0.6		
			PMZ		$m_b = 4.7$		1.2	0.015
GTA	40.2	65	P	03 22 17.0		1.1		
			PMZ		$m_b = 5.4$		1.2	0.068
			PMZ		$m_B = 5.5$		4.0	0.33
LZH	43.8	69	−P	03 22 46.5		1.0		
			PMZ		$m_b = 5.3$		2.0	0.085
			pP	03 22 52.0		−3.6		
			sP	03 22 57.0		−2.9		
			LE		$M_S = 5.2$		14.0	1.48
			LZ		$M_S = 5.0$		22.0	2.03
CD2	44.9	76	eP	03 22 49.6		−4.4		
KMI	45.8	85	−P	03 23 01.5		0.0		
			PMZ		$m_b = 5.5$		1.2	0.080
BTO	47.9	62	eP	03 23 17.5		0.0		
XAN	48.3	71	eP	03 23 20.5		−0.5		
			PMZ		$m_b = 4.8$		1.0	0.012
GYA	48.7	81	P	03 23 23.8		0.0		
			PMZ		$m_b = 5.1$		1.6	0.042
			pP	03 23 35.0		1.1		
HHC	49.0	61	eP	03 23 27.0		0.8		
			PMZ		$m_b = 4.9$		1.2	0.021
			sP	03 23 44.0		3.4		
			LN		$M_S = 5.1$		13.0	0.97
			LE				14.0	0.12
TIY	50.3	65	eP	03 23 36.0		0.2		
BJI	52.6	61	eP	03 23 53.0		−0.4		
			PMZ		$m_b = 4.8$		1.0	0.012
			LZ		$M_S = 5.2$		19.0	2.38
WHN	53.7	73	eP	03 24 01.2		−0.6		
TIA	54.3	66	eP	03 24 05.6		−0.2		
QZN	54.3	88	P	03 24 04.5		−1.3		
NJ2	56.9	70	eP	03 24 26.0		1.3		
DL2	57.0	62	eP	03 24 25.0		−0.3		
			PMZ		$m_b = 4.9$		1.0	0.017
SNY	57.6	58	eP	03 24 29.2		−0.6		
			PMZ		$m_b = 4.9$		1.0	0.014
			LN		$M_S = 5.5$		14.0	1.60
			LZ		$M_S = 5.4$		16.0	2.23
CN2	58.4	55	eP	03 24 34.0		−1.5		
			PMZ		$m_b = 4.9$		1.4	0.024
			epP	03 24 50.0		4.1		
			LN		$M_S = 5.4$		12.0	0.54
			LE				12.0	1.16
			LZ		$M_S = 5.8$		18.0	6.53
SSE	59.1	70	P	03 24 43.0		2.9		
			LZ		$M_S = 5.1$		19.0	1.40

OCT 11d 05h 42m 35.0 ± 0.07s, SD3.28 / 10
24.88 N ± 0.66km, 122.00 E ± 0.36km, h21 ± 0.70km
Taiwan (244)
M_L3.8 / 5, m_b4.1 / 1,

NJ2	7.7	340	eP	05 44 32.5		4.1		
			SMN		$M_L = 4.3$		1.0	0.074
			SME				1.3	0.12

OCT 11d 07h 21m 29.7 ± 0.02s, SD0.99 / 79
5.56 S ± 0.46km, 154.36 E ± 0.66km, h114 ± 0.19km
New Britain region (192)
m_b5.2 / 28,

CD2	60.4	310	eP	07 31 29.0		−0.9		
LZH	62.9	315	eP	07 31 46.5		0.0		
			PMZ		$m_b = 4.8$		1.3	0.019
GTA	67.3	317	+P	07 32 15.5		0.7		
			PMZ		$m_b = 5.0$		0.9	0.020

OCT 11d 09h 50m 46.8 ± 0.35s, SD2.23 / 16
53.17 N ± 3.00km, 154.03 E ± 2.52km, h47 ± 1.07km
North-west of Kurile Islands (220)
m_b4.9 / 7,

BJI	28.8	258	eP	09 56 40.0		−2.6		
LZH	38.7	264	eP	09 58 07.6		−0.9		
			PMZ		$m_b = 4.8$		2.0	0.035
WMQ	43.5	285	P	09 58 46.5		−1.1		
			PMZ		$m_b = 4.6$		1.7	0.014

OCT 11d 10h 44m 50.3 ± 0.06s, SD1.21 / 201
7.59 S ± 0.66km, 117.48 E ± 0.88km, h313 ± 0.39km
Sumbawa region (285)
m_B4.9 / 1, m_b5.1 / 87,

QZN	27.5	344	+P	10 50 11.6		0.7		
			PMZ		$m_b = 5.2$		1.2	0.094
			eS	10 54 32.5		4.5		
GZH	30.8	353	+iP	10 50 40.3		0.9		
QZH	32.3	2	eP	10 50 53.5		0.3		
GYA	35.4	343	+iP	10 51 20.6		1.1		
			PMZ		$m_b = 4.9$		1.2	0.071
			PcP	10 53 42.0		0.5		
			ScS	11 01 03.8		3.6		
KMI	35.6	337	+P	10 51 22.5		1.9		
			PMZ		$m_b = 5.5$		1.2	0.29
WHN	38.0	356	+P	10 51 42.5		1.5		
			PMZ		$m_b = 5.3$		1.2	0.18
SSE	38.6	5	+P	10 51 47.5		1.6		
			PMZ		$m_b = 5.1$		1.4	0.13
NJ2	39.4	2	+P	10 51 53.6		1.0		
			PMZ		$m_b = 5.6$		1.2	0.39
			ScP	10 57 12.5		1.6		
CD2	40.5	342	+P	10 52 01.2		0.1		
			PMZ		$m_b = 5.5$		0.6	0.17
			eS	10 57 45.3		−1.6		
XAN	42.2	349	+iP	10 52 14.5		−0.5		
			PMZ		$m_b = 4.9$		1.2	0.072
TIA	43.6	360	P	10 52 25.4		−0.6		
			PMZ		$m_b = 4.8$		1.4	0.070
LSA	44.9	327	P	10 52 37.4		0.4		
			PP	10 54 26.5		0.7		
LZH	45.3	344	+iP	10 52 40.3		0.4		
			PMZ		$m_b = 5.0$		2.0	0.18
			PMZ		$m_B = 4.9$		5.0	0.29

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			sP	10 54 13.2	−4.8			
TIY	45.3	354	+iP	10 52 39.5	−0.4			
			PMZ	m_b = 5.1		1.0	0.10	
DL2	46.4	4	P	10 52 48.0	−0.4			
BJI	47.4	359	eP	10 52 55.5	−0.5			
			PMZ	m_b = 5.3		1.2	0.17	
BTO	48.4	352	−iP	10 53 03.5	−0.6			
HHC	48.5	354	+P	10 53 04.4	−0.2			
			PMZ	m_b = 5.2		1.2	0.16	
SNY	49.5	6	+iP	10 53 10.8	−1.1			
			PMZ	m_b = 5.4		1.2	0.24	
GTA	49.5	342	+iP	10 53 13.0	0.5			
			PMZ	m_b = 5.4		1.0	0.21	
			PcP	10 54 28.6	−0.3			
			ScP	10 57 54.2	2.0			
CN2	51.7	7	+iP	10 53 26.4	−1.6			
			PMZ	m_b = 5.1		1.0	0.085	
MDJ	53.1	11	+iP	10 53 38.0	−0.6			
			PMZ	m_b = 5.9		0.8	0.45	
WMQ	57.8	335	+iP	10 54 11.3	−0.9			
			PMZ	m_b = 5.1		1.0	0.080	
			pP	10 55 20.4	0.8			

OCT 11d 16h 12m 29.8 ± 0.04s, SD1.43 / 90
16.87 S ± 0.94km, 174.16 W ± 1.16km, h130 ± 0.15km
Tonga (173)
m_b5.0 / 24,

CN2	81.7	320	eP	16 24 36.0	−0.2			
BJI	85.9	314	eP	16 24 57.5	0.3			
			PMZ	m_b = 4.8		1.5	0.018	
GYA	88.1	298	P	16 25 11.0	3.3			
			PMZ	m_b = 4.9		1.4	0.020	
			pP	16 25 44.8	4.7			
HHC	89.5	313	eP	16 25 15.2	0.9			

OCT 11d 20h 04m 25.6 ± 0.03s, SD0.92 / 40
6.08 S ± 0.37km, 130.30 E ± 0.84km, h105 ± 0.06km
Banda Sea (280)
m_b5.1 / 21,

WHN	39.5	338	+eP	20 11 49.7	2.1			
XAN	44.7	335	P	20 12 30.2	−0.3			
			PMZ	m_b = 5.7		0.8	0.093	
LZH	48.7	331	eP	20 13 01.0	−1.1			
			PMZ	m_b = 5.0		1.0	0.021	
HHC	49.8	341	eP	20 13 10.4	0.5			
LSA	51.7	316	P	20 13 25.8	0.5			
			PMZ	m_b = 4.9		0.6	0.010	
GTA	53.3	331	P	20 13 36.6	−0.1			
			PMZ	m_b = 4.9		1.0	0.015	
WMQ	62.8	327	P	20 14 43.0	0.2			
			PMZ	m_b = 4.7		0.9	0.0090	

OCT 11d 20h 22m 15.9 ± 0.05s, SD1.04 / 131
20.58 S ± 0.74km, 178.48 W ± 0.24km, h615 ± 0.63km
Fiji region (181)
m_b4.9 / 44,

QZH	76.1	304	−P	20 33 03.5	−0.4			
SSE	77.4	310	eP	20 33 09.5	−1.4			
GZH	79.4	300	+iP	20 33 22.6	1.2			
NJ2	79.6	310	−P	20 33 22.6	0.1			
			PMZ	m_b = 4.9		1.2	0.055	
MDJ	80.3	325	−iP	20 33 26.0	−0.4			
			PMZ	m_b = 4.9		1.0	0.054	
DL2	81.5	317	eP	20 33 32.0	−0.3			
SNY	82.0	320	−P	20 33 34.2	−0.6			
CN2	82.1	323	eP	20 33 34.4	−1.0			
			PMZ	m_b = 4.9		1.0	0.039	
			pP	20 35 45.0	1.1			
WHN	82.1	307	+P	20 33 36.2	0.6			
TIA	83.0	313	eP	20 33 39.0	−0.9			
BJI	85.6	316	eP	20 33 52.0	−0.7			
			PMZ	m_b = 4.8		1.5	0.035	
GYA	86.3	300	P	20 33 56.8	0.7			
			PMZ	m_b = 4.5		1.2	0.012	
TIY	87.0	312	eP	20 33 59.4	0.1			
XAN	87.8	308	P	20 34 03.5	0.3			
			PMZ	m_b = 5.6		0.8	0.093	
HHC	89.1	315	eP	20 34 09.0	−0.1			
			PMZ	m_b = 4.9		1.1	0.019	
BTO	90.0	314	eP	20 34 13.5	0.1			
CD2	90.4	303	eP	20 34 15.6	0.2			
LZH	92.5	308	−P	20 34 24.9	0.2			
			PMZ	m_b = 5.2		1.0	0.026	
GTA	96.7	309	eP	20 34 43.2	−0.5			
			PMZ	m_b = 4.9		1.2	0.013	

OCT 12d 00h 21m 06.6 ± 0.10s, SD2.78 / 5
36.38 N ± 0.40km, 103.68 E ± 0.86km, h9 ± km
Gansu Province (322)
M_L3.2 / 4,

LZH	0.3	156	−iPg	00 21 10.8	−1.8			
			Sg	00 21 18.0	1.1			
			SMN	M_L = 2.9		0.5	1.31	
			SME			0.5	0.84	
XAN	4.9	117	Pn	00 22 20.4	−0.3			
			Pg	00 22 36.9	4.1			
			Sg	00 23 43.5	3.9			
			SMN	M_L = 3.4		0.6	0.031	
			SME			0.6	0.076	

OCT 12d 05h 08m 39.3 ± 0.04s, SD1.72 / 136
22.84 N ± 0.71km, 121.47 E ± 0.83km, h29 ± 0.22km
Taiwan (244)
M_S4.7 / 33, M_L4.8 / 9, m_B5.0 / 1,

QZH	3.4	309	iPn	05 09 30.3	0.0			
			iSn	05 10 06.5	−4.4			
			SMN	M_L = 4.8		0.6	2.76	
			SME			1.0	2.86	
			LZ	M_S = 4.3		28.0	13.3	
GZH	7.5	273	+iP	05 10 28.4	−1.0			
			SMN	M_L = 5.2		1.0	1.25	
			SME			1.0	0.55	
			LE	M_S = 4.5		12.5	3.67	
			LZ	M_S = 4.4		15.0	4.14	
SSE	8.2	358	P	05 10 35.1	−4.5			
			SMN	M_L = 4.7		1.0	0.16	
			SME			1.0	0.26	
			LN	M_S = 4.5		10.0	2.30	
			LE			9.0	1.10	
			LZ	M_S = 4.5		16.0	4.40	
NJ2	9.5	346	−P	05 10 54.0	−2.8			
			PMZ	m_b = 5.2		1.0	0.064	
			pP	05 11 06.0	2.5			
			SMN			1.0	0.77	
			SME			1.0	0.43	
			LN	M_S = 4.7		10.0	2.94	
			LE			8.0	1.77	
			LZ	M_S = 4.2		18.0	2.00	
WHN	10.0	322	P	05 11 01.0	−2.7			
			PMZ	m_b = 5.4		0.7	0.063	
			S	05 12 51.0	−4.4			
			LN	M_S = 4.9		12.0	4.25	
			LE			12.0	3.76	
			LZ	M_S = 4.8		14.0	6.12	
QZN	11.5	253	eP	05 11 24.0	−0.8			
			LN	M_S = 4.5		13.0	1.63	

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			LE				14.0	1.68
TIA	13.8	345	eP	05	11	55.0	−1.1	
			LN			$M_S=4.7$	14.0	2.76
			LZ			$M_S=4.6$	16.0	3.25
GYA	13.9	288	P	05	11	56.8	−0.6	
			PMZ			$m_b=5.4$	1.4	0.11
			pP	05	12	04.0	0.0	
			PP	05	12	08.4	0.1	
			SMN				1.8	0.51
			SME				1.8	0.42
			LN			$M_S=4.9$	12.0	1.58
			LE				12.0	3.52
			LZ			$M_S=4.6$	14.0	2.47
XAN	15.7	318	P	05	12	18.8	−1.2	
			PP	05	12	30.5	−1.8	
			LN			$M_S=5.0$	11.0	2.19
			LE				14.0	3.42
TIY	16.7	334	eP	05	12	34.0	0.5	
			sP	05	12	45.5	0.7	
			LN			$M_S=5.3$	11.0	5.35
			LE				12.0	3.75
			LZ			$M_S=5.2$	14.0	8.93
CD2	17.7	301	P	05	12	46.4	0.7	
			LN			$M_S=5.1$	11.0	4.42
			LZ			$M_S=5.0$	12.0	3.98
BJI	17.7	347	eP	05	12	47.5	1.7	
			PMZ			$m_b=4.4$	1.2	0.022
			LN			$M_S=4.5$	13.0	1.13
			LZ			$M_S=4.6$	15.0	2.22
SNY	19.0	5	eP	05	13	05.6	3.9	
			eS	05	16	31.0	1.8	
			LZ			$M_S=4.6$	13.0	1.73
HHC	19.8	337	eP	05	13	11.2	0.6	
			PMZ			$m_b=4.5$	1.0	0.025
			PP	05	13	31.5	2.7	
			eS	05	16	50.0	2.8	
			LN			$M_S=4.5$	13.0	0.20
			LE				11.0	0.81
			LZ			$M_S=4.8$	18.0	3.36
BTO	20.2	334	eP	05	13	16.0	1.5	
			LN			$M_S=5.4$	12.0	5.51
			LE				12.0	4.19
LZH	20.2	315	P	05	13	15.5	0.6	
			PMZ			$m_b=4.8$	1.5	0.074
			PMZ			$m_B=5.0$	6.0	0.50
			pP	05	13	22.5	−0.1	
			PP	05	13	34.0	−0.3	
			sS	05	17	02.5	−4.2	
			LE			$M_S=4.7$	12.0	1.62
			LZ			$M_S=4.8$	15.0	2.96
CN2	21.2	8	eP	05	13	24.8	0.1	
			PMZ			$m_b=4.3$	1.0	0.013
			epP	05	13	33.5	0.7	
			eS	05	17	14.0	0.3	
			LN			$M_S=4.6$	12.0	0.87
			LE				12.0	0.58
			LZ			$M_S=5.1$	13.0	4.72
GTA	24.7	317	eP	05	14	01.0	1.1	
			PMZ			$m_b=4.6$	1.0	0.025
			pP	05	14	09.4	1.3	
			sP	05	14	12.4	0.5	
			sS	05	18	31.0	−0.1	
			LE			$M_S=5.0$	15.0	2.63
			LZ			$M_S=4.8$	18.0	2.80
LSA	28.0	291	P	05	14	32.0	1.6	
WMQ	34.8	315	P	05	15	33.0	3.3	
			PMZ			$m_b=4.7$	1.4	0.015
			PP	05	16	48.0	1.3	
			PcP	05	18	02.0	−0.4	
			LN			$M_S=4.8$	12.8	0.76
			LZ			$M_S=4.7$	16.0	1.18

OCT 12d 12h 23m 44.4±0.05s, SD2.32/39
37.88 N±0.54km, 101.18 E±0.52km, h12±0.10km
Qinghai Province (325)
M_S4.2/4, M_L4.4/12, m_b4.2/3

GTA	1.9	325	Pg	12	24	19.0	1.4	
			Sg	12	24	46.0	3.1	
			LN				8.0	3.20
			LZ				14.0	1.46
LZH	2.8	129	ePn	12	24	32.4	3.0	
			Pg	12	24	35.0	1.4	
			Sn	12	25	10.0	5.3	
			Sg	12	25	13.0	1.3	
			SMN			$M_L=4.6$	1.0	2.92
			SME				1.0	2.11
			LE				8.0	7.96
			LZ				9.0	4.00
XAN	7.4	119	ePn	12	25	32.2	0.1	
			Pg	12	25	58.3	4.1	
			Sg	12	27	38.0	3.3	
			SMN			$M_L=4.2$	1.3	0.11
			SME				1.0	0.078
			LN			$M_S=4.2$	11.0	1.42
			LE				12.0	1.07
BTO	7.4	66	Pn	12	25	36.8	4.3	
			SMN			$M_L=4.0$	0.8	0.080
			SME				0.8	0.040
HHC	8.6	67	P	12	25	52.6	1.0	
			SMN			$M_L=4.6$	1.0	0.15
			SME				0.8	0.10
TIY	8.9	88	+P	12	25	56.0	−0.3	
			SMN			$M_L=4.7$	1.0	0.18
			SME				1.0	0.12
			LE			$M_S=4.2$	8.0	0.89
WMQ	11.8	304	P	12	26	36.3	0.4	
			LN			$M_S=4.2$	7.0	0.61
			LZ			$M_S=3.8$	14.0	0.59
BJI	11.9	75	eP	12	26	38.0	1.2	
GYA	12.3	156	P	12	26	42.6	−0.1	
			S	12	28	54.0	−6.2	
			SMN				1.4	0.017
			SME				1.4	0.048
CN2	19.3	64	eP	12	28	12.8	1.1	
			PMZ			$m_b=4.2$	0.8	0.010
			esP	12	28	23.0	2.9	
			LZ			$M_S=4.0$	13.0	0.47

OCT 12d 12h 32m 51.1±0.03s, SD2.14/6
37.93 N±0.29km, 101.24 E±0.22km, h2±0.19km
Qinghai Province (325)
M_L3.4/5,

GTA	1.9	323	Pg	12	33	23.8	−0.2	
			Sg	12	33	52.4	3.3	
			SMN			$M_L=2.6$	0.6	0.033
			SME				0.6	0.083
LZH	2.8	131	Pg	12	33	39.3	−1.2	
			Sg	12	34	17.0	−1.2	
			SMN			$M_L=3.5$	0.8	0.27
			SME				0.8	0.17

OCT 12d 13h 52m 10.6±0.05s, SD1.84/17
21.60 N±0.65km, 119.88 E±0.61km, h13±0.17km
Taiwan region (243)
M_S3.8/1, M_L3.6/4, m_b4.2/3

QZN	9.8	257	eP	13	54	35.0	1.0	

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			LE	M_S=3.8		10.0		0.44

OCT 12d 15h 24m 50.8±0.04s, SD1.56/19
39.81 N±0.39km, 113.78 E±0.34km, h6±0.07km
North-Eastern China (658)
M_L3.6/16,

BJI	1.9	82	ePn	15 25 22.5	−1.0			
			Pg	15 25 23.5	−0.1			
			Sn	15 25 46.0	−3.1			
			Sg	15 25 47.5	−1.5			
			SMN	M_L=3.5		0.5		0.49
			SME			0.5		0.33
HHC	2.0	302	+Pg	15 25 26.4	0.2			
			Sg	15 25 53.0	−0.2			
			SMN	M_L=3.5		0.6		0.34
			SME			0.6		0.50
TIY	2.3	207	+Pn	15 25 31.0	0.7			
			+Pg	15 25 33.6	1.4			
			Sg	15 26 05.0	0.7			
			SMN	M_L=3.7		0.5		0.36
			SME			0.7		0.62
BTO	3.0	287	Pg	15 25 43.9	0.1			
			Sg	15 26 21.6	−2.9			
			SMN	M_L=3.8		0.6		0.20
			SME			0.6		0.60
TIA	4.5	143	ePn	15 25 59.4	0.1			
			Pg	15 26 14.4	4.9			
			Sn	15 26 53.2	−0.4			
			Sg	15 27 09.3	−1.2			
			SMN	M_L=3.5		0.8		0.090
			SME			0.7		0.060

OCT 12d 16h 26m 24.8±0.04s, SD1.24/376
13.73 S±0.85km, 166.69 E±0.95km, h43±0.22km
Vanuatu (New Hebrides) (186)
M_S5.8/46, m_B6.5/51, m_b5.9/102

QZH	60.6	309	+P	16 36 34.0	−0.4			
			PMZ	m_b=5.7		0.5		0.046
			PMZ	m_B=6.7		4.0		3.49
			S	16 44 48.0	3.2			
			sS	16 45 06.0	0.6			
			LZ	M_S=5.6		28.0		7.06
SSE	62.4	316	+iP	16 36 44.0	−2.3			
			PMZ	m_b=5.6		1.0		0.074
			PMZ	m_B=6.5		4.0		2.50
			pP	16 36 53.0	−4.8			
			S	16 45 06.0	−1.3			
			sS	16 45 30.0	2.0			
			SS	16 49 12.0	−1.2			
			LN	M_S=5.9		18.0		3.50
			LE			18.0		4.30
			LZ	M_S=6.1		20.0		12.4
GZH	63.7	305	+iP	16 36 55.0	−0.1			
			PMZ	m_b=6.0		1.0		0.20
			pP	16 37 07.5	0.8			
			S	16 45 29.0	5.0			
			LN	M_S=5.7		11.0		1.18
			LE			10.0		1.52
NJ2	64.6	316	+P	16 37 00.0	−0.5			
			PMZ	m_b=6.2		1.8		0.56
			PMZ	m_B=6.4		6.0		2.87
			sS	16 45 59.0	4.1			
			LN	M_S=5.7		15.0		1.92
			LE			16.0		1.38
			LZ	M_S=5.5		22.0		3.29
QZN	64.8	299	+P	16 37 02.0	0.3			
			PMZ	m_b=5.6		0.8		0.059
			PMZ	m_B=6.2		6.0		2.00
			pP	16 37 14.0	0.7			
			PcP	16 37 34.5	0.6			
			S	16 45 42.0	5.5			
			LN	M_S=5.6		18.0		1.61
			LE			18.0		1.79
WHN	66.9	312	+iP	16 37 18.0	2.9			
			PMZ	m_b=5.8		0.7		0.088
			PMZ	m_B=6.5		4.0		2.76
			pP	16 37 29.7	3.0			
			S	16 46 06.0	4.0			
			LE	M_S=5.7		19.0		2.82
			LZ	M_S=5.6		26.0		4.93
MDJ	67.1	332	+iP	16 37 16.5	−0.4			
			PMZ	m_b=6.3		0.8		0.29
			PMZ	m_B=6.8		5.0		5.62
			pP	16 37 29.0	0.6			
			iS	16 46 10.0	3.3			
			LN	M_S=5.6		17.0		1.49
			LE			17.0		1.44
			LZ	M_S=5.7		25.0		6.18
DL2	67.2	323	+iP	16 37 16.8	−0.2			
			epP	16 37 27.0	−1.6			
			eS	16 46 00.0	−6.9			
			esS	16 46 27.0	0.5			
SNY	68.1	327	+iP	16 37 22.0	−0.7			
			PMZ	m_b=5.6		0.8		0.058
			PMZ	m_B=6.5		4.0		2.50
			pP	16 37 35.0	0.7			
			LN	M_S=5.9		18.0		2.81
			LE			20.0		3.39
			LZ	M_S=5.8		22.0		6.15
TIA	68.2	318	+P	16 37 23.1	−0.6			
			PMZ	m_b=5.8		0.9		0.11
			PMZ	m_B=6.3		6.0		2.64
			pP	16 37 35.0	−0.2			
			PcP	16 37 53.0	4.7			
			S	16 46 16.0	−2.3			
			LN	M_S=5.8		17.0		2.40
			LE			17.0		2.25
			LZ	M_S=5.6		26.0		4.90
CN2	68.5	329	+iP	16 37 25.0	−0.4			
			PMZ	m_b=6.2		0.8		0.26
			PMZ	m_B=6.6		5.0		4.00
			S	16 46 24.0	2.3			
			LN	M_S=5.9		20.0		2.87
			LE			20.0		3.09
			LZ	M_S=6.1		26.0		15.0
GYA	70.7	305	+iP	16 37 39.0	0.0			
			PMZ	m_b=5.6		1.2		0.10
			PMZ	m_B=6.4		5.0		2.65
			pP	16 37 50.0	−0.4			
			PcP	16 37 57.0	−1.7			
			S	16 46 50.0	2.7			
			sS	16 47 12.0	3.7			
			LN	M_S=6.0		20.0		3.77
			LE			20.0		3.18
			LZ	M_S=5.4		30.0		2.97
BJI	71.1	321	eP	16 37 41.5	0.0			
			PMZ	m_b=6.2		2.0		0.65
			PMZ	m_B=6.5		5.0		3.48
			ePP	16 40 24.0	3.4			
			eS	16 46 54.0	0.1			
			eSS	16 51 26.0	−2.7			
			LN	M_S=6.2		20.0		5.58
			LE			20.0		6.99
			LZ	M_S=6.0		28.0		11.8
TIY	72.1	317	+iP	16 37 47.6	0.0			
			PMZ	m_b=6.0		0.9		0.18

		PMZ		$m_B = 6.6$		5.0	4.00
		S	16 47 05.5		1.3		
		LN		$M_S = 6.0$		22.0	4.53
		LE				23.0	4.48
XAN	72.6	313	+iP	16 37 50.1	−0.2		
			PMZ	$m_b = 6.2$		0.6	0.19
			PMZ	$m_B = 6.5$		5.0	2.90
			S	16 47 11.0	1.6		
KMI	73.3	302	+iP	16 37 56.0	1.3		
			PMZ	$m_b = 6.4$		1.8	0.93
			PMZ	$m_B = 6.6$		4.0	3.20
			pP	16 38 07.0	1.1		
			S	16 47 18.0	0.6		
			LN	$M_S = 5.9$		20.0	1.80
			LE			20.0	3.20
			LZ	$M_S = 5.8$		20.0	4.80
HHC	74.5	320	+iP	16 38 02.0	0.7		
			PMZ	$m_b = 5.8$		0.8	0.11
			PMZ	$m_B = 5.5$		5.0	0.32
			PcP	16 38 13.5	−1.3		
			sP	16 38 21.0	3.5		
			PP	16 40 46.0	−2.5		
			S	16 47 35.0	4.7		
			SKS	16 47 59.0	−0.5		
			PcP	16 38 15.0	0.2		
			PP	16 40 48.0	−0.5		
			LN	$M_S = 4.9$		17.0	0.23
			LE			19.0	0.27
			LZ	$M_S = 5.0$		34.0	1.23
CD2	75.0	308	+iP	16 38 04.3	0.2		
			PMZ	$m_b = 6.1$		0.5	0.14
			PMZ	$m_B = 6.6$		5.0	4.32
			ipP	16 38 16.5	1.0		
			iS	16 47 38.0	0.5		
			sS	16 47 59.9	3.0		
			eScS	16 48 11.0	3.1		
			eSS	16 52 30.0	3.1		
			LN	$M_S = 5.7$		14.0	1.80
			LZ	$M_S = 5.6$		30.0	5.20
BTO	75.3	319	−iP	16 38 06.5	0.4		
			PMZ	$m_b = 5.6$		1.0	0.080
			PMZ	$m_B = 6.5$		5.6	3.38
			pP	16 38 18.5	1.0		
			ePP	16 40 54.0	−2.0		
			S	16 47 39.5	−0.2		
			LN	$M_S = 5.9$		20.0	3.00
			LE			20.0	3.03
LZH	77.2	312	+iP	16 38 18.0	0.8		
			PMZ	$m_b = 6.4$		2.0	0.95
			PMZ	$m_B = 6.1$		12.0	3.42
			pP	16 38 31.0	2.5		
			sP	16 38 37.0	3.8		
			S	16 48 00.0	−0.8		
			sS	16 48 22.5	0.5		
			SS	16 52 58.0	−4.0		
			LE	$M_S = 5.8$		20.0	2.98
			LZ	$M_S = 5.8$		26.0	5.68
GTA	81.6	314	+iP	16 38 41.4	0.8		
			PMZ	$m_b = 6.1$		1.2	0.26
			pP	16 38 53.0	1.1		
			sP	16 38 58.0	1.4		
			S	16 48 51.0	4.6		
			sS	16 49 12.0	4.3		
			LE	$M_S = 6.0$		18.0	3.80
			LZ	$M_S = 5.9$		22.0	5.69
LSA	84.6	302	+iP	16 38 57.0	0.9		
			S	16 49 20.0	3.6		
WMQ	91.6	315	+iP	16 39 29.3	−0.3		
			PMZ	$m_b = 6.1$		2.0	0.22
			PMZ	$m_B = 6.5$		4.0	1.06
			pP	16 39 42.0	0.8		
			sP	16 39 45.0	−0.9		
			PP	16 43 07.5	−1.6		
			SKS	16 49 56.0	0.7		
			S	16 50 22.0	−0.3		
			sS	16 50 48.0	4.0		
			SS	16 56 31.0	−2.1		
			LN	$M_S = 5.7$		14.0	1.27
			LZ	$M_S = 5.9$		24.0	5.81
KSH	99.2	308	P	16 40 03.0	−1.1		
			LN	$M_S = 6.5$		6.0	1.38
			LE			6.0	1.97

OCT 12d 18h 42m 38.4 ± 0.10s, SD1.25 / 36
7.02 S ± 0.52km, 130.11 E ± 0.23km, h141 ± 1.08km
Banda Sea (280)
m_b5.0 / 9,

WHN	40.3	339	eP	18 50 07.8	4.2		
CD2	45.4	328	eP	18 50 44.5	−0.4		
XAN	45.5	335	P	18 50 44.9	−0.9		
LZH	49.5	332	P	18 51 16.5	−0.4		
			PMZ	$m_b = 5.0$		1.5	0.034
CN2	50.8	356	eP	18 51 26.0	−0.5		
GTA	54.0	331	+P	18 51 51.1	0.1		
			PMZ	$m_b = 5.1$		1.0	0.028
WMQ	63.5	327	−P	18 52 56.5	0.3		
			PMZ	$m_b = 5.1$		0.5	0.015

OCT 13d 00h 55m 17.5 ± 0.06s, SD1.42 / 47
2.42 N ± 0.57km, 127.83 E ± 1.54km, h23 ± 0.08km
Djailolo Gilolo (Halmahera) (267)
m_b4.9 / 16,

QZH	24.1	339	eP	01 00 33.5	0.8		
WHN	30.7	337	eP	01 01 37.2	3.5		
			PMZ	$m_b = 5.0$		1.0	0.030
XAN	36.1	333	+P	01 02 19.7	−0.2		
			PMZ	$m_b = 4.8$		0.8	0.014
TIY	37.9	340	+P	01 02 35.1	0.1		
BJI	38.9	346	eP	01 02 43.0	−0.6		
			PMZ	$m_b = 4.7$		1.0	0.013
SNY	39.4	355	−P	01 02 47.2	−0.6		
			PMZ	$m_b = 4.8$		1.0	0.016
LZH	40.2	329	+P	01 02 56.0	1.6		
			PMZ	$m_b = 5.1$		1.5	0.048
			pP	01 03 02.5	0.8		
GTA	44.8	329	P	01 03 32.4	0.5		
			PMZ	$m_b = 4.8$		0.9	0.015
WMQ	54.4	325	+iP	01 04 46.0	0.2		
			PMZ	$m_b = 5.0$		0.9	0.018
			pP	01 04 54.0	0.6		
			sP	01 05 00.8	4.2		

OCT 13d 00h 57m 53.0 ± 0.04s, SD1.46 / 196
2.48 N ± 0.72km, 127.77 E ± 1.06km, h26 ± 0.08km
Djailolo Gilolo (Halmahera) (267)
M_S5.7 / 55, m_B6.0 / 37, m_b5.5 / 62

QZH	24.0	339	−iP	01 03 07.0	0.0		
			PMZ	$m_b = 5.5$		1.0	0.17
			PMZ	$m_B = 6.4$		5.0	7.08
			pP	01 03 16.0	1.2		
			S	01 07 19.0	0.0		
			SS	01 08 10.0	−0.3		
			LN	$M_S = 5.6$		17.0	12.5
			LZ	$M_S = 5.7$		18.0	23.3
QZN	24.0	314	P	01 03 06.5	−0.8		
			LN	$M_S = 5.7$		16.0	12.3

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			LE				16.0	7.12
GZH	24.8	327	−P	01	03	15.4	0.8		
			PMZ			$m_b = 5.6$		1.6	0.34
			S	01	07	35.0	2.7		
			LN			$M_S = 5.5$		12.0	1.70
			LE					15.0	8.61
			LZ			$M_S = 5.5$		20.0	13.5
SSE	29.1	348	−P	01	03	54.0	−0.3		
			PMZ			$m_b = 5.0$		1.0	0.027
			PMZ			$m_B = 5.7$		8.0	1.20
			S	01	08	40.0	−2.8		
			sS	01	08	54.0	−2.9		
			LN			$M_S = 5.7$		11.0	3.10
			LE					11.0	7.70
			LZ			$M_S = 5.4$		20.0	8.70
NJ2	30.6	345	−P	01	04	07.5	0.2		
			PMZ			$m_b = 5.4$		1.4	0.087
			PMZ			$m_B = 6.0$		6.0	1.50
			sP	01	04	21.9	3.1		
			S	01	09	00.0	−5.8		
			LN			$M_S = 5.6$		11.0	2.66
			LE					11.0	5.31
			LZ			$M_S = 5.0$		19.0	3.24
WHN	30.7	337	−P	01	04	12.0	4.0		
			PMZ			$m_b = 5.8$		1.0	0.16
			PMZ			$m_B = 6.2$		6.0	2.83
			sP	01	04	24.0	4.5		
			LN			$M_S = 5.6$		13.0	2.68
			LE					14.0	5.64
			LZ			$M_S = 5.5$		26.0	13.2
GYA	31.3	322	−iP	01	04	14.0	0.4		
			PMZ			$m_b = 5.7$		1.0	0.12
			PMZ			$m_B = 6.1$		4.0	1.20
			pP	01	04	23.0	1.6		
			S	01	09	19.0	2.2		
			sS	01	09	33.0	2.0		
			ScP	01	10	49.0	2.2		
			LN			$M_S = 5.7$		15.0	6.40
			LE					15.0	5.90
KMI	33.0	315	−P	01	04	28.0	−0.8		
			PMZ			$m_b = 5.5$		1.5	0.13
			PMZ					3.0	0.70
			pP	01	04	40.0	3.5		
			S	01	09	40.0	−3.6		
			LN			$M_S = 5.3$		15.0	2.40
			LE					15.0	2.90
			LZ			$M_S = 5.4$		20.0	7.50
TIA	35.0	345	−P	01	04	45.4	−0.2		
			PMZ			$m_b = 5.8$		2.0	0.31
			LN			$M_S = 5.7$		14.0	4.62
			LE					11.0	3.93
			LZ			$M_S = 5.2$		23.0	5.42
XAN	36.0	333	−iP	01	04	53.7	−0.5		
			PMZ			$m_b = 5.6$		0.8	0.084
			PMZ			$m_B = 5.9$		6.0	1.42
			S	01	10	30.0	0.1		
			LN			$M_S = 5.5$		10.0	3.11
			LE					12.0	2.04
CD2	36.3	324	eP	01	04	55.5	−1.0		
			PMZ			$m_b = 5.6$		1.1	0.11
			PMZ			$m_B = 6.0$		6.0	1.43
			LN			$M_S = 5.8$		13.0	7.56
			LZ			$M_S = 5.6$		18.0	8.64
DL2	36.7	352	eP	01	05	00.0	0.0		
			PP	01	06	21.0	−3.8		
TIY	37.8	340	−P	01	05	09.4	0.1		
			PMZ			$m_b = 5.4$		1.0	0.064
			PMZ			$m_B = 6.1$		6.0	2.08
			PP	01	06	37.0	−1.2		
			S	01	10	56.5	−0.8		
			LN			$M_S = 5.5$		11.0	2.91
			LE					12.0	1.03
			LZ			$M_S = 5.4$		21.0	6.63
BJI	38.8	346	−P	01	05	18.0	0.0		
			PMZ			$m_b = 5.7$		1.0	0.12
			PMZ			$m_B = 5.9$		6.0	1.28
			csP	01	05	32.0	2.3		
			cPP	01	06	52.0	1.2		
			cS	01	11	14.0	−0.3		
			cSS	01	14	00.0	3.5		
			cScS	01	15	22.0	−1.4		
			LN			$M_S = 5.3$		13.0	2.48
			LZ			$M_S = 5.3$		24.0	5.13
SNY	39.3	355	−iP	01	05	21.5	−0.8		
			PMZ			$m_b = 5.5$		1.0	0.078
			PMZ			$m_B = 5.8$		5.5	0.88
			pP	01	05	31.3	0.9		
			sP	01	05	34.1	0.1		
			iS	01	11	21.1	−0.9		
			isS	01	11	34.0	−1.5		
			LE			$M_S = 5.6$		12.0	3.94
			LZ			$M_S = 5.5$		20.0	7.55
LZH	40.1	329	−iP	01	05	30.0	1.3		
			PMZ			$m_b = 5.7$		2.0	0.28
			PMZ			$m_B = 5.9$		10.0	1.87
			pP	01	05	37.0	0.4		
			PP	01	07	03.5	−1.2		
			S	01	11	26.0	−6.3		
			sS	01	11	48.0	1.3		
			LE			$M_S = 5.9$		22.0	14.1
			LZ			$M_S = 5.8$		27.0	20.6
HHC	40.9	341	P	01	05	35.8	0.5		
			PMZ			$m_b = 5.3$		0.9	0.050
			PMZ			$m_B = 6.0$		7.0	1.72
			pP	01	05	46.5	3.2		
			LN			$M_S = 5.6$		11.0	3.35
			LE					12.0	1.44
CN2	41.2	357	eP	01	05	36.7	−0.9		
			PMZ			$m_b = 5.1$		1.2	0.035
			PMZ			$m_B = 5.9$		6.0	1.18
			epP	01	05	49.0	3.3		
			PcP	01	07	37.0	0.6		
			S	01	11	46.0	−2.6		
			LN			$M_S = 5.6$		10.0	2.29
			LE					10.0	1.78
			LZ			$M_S = 5.9$		15.0	13.3
BTO	41.2	339	+iP	01	05	37.5	−0.3		
			PMZ			$m_b = 5.9$		0.8	0.16
			PMZ			$m_B = 6.0$		6.0	1.62
			pP	01	05	48.5	2.8		
			ePP	01	07	15.0	−0.8		
			S	01	11	47.0	−1.7		
			sS	01	12	03.0	−0.1		
			eSS	01	14	51.0	3.0		
			LN			$M_S = 5.7$		12.0	3.70
			LE					12.0	2.01
MDJ	42.0	2	−P	01	05	43.5	−0.6		
			PMZ			$m_b = 5.6$		1.2	0.11
			PMZ			$m_B = 6.0$		6.0	1.40
			pP	01	05	52.0	−0.2		
			sP	01	05	56.5	0.8		
			iS	01	12	00.0	−1.4		
			sS	01	12	14.0	−0.7		
			LN			$M_S = 5.6$		12.0	2.95
			LE					12.0	2.10
LSA	44.0	312	−iP	01	06	02.8	1.5		

			pP	01 06 10.0	1.0				
			S	01 12 31.0	0.7				
			LN	M_S=4.9		12.0	0.69		
GTA	44.7	329	eP	01 06 06.2	0.0				
			PMZ	m_b=5.7		1.0	0.12		
			PMZ	m_B=6.1		6.0	1.59		
			PP	01 07 51.4	0.1				
			LE	M_S=5.8		17.0	6.91		
			LZ	M_S=5.7		32.0	15.8		
WMQ	54.3	325	-iP	01 07 20.5	0.3				
			PMZ	m_b=5.6		1.0	0.085		
			PMZ	m_B=6.2		6.0	2.13		
			PcP	01 08 22.0	-1.1				
			PP	01 09 27.0	4.4				
			S	01 14 56.0	2.0				
			SS	01 18 40.0	4.6				
			LN	M_S=5.8		14.0	4.31		
			LZ	M_S=5.6		30.0	8.76		
KSH	59.7	315	P	01 07 58.0	-0.4				
			S	01 16 09.0	4.3				
			LN	M_S=6.0		16.0	4.81		
			LE			16.0	3.74		

OCT 13d 03h 34m 45.4±0.06s, SD4.24/6
40.50 N±0.49km, 77.92 E±0.64km, h17±0.40km
Kirgiziya-Xinjiang border region (320)
M_L3.5/4,

KSH	1.8	238	Pg	03 35 16.4	-1.5				
			Sg	03 35 40.5	-2.2				

OCT 13d 06h 12m 24.1±0.05s, SD1.33/62
2.28 N±0.75km, 126.71 E±1.39km, h32±0.02km
Molucca Passage (266)
m_b4.9/16,

QZN	23.4	316	P	06 17 32.4	0.6				
GZH	24.4	329	eP	06 17 41.9	0.8				
SSE	29.1	350	+P	06 18 20.0	-4.6				
WHN	30.4	339	-eP	06 18 40.2	3.8				
GYA	30.8	323	P	06 18 40.4	0.8				
			PMZ	m_b=4.6		1.0	0.010		
XAN	35.7	334	P	06 19 20.7	-1.3				
CD2	35.8	325	eP	06 19 21.9	-1.0				
TIY	37.6	341	eP	06 19 37.8	-0.5				
BJI	38.8	347	eP	06 19 49.0	1.2				
			PMZ	m_b=5.3		1.5	0.070		
LZH	39.7	331	-P	06 19 55.6	-0.4				
			PMZ	m_b=5.2		1.5	0.054		
HHC	40.8	342	P	06 20 04.0	-0.4				
MDJ	42.2	3	eP	06 20 12.0	-4.4				
			PMZ	m_b=5.2		1.0	0.041		
GTA	44.3	330	eP	06 20 33.2	-0.4				
			PMZ	m_b=4.9		1.0	0.020		
WMQ	53.9	326	P	06 21 46.5	-0.7				

OCT 13d 18h 12m 19.5±0.06s, SD1.94/101
56.00 S±2.10km, 122.70 W±1.73km, h10±0.17km
Easter Island Cordillera (684)
M_S6.3/10, m_B5.9/5, m_b5.2/8

GYA	134.0	251	PKP	18 31 43.0	4.5				
			PP	18 34 10.0	-1.7				
			LN	M_S=6.4		22.0	4.18		
			LE			22.0	1.54		
CN2	136.2	284	ePKP	18 31 46.0	3.6				
			ePP	18 34 22.0	-3.0				
			PPMZ			16.0	1.22		
			LZ	M_S=6.2		22.0	4.57		
BJI	138.9	273	ePKP	18 31 45.5	-1.7				
			LZ	M_S=6.0		30.0	4.07		
CD2	139.1	252	ePKP	18 31 43.4	-4.3				
			ePP	18 34 40.0	-3.1				
			eSKKS	18 41 28.0	-3.7				
			LN	M_S=6.2		19.0	2.54		
			LZ	M_S=5.9		26.0	2.85		
TIY	139.3	267	ePKP	18 31 46.8	-1.4				
			LN	M_S=6.3		23.0	3.46		
			LZ	M_S=6.1		20.0	3.00		
HHC	142.0	270	ePKP	18 31 54.0	1.0				
			SS	18 53 34.0	2.9				
			LZ	M_S=5.9		26.0	2.54		
BTO	142.7	268	ePKP	18 31 53.0	-1.2				
			LN	M_S=6.5		20.0	2.83		
			LE			19.0	3.12		
LZH	142.9	257	ePKP	18 31 53.5	-1.2				
			PPMZ	m_B=6.1		6.0	0.62		
			PKS	18 35 28.0	0.6				
			LE	M_S=6.2		16.0	1.83		
			LZ	M_S=6.1		39.0	5.80		
LSA	144.5	236	PKP	18 32 01.0	3.4				
GTA	147.6	257	PKP	18 32 03.6	1.1				
			PP	18 35 38.0	3.8				
			PPMZ	m_B=5.8		12.0	0.73		
			SKKS	18 42 19.0	-2.0				
			LE	M_S=6.4		18.0	3.62		
			LZ	M_S=6.2		20.0	3.90		
WMQ	157.1	251	ePKP	18 32 18.2	1.8				
			PKP2	18 32 47.0	-1.0				
			PP	18 36 25.8	-1.7				
			PPMZ	m_B=6.0		7.0	0.89		
			SKS	18 39 20.0	1.9				
			SS	18 56 16.0	-2.8				
			LN	M_S=6.3		18.0	2.64		
			LZ	M_S=6.4		23.0	6.10		

OCT 13d 23h 18m 44.8±0.06s, SD1.87/9
35.45 N±0.47km, 104.99 E±0.47km, h18±0.17km
Gansu Province (322)
M_L3.3/6,

XAN	3.5	112	Pn	23 19 39.0	-0.3				
			Pg	23 19 48.5	1.3				
			Sg	23 20 38.2	2.7				
			SMN	M_L=3.2		0.3	0.064		
			SME			0.3	0.078		
CD2	4.6	193	ePg	23 20 08.0	1.1				
			Sg	23 21 08.0	-2.3				
			SMN	M_L=3.1		1.0	0.031		
TIY	6.4	67	ePg	23 20 38.1	0.0				
			Sg	23 22 03.3	-2.1				
			SMN	M_L=3.4		0.8	0.023		
			SME			0.8	0.024		

OCT 14d 05h 55m 24.9±0.03s, SD1.08/80
6.02 S±0.50km, 154.43 E±0.55km, h417±0.46km
New Britain region (192)
m_b5.0/21,

NJ2	50.8	320	-P	06 03 47.0	-0.4				
XAN	58.6	316	P	06 04 41.3	-1.4				
CD2	60.8	310	+P	06 04 56.7	-0.3				
			PMZ	m_b=5.0		0.4	0.026		
LZH	63.2	315	+iP	06 05 14.0	0.7				
			PMZ	m_b=4.9		1.5	0.057		
GTA	67.6	317	P	06 05 42.0	0.9				
			PMZ	m_b=4.7		1.2	0.026		
WMQ	77.7	317	P	06 06 39.0	-0.3				
			PMZ	m_b=4.5		1.5	0.015		

OCT 14d 08h 18m 27.9±0.03s, SD1.51/35

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23.97 N ± 0.92km, 122.75 E ± 0.76km, h33 ± 0.77km (243)
Taiwan region
M_S3.9 / 1, M_L4.1 / 7, m_b4.4 / 9

NJ2	8.8	338	+P	08	20	34.5	−0.8		
			sP	08	20	46.0	−1.2		
			S	08	22	07.0	−6.7		
			SMN			M_L = 4.4		1.0	0.074
			SME					1.0	0.061
			LZ			M_S = 3.8		12.0	0.68
SNY	17.8	2	−P	08	22	37.6	2.4		
			PMZ			m_b = 4.2		1.0	0.012
CD2	18.2	296	eP	08	22	39.3	−0.8		
LZH	20.3	311	eP	08	23	04.0	−0.1		
			PMZ			m_b = 4.4		1.5	0.028
			LZ			M_S = 3.8		20.0	0.35
GTA	24.8	314	+P	08	23	48.3	0.0		
			PMZ			m_b = 4.5		0.8	0.015

OCT 14d 08h 20m 09.2 ± 0.02s, SD0.80 / 30
1.80 N ± 0.30km, 127.33 E ± 0.71km, h138 ± 0.23km (266)
Molucca Passage
m_b5.1 / 11,

XAN	36.4	334	+iP	08	27	02.1	−0.3		
BJI	39.4	346	eP	08	27	27.0	−0.3		
			PMZ			m_b = 5.4		1.0	0.070
LZH	40.5	330	−iP	08	27	37.0	0.7		
			PMZ			m_b = 5.0		1.5	0.040
WMQ	54.6	326	P	08	29	26.6	0.2		
			PMZ			m_b = 5.1		0.7	0.020

OCT 14d 14h 35m 55.5 ± 0.06s, SD1.17 / 140
18.06 S ± 0.42km, 178.40 W ± 0.58km, h585 ± 0.71km (181)
Fiji region
m_b5.2 / 52,

NJ2	78.0	309	−P	14	46	56.5	0.0		
			PMZ			m_b = 4.8		0.9	0.036
QZN	79.5	294	eP	14	47	05.0	0.7		
CN2	80.1	322	eP	14	47	07.4	−0.1		
			PMZ			m_b = 4.2		1.0	0.0090
WHN	80.7	306	−eP	14	47	13.6	3.2		
			eS	14	56	36.0	4.5		
BJI	83.9	315	eP	14	47	26.0	−0.4		
			PMZ			m_b = 4.6		1.4	0.029
GYA	85.1	300	−iP	14	47	33.0	0.4		
			PMZ			m_b = 4.8		1.0	0.020
TIY	85.4	312	−iP	14	47	33.2	−0.5		
HHC	87.4	314	eP	14	47	45.0	1.7		
CD2	89.2	303	eP	14	47	52.4	0.8		
LZH	91.0	308	−P	14	48	01.0	0.9		
			PMZ			m_b = 5.2		1.5	0.040
GTA	95.1	310	P	14	48	18.8	−0.1		
			PMZ			m_b = 4.8		1.0	0.0090

OCT 14d 15h 58m 15.4 ± 0.05s, SD1.55 / 396
9.09 S ± 1.08km, 158.49 E ± 1.16km, h43 ± 0.24km (193)
Solomon Islands
M_S7.1 / 58, m_B7.0 / 45, m_b6.1 / 82

SSE	53.6	320	+P	16	07	34.0	−1.2		
			PMZ			m_b = 5.5		0.9	0.060
			S	16	15	06.0	3.0		
			sS	16	15	20.0	−3.3		
			LN			M_S = 7.0		16.0	55.2
			LE					16.0	44.1
			LZ			M_S = 6.7		20.0	74.4
GZH	54.5	307	P	16	07	41.5	−0.4		
			PMZ			m_B = 7.2		9.0	26.8
			PMZ					16.0	24.8
			sP	16	07	54.0	−4.0		
			LN			M_S = 7.5		20.0	41.6
			LE					20.0	151
QZN	55.5	300	eP	16	07	50.8	1.8		
			PMZ			m_b = 6.3		1.2	0.44
			S	16	15	26.0	−2.3		
			LN			M_S = 7.3		22.0	101
			LE					24.0	167
NJ2	55.7	319	+P	16	07	49.0	−1.7		
			PMZ			m_b = 5.4		0.8	0.042
			PMZ			m_B = 6.7		8.0	7.85
			pP	16	08	02.0	0.0		
			PP	16	09	52.0	−3.8		
			S	16	15	33.0	1.4		
			LN			M_S = 7.1		20.0	90.8
			LE					14.0	18.7
			LZ			M_S = 6.6		23.0	61.7
WHN	57.9	315	+P	16	08	09.0	3.3		
			PMZ			m_b = 5.4		1.0	0.046
			PMZ			m_B = 6.9		9.0	14.5
			sP	16	08	19.5	−2.2		
			LN			M_S = 7.1		17.0	62.1
			LE					17.0	48.2
			LN			M_S = 7.1		18.0	87.0
DL2	58.8	327	eP	16	08	11.0	−1.2		
			PMZ			m_b = 6.6		1.0	0.81
			PMZ			m_B = 7.5		9.0	50.1
			S	16	16	06.0	−5.5		
			LN			M_S = 6.9		16.0	50.0
MDJ	59.5	336	eP	16	08	16.5	−0.7		
			PMZ			m_b = 6.7		1.7	1.53
			PMZ			m_B = 7.1		8.0	17.7
			S	16	16	23.0	2.2		
			LN			M_S = 7.4		18.0	109
			LE					18.0	131
			LZ			M_S = 6.8		26.0	88.5
TIA	59.5	322	eP	16	08	16.4	−1.0		
			PMZ			m_B = 7.0		9.0	15.8
			LN			M_S = 7.0		17.0	51.4
			LE					17.0	40.4
SNY	59.9	330	+iP	16	08	18.0	−2.2		
			PMZ			m_b = 5.5		1.0	0.058
			PMZ			m_B = 6.9		12.0	16.7
			pP	16	08	28.0	−3.5		
			iS	16	16	28.0	0.3		
			LN			M_S = 7.1		16.0	60.2
			LE					17.0	41.1
			LZ			M_S = 6.6		20.0	50.5
CN2	60.6	333	+P	16	08	22.0	−2.6		
			PMZ			m_b = 6.5		1.4	0.95
			PMZ			m_B = 7.2		5.0	15.0
GYA	61.5	307	P	16	08	32.0	1.2		
			PMZ			m_b = 5.8		1.6	0.21
			PMZ			m_B = 6.8		6.0	6.80
			LN			M_S = 7.3		20.0	85.5
			LE					20.0	128
BJI	62.6	324	eP	16	08	36.5	−1.7		
			PMZ			m_b = 6.0		1.5	0.28
			PMZ			m_B = 6.8		12.0	16.0
			ePP	16	10	57.0	0.1		
			eS	16	17	08.0	6.4		
			LN			M_S = 6.8		16.0	38.4
TIY	63.4	320	+P	16	08	42.0	−1.5		
			PMZ			m_B = 7.5		5.0	27.8
			LN			M_S = 7.1		16.0	50.2
			LE					16.0	37.3
			LZ			M_S = 7.0		18.0	104
XAN	63.6	315	P	16	08	45.0	0.0		
			sP	16	09	04.5	3.4		

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			PMZ		$m_b = 5.8$		0.8	0.093
			PMZ		$m_B = 7.0$		9.0	17.9
			S	16 17 15.0		2.0		
			LN		$M_S = 7.3$		26.0	100
			LE				22.0	125
KMI	64.1	304	+P	16 08 46.0		−2.0		
			PMZ		$m_b = 6.3$		2.0	0.72
			PMZ		$m_B = 7.0$		9.0	17.8
			PP	16 11 10.0		0.4		
			S	16 17 24.0		5.5		
			sS	16 17 35.0		−4.1		
			LN		$M_S = 7.2$		20.0	49.7
			LE				20.0	91.9
			LZ		$M_S = 7.1$		24.0	168
CD2	65.8	310	P	16 08 58.5		−0.6		
			PMZ		$m_b = 6.7$		1.7	1.77
			PMZ		$m_B = 7.2$		7.0	22.8
			LE		$M_S = 7.3$		21.0	124
HHC	65.8	323	eP	16 08 59.0		−0.4		
			PMZ		$m_b = 5.4$		1.0	0.051
			PMZ		$m_B = 6.9$		10.0	14.6
			sP	16 09 16.4		1.0		
			PcP	16 09 28.0		−1.0		
			S	16 17 47.0		6.8		
			sS	16 17 59.5		−1.4		
			LN		$M_S = 7.0$		17.0	51.0
			LE				18.0	31.0
			LZ		$M_S = 6.9$		26.0	99.0
BTO	66.6	322	P	16 09 03.0		−1.4		
			PMZ		$m_b = 5.6$		0.8	0.060
			pP	16 09 13.0		−2.7		
			LN		$M_S = 7.1$		18.0	35.2
			LE				15.0	46.0
LZH	68.2	315	+P	16 09 13.5		−1.1		
			PMZ		$m_b = 6.5$		2.0	1.34
			PMZ		$m_B = 7.0$		9.0	18.0
			iS	16 18 17.0		6.2		
			sS	16 18 26.0		−4.0		
			LN		$M_S = 7.2$		19.0	65.2
			LE				19.0	63.1
			LZ		$M_S = 7.1$		20.0	111
GTA	72.6	316	P	16 09 40.4		−0.9		
			PMZ		$m_b = 6.2$		1.0	0.30
			PMZ		$m_B = 7.0$		9.5	18.2
			PcP	16 09 57.0		−0.6		
			S	16 19 04.0		3.5		
			LE		$M_S = 7.3$		18.0	84.7
			LZ		$M_S = 6.9$		26.0	97.0
LSA	75.3	304	+iP	16 09 59.8		2.7		
WMQ	82.7	316	P	16 10 36.0		−1.0		
			PMZ		$m_b = 6.3$		2.0	0.66
			PMZ		$m_B = 7.1$		7.0	14.8
			PP	16 13 52.0		4.3		
			S	16 20 52.0		3.4		
			LN		$M_S = 7.3$		20.0	88.6
			LZ		$M_S = 6.9$		26.0	72.8
KSH	90.0	310	P	16 11 12.0		−0.9		
			pP	16 11 20.0		−4.4		
			LN		$M_S = 7.2$		17.0	21.4
			LE				16.0	43.4

OCT 14d 15h 59m 15.8 ± 0.07s, SD1.40 / 92
4.52 S ± 0.71km, 135.51 E ± 1.32km, h32 ± 0.07km
West Irian region (196)
m_B6.5 / 2, m_b5.2 / 13,

QZN	34.4	314	eP	16 06 01.2	−1.6	
SSE	38.0	340	eP	16 06 33.5	0.9	
NJ2	39.7	338	eP	16 06 47.0	0.2	
WHN	40.3	331	eP	16 06 55.0	2.9	
			sP	16 07 07.0	1.6	
GYA	41.6	319	P	16 07 02.6	−0.1	
			PMZ	$m_b = 4.9$	1.2	0.023
TIA	44.0	338	eP	16 07 23.0	0.4	
XAN	45.8	329	P	16 07 36.2	−1.0	
			PMZ	$m_b = 5.2$	0.7	0.026
CD2	46.5	321	eP	16 07 42.0	−0.2	
TIY	47.2	335	+P	16 07 48.0	0.3	
BJI	47.8	340	eP	16 07 52.0	−0.3	
CN2	48.9	350	eP	16 08 04.2	2.8	
LZH	50.1	326	+P	16 08 10.3	−0.2	
			PMZ	$m_b = 5.4$	1.5	0.085
			pP	16 08 16.5	−3.1	
HHC	50.2	336	eP	16 08 11.6	0.5	
			PMZ	$m_b = 5.1$	1.2	0.034
			PcP	16 09 28.0	−1.5	
			PcS	16 13 26.0	0.9	
BTO	50.6	335	eP	16 08 14.1	−0.3	
LSA	54.4	312	P	16 08 42.8	−0.4	
GTA	54.7	326	P	16 08 44.5	−0.4	
			PMZ	$m_b = 5.4$	0.8	0.038
WMQ	64.5	324	P	16 09 51.0	−1.2	
			PMZ	$m_b = 5.1$	0.8	0.019

OCT 14d 16h 16m 57.0 ± 0.03s, SD1.02 / 239
9.04 S ± 0.63km, 158.64 E ± 0.69km, h31 ± 0.09km
Solomon Islands (193)
M_S6.7 / 5, m_B5.9 / 1, m_b5.9 / 58

QZH	51.6	312	eP	16 26 04.5	1.3	
SSE	53.7	320	P	16 26 16.0	−2.6	
			PMZ	$m_b = 5.3$	1.5	0.060
GZH	54.6	307	eP	16 26 27.0	1.5	
QZN	55.6	300	P	16 26 33.2	0.5	
NJ2	55.8	319	−P	16 26 34.0	−0.1	
			PMZ	$m_b = 5.5$	1.2	0.069
			sP	16 26 45.5	−1.6	
WHN	57.9	315	+P	16 26 53.0	3.8	
			sP	16 27 04.5	2.3	
DL2	58.8	327	P	16 26 55.0	−0.5	
MDJ	59.5	336	eP	16 27 00.0	−0.3	
			PMZ	$m_b = 6.0$	2.0	0.38
TIA	59.6	322	eP	16 27 00.0	−0.8	
SNY	60.0	330	−P	16 27 02.4	−1.0	
CN2	60.6	333	+P	16 27 06.8	−1.0	
			PMZ	$m_b = 6.2$	1.8	0.53
GYA	61.6	307	P	16 27 14.6	0.3	
			PMZ	$m_b = 5.5$	1.6	0.091
BJI	62.7	324	eP	16 27 21.0	−0.5	
			PMZ	$m_b = 5.7$	1.5	0.16
			eS	16 35 47.0	0.5	
			LN	$M_S = 6.6$	14.0	18.2
TIY	63.4	320	eP	16 27 25.4	−1.5	
XAN	63.7	315	P	16 27 27.0	−1.4	
			PMZ	$m_b = 5.1$	0.7	0.017
			pP	16 27 38.5	0.8	
KMI	64.2	304	−P	16 27 32.0	0.4	
			PMZ	$m_b = 5.9$	1.8	0.29
			pP	16 27 38.0	−2.7	
HHC	65.9	323	+P	16 27 42.2	−0.5	
			PMZ	$m_b = 5.8$	1.4	0.18
CD2	65.9	310	P	16 27 41.6	−1.0	
BTO	66.7	322	P	16 27 47.0	−0.7	
LZH	68.3	315	+P	16 27 57.5	−0.5	
			PMZ	$m_b = 5.9$	1.5	0.24
			PMZ	$m_B = 5.9$	6.0	0.90
			pP	16 28 10.0	2.9	
			S	16 36 58.0	3.7	

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			LE		$M_S=6.5$		16.0	14.2	
			LZ		$M_S=6.3$		18.0	17.0	
GTA	72.7	316	+P	16 28 25.0		0.3			
			PMZ		$m_b=6.0$		1.2	0.21	
			LE		$M_S=6.7$		15.0	19.1	
			LZ		$M_S=6.5$		20.0	29.0	
WMQ	82.8	316	P	16 29 20.1		−0.3			
			PMZ		$m_b=5.6$		1.8	0.13	
			sP	16 29 34.5		1.2			
			PP	16 32 35.0		3.6			
			SKS	16 39 34.0		−0.1			
			S	16 39 38.0		4.3			
			LN		$M_S=6.8$		18.0	20.7	
			LZ		$M_S=6.5$		16.0	15.5	

OCT 14d 16h 55m 52.5 ± 0.04s, SD1.09 / 130
8.99 S ± 0.61km, 158.36 E ± 0.82km, h18 ± 0.09km
Solomon Islands (193)
M_S6.2 / 1, m_b5.3 / 35,

QZN	55.3	300	P	17 05 28.8		0.7			
WHN	57.7	315	eP	17 05 41.0		−3.9			
TIA	59.4	322	eP	17 05 58.0		2.0			
SNY	59.8	330	+P	17 05 58.0		−1.5			
			PMZ		$m_b=4.8$		1.2	0.017	
CN2	60.4	333	+iP	17 06 03.6		−0.4			
			PMZ		$m_b=5.7$		0.8	0.078	
GYA	61.3	307	−iP	17 06 10.4		0.3			
			PMZ		$m_b=4.9$		1.2	0.017	
BJI	62.4	324	eP	17 06 17.0		−0.6			
			PMZ		$m_b=5.1$		1.5	0.035	
TIY	63.2	320	eP	17 06 22.0		−0.9			
XAN	63.4	315	P	17 06 23.0		−1.3			
			PMZ		$m_b=5.1$		0.7	0.016	
KMI	63.9	304	eP	17 06 27.5		0.1			
			PMZ		$m_b=5.5$		2.0	0.13	
CD2	65.6	310	P	17 06 37.9		−0.6			
HHC	65.7	323	P	17 06 39.0		0.2			
			PMZ		$m_b=5.0$		1.2	0.022	
BTO	66.5	322	eP	17 06 43.7		−0.1			
LZH	68.1	315	+P	17 06 54.0		−0.1			
			PMZ		$m_b=5.3$		1.5	0.060	
			pP	17 06 58.5		−2.3			
			sP	17 07 01.5		−2.4			
GTA	72.5	316	+P	17 07 21.2		0.4			
			PMZ		$m_b=5.5$		1.0	0.054	
			LN		$M_S=6.2$		15.0	5.75	
			LZ		$M_S=6.1$		20.0	11.5	
LSA	75.1	304	P	17 07 37.6		0.9			
WMQ	82.5	316	+P	17 08 16.5		−0.2			
			PMZ		$m_b=5.6$		1.4	0.085	
			sP	17 08 29.5		3.1			

OCT 14d 19h 31m 51.3 ± 0.05s, SD1.27 / 68
9.17 S ± 0.71km, 158.76 E ± 1.01km, h26 ± 0.12km
Solomon Islands (193)
M_S5.0 / 1, m_b4.8 / 17,

QZN	55.8	300	eP	19 41 33.6		4.8			
NJ2	56.0	319	+P	19 41 26.2		−4.0			
CN2	60.8	333	eP	19 42 02.6		−1.2			
			PMZ		$m_b=4.9$		1.2	0.018	
			pP	19 42 14.0		1.9			
GYA	61.7	307	P	19 42 11.6		1.2			
BJI	62.8	324	eP	19 42 17.0		−0.6			
			PMZ		$m_b=4.7$		1.3	0.012	
TIY	63.6	320	eP	19 42 22.0		−0.9			
XAN	63.9	315	P	19 42 23.6		−0.9			
KMI	64.3	304	+P	19 42 29.0		1.3			
			PMZ		$m_b=5.1$		1.5	0.040	
			pP	19 42 35.0		−0.9			
			sP	19 42 38.5		−0.9			
CD2	66.1	310	eP	19 42 37.6		−1.1			
HHC	66.1	322	eP	19 42 39.0		0.2			
BTO	66.8	321	eP	19 42 44.0		0.2			
LZH	68.5	315	eP	19 42 54.5		0.4			
			PMZ		$m_b=5.0$		1.5	0.028	
			pP	19 43 05.0		2.7			
			LE		$M_S=5.0$		15.0	0.41	
			LZ		$M_S=5.0$		18.0	0.86	
GTA	72.9	316	eP	19 43 21.0		0.3			
			PMZ		$m_b=4.8$		1.0	0.011	
			pP	19 43 31.4		2.6			
WMQ	82.9	316	P	19 44 16.5		0.3			
			PMZ		$m_b=4.8$		1.5	0.014	

OCT 15d 03h 30m 21.6 ± 0.05s, SD1.21 / 66
8.97 S ± 0.71km, 158.21 E ± 0.78km, h17 ± 0.12km
Solomon Islands (193)
m_b4.9 / 25,

QZN	55.2	301	eP	03 39 53.0		−3.4			
MDJ	59.3	337	eP	03 40 24.7		−0.6			
CN2	60.3	333	+P	03 40 32.2		−0.5			
			PMZ		$m_b=5.2$		0.8	0.026	
KMI	63.8	304	eP	03 40 57.0		1.2			
			PMZ		$m_b=5.2$		1.8	0.060	
			pP	03 41 01.6		−0.7			
HHC	65.6	323	eP	03 41 08.0		0.6			
BTO	66.3	322	eP	03 41 16.7		4.3			
LZH	67.9	315	eP	03 41 23.0		0.4			
			PMZ		$m_b=5.1$		1.5	0.034	
			pP	03 41 28.6		−0.5			
GTA	72.3	316	eP	03 41 50.2		0.8			
			PMZ		$m_b=4.8$		0.8	0.0090	
WMQ	82.4	316	P	03 42 46.0		0.6			
			PMZ		$m_b=4.8$		1.3	0.012	
			pP	03 42 51.0		−0.8			

OCT 15d 09h 07m 16.8 ± 0.05s, SD1.57 / 93
9.10 S ± 0.75km, 158.42 E ± 1.06km, h25 ± 0.09km
Solomon Islands (193)
M_S4.9 / 6, m_B5.6 / 2, m_b5.0 / 29

SSE	53.6	320	eP	09 16 42.5		4.0			
			sP	09 16 52.7		2.6			
			S	09 24 12.0		4.1			
			SS	09 27 50.0		2.5			
			LN		$M_S=4.8$		14.0	0.40	
			LZ		$M_S=4.7$		20.0	0.70	
QZN	55.4	301	eP	09 16 50.8		−1.4			
TIA	59.5	322	eP	09 17 25.2		4.3			
			LN		$M_S=4.9$		16.0	0.45	
SNY	59.9	330	+P	09 17 28.0		4.3			
			S	09 25 28.0		−3.6			
			LN		$M_S=5.1$		18.0	0.83	
CN2	60.6	333	−P	09 17 27.0		−1.2			
			PMZ		$m_b=4.8$		0.8	0.0090	
			pP	09 17 41.0		4.8			
			eS	09 25 42.0		0.8			
			LZ		$M_S=5.1$		16.0	1.16	
BJI	62.6	324	eP	09 17 40.0		−1.7			
			eS	09 26 08.0		1.3			
KMI	64.0	304	eP	09 17 50.5		−0.9			
			PMZ		$m_b=5.5$		1.5	0.090	
			pP	09 17 57.0		−2.3			
CD2	65.8	310	eP	09 18 01.4		−1.1			
			eS	09 26 41.5		−4.8			
BTO	66.6	322	eP	09 18 08.0		0.1			
LZH	68.2	315	−P	09 18 17.5		−0.6			

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			PMZ		$m_b = 5.0$		2.0	0.035
			PMZ		$m_B = 5.4$		8.0	0.35
			sP	09 18 31.5		2.0		
			eS	09 27 15.0		−0.9		
			LE		$M_S = 4.9$		13.0	0.30
			LZ		$M_S = 4.9$		20.0	0.69
GTA	72.6	316	−P	09 18 45.0		0.2		
			PMZ		$m_b = 4.9$		0.8	0.011
			sP	09 18 58.4		2.2		
			S	09 28 10.0		4.4		
			LE		$M_S = 5.3$		16.0	0.78
			LZ		$M_S = 4.9$		26.0	0.97
WMQ	82.7	316	P	09 19 40.3		−0.3		
			PMZ		$m_b = 4.8$		1.4	0.016
			PMZ		$m_B = 5.9$		4.0	0.47
			SKS	09 29 59.0		4.2		
			LZ		$M_S = 4.9$		20.0	0.48

OCT 15d 16h 18m 01.6 ± 0.04s, SD1.32 / 350
6.44 S ± 0.89km, 130.06 E ± 1.12km, h136 ± 0.01km
Banda Sea (280)
m_B6.2 / 50, m_b5.9 / 105,

QZN	32.2	322	+P	16 24 18.6		−0.7		
			PMZ		$m_b = 5.9$		1.0	0.25
			PMZ		$m_B = 6.4$		5.0	3.31
			pP	16 24 48.0		−0.1		
			PP	16 25 28.5		−2.0		
			S	16 29 15.0		−5.6		
			sS	16 30 10.5		−1.9		
QZH	33.1	341	+P	16 24 25.8		−1.5		
			PMZ		$m_b = 5.8$		0.7	0.13
			PMZ		$m_B = 6.2$		4.0	1.74
			pP	16 24 56.5		0.2		
			sP	16 25 12.0		−0.2		
			S	16 29 31.0		−4.0		
			sS	16 30 26.0		−0.8		
			ScP	16 30 36.5		−0.5		
			ScS	16 34 37.0		0.6		
			LN				13.0	1.88
GZH	33.6	331	+iP	16 24 30.0		−1.2		
			PMZ		$m_B = 6.4$		4.0	2.65
			pP	16 24 59.0		−1.3		
			sP	16 25 18.0		1.8		
			LN				14.0	2.27
			LE				14.5	2.72
			LZ				21.0	2.54
SSE	38.3	348	+iP	16 25 11.0		0.3		
			PMZ		$m_b = 5.8$		1.1	0.20
			PMZ		$m_B = 6.1$		5.0	1.70
			pP	16 25 40.0		−0.5		
			sP	16 25 59.0		2.8		
			S	16 30 50.0		−3.7		
			ScP	16 30 56.0		0.4		
			sS	16 31 44.0		−2.5		
			SS	16 33 38.0		−1.1		
			ScS	16 35 04.0		−0.5		
			LN				10.0	1.10
			LE				10.0	1.20
			LZ				20.0	2.30
WHN	39.7	339	+iP	16 25 24.0		1.2		
			PMZ		$m_b = 6.6$		1.8	2.00
			PMZ		$m_B = 6.4$		4.0	3.25
			iScP	16 31 00.5		−0.8		
			iS	16 31 14.0		−2.5		
			iScS	16 35 12.0		−1.1		
NJ2	39.7	345	+iP	16 25 23.0		0.2		
			PMZ		$m_b = 6.1$		1.0	0.37
			PMZ		$m_B = 6.1$		6.0	2.14
			pP	16 25 55.0		2.3		
			iS	16 31 14.5		−2.1		
			sS	16 32 10.0		1.4		
			iScS	16 35 14.0		0.9		
			LN				12.0	0.98
			LE				10.0	1.24
			LZ				20.0	1.18
GYA	39.8	326	+iP	16 25 23.6		0.1		
			PMZ		$m_b = 5.9$		1.0	0.25
			PMZ		$m_B = 6.4$		4.0	3.04
			pP	16 25 54.0		0.8		
			sP	16 26 13.0		4.1		
			S	16 31 12.0		−4.6		
			PcS	16 31 21.0		5.4		
			sS	16 32 14.0		4.4		
			SS	16 34 15.0		3.3		
			LN				13.0	2.01
			LE				13.0	1.61
KMI	41.1	321	+P	16 25 35.0		0.5		
			PMZ		$m_b = 6.4$		1.8	1.27
			PMZ		$m_B = 6.3$		5.0	2.80
			S	16 31 34.0		−2.3		
			LN				12.0	0.50
			LE				10.0	1.40
			LZ				16.0	5.40
TIA	44.1	345	+P	16 25 57.7		−0.9		
			PMZ		$m_b = 5.6$		1.6	0.19
			PMZ		$m_B = 6.2$		5.0	2.18
			pP	16 26 29.0		0.2		
			ScP	16 31 18.2		−0.6		
			S	16 32 17.0		−2.9		
			LE				12.0	1.62
CD2	44.9	327	+P	16 26 03.2		−1.4		
			PMZ		$m_b = 5.9$		1.0	0.23
			PMZ		$m_B = 6.4$		5.0	3.26
			pP	16 26 35.1		0.4		
			PcP	16 27 44.0		0.3		
			ScP	16 31 20.2		−1.6		
			iS	16 32 24.8		−6.8		
			sS	16 33 25.0		0.5		
			iSS	16 35 44.8		−2.9		
XAN	45.0	335	+iP	16 26 04.0		−1.3		
			PMZ		$m_b = 6.0$		0.8	0.20
			PMZ		$m_B = 6.3$		5.0	2.63
			PP	16 27 54.0		1.7		
			S	16 32 27.0		−4.8		
			SS	16 35 44.0		−5.3		
DL2	45.8	351	+P	16 26 11.5		−0.3		
			eS	16 32 40.0		−4.6		
			sS	16 33 38.0		0.2		
TIY	46.9	341	+P	16 26 19.8		−0.9		
			PMZ		$m_b = 5.9$		0.9	0.19
			PMZ		$m_B = 6.1$		6.0	2.08
			pP	16 26 54.0		3.0		
			S	16 32 57.0		−2.4		
			sS	16 33 52.0		−1.8		
			ScS	16 35 57.0		−0.5		
			LN				12.0	1.42
			LZ				13.0	2.16
BJI	48.0	346	+P	16 26 28.0		−1.1		
			PMZ		$m_b = 6.1$		1.0	0.29
			PMZ		$m_B = 6.3$		5.0	2.18
			pP	16 27 01.0		1.4		
			sP	16 27 16.0		0.9		
			ScP	16 31 34.0		−0.8		
			eS	16 33 12.0		−3.7		
			ScS	16 36 04.5		−0.1		
			LN				13.0	1.06

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SNY	48.4	354	+iP	16 26 31.0	−1.2		
			PMZ	$m_b = 6.0$		1.0	0.23
			PMZ	$m_B = 6.0$		12.0	2.63
			pP	16 27 02.0	−0.8		
			sP	16 27 17.0	−1.3		
			iS	16 33 18.0	−3.5		
			sS	16 34 15.0	0.0		
			ScS	16 36 06.0	−1.3		
			LN			15.0	2.26
			LE			14.0	1.70
			LZ			20.0	3.16
LZH	48.9	332	+iP	16 26 36.3	−0.3		
			PMZ	$m_b = 6.6$		1.5	1.42
			PMZ	$m_B = 6.5$		5.0	3.61
			pP	16 27 10.0	2.9		
			PcP	16 27 59.5	1.2		
			PP	16 28 30.0	−1.4		
			ScP	16 31 39.0	0.2		
			iS	16 33 25.0	−4.4		
			SME			6.0	4.29
			sS	16 34 24.0	1.3		
			ScS	16 36 11.0	0.1		
			SS	16 36 54.0	−2.8		
			LN			13.0	1.57
			LZ			22.0	3.28
HHC	50.0	342	+P	16 26 44.6	−0.3		
			PMZ	$m_b = 6.1$		1.3	0.37
			pP	16 27 13.0	−2.5		
			PP	16 28 41.5	−0.7		
			S	16 33 43.0	−0.1		
			sS	16 34 38.0	−0.1		
			ScS	16 36 21.0	2.8		
			LN			14.0	0.12
			LE			12.0	0.90
			LZ			20.0	0.27
CN2	50.2	356	eP	16 26 44.5	−1.4		
			PMZ	$m_b = 5.9$		0.8	0.14
			PMZ	$m_B = 5.9$		5.0	1.00
			pP	16 27 16.0	−0.6		
			esP	16 27 33.0	0.9		
			PcP	16 28 02.0	−0.7		
			ScP	16 31 42.0	−2.0		
			S	16 33 41.0	−4.2		
			ScS	16 36 19.0	−0.2		
BTO	50.3	340	−iP	16 26 45.5	−1.5		
			PMZ	$m_b = 5.6$		0.9	0.080
			PMZ	$m_B = 6.1$		6.0	1.82
			iS	16 33 44.0	−4.2		
			LN			11.0	0.61
			LE			12.0	1.40
MDJ	50.8	360	+iP	16 26 50.0	−0.8		
			PMZ	$m_b = 6.2$		1.0	0.37
			PMZ	$m_B = 6.4$		4.0	2.48
			pP	16 27 22.5	0.9		
			iS	16 33 52.0	−3.2		
			sS	16 34 46.0	−3.1		
			ScS	16 36 24.5	0.9		
			SS	16 37 25.0	−3.2		
			LN			11.0	0.82
			LE			12.0	1.64
			LZ			22.0	1.93
LSA	51.8	316	+iP	16 26 59.8	0.9		
			pP	16 27 33.0	3.6		
			S	16 34 02.0	−5.9		
GTA	53.5	331	+iP	16 27 10.4	−0.6		
			PMZ	$m_b = 6.2$		1.0	0.32
			PMZ	$m_B = 6.2$		5.0	1.73
			pP	16 27 43.5	1.6		
			sP	16 27 59.0	1.7		
			PcP	16 28 16.0	0.8		
			PP	16 29 11.0	−3.2		
			ScP	16 31 59.0	0.6		
			S	16 34 28.0	−2.6		
			sS	16 35 26.0	−0.1		
			ScS	16 36 42.8	0.5		
			LN			11.0	1.05
			LZ			30.0	5.62
WMQ	62.9	327	+iP	16 28 15.9	−0.8		
			PMZ	$m_b = 5.9$		1.5	0.28
			PMZ	$m_B = 6.7$		4.0	4.27
			pP	16 28 45.5	−3.1		
			PcP	16 28 52.0	−0.4		
			sP	16 29 04.0	0.4		
			PP	16 30 34.0	−3.4		
			ScP	16 32 39.0	−1.0		
			PcS	16 32 54.5	0.4		
			sS	16 37 32.0	1.9		
			ScS	16 37 52.0	0.7		
			SS	16 40 44.0	1.2		
			LN			13.0	1.50
			LZ			20.0	2.39
KSH	67.7	317	P	16 28 47.0	0.0		
			sP	16 29 36.0	1.8		
			S	16 37 30.0	−0.9		
			sS	16 38 32.0	3.4		

OCT 15d 17h 19m 24.7 ± 0.22s, SD4.69 / 5
40.17 N ± 0.58km, 78.04 E ± 2.28km, h25 ± km
Southern Xinjiang Province (321)
M_L3.6 / 1,

WMQ	8.1	60	eP	17 21 23.5	0.1		

OCT 15d 19h 10m 59.5 ± 0.05s, SD1.52 / 51
30.55 N ± 0.69km, 79.25 E ± 0.56km, h25 ± 0.06km
Northern India (308)
m_b4.4 / 10,

GTA	19.0	57	eP	19 15 20.6	−1.9		
			PMZ	$m_b = 4.2$		0.8	0.0090
CD2	21.1	83	P	19 15 43.9	−0.7		
LZH	21.3	68	−P	19 15 46.2	−0.5		
			PMZ	$m_b = 4.5$		1.0	0.021
			pP	19 15 55.0	1.0		
			sP	19 15 57.0	−0.7		
KMI	21.4	99	eP	19 15 48.5	−0.1		
GYA	24.4	93	P	19 16 19.0	1.3		
XAN	25.3	74	P	19 16 25.7	−0.3		
BTO	26.8	60	eP	19 16 40.9	0.3		

OCT 15d 20h 20m 10.8 ± 0.09s, SD2.23 / 41
43.86 N ± 1.18km, 86.94 E ± 0.80km, h29 ± 0.09km
Northern Xinjiang Province (332)
M_S4.5 / 1, M_L4.3 / 6, m_b4.2 / 2

WMQ	0.6	95	−iPg	20 20 19.8	−2.1		
			Sg	20 20 27.5	−2.7		
GTA	10.6	110	P	20 22 40.6	−3.7		
			LN			3.5	0.51
			LZ	$M_S = 3.6$		8.0	0.21
LSA	14.5	165	pP	20 23 44.0	−0.1		
HHC	18.4	91	P	20 24 25.4	−0.8		
CD2	18.5	129	eP	20 24 32.0	4.4		
XAN	19.7	112	eP	20 24 42.6	2.1		
TIY	20.2	99	eP	20 24 47.6	1.1		
GYA	23.6	131	P	20 25 21.0	0.6		
			pP	20 25 31.0	2.4		
WHN	25.4	112	P	20 25 42.0	4.1		

OCT 15d 23h 00m 54.5 ± 0.04s, SD1.38 / 247
34.42 N ± 0.75km, 26.23 E ± 0.59km, h21 ± 0.14km
Eastern Mediterranean Sea (371)
m_b5.2 / 46,

WMQ	47.6	59	P	23 09 32.5	0.8		
			PMZ	m_b = 5.3		0.5	0.020
			sP	23 09 45.5	3.5		
GTA	57.5	62	+P	23 10 45.6	0.0		
			PMZ	m_b = 5.2		0.6	0.018
LZH	61.7	64	eP	23 11 14.0	−0.6		
			PMZ	m_b = 4.9		1.3	0.022
			pP	23 11 20.0	−1.7		
CD2	63.8	69	eP	23 11 28.5	0.1		
HHC	65.3	56	P	23 11 38.6	0.5		
XAN	66.4	64	P	23 11 44.7	−0.1		
GYA	68.1	72	P	23 11 57.6	1.6		
BJI	68.8	55	eP	23 12 00.0	−0.1		
TIA	71.3	59	eP	23 12 15.4	0.1		
QZN	74.4	77	eP	23 12 29.5	−3.9		

OCT 15d 23h 15m 28.3 ± 0.06s, SD2.39 / 13
40.71 N ± 0.78km, 106.06 E ± 0.48km, h10 ± km
Northern China (323)
M_L3.7 / 9,

BTO	3.0	91	ePn	23 16 17.8	1.2		
			ePg	23 16 21.6	0.1		
			Sn	23 16 54.9	0.3		
			SMN	M_L = 3.1		0.4	0.11
			SME			0.4	0.040
HHC	4.2	86	Pn	23 16 34.4	1.7		
			Pg	23 16 41.2	−0.9		
			SMN	M_L = 3.7		0.6	0.15
			SME			0.6	0.13
LZH	4.9	201	Pg	23 16 55.0	−0.6		
			SMN	M_L = 3.7		1.0	0.11
			SME			1.0	0.089
GTA	5.0	257	Pn	23 16 45.0	1.5		
			Pg	23 17 02.0	6.1		
			Sn	23 17 43.8	0.8		
			Sg	23 18 06.2	2.4		
			SMN	M_L = 3.3		0.6	0.044
			SME			0.6	0.024
TIY	5.8	119	ePn	23 16 54.4	−0.3		
			Pg	23 17 07.0	−3.4		
			SMN			6.0	0.056
			SME			6.0	0.075
BJI	7.8	92	ePn	23 17 23.0	1.4		

OCT 16d 03h 06m 14.6 ± 0.04s, SD1.61 / 105
9.57 S ± 0.77km, 119.85 E ± 1.10km, h44 ± 0.10km
Sumba region (287)
M_S4.4 / 1, m_b5.1 / 42,

QZN	30.1	341	eP	03 12 23.0	0.7		
QZH	34.3	358	P	03 12 59.3	−0.1		
GYA	38.0	341	P	03 13 33.0	2.1		
			PMZ	m_b = 4.6		1.0	0.010
KMI	38.3	335	+P	03 13 34.5	1.1		
			PMZ	m_b = 5.2		1.0	0.040
			sP	03 13 47.5	−1.9		
WHN	40.2	353	−eP	03 13 51.0	2.0		
			PMZ	m_b = 5.3		1.5	0.068
			pP	03 14 03.0	2.6		
SSE	40.5	2	eP	03 13 51.8	1.0		
			PMZ	m_b = 4.8		0.7	0.010
			LZ	M_S = 4.4		20.0	0.50
NJ2	41.4	359	+P	03 13 59.0	0.4		
			PMZ	m_b = 5.5		0.6	0.046
CD2	43.1	340	eP	03 14 12.3	−0.4		
			PMZ	m_b = 5.9		0.5	0.12
XAN	44.6	347	−P	03 14 24.1	−0.6		
			PMZ	m_b = 5.1		0.6	0.016
			sP	03 14 36.1	−4.9		
TIY	47.5	352	eP	03 14 47.6	−0.5		
LSA	47.8	326	P	03 14 51.0	0.2		
LZH	47.9	342	eP	03 14 51.0	0.4		
			PMZ	m_b = 5.0		1.5	0.034
			pP	03 15 01.0	−0.9		
			LZ	M_S = 4.5		22.0	0.52
BJI	49.5	356	eP	03 15 02.0	−0.9		
			PMZ	m_b = 4.6		0.8	0.0060
BTO	50.7	350	eP	03 15 12.0	−0.7		
GTA	52.2	340	P	03 15 23.4	−0.1		
			PMZ	m_b = 5.2		0.8	0.026
			pP	03 15 35.5	0.5		
			sP	03 15 40.7	0.9		
			ScP	03 20 27.4	2.0		
			LZ	M_S = 4.3		22.0	0.30
MDJ	54.6	9	eP	03 15 41.0	−0.8		
WMQ	60.6	334	P	03 16 22.3	−1.7		

OCT 16d 05h 25m 19.4 ± 0.05s, SD1.14 / 43
7.47 S ± 0.43km, 128.12 E ± 0.50km, h151 ± 0.41km
Banda Sea (280)
m_b5.0 / 17,

WHN	40.0	341	−P	05 32 43.2	1.6		
KMI	40.8	324	+P	05 32 49.5	1.7		
			PMZ	m_b = 5.0		1.5	0.050
TIY	47.3	343	−P	05 33 39.0	−0.8		
LZH	49.0	334	eP	05 33 52.2	−0.8		
			PMZ	m_b = 4.9		1.5	0.040
GTA	53.5	333	eP	05 34 27.2	0.1		
			PMZ	m_b = 5.1		1.2	0.047

OCT 16d 06h 05m 54.4 ± 0.03s, SD1.06 / 158
32.47 N ± 0.62km, 142.33 E ± 0.61km, h35 ± 0.21km
South of Honshu (211)
M_S4.3 / 12, m_B5.4 / 3, m_b5.1 / 74

MDJ	15.7	324	−iP	06 09 34.3	−0.2		
			PMZ	m_b = 5.0		1.0	0.071
			pP	06 09 38.0	−4.0		
CN2	17.4	315	−P	06 09 56.0	−0.4		
			PMZ	m_b = 4.6		1.0	0.028
			PMZ	m_B = 4.9		5.0	0.30
			esP	06 10 10.0	1.0		
			LZ	M_S = 4.4		16.0	1.45
SNY	17.6	307	−P	06 10 00.0	1.3		
			PMZ	m_b = 5.0		0.8	0.067
			S	06 13 10.0	−0.9		
			LZ	M_S = 4.0		20.0	0.73
SSE	18.0	271	−P	06 10 04.2	0.1		
			PMZ	m_b = 5.1		1.0	0.086
			LN	M_S = 4.2		12.0	0.50
			LZ	M_S = 3.8		20.0	0.50
NJ2	19.9	275	+iP	06 10 24.6	−0.8		
			PMZ	m_b = 5.5		1.0	0.22
			S	06 14 04.5	3.1		
			LZ	M_S = 3.8		24.0	0.50
TIA	21.1	287	P	06 10 38.3	−0.4		
			PMZ	m_b = 4.8		1.4	0.068
			S	06 14 21.0	−5.3		
			LN	M_S = 4.7		9.0	1.11
QZH	22.1	256	P	06 10 49.4	1.0		
BJI	22.4	297	eP	06 10 51.5	0.6		
			PMZ	m_b = 4.6		1.0	0.027
			eS	06 14 52.0	2.3		
			LZ	M_S = 4.0		23.0	0.63

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WHN	23.9	273	−P	06 11 07.0	0.9			
			PMZ	$m_b = 5.6$		1.0	0.23	
TIY	25.0	290	−P	06 11 16.4	−0.1			
			PMZ	$m_b = 5.1$		0.8	0.054	
			S	06 15 39.0	4.6			
			LN	$M_S = 4.3$		16.0	0.60	
			LZ	$M_S = 4.5$		15.0	1.18	
HHC	26.0	298	eP	06 11 26.0	0.1			
			PMZ	$m_b = 5.5$		1.4	0.16	
			pP	06 11 33.5	−1.5			
			LE	$M_S = 4.2$		7.0	0.18	
			LZ	$M_S = 4.2$		28.0	0.89	
BTO	27.1	297	P	06 11 36.5	0.2			
			epP	06 11 42.0	−3.5			
			LN	$M_S = 5.0$		17.0	1.03	
			LE			21.0	3.28	
XAN	27.9	282	−P	06 11 42.5	−1.3			
			PMZ	$m_b = 5.8$		1.0	0.22	
			pP	06 11 52.7	−0.4			
			sP	06 11 59.5	2.3			
GYA	31.5	268	P	06 12 14.8	−1.2			
			PMZ	$m_b = 4.6$		1.0	0.010	
			S	06 17 19.0	−0.9			
LZH	31.9	287	−P	06 12 18.0	−1.0			
			PMZ	$m_b = 5.2$		2.0	0.088	
			PMZ	$m_B = 5.8$		4.0	0.69	
			pP	06 12 24.5	−3.8			
			LN	$M_S = 4.4$		15.0	0.49	
			LZ	$M_S = 4.1$		30.0	0.59	
QZN	32.0	253	P	06 12 20.4	0.1			
CD2	32.7	278	eP	06 12 25.2	−1.3			
			PMZ	$m_b = 5.8$		0.5	0.077	
			eS	06 17 40.0	0.0			
GTA	34.9	294	eP	06 12 44.6	−0.3			
			PMZ	$m_b = 5.5$		1.0	0.077	
			PcP	06 15 18.0	1.1			
			LZ	$M_S = 4.1$		24.0	0.38	
LSA	43.6	280	P	06 13 59.4	1.6			
WMQ	43.7	301	P	06 13 59.9	1.5			
			PMZ	$m_b = 5.6$		1.2	0.12	
			pP	06 14 10.0	1.9			
			sP	06 14 14.0	1.8			
			PcP	06 15 45.8	1.0			
			PcS	06 19 40.0	3.7			
			S	06 20 26.0	1.1			
			sS	06 20 44.0	2.0			
			SS	06 23 31.5	−2.6			
			ScS	06 23 54.0	2.4			
			LZ	$M_S = 4.3$		24.0	0.41	

OCT 16d 11h 53m 53.9 ± 0.04s, SD1.32 / 88
10.41 S ± 0.59km, 123.73 E ± 0.93km, h33 ± 0.08km
Timor (289)
m_b5.1 / 26,

QZN	32.3	335	eP	12 00 22.0	−0.4			
GYA	40.2	336	−iP	12 01 30.6	0.9			
			PMZ	$m_b = 5.2$		1.2	0.046	
			PcP	12 03 37.4	4.2			
KMI	40.8	330	+P	12 01 36.0	1.2			
			PMZ	$m_b = 5.3$		1.8	0.090	
SSE	41.3	357	eP	12 01 40.5	1.8			
			PMZ	$m_b = 4.8$		1.2	0.017	
			LZ	$M_S = 4.4$		20.0	0.50	
WHN	41.7	348	eP	12 01 43.0	1.3			
XAN	46.4	343	P	12 02 18.5	−1.1			
			PMZ	$m_b = 5.0$		0.8	0.016	
TIY	49.0	348	eP	12 02 40.0	−0.2			
LZH	49.9	339	+iP	12 02 47.5	0.4			
			PMZ	$m_b = 5.4$		1.5	0.085	
			pP	12 02 52.0	−4.1			
			LZ	$M_S = 4.3$		15.0	0.24	
BJI	50.7	353	eP	12 02 52.0	−0.8			
			PMZ	$m_b = 4.7$		1.2	0.012	
LSA	50.7	323	P	12 02 53.8	0.0			
SNY	52.0	360	+P	12 03 01.6	−1.0			
			PMZ	$m_b = 4.8$		1.2	0.017	
HHC	52.2	348	eP	12 03 04.0	−0.6			
CN2	54.0	2	eP	12 03 22.0	4.6			
GTA	54.3	337	+iP	12 03 20.0	−0.2			
			PMZ	$m_b = 5.3$		1.2	0.051	
MDJ	55.0	5	eP	12 03 24.5	−0.6			
			PMZ	$m_b = 5.5$		1.1	0.064	
WMQ	63.1	331	+P	12 04 21.4	0.0			
			PMZ	$m_b = 5.4$		0.7	0.031	

OCT 16d 17h 39m 29.0 ± 0.05s, SD1.20 / 107
48.43 N ± 1.45km, 155.44 E ± 1.24km, h31 ± 0.31km
Kurile Islands (221)
M_S4.5 / 12, m_b4.9 / 52,

MDJ	18.2	268	eP	17 43 41.0	0.2			
CN2	21.2	269	eP	17 44 12.6	−2.3			
			PMZ	$m_b = 4.4$		1.0	0.017	
			LN	$M_S = 4.4$		13.0	0.31	
			LE			13.0	0.66	
			LZ	$M_S = 4.7$		15.0	2.09	
BJI	29.1	268	eP	17 45 30.0	0.6			
			LN	$M_S = 4.3$		13.0	0.35	
			LZ	$M_S = 4.4$		14.0	0.59	
HHC	31.8	273	−P	17 45 52.8	−0.5			
			PMZ	$m_b = 5.2$		1.2	0.047	
			eS	17 51 06.0	5.5			
			LN	$M_S = 4.5$		12.0	0.45	
			LZ	$M_S = 4.7$		14.0	1.20	
TIY	32.8	267	eP	17 46 02.0	−0.2			
			eP	17 46 03.0	1.4			
			LN	$M_S = 4.5$		15.0	0.61	
			LZ	$M_S = 4.3$		20.0	0.63	
BTO	32.9	273	eP	17 46 02.0	−1.3			
			ePP	17 47 11.0	−2.1			
			eS	17 51 20.5	2.1			
			LN	$M_S = 4.9$		14.0	0.89	
			LE			15.0	0.94	
WHN	35.9	255	eP	17 46 29.0	0.4			
			LE	$M_S = 4.3$		14.0	0.31	
XAN	37.2	265	eP	17 46 39.5	−0.6			
LZH	39.4	271	eP	17 46 58.4	0.0			
			PMZ	$m_b = 4.7$		1.5	0.020	
			pP	17 47 06.0	−1.1			
			sP	17 47 12.0	1.0			
			LN	$M_S = 4.5$		13.0	0.35	
			LZ	$M_S = 4.3$		15.0	0.34	
GTA	40.3	278	P	17 47 05.0	−0.5			
			PMZ	$m_b = 4.9$		1.0	0.020	
			LE	$M_S = 5.1$		14.0	1.53	
			LZ	$M_S = 4.7$		17.0	0.93	
CD2	42.6	265	eP	17 47 24.5	0.0			
GYA	43.6	258	−iP	17 47 34.0	1.1			
			PMZ	$m_b = 5.1$		1.2	0.034	
WMQ	45.8	291	P	17 47 50.0	−0.3			
			PMZ	$m_b = 5.4$		1.2	0.070	
			S	17 54 29.0	−1.5			
			ScS	17 57 36.0	−4.6			
			LN	$M_S = 4.8$		14.0	0.54	
			PMZ			15.0	0.96	
KMI	47.1	260	−P	17 48 01.4	0.9			
			PMZ	$m_b = 5.3$		1.4	0.060	

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OCT 16d 18h 19m 42.7 ± 0.05s, SD2.04 / 28
39.67 N ± 0.53km, 118.62 E ± 0.45km, h13 ± 0.17km
North-Eastern China (658)
M_S3.9 / 1, M_L3.9 / 22,

BJI	1.9	282	ePn	18 20 14.0	−1.5			
			Pg	18 20 16.0	−0.6			
			Sn	18 20 37.0	−4.3			
			Sg	18 20 39.0	−3.8			
			SMN	M_L = 3.3		0.5	0.34	
			SME			0.5	0.25	
DL2	2.5	107	ePn	18 20 25.0	2.1			
			ePg	18 20 31.0	4.9			
			eSg	18 21 04.5	4.7			
TIA	3.6	199	Pn	18 20 39.7	0.4			
			Pg	18 20 47.5	0.4			
			Sg	18 21 34.5	−2.5			
			SMN	M_L = 3.6		1.0	0.14	
			SME			1.0	0.19	
SNY	4.3	59	ePn	18 20 51.0	2.2			
			Pg	18 21 04.2	4.8			
			Sg	18 22 02.4	3.6			
			SMN	M_L = 4.2		0.8	0.58	
			SME			0.6	0.22	
TIY	5.2	250	ePn	18 21 01.4	0.5			
			SMN	M_L = 3.7		0.9	0.062	
			SME			0.8	0.098	
HHC	5.5	285	ePg	18 21 20.6	0.2			
			Sg	18 22 34.1	−1.6			
			SMN	M_L = 3.8		0.9	0.084	
			SME			1.0	0.099	
			LN	M_S = 3.9		7.0	0.33	
			LE			6.0	0.74	
CN2	6.6	49	ePn	18 21 20.0	0.6			
			+Pg	18 21 44.2	5.5			
			eSn	18 22 34.4	−2.1			
			eSg	18 23 11.6	3.1			
			SMN	M_L = 4.3		0.6	0.17	
			SME			0.6	0.16	
BTO	6.7	281	ePg	18 21 40.5	0.1			
			Sg	18 23 08.4	−2.8			
			SMN	M_L = 3.4		1.0	0.030	
			SME			1.0	0.010	
WHN	9.7	202	eP	18 22 02.7	−3.2			

OCT 17d 05h 20m 57.6 ± 0.04s, SD1.41 / 217
4.48 S ± 0.75km, 135.38 E ± 1.00km, h22 ± 0.11km
West Irian region (196)
M_S5.6 / 54, m_B5.9 / 35, m_b5.5 / 72

QZH	33.5	332	eP	05 27 39.0	1.1			
			S	05 32 52.0	−4.8			
			LN	M_S = 5.3		13.0	2.65	
			LZ	M_S = 5.3		20.0	5.60	
QZN	34.3	314	P	05 27 44.0	−1.1			
			PMZ	m_b = 5.4		1.4	0.080	
			PMZ	m_B = 5.7		8.5	1.13	
			S	05 33 09.0	−0.6			
			LN	M_S = 5.5		18.0	4.30	
			LE			16.0	4.50	
GZH	34.8	323	−P	05 27 49.0	−0.5			
			S	05 33 14.0	−3.7			
			LN	M_S = 5.3		10.0	1.38	
			LE			12.0	2.10	
			LZ	M_S = 5.3		18.0	5.45	
SSE	37.9	340	+P	05 28 15.0	−0.3			
			PMZ	m_b = 5.7		1.0	0.14	
			PMZ	m_B = 5.6		12.0	1.30	
			pP	05 28 20.8	−1.9			
			PP	05 29 41.0	−3.4			
			S	05 34 04.0	−0.4			
			PcS	05 34 21.0	2.4			
			LN	M_S = 5.7		14.0	3.90	
			LE			15.0	5.50	
			LZ	M_S = 5.6		20.0	10.1	
NJ2	39.6	338	+P	05 28 29.0	−0.5			
			PMZ	m_b = 5.8		1.0	0.18	
			PMZ	m_B = 5.8		6.0	1.03	
			lS	05 34 32.5	1.4			
			LN	M_S = 5.4		17.0	2.86	
			LE			14.0	1.68	
			LZ	M_S = 5.5		20.0	6.57	
WHN	40.2	331	+P	05 28 36.0	1.3			
			PMZ	m_b = 6.1		1.4	0.48	
			PMZ	m_B = 6.0		6.0	1.41	
			S	05 34 44.0	4.4			
			LN	M_S = 5.5		15.0	2.46	
			LE			15.0	3.26	
			LZ	M_S = 5.3		22.0	4.81	
GYA	41.5	319	+iP	05 28 45.0	−0.1			
			PMZ	m_b = 5.6		1.4	0.15	
			PMZ			3.0	1.09	
			pP	05 28 50.4	−1.9			
			sP	05 28 54.0	−1.7			
			S	05 35 00.0	1.9			
			sS	05 35 10.0	−1.3			
			ScS	05 38 49.0	4.5			
			LN	M_S = 5.6		18.0	5.06	
			LE			18.0	3.18	
KMI	43.3	315	+P	05 29 00.0	0.0			
			PMZ	m_b = 5.8		1.5	0.25	
			PMZ	m_B = 5.9		6.0	1.10	
			pP	05 29 06.5	−0.7			
			sP	05 29 10.5	0.0			
			S	05 35 24.0	−0.6			
			sS	05 35 38.0	0.0			
			LN	M_S = 5.4		15.0	1.30	
			LE			15.0	2.30	
			LZ	M_S = 5.6		20.0	7.00	
TIA	43.9	339	+P	05 29 04.4	−0.8			
			PMZ	m_b = 5.7		1.4	0.17	
			PMZ	m_B = 6.0		6.0	1.53	
			S	05 35 29.0	−5.4			
			LN	M_S = 5.7		19.0	5.38	
			LE			16.0	3.59	
DL2	45.0	345	P	05 29 14.0	0.2			
			S	05 35 45.0	−4.8			
XAN	45.7	329	+iP	05 29 18.7	−1.0			
			PMZ	m_b = 5.9		0.9	0.17	
			PMZ	m_B = 6.0		6.0	1.34	
			pP	05 29 26.5	−0.6			
			S	05 35 59.0	−1.3			
			LN	M_S = 5.6		15.0	2.25	
			LE			14.0	2.74	
CD2	46.4	321	+iP	05 29 24.0	−0.7			
			PMZ	m_B = 5.7		9.0	1.05	
			S	05 36 10.0	0.7			
			LE	M_S = 5.6		18.0	4.11	
			LZ	M_S = 5.5		20.0	5.10	
TIY	47.1	335	+iP	05 29 30.0	−0.4			
			PMZ	m_b = 6.0		1.1	0.27	
			PMZ	m_B = 5.9		6.0	0.97	
			sP	05 29 45.0	4.1			
			S	05 36 22.0	2.5			
			LN	M_S = 5.5		15.0	2.72	
			LZ	M_S = 5.5		20.0	5.75	
SNY	47.3	348	+P	05 29 30.0	−2.1			

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			PMZ		$m_b = 5.2$		1.6	0.054
			PMZ		$m_B = 5.7$		12.0	1.21
			sP	05 29 42.0		−0.8		
			iS	05 36 22.0		−1.9		
			sS	05 36 32.0		−4.3		
			LN		$M_S = 5.7$		15.0	4.34
			LE				16.0	1.59
			LZ		$M_S = 5.4$		30.0	6.82
BJI	47.7	340	eP	05 29 34.5		−0.5		
			PMZ		$m_b = 5.2$		1.2	0.040
			PMZ		$m_B = 5.9$		7.0	1.28
			ePcP	05 31 08.0		4.1		
			ePP	05 31 24.0		−1.2		
			eS	05 36 25.0		−4.1		
			LN		$M_S = 5.9$		15.0	2.45
			LE				17.0	6.94
			LZ		$M_S = 5.6$		20.0	6.62
CN2	48.9	350	+P	05 29 42.0		−2.3		
			PMZ		$m_b = 4.9$		1.0	0.018
			PMZ		$m_B = 5.8$		6.0	0.88
			epP	05 29 54.0		2.3		
			ePcP	05 31 09.0		0.8		
			PP	05 31 36.0		−0.9		
			S	05 36 42.0		−2.9		
			SS	05 40 10.0		−1.1		
			LN		$M_S = 5.3$		14.0	1.08
			LE				14.0	1.23
			LZ		$M_S = 5.7$		18.0	7.87
MDJ	49.1	355	+iP	05 29 46.8		0.5		
			PMZ		$m_b = 5.6$		1.2	0.094
			pP	05 29 56.0		2.3		
			PP	05 31 38.0		−1.5		
			S	05 36 44.0		−4.6		
			LZ		$M_S = 5.5$		22.0	5.32
LZH	50.0	326	+iP	05 29 53.2		0.1		
			PMZ		$m_b = 6.1$		1.5	0.44
			PMZ		$m_B = 6.1$		7.0	1.81
			S	05 37 04.0		3.6		
			ScS	05 39 43.0		3.9		
			LE		$M_S = 5.4$		14.0	1.74
			LZ		$M_S = 5.2$		30.0	3.53
HHC	50.1	336	+P	05 29 53.6		−0.2		
			PMZ		$m_b = 5.1$		1.0	0.026
			pP	05 29 57.5		−3.6		
			PcP	05 31 12.0		−0.6		
			PP	05 31 49.0		0.0		
			PPMZ				11.0	0.86
			S	05 37 02.5		0.7		
			ScS	05 39 38.0		−1.8		
			SS	05 40 34.0		2.3		
			LN		$M_S = 5.6$		16.0	2.37
			LE				18.0	2.76
			LZ		$M_S = 5.6$		20.0	6.60
BTO	50.5	335	P	05 29 56.0		−1.0		
			ePcP	05 31 16.5		2.3		
			iS	05 37 10.0		1.0		
			SS	05 40 37.5		−1.5		
			LN		$M_S = 5.8$		21.0	5.20
			LE				17.0	3.00
LSA	54.3	312	P	05 30 25.0		−0.7		
			iS	05 38 03.0		1.5		
GTA	54.6	326	+iP	05 30 27.7		0.2		
			PMZ		$m_b = 5.5$		0.8	0.051
			PMZ		$m_B = 6.0$		5.5	1.21
			pP	05 30 36.0		1.1		
			sP	05 30 42.0		3.9		
			ScP	05 35 29.4		4.5		
			S	05 38 07.0		3.7		
			ScS	05 40 15.0		4.0		
			LE		$M_S = 5.6$		15.0	2.74
			LZ		$M_S = 5.4$		27.0	3.69
WMQ	64.4	324	+iP	05 31 34.0		−0.9		
			PMZ		$m_b = 5.3$		1.4	0.055
			PMZ		$m_B = 6.1$		6.0	1.36
			sP	05 31 47.5		1.8		
			PcP	05 32 04.0		−4.2		
			PP	05 33 58.3		0.9		
			PcS	05 36 06.2		−4.6		
			S	05 40 13.5		4.0		
			ScS	05 41 22.0		−1.0		
			LN		$M_S = 5.6$		15.0	2.07
			LZ		$M_S = 5.6$		18.0	3.38

OCT 17d 09h 05m 20.2 ± 0.06s, SD1.43 / 353
15.27 S ± 1.31km, 173.53 W ± 1.20km, h35 ± 0.21km
Tonga (173)
M_S5.8 / 28, m_B5.9 / 9, m_b5.6 / 61

QZH	77.3	300	eP	09 17 15.0		1.5		
			LZ		$M_S = 5.5$		36.0	4.40
SSE	77.8	307	P	09 17 17.5		1.2		
			pP	09 17 26.0		−0.2		
			LN		$M_S = 5.4$		16.0	0.70
			LE				16.0	0.70
			LZ		$M_S = 5.4$		20.0	1.70
MDJ	78.8	322	eP	09 17 22.4		0.2		
			PMZ		$m_b = 5.6$		1.1	0.080
			PMZ		$m_B = 5.9$		8.0	1.27
			sP	09 17 33.0		−3.2		
			S	09 27 20.0		4.8		
			sS	09 27 34.0		0.6		
			LN		$M_S = 6.3$		22.0	7.35
			LE				22.0	7.74
			LZ		$M_S = 5.9$		34.0	10.9
NJ2	80.0	307	+P	09 17 28.5		0.1		
			PMZ		$m_b = 5.3$		1.2	0.046
			LN		$M_S = 5.6$		11.5	1.01
			LE				15.0	0.61
			LZ		$M_S = 5.3$		28.0	1.89
CN2	80.9	320	+P	09 17 32.7		−0.6		
			PMZ		$m_b = 5.7$		1.0	0.10
			PMZ		$m_B = 5.9$		6.0	0.94
			PP	09 20 43.0		3.9		
			S	09 27 42.0		5.2		
			SS	09 32 56.0		1.8		
			LZ		$M_S = 6.1$		26.0	11.8
GZH	81.0	297	+P	09 17 35.0		1.1		
			LE		$M_S = 5.8$		10.0	1.27
SNY	81.1	318	+iP	09 17 34.0		−0.2		
			PMZ		$m_b = 5.7$		1.4	0.14
			pP	09 17 46.4		2.2		
			S	09 27 41.5		2.7		
			LN		$M_S = 5.6$		15.0	1.32
			LZ		$M_S = 5.7$		27.0	4.43
QZN	82.7	292	P	09 17 45.0		2.2		
			LE		$M_S = 5.6$		12.0	1.00
WHN	82.9	304	eP	09 17 46.0		2.4		
			pP	09 17 58.0		4.3		
			LE		$M_S = 5.7$		15.0	1.45
			LZ		$M_S = 5.2$		16.0	0.83
TIA	83.0	310	eP	09 17 45.6		1.4		
			PMZ		$m_B = 6.0$		8.0	1.39
			sP	09 17 58.0		−0.3		
			LE		$M_S = 5.6$		16.0	1.14
BJI	85.3	314	eP	09 17 57.5		1.9		
			PMZ		$m_b = 5.5$		1.3	0.064
			PMZ		$m_B = 5.9$		4.0	0.44

			epP	09 18 08.0	2.4			
			esP	09 18 12.0	2.3			
			ePP	09 21 16.0	1.8			
			eS	09 28 20.0	−2.6			
			eSS	09 33 54.0	−5.0			
			LN	M_S = 5.5		16.0	0.93	
			LZ	M_S = 5.6		25.0	3.26	
TIY	87.1	310	eP	09 18 03.8	−0.6			
			sP	09 18 18.0	−0.4			
			PP	09 21 34.0	4.5			
			SKS	09 28 30.0	4.9			
			LE	M_S = 5.8		25.0	2.88	
			LZ	M_S = 5.6		25.0	3.33	
GYA	87.9	298	P	09 18 09.8	1.5			
			PMZ	m_b = 5.4		1.2	0.040	
			PMZ			3.0	0.55	
			pP	09 18 22.6	4.3			
			LN	M_S = 5.8		12.0	1.20	
			LE			12.0	0.53	
XAN	88.5	306	P	09 18 11.8	0.8			
			PMZ	m_b = 5.1		1.5	0.024	
			sP	09 18 23.0	−2.1			
			LN	M_S = 5.8		13.0	1.20	
			LE			13.0	0.70	
HHC	88.8	313	eP	09 18 12.8	−0.2			
			PMZ	m_b = 5.6		1.0	0.050	
			pP	09 18 27.0	4.1			
			SKS	09 28 40.5	4.3			
			S	09 29 00.0	5.3			
			LN	M_S = 6.1		12.0	2.10	
			LE			11.0	1.62	
			LZ	M_S = 5.7		44.0	5.69	
BTO	89.9	312	P	09 18 18.0	0.2			
			sP	09 18 32.5	0.7			
			ePP	09 21 54.5	2.7			
			SKS	09 28 46.5	4.1			
			LN	M_S = 5.7		18.0	1.34	
			LE			18.0	1.03	
KMI	90.9	296	+P	09 18 24.0	1.4			
			PMZ	m_b = 5.6		1.5	0.060	
			sP	09 18 37.5	1.0			
			LZ	M_S = 5.7		38.0	5.00	
CD2	91.6	301	eP	09 18 27.0	1.0			
			LN	M_S = 6.0		13.0	2.33	
			LZ	M_S = 5.3		12.0	0.65	
LZH	93.0	306	eP	09 18 33.5	0.9			
			PMZ	m_b = 5.7		1.5	0.057	
			PMZ	m_B = 5.7		10.0	0.43	
			pP	09 18 42.0	−0.5			
			sP	09 18 47.0	0.4			
			LN	M_S = 5.6		22.0	1.46	
			LZ	M_S = 5.8		40.0	6.54	
GTA	97.0	309	P	09 18 51.4	0.8			
			PMZ	m_b = 5.5		1.0	0.013	
			pP	09 19 04.0	3.5			
			sP	09 19 09.4	4.8			
			SKS	09 29 22.0	0.0			
			LE	M_S = 6.0		22.0	3.30	
			LZ	M_S = 5.8		28.0	4.70	
WMQ	106.7	312	P	09 19 35.0	1.3			
			SKS	09 30 06.0	−2.5			
			S	09 31 26.0	−0.7			
			LZ	M_S = 5.5		34.0	2.21	

OCT 17d 09h 16m 28.2 ± 0.06s, SD2.15 / 17
17.94 N ± 0.78km, 119.88 E ± 0.94km, h33 ± 0.02km
Philippine Islands region (248)
M_S4.3 / 3, m_b4.6 / 3,

QZN	9.6	278	+P	09 18 43.6	−3.5			
			PMZ	m_b = 4.8		0.7	0.018	
			S	09 20 31.2	−3.4			

OCT 17d 15h 43m 25.5 ± 0.06s, SD0.98 / 222
17.95 S ± 0.26km, 178.62 W ± 0.65km, h557 ± 0.70km
Fiji region (181)
m_b5.6 / 1, m_b5.1 / 70,

NJ2	77.8	310	+P	15 54 27.0	−0.5			
			PMZ	m_b = 4.9		1.2	0.073	
MDJ	78.1	325	+iP	15 54 28.7	−0.4			
			PMZ	m_b = 5.1		1.3	0.11	
SNY	79.9	320	eP	15 54 35.2	−3.3			
CN2	79.9	322	+P	15 54 38.2	−0.5			
			PMZ	m_b = 5.1		1.3	0.11	
WHN	80.5	306	+eP	15 54 42.0	0.5			
			PMZ	m_b = 4.9		1.5	0.076	
BJI	83.7	315	eP	15 54 57.5	−0.2			
			PMZ	m_b = 5.0		1.3	0.062	
GYA	84.9	300	+iP	15 55 04.0	0.2			
			PMZ	m_b = 5.0		1.4	0.067	
TIY	85.1	312	+iP	15 55 05.0	0.0			
			PMZ	m_b = 5.1		1.2	0.060	
XAN	86.1	307	+P	15 55 09.7	0.0			
			PMZ	m_b = 5.2		1.1	0.060	
HHC	87.2	315	P	15 55 15.2	0.6			
			PMZ	m_b = 5.3		1.4	0.078	
KMI	87.7	297	+P	15 55 18.0	0.9			
			PMZ	m_b = 5.3		1.6	0.090	
BTO	88.1	314	eP	15 55 19.8	0.8			
LZH	90.8	308	+iP	15 55 32.0	0.6			
			PMZ	m_b = 5.5		1.5	0.085	
			PMZ	m_B = 5.6		4.0	0.28	
GTA	94.9	310	+P	15 55 50.0	−0.3			
			PMZ	m_b = 5.1		1.0	0.014	

OCT 17d 16h 46m 23.9 ± 0.06s, SD1.47 / 67
28.91 S ± 0.80km, 177.96 W ± 1.19km, h30 ± 0.21km
Kermadec Islands (178)
m_b5.1 / 15,

SSE	83.2	311	eP	16 58 49.0	−0.1			
			PMZ	m_b = 4.9		1.2	0.017	
NJ2	85.3	310	−P	16 59 00.0	0.1			
MDJ	87.4	325	+iP	16 59 07.9	−2.4			
			PMZ	m_b = 5.2		1.4	0.028	
WHN	87.5	307	−P	16 59 11.5	0.9			
			pP	16 59 23.5	3.8			
CN2	89.0	323	eP	16 59 17.5	−0.3			
TIA	89.0	313	−P	16 59 18.5	0.7			
TIY	92.9	312	eP	16 59 37.0	0.9			
CD2	95.3	302	eP	16 59 47.8	0.7			

OCT 17d 16h 57m 26.4 ± 0.03s, SD1.07 / 202
43.00 N ± 0.73km, 145.02 E ± 0.54km, h65 ± 0.22km
Hokkaido region (224)
M_S4.3 / 15, m_B5.3 / 5, m_b5.1 / 88

MDJ	11.3	284	+iP	17 00 07.9	0.8			
			PMZ	m_b = 5.9		1.4	0.28	
CN2	14.3	280	+iP	17 00 46.6	0.1			
			PMZ	m_b = 5.3		1.0	0.045	
			PMZ	m_B = 5.9		6.0	1.19	
			LN	M_S = 4.2		10.0	0.50	
			LE			10.0	0.24	
			LZ	M_S = 4.6		18.0	3.50	
SNY	15.9	273	+iP	17 01 07.1	−0.3			
			PMZ	m_b = 5.2		1.8	0.18	
			pP	17 01 23.0	2.3			
			LE	M_S = 4.1		12.0	0.56	

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			LZ		$M_S=4.2$		28.0	1.70
DL2	18.1	265	eP	17 01 34.0		−1.3		
BJI	21.8	272	−P	17 02 13.5		−0.8		
			PMZ		$m_b=5.0$		1.1	0.092
			LZ		$M_S=4.2$		22.0	0.99
SSE	22.3	246	eP	17 02 21.5		1.3		
			PMZ		$m_b=4.7$		1.0	0.037
			pP	17 02 39.5		4.5		
			sP	17 02 44.0		0.7		
			eS	17 06 12.0		−4.9		
			LN		$M_S=4.3$		13.0	0.50
			LZ		$M_S=4.0$		18.0	0.50
TIA	22.5	262	−P	17 02 21.2		−0.3		
			PMZ		$m_b=5.3$		1.4	0.19
			sP	17 02 42.3		−2.2		
			eS	17 06 20.0		0.8		
			LE		$M_S=4.3$		12.5	0.56
NJ2	23.4	251	+P	17 02 30.0		−0.1		
			PMZ		$m_b=5.3$		1.0	0.13
			PMZ				3.0	0.40
			pP	17 02 45.0		−0.1		
			LZ		$M_S=4.0$		20.0	0.47
HHC	24.9	277	−P	17 02 45.7		0.6		
			PMZ		$m_b=5.2$		1.0	0.11
			S	17 07 02.0		1.8		
			LN		$M_S=4.5$		9.0	0.20
			LE				10.0	0.49
			LZ		$M_S=4.2$		25.0	0.83
TIY	25.3	269	−iP	17 02 50.0		1.2		
			PMZ		$m_b=5.2$		1.0	0.067
			PMZ		$m_B=5.3$		8.0	0.75
			S	17 07 11.0		4.2		
			LN		$M_S=4.2$		12.0	0.32
			LZ		$M_S=4.2$		30.0	0.94
BTO	26.1	277	+iP	17 02 56.5		0.2		
			PMZ		$m_b=4.7$		1.0	0.020
			ePP	17 03 40.5		0.9		
			eS	17 07 24.0		2.9		
			LN		$M_S=4.6$		14.0	0.62
			LE				13.0	0.64
WHN	27.4	253	−P	17 03 08.8		0.9		
			PMZ		$m_b=5.3$		1.2	0.092
XAN	29.4	264	−iP	17 03 26.4		−0.1		
			PMZ		$m_b=5.5$		0.8	0.067
LZH	32.2	272	−iP	17 03 51.5		0.1		
			PMZ		$m_b=5.6$		1.8	0.18
			PMZ		$m_B=5.6$		4.0	0.42
			LZ		$M_S=4.1$		20.0	0.40
GTA	33.9	280	−iP	17 04 05.2		−0.4		
			PMZ		$m_b=5.3$		1.0	0.051
			pP	17 04 17.8		−3.3		
			PcP	17 06 44.0		1.7		
			ScP	17 10 23.0		2.9		
			ScS	17 14 24.0		3.5		
CD2	34.8	264	−iP	17 04 13.2		0.1		
			PMZ		$m_b=5.7$		0.8	0.11
			S	17 09 36.0		−1.4		
GYA	35.2	255	−iP	17 04 17.2		0.2		
			PMZ		$m_b=5.1$		1.0	0.030
			pP	17 04 31.6		−1.1		
			S	17 09 43.4		−0.8		
WMQ	40.9	292	−iP	17 05 04.8		0.3		
			PMZ		$m_b=5.5$		0.7	0.055
			SS	17 14 16.0		5.4		
			ScS	17 15 03.0		2.9		
			LZ		$M_S=4.8$		16.0	1.04

OCT 17d 17h 46m 55.5 ± 0.03s, SD1.06 / 184

86.99 N ± 0.50km, 63.48 E ± 0.54km, h10 ± 0.01km (144)
North of Franz Joseph Land
M_S5.0 / 16, m_B5.7 / 6, m_b5.1 / 80

WMQ	43.6	154	P	17 55 03.2		0.7		
			PMZ		$m_b=4.9$		2.5	0.055
			pP	17 55 11.0		3.1		
			LZ		$M_S=4.8$		20.0	1.31
MDJ	44.4	111	+iP	17 55 09.2		0.4		
			PMZ		$m_b=5.3$		1.0	0.054
CN2	45.0	115	P	17 55 12.8		−0.9		
			PMZ		$m_b=4.8$		1.0	0.017
			PcP	17 56 49.0		−5.3		
			eS	18 01 52.0		−0.1		
			SS	18 05 10.0		5.4		
			LN		$M_S=4.9$		11.0	0.54
			LE				11.0	0.26
			LZ		$M_S=5.4$		12.0	2.64
SNY	46.9	117	−iP	17 55 28.3		−0.2		
			PMZ		$m_b=5.3$		0.8	0.041
			S	18 02 12.0		−5.9		
			LN		$M_S=4.8$		11.0	0.44
			LZ		$M_S=4.7$		15.0	0.70
HHC	47.4	130	P	17 55 33.0		0.8		
BTO	47.5	131	eP	17 55 34.0		0.3		
			eS	18 02 28.0		−0.3		
			LN		$M_S=5.0$		14.0	0.62
			LE				13.0	0.38
BJI	48.4	125	eP	17 55 41.0		1.1		
			PMZ		$m_b=5.6$		1.9	0.16
			ePcP	17 57 03.0		−3.1		
			eS	18 02 45.0		5.5		
			LZ		$M_S=4.6$		20.0	0.60
GTA	48.4	142	−iP	17 55 40.8		0.7		
			PMZ		$m_b=5.1$		1.2	0.034
			PMZ		$m_B=5.6$		4.0	0.42
			pP	17 55 48.6		3.2		
			PcP	17 57 05.0		−1.1		
			PP	17 57 34.4		3.1		
			S	18 02 42.0		3.5		
			SS	18 06 02.0		−1.2		
			LE		$M_S=5.0$		12.0	0.70
			LZ		$M_S=4.9$		22.0	1.51
TIY	50.5	129	−P	17 55 57.0		0.4		
			LN		$M_S=4.9$		16.0	0.72
			LZ		$M_S=4.5$		26.0	0.57
LZH	51.8	138	−iP	17 56 07.4		0.9		
			PMZ		$m_b=5.4$		2.0	0.12
			PMZ		$m_B=5.7$		4.0	0.42
			pP	17 56 12.0		0.2		
			sP	17 56 15.0		0.4		
TIA	52.2	124	−P	17 56 09.7		0.3		
			S	18 03 37.0		5.1		
			LE		$M_S=5.0$		13.0	0.58
XAN	54.0	133	P	17 56 22.5		−0.5		
			PMZ		$m_b=4.7$		0.8	0.0080
NJ2	56.4	123	−P	17 56 39.5		−0.8		
CD2	57.0	138	eP	17 56 44.0		−0.2		
			PMZ		$m_b=5.2$		1.0	0.033
SSE	57.5	121	eP	17 56 45.8		−2.0		
			PMZ		$m_b=4.9$		1.0	0.017
			PMZ		$m_B=5.7$		4.0	0.40
			eS	18 04 47.0		3.2		
			LN		$M_S=4.9$		13.0	0.40
			LZ		$M_S=4.6$		20.0	0.50
WHN	57.7	128	+P	17 56 49.5		−0.1		
			pP	17 56 55.0		−0.1		
			eS	18 04 50.0		2.9		
			LZ		$M_S=4.9$		16.0	0.71

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GYA	61.5	136	−iP	17 57 16.0	0.3			
			PMZ	m_b = 5.7		1.0	0.10	
			PMZ	m_B = 5.9		4.0	0.65	
			pP	17 57 24.0	3.0			
			S	18 05 40.0	5.4			
			LN	M_S = 5.3		20.0	0.63	
			LE			20.0	1.45	
KMI	62.7	140	−P	17 57 23.0	−0.6			

OCT 17d 18h 11m 56.3 ± 0.07s, SD0.97 / 88
53.15 N ± 1.27km, 159.71 E ± 1.06km, h33 ± 0.07km
Off east coast of Kamchatka (219)
m_b5.0 / 46,

CN2	24.4	261	eP	18 17 09.8	−2.9			
			epP	18 17 19.0	−2.6			
GTA	42.4	276	−P	18 19 50.0	0.2			
			PMZ	m_b = 4.9		0.8	0.016	
			PcP	18 21 42.8	0.2			
WMQ	46.7	289	P	18 20 24.5	−0.2			
			PMZ	m_b = 5.1		0.5	0.014	
			LZ	M_S = 4.9		12.0	0.76	

OCT 17d 21h 33m 30.4 ± 0.05s, SD1.31 / 60
17.77 S ± 0.83km, 175.49 W ± 1.29km, h269 ± 0.24km
Tonga (173)
m_b4.8 / 19,

NJ2	80.0	308	+P	21 45 12.5	0.3			
			LZ			18.0	0.47	
CN2	81.6	321	eP	21 45 20.0	−0.6			
			PMZ	m_b = 4.6		0.8	0.0080	
			LZ			20.0	2.37	
WHN	82.8	305	eP	21 45 27.5	1.0			
BJI	85.7	314	eP	21 45 40.5	−0.4			
			LZ			18.0	0.35	
TIY	87.3	311	eP	21 45 49.0	0.3			
			LN			15.0	0.50	
			LZ			20.0	0.88	
HHC	89.2	314	P	21 45 58.0	0.2			
BTO	90.1	313	eP	21 46 02.9	0.6			
GTA	97.1	309	eP	21 46 33.8	−0.4			
			PMZ	m_b = 4.5		1.0	0.0040	
			LZ			20.0	0.65	

OCT 18d 03h 52m 07.8 ± 0.10s, SD1.79 / 45
23.95 N ± 1.47km, 121.57 E ± 1.30km, h3 ± 0.74km
Taiwan (244)
M_S4.4 / 21, M_L4.5 / 11, m_b4.4 / 15

SSE	7.1	357	P	03 53 53.5	−2.1			
			PMZ	m_b = 4.1		0.7	0.010	
			pP	03 54 00.3	1.2			
			eS	03 55 20.2	2.2			
			SMN	M_L = 4.4		1.2	0.12	
			SME			1.2	0.20	
			LN	M_S = 3.9		11.0	1.00	
			LZ	M_S = 3.8		20.0	1.50	
GZH	7.6	265	P	03 54 02.0	−0.2			
			SMN	M_L = 4.9		1.0	0.61	
			SME			1.0	0.16	
			LZ	M_S = 4.0		15.0	1.42	
NJ2	8.4	344	+P	03 54 11.5	−2.3			
			PMZ	m_b = 4.9		0.6	0.038	
			pP	03 54 20.0	2.7			
			S	03 55 49.0	−1.3			
			SMN	M_L = 4.6		1.0	0.11	
			SME			1.0	0.15	
			LN			3.5	1.01	
			LE			3.0	1.50	
			LZ	M_S = 4.0		14.0	1.24	

WHN	9.2	317	+P	03 54 23.0	−1.3			
			pP	03 54 30.0	2.1			
			S	03 56 08.0	−1.2			
			LN	M_S = 4.3		14.0	1.74	
			LE			13.0	1.31	
			LZ	M_S = 4.3		14.0	2.47	
QZN	12.0	248	eP	03 55 02.0	−0.4			
			eS	03 57 13.8	−3.8			
			LN	M_S = 3.9		12.0	0.51	
GYA	13.7	284	P	03 55 25.0	−1.1			
			S	03 57 56.4	−3.3			
			SMN			1.6	0.29	
			SME			1.6	0.21	
			LN	M_S = 4.5		12.0	0.53	
			LE			12.0	1.34	
			LZ	M_S = 4.5		14.0	2.35	
XAN	14.9	315	P	03 55 42.3	0.3			
			LE	M_S = 4.4		11.0	1.06	
TIY	15.8	332	eP	03 55 58.0	4.9			
			LN	M_S = 4.4		12.0	1.10	
			LZ	M_S = 4.5		13.0	1.56	
CD2	17.3	298	eP	03 56 10.4	−1.3			
HHC	18.8	336	P	03 56 32.8	1.5			
			PMZ	m_b = 4.6		1.0	0.025	
			LN	M_S = 4.3		13.0	0.70	
			LZ	M_S = 4.6		18.0	2.24	
BTO	19.2	332	eP	03 56 36.0	0.0			
			LN	M_S = 4.8		12.0	1.39	
			LE			12.0	1.12	
LZH	19.5	312	eP	03 56 40.0	0.7			
			PMZ	m_b = 4.7		1.5	0.048	
			sP	03 56 49.5	3.4			
CN2	20.1	8	eP	03 56 43.0	−2.4			
			PMZ	m_b = 3.9		0.8	0.0040	
			epP	03 56 53.0	3.6			
			LN	M_S = 4.5		12.0	0.60	
			LE			12.0	0.58	
			LZ	M_S = 4.5		16.0	1.74	
GTA	24.0	315	eP	03 57 26.0	1.0			
			PMZ	m_b = 4.4		1.0	0.014	
			LE	M_S = 4.6		13.0	0.88	
			LZ	M_S = 4.5		16.0	1.16	

OCT 18d 10h 32m 17.9 ± 0.03s, SD1.24 / 117
32.00 N ± 0.76km, 141.62 E ± 0.69km, h32 ± 0.13km
South of Honshu (211)
M_S4.6 / 20, m_B5.0 / 2, m_b5.1 / 56

MDJ	15.7	327	eP	10 35 59.5	0.8			
			PMZ	m_b = 4.6		0.8	0.021	
			LZ	M_S = 4.3		16.0	1.34	
CN2	17.3	317	eP	10 36 19.0	−0.2			
			PMZ	m_b = 4.2		1.0	0.012	
			epP	10 36 25.5	−1.1			
			LN	M_S = 4.5		12.0	0.76	
			LE			12.0	0.81	
			LZ	M_S = 4.6		16.0	2.31	
SNY	17.4	309	−P	10 36 22.2	2.0			
			PMZ	m_b = 4.9		1.0	0.058	
			LZ	M_S = 4.3		17.0	1.36	
SSE	17.4	272	P	10 36 23.5	3.0			
			PMZ	m_b = 4.2		1.0	0.012	
			LN	M_S = 4.4		12.0	0.40	
			LE			12.0	0.80	
			LZ	M_S = 3.9		20.0	0.60	
DL2	17.7	298	eP	10 36 26.0	2.7			
NJ2	19.3	276	eP	10 36 42.5	−0.6			
			LZ	M_S = 4.0		18.0	0.59	
BJI	22.0	298	eP	10 37 11.0	−0.6			

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			PMZ		$m_b = 4.3$		1.0	0.013
WHN	23.3	274	+eP	10 37 25.5		1.1		
			pP	10 37 31.0		−2.1		
			LN		$M_S = 4.7$		13.0	0.89
			LE				13.0	0.79
			LZ		$M_S = 4.1$		20.0	0.63
TIY	24.6	292	eP	10 37 36.0		−0.4		
			LN		$M_S = 4.6$		13.0	1.03
			LZ		$M_S = 4.7$		13.0	1.68
HHC	25.6	299	−P	10 37 47.2		0.4		
			LN		$M_S = 4.6$		11.5	0.44
			LE				11.0	0.57
			LZ		$M_S = 4.7$		15.0	1.77
BTO	26.8	298	P	10 37 57.0		−0.2		
			esP	10 38 05.5		−4.4		
			LN		$M_S = 5.0$		13.0	1.06
			LE				13.0	1.99
LZH	31.4	288	eP	10 38 37.5		−1.5		
			PMZ		$m_b = 4.8$		1.0	0.016
			eS	10 43 50.0		6.1		
			LE		$M_S = 4.7$		14.0	0.90
			LZ		$M_S = 4.6$		16.0	1.02
CD2	32.2	278	eP	10 38 44.6		−1.1		
			LN		$M_S = 5.0$		12.0	1.37
			LZ		$M_S = 4.5$		15.0	0.79
GTA	34.5	294	−P	10 39 05.0		−0.6		
			PMZ		$m_b = 5.0$		1.0	0.023
			pP	10 39 11.6		−3.0		
			sP	10 39 15.4		−3.1		
			LE		$M_S = 4.8$		14.0	0.93
			LZ		$M_S = 4.7$		14.0	0.94
WMQ	43.4	302	P	10 40 21.4		1.3		
			PMZ		$m_b = 4.9$		1.0	0.021
			sP	10 40 35.5		2.4		
			LZ		$M_S = 5.2$		8.0	1.33

OCT 18d 14h 04m 54.9 ± 0.04s, SD1.44 / 328
35.68 N ± 0.89km, 28.41 E ± 0.60km, h51 ± 0.14km
Dodecanese Islands (369)
M_S4.7 / 1, m_b5.2 / 56,

KSH	37.5	70	eP	14 12 09.5		3.4		
WMQ	45.4	61	P	14 13 14.0		2.8		
			PMZ		$m_b = 5.2$		0.8	0.029
			pP	14 13 20.0		−3.9		
			sP	14 13 26.5		−2.9		
			PcP	14 14 49.3		0.3		
LSA	52.4	78	P	14 14 05.2		0.2		
GTA	55.4	63	P	14 14 26.6		−0.2		
			PMZ		$m_b = 5.3$		1.0	0.040
			pP	14 14 41.6		1.9		
			LZ		$M_S = 4.4$		20.0	0.35
LZH	59.6	65	eP	14 14 57.8		1.3		
			PMZ		$m_b = 5.3$		1.8	0.069
			sP	14 15 14.0		−0.8		
			LE		$M_S = 4.7$		15.0	0.31
			LZ		$M_S = 4.6$		20.0	0.44
CD2	61.7	71	eP	14 15 10.6		−0.3		
BTO	62.2	58	eP	14 15 16.6		2.6		
HHC	63.1	58	P	14 15 20.6		0.2		
			PMZ		$m_b = 5.2$		1.0	0.029
XAN	64.2	65	eP	14 15 27.0		−0.4		
			PMZ		$m_b = 5.0$		0.6	0.011
TIY	65.1	60	eP	14 15 35.5		2.3		
GYA	66.1	74	P	14 15 41.4		2.1		
			pP	14 15 54.0		1.5		
BJI	66.6	57	eP	14 15 46.0		3.1		
			PMZ		$m_b = 4.8$		1.0	0.013
			pP	14 15 59.0		2.8		
TIA	69.1	60	eP	14 15 59.1		0.6		
			PMZ		$m_b = 4.8$		1.2	0.014
SNY	70.7	52	eP	14 16 10.0		2.1		
CN2	70.8	50	eP	14 16 11.4		2.5		
			PMZ		$m_b = 4.7$		1.0	0.011
			epP	14 16 17.5		−4.7		
QZN	72.4	79	eP	14 16 21.9		3.9		
NJ2	72.5	63	+P	14 16 21.5		2.9		
			PMZ		$m_b = 5.0$		0.9	0.018
			pP	14 16 35.0		3.1		

OCT 18d 17h 22m 54.7 ± 0.04s, SD1.16 / 449
24.21 S ± 1.03km, 177.55 W ± 0.91km, h194 ± 0.35km
South of Fiji (171)
m_B6.1 / 43, m_b5.7 / 100,

QZH	78.8	304	−P	17 34 37.5		−0.6		
			PMZ		$m_b = 5.3$		1.0	0.065
			PMZ		$m_B = 6.1$		4.0	1.65
			pP	17 35 22.0		−2.4		
			sP	17 35 44.0		−1.0		
			iS	17 44 17.0		−1.8		
			sS	17 45 40.0		0.5		
SSE	80.4	310	−P	17 34 45.5		−1.1		
			PMZ		$m_b = 5.8$		1.0	0.20
			PMZ		$m_B = 5.6$		6.0	0.80
			pP	17 35 35.0		2.0		
			sP	17 35 53.0		−0.6		
			S	17 44 32.0		−1.7		
			ScS	17 44 47.0		−3.3		
			sS	17 45 53.0		−3.3		
			LN				17.0	1.80
			LZ				20.0	2.90
GZH	81.9	300	−iP	17 34 55.0		0.5		
			PMZ		$m_B = 6.1$		5.0	1.82
			sP	17 36 05.0		3.4		
			iS	17 44 49.0		−1.8		
			LZ				32.0	2.50
NJ2	82.6	310	+P	17 34 57.0		−0.9		
			PMZ		$m_b = 5.4$		1.0	0.080
			PMZ		$m_B = 5.7$		5.5	0.86
			pP	17 35 45.0		0.5		
			iS	17 44 57.5		0.0		
			sS	17 46 21.0		2.1		
			LZ				25.0	2.16
QZN	82.8	294	−P	17 34 59.0		0.1		
			PMZ		$m_B = 5.9$		6.0	1.52
			pP	17 35 50.0		4.4		
			sP	17 36 06.5		0.5		
			S	17 44 58.0		0.1		
MDJ	83.8	325	−iP	17 35 03.5		−0.6		
			PMZ		$m_b = 5.6$		1.5	0.18
			PMZ		$m_B = 5.8$		8.0	1.58
			pP	17 35 50.0		−0.8		
			sP	17 36 12.0		0.7		
			S	17 45 08.0		0.0		
			SKS	17 45 04.0		0.5		
			sS	17 46 32.0		0.6		
			SS	17 50 42.0		−0.8		
			LN				14.0	1.38
			LE				16.0	1.83
			LZ				24.0	2.52
DL2	84.7	317	eP	17 35 08.0		−0.7		
			pP	17 35 57.0		1.5		
			sS	17 46 40.0		−0.6		
WHN	85.0	307	−P	17 35 10.5		0.5		
			PMZ		$m_b = 5.6$		1.8	0.20
			PMZ		$m_B = 6.1$		5.0	1.56
			S	17 45 13.0		−6.7		

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			LN			18.0	2.43
			LE			20.0	1.88
SNY	85.3	320	−iP	17 35 10.0	−1.7		
			PMZ	$m_b = 5.4$		1.4	0.090
			PMZ	$m_B = 6.0$		4.0	0.97
			LN			16.0	2.25
			LZ			25.0	1.86
CN2	85.5	322	+iP	17 35 11.2	−1.3		
			PMZ	$m_b = 5.8$		1.4	0.23
			PMZ	$m_B = 6.1$		5.0	1.80
			pP	17 35 58.0	−1.4		
			LN			15.0	0.85
			LE			15.0	0.61
			LZ			20.0	4.75
TIA	86.1	313	−P	17 35 15.4	−0.1		
			PMZ	$m_b = 5.7$		1.6	0.23
			pP	17 36 03.0	0.6		
BJI	88.8	315	−P	17 35 28.0	−0.4		
			PMZ	$m_b = 6.0$		2.0	0.46
			PMZ	$m_B = 6.2$		4.0	1.33
			epP	17 36 18.0	2.4		
			ePP	17 39 02.5	0.6		
			eSKS	17 45 40.0	3.8		
			eS	17 46 00.0	2.5		
			eSS	17 51 58.0	2.0		
GYA	88.8	300	−iP	17 35 29.0	0.3		
			PMZ	$m_b = 5.5$		1.8	0.13
			PMZ	$m_B = 5.2$		5.0	0.16
			sP	17 36 38.0	1.9		
			SKS	17 45 40.0	3.6		
			S	17 45 58.0	2.0		
			SS	17 51 56.0	−0.4		
			LN			18.0	2.30
			LE			18.0	1.27
			LZ			40.0	4.46
TIY	90.0	312	+P	17 35 34.5	0.1		
			PMZ	$m_b = 5.8$		1.2	0.16
			PMZ	$m_B = 6.2$		4.0	1.24
			pP	17 36 22.0	0.4		
			SKS	17 45 45.5	1.8		
			S	17 46 14.0	6.9		
			LN			16.0	0.43
			LZ			26.0	3.12
XAN	90.7	307	−iP	17 35 37.6	0.2		
			PMZ	$m_b = 5.2$		0.9	0.024
			SKS	17 45 48.0	0.5		
			S	17 46 17.0	4.1		
			LN			13.0	1.64
			LE			16.0	2.02
KMI	91.4	297	−P	17 35 42.0	1.2		
			PMZ	$m_b = 6.1$		2.0	0.39
			PMZ	$m_B = 6.2$		4.0	1.10
			SKS	17 45 54.0	2.4		
			S	17 46 24.0	4.9		
			LZ			24.0	2.60
HHC	92.2	314	−iP	17 35 44.0	−0.5		
			PMZ	$m_b = 6.0$		1.6	0.23
			SKS	17 45 57.0	0.8		
			LN			18.0	1.60
			LE			17.0	1.02
			LZ			32.0	2.46
BTO	93.1	313	+iP	17 35 48.5	−0.1		
			PMZ	$m_b = 5.8$		1.6	0.13
			PMZ	$m_B = 6.0$		5.0	0.72
			PP	17 39 39.0	2.8		
			SKS	17 46 02.0	0.7		
			S	17 46 39.0	5.0		
			LN			16.0	0.86
			LE			18.0	2.21
CD2	93.1	302	−iP	17 35 49.3	0.7		
			PMZ	$m_b = 6.0$		2.0	0.29
			PMZ	$m_B = 6.3$		5.0	1.54
			sP	17 36 58.0	1.7		
			iSKS	17 46 02.5	1.2		
			S	17 46 40.0	5.9		
LZH	95.3	307	−iP	17 35 59.3	0.5		
			PMZ	$m_b = 5.6$		1.8	0.10
			PMZ	$m_B = 5.9$		5.0	0.54
			pP	17 36 50.5	4.6		
			sP	17 37 08.0	1.7		
			SKS	17 46 14.0	0.7		
			S	17 46 54.0	1.1		
			LN			18.0	1.74
			LZ			28.0	2.65
GTA	99.6	309	−P	17 36 17.8	−0.5		
			PMZ	$m_b = 5.7$		1.4	0.038
			PMZ	$m_B = 6.3$		3.5	0.42
			SKS	17 46 35.0	−0.5		
			LE			14.0	1.12
			LZ			22.0	3.33
LSA	102.6	297	P	17 36 32.4	0.3		
			iS	17 47 52.0	−5.1		

OCT 18d 17h 37m 24.9 ± 0.06s, SD2.92 / 10
35.65 N ± 0.43km, 118.83 E ± 0.72km, h6 ± 0.15km
Eastern China (664)
M_L3.5 / 8,

TIA	1.5	293	−Pg	17 37 50.3	−1.0		
			Sg	17 38 09.1	−2.6		
NJ2	3.6	180	ePn	17 38 23.5	2.2		
			−Pg	17 38 27.8	−0.4		
			Sn	17 39 08.7	2.8		
			SMN	$M_L = 3.9$		0.4	0.27
			SME			0.4	0.32
DL2	3.9	34	ePg	17 38 34.8	0.2		
			Pg	17 38 41.0	6.4		
			Sg	17 39 29.0	0.5		
SSE	4.9	156	Pn	17 38 41.5	1.5		
			Pg	17 38 50.0	−2.2		
			Sn	17 39 36.0	−3.7		
			Sg	17 39 54.8	−5.1		
			SMN	$M_L = 3.0$		0.5	0.010
			SME			0.5	0.026

OCT 18d 19h 10m 10.0 ± 0.04s, SD1.35 / 133
7.84 N ± 0.61km, 122.18 E ± 0.92km, h35 ± 0.07km
Mindanao (259)
M_S5.0 / 34, m_B5.6 / 11, m_b5.3 / 47

QZN	16.4	314	−P	19 13 59.0	0.3		
			PMZ	$m_b = 5.4$		1.2	0.22
			PMZ	$m_B = 5.6$		5.0	1.42
			S	19 17 02.0	4.0		
			sS	19 17 08.0	−2.7		
			LN	$M_S = 5.0$		11.5	3.10
			LE			11.5	1.80
QZH	17.4	349	eP	19 14 10.5	−0.8		
			pP	19 14 17.0	−2.1		
			S	19 17 18.0	−3.0		
			SS	19 17 40.0	−2.7		
			LE	$M_S = 4.8$		20.0	3.41
			LZ	$M_S = 4.7$		24.0	4.04
GZH	17.4	332	+iP	19 14 15.0	3.4		
			eS	19 17 25.0	2.8		
			LN	$M_S = 4.7$		14.0	1.74
			LE			12.0	1.20
			LZ	$M_S = 4.8$		18.0	4.24

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SSE	23.2	358	+P	19	15	17.5	2.9		
			PMZ			$m_b = 4.8$		1.5	0.067
			pP	19	15	27.0	3.3		
			S	19	19	23.0	3.9		
			sS	19	19	39.0	4.0		
			LN			$M_S = 4.8$		17.0	1.80
			LE					16.0	1.20
			LZ			$M_S = 4.8$		20.0	3.30
GYA	23.7	323	−iP	19	15	20.0	0.3		
			+iP	19	15	21.4	2.3		
			PMZ			$m_b = 5.1$		1.8	0.13
			PMZ			$m_B = 5.6$		4.0	1.09
			LN			$M_S = 5.1$		14.0	3.02
			LE					14.0	2.21
			LZ			$M_S = 5.0$		20.0	4.38
WHN	23.8	343	+eP	19	15	22.0	1.7		
			PMZ			$m_B = 5.2$		5.0	0.52
			sP	19	15	36.0	2.3		
			LN			$M_S = 5.0$		12.0	1.30
			LE					12.0	1.83
			LZ			$M_S = 4.9$		18.0	3.61
NJ2	24.3	353	+P	19	15	26.5	1.0		
			PMZ			$m_B = 5.2$		4.0	0.36
			sP	19	15	40.0	1.0		
			iS	19	19	45.5	6.0		
			LZ			$M_S = 4.5$		28.0	1.89
KMI	25.3	315	−P	19	15	35.5	−0.1		
			PMZ			$m_B = 5.7$		4.0	0.80
			pP	19	15	49.5	4.9		
			eS	19	20	00.0	2.9		
			LN			$M_S = 4.7$		12.0	0.60
			LE					12.0	0.90
			LZ			$M_S = 5.1$		24.0	6.00
TIA	28.6	351	eP	19	16	06.5	0.8		
			LE			$M_S = 4.5$		14.0	0.68
CD2	28.7	326	eP	19	16	04.9	−1.5		
			PMZ			$m_b = 5.0$		1.2	0.037
			pP	19	16	13.0	−2.8		
			S	19	20	52.0	1.0		
			sS	19	21	04.0	−3.7		
			ScS	19	26	45.0	−0.2		
			LE			$M_S = 5.1$		13.0	2.14
			LZ			$M_S = 5.1$		18.0	3.73
XAN	28.8	337	P	19	16	05.9	−1.5		
TIY	31.0	345	eP	19	16	27.0	−0.2		
			S	19	21	27.5	−0.3		
			LN			$M_S = 4.9$		14.0	1.55
			LZ			$M_S = 5.0$		18.0	3.17
LZH	32.7	332	+iP	19	16	42.5	0.3		
			PMZ			$m_b = 5.3$		2.0	0.11
			PMZ			$m_B = 5.5$		4.0	0.35
			pP	19	16	53.0	1.5		
			sP	19	16	56.5	0.9		
			PP	19	17	50.5	−0.9		
			S	19	21	55.0	0.5		
			sS	19	22	10.0	−1.3		
			LE			$M_S = 5.0$		14.0	1.55
			LZ			$M_S = 5.0$		22.0	3.08
SNY	33.9	2	eP	19	16	50.2	−1.7		
HHC	34.2	346	eP	19	16	54.8	−0.1		
			sP	19	17	10.5	2.0		
			LN			$M_S = 4.9$		18.0	1.60
			LE					18.0	1.80
			LZ			$M_S = 4.9$		26.0	3.24
BTO	34.4	343	eP	19	16	55.5	−0.9		
			epP	19	17	05.0	−0.9		
			ePP	19	18	13.0	1.4		
			eS	19	22	23.0	1.8		
			LN			$M_S = 5.0$		16.0	1.57
			LE					13.0	0.80
CN2	35.9	4	eP	19	17	08.8	−0.8		
			PMZ			$m_b = 4.9$		1.2	0.025
			epP	19	17	15.0	−4.2		
			PP	19	18	34.0	2.9		
			LN			$M_S = 4.7$		11.0	0.25
			LE					11.0	0.52
			LZ			$M_S = 5.2$		20.0	3.86
LSA	36.3	311	−iP	19	17	14.0	0.5		
			PMZ			$m_b = 5.1$		0.6	0.020
			iS	19	22	54.0	1.8		
GTA	37.3	331	−iP	19	17	21.4	0.2		
			PMZ			$m_b = 5.5$		1.0	0.074
			PMZ			$m_B = 5.9$		4.0	0.75
			sP	19	17	38.2	3.4		
			PcP	19	19	37.8	−2.0		
			S	19	23	07.0	1.9		
			LN			$M_S = 5.3$		16.0	2.73
			LZ			$M_S = 5.3$		18.0	4.19
WMQ	46.8	326	P	19	18	38.5	−0.1		
			PMZ			$m_b = 5.3$		0.7	0.030
			pP	19	18	44.0	−4.2		
			PcP	19	20	15.0	3.9		
			LZ			$M_S = 5.4$		19.0	3.73

OCT 18d 19h 27m 58.6 ± 0.03s, SD1.24 / 59
24.02 S ± 1.19km, 175.75 W ± 1.02km, h21 ± 0.41km
South of Fiji (171)
m_b5.3 / 27,

MDJ	84.6	324	eP	19	40	32.0	−0.6		
			PMZ			$m_b = 5.3$		1.0	0.027
WHN	86.2	306	eP	19	40	41.5	0.9		
CN2	86.3	322	P	19	40	41.0	−0.4		
			PMZ			$m_b = 5.3$		1.2	0.035
			LZ			$M_S = 5.3$		20.0	1.25
TIA	87.2	312	eP	19	40	45.6	0.2		
			PMZ			$m_b = 5.5$		1.4	0.055
BJI	89.8	315	eP	19	40	58.0	−0.1		
			PMZ			$m_b = 5.3$		1.7	0.039
TIY	91.2	311	eP	19	41	04.6	0.2		
XAN	91.9	307	P	19	41	08.4	0.6		
			PMZ			$m_b = 4.9$		1.0	0.0070
			pP	19	41	12.5	−2.5		
KMI	92.8	296	+P	19	41	13.0	1.0		
			PMZ			$m_b = 5.8$		1.8	0.090
HHC	93.3	313	P	19	41	14.0	−0.2		
			PMZ			$m_b = 5.6$		1.4	0.039
BTO	94.2	313	eP	19	41	19.0	0.7		
LZH	96.5	306	eP	19	41	29.0	−0.1		
			PMZ			$m_b = 5.6$		1.2	0.019
			pP	19	41	34.0	−2.2		
GTA	100.8	308	eP	19	41	48.0	−0.4		
			PMZ			$m_b = 5.3$		1.0	0.0060

OCT 18d 23h 22m 01.7 ± 0.06s, SD1.28 / 86
2.57 N ± 0.82km, 127.91 E ± 1.10km, h24 ± 0.16km
Molucca Passage (266)
M_S4.5 / 4, m_B5.3 / 1, m_b5.0 / 24

GZH	24.8	327	eP	23	27	22.0	−1.7		
NJ2	30.5	345	+P	23	28	16.0	0.0		
WHN	30.6	337	+P	23	28	18.7	1.8		
			PMZ			$m_b = 5.1$		1.0	0.031
			pP	23	28	26.0	1.5		
			eS	23	33	22.0	5.2		
			LE			$M_S = 4.2$		12.0	0.23
			LZ			$M_S = 4.2$		24.0	0.68
TIA	34.9	345	eP	23	28	54.2	−0.1		

XAN	36.0	333	P	23 29 03.0	−0.2			
			PMZ	$m_b = 4.9$		1.5	0.033	
			sP	23 29 11.0	−3.2			
			PP	23 30 19.3	−5.2			
CD2	36.3	324	eP	23 29 05.6	−0.1			
TIY	37.7	340	+P	23 29 19.2	1.0			
			LZ	$M_S = 4.4$		20.0	0.63	
BJI	38.8	346	eP	23 29 27.5	0.8			
			PMZ	$m_b = 5.3$		1.5	0.070	
			eS	23 35 20.0	−2.9			
SNY	39.3	355	+P	23 29 31.4	0.6			
			PMZ	$m_b = 5.1$		1.2	0.035	
			pP	23 29 38.3	−0.2			
			sP	23 29 43.8	1.8			
LZH	40.1	329	eP	23 29 38.8	1.0			
			PMZ	$m_b = 5.3$		1.5	0.081	
			PMZ	$m_B = 5.3$		4.0	0.21	
			eS	23 35 40.0	−2.9			
			LN	$M_S = 4.7$		16.0	0.58	
			LZ	$M_S = 4.4$		28.0	0.82	
HHC	40.9	341	+P	23 29 44.8	0.7			
			PMZ	$m_b = 4.7$		1.0	0.014	
CN2	41.1	357	eP	23 29 45.0	−1.1			
			PMZ	$m_b = 4.4$		1.0	0.0070	
			epP	23 29 52.0	−1.7			
			LZ	$M_S = 4.7$		16.0	0.92	
BTO	41.2	339	eP	23 29 47.5	0.9			
MDJ	41.9	2	eP	23 29 52.0	−0.5			
			PMZ	$m_b = 5.2$		1.5	0.060	
LSA	44.1	312	P	23 30 10.8	0.0			
GTA	44.7	329	P	23 30 15.8	0.5			
			PMZ	$m_b = 5.0$		1.0	0.026	
			pP	23 30 24.2	1.3			
			LZ	$M_S = 4.4$		34.0	0.77	
WMQ	54.3	325	P	23 31 29.5	0.1			
			PMZ	$m_b = 5.1$		1.2	0.030	
			pP	23 31 35.5	−1.6			
			sP	23 31 44.0	3.5			

OCT 19d 01h 55m 26.8 ± 0.04s, SD1.00 / 64
0.87 N ± 0.93km, 97.39 E ± 0.71km, h28 ± 0.28km
Off west coast of Northern Sumatera (705)
M_S4.9 / 2, m_b5.0 / 31,

KMI	24.7	12	+P	02 00 48.0	0.8			
			PMZ	$m_b = 5.2$		1.5	0.13	
GYA	27.0	19	−iP	02 01 08.0	−0.4			
			LN	$M_S = 4.9$		16.0	1.65	
			LE			16.0	1.53	
			LZ	$M_S = 4.4$		16.0	0.84	
LSA	29.3	349	+iP	02 01 31.0	1.4			
CD2	30.5	11	eP	02 01 38.3	−1.6			
XAN	34.7	17	+P	02 02 15.0	−1.9			
			pP	02 02 22.5	−2.8			
LZH	35.5	9	P	02 02 23.5	−0.6			
			PMZ	$m_b = 4.9$		1.2	0.027	
			LZ	$M_S = 4.4$		18.0	0.54	
GTA	38.4	3	+iP	02 02 48.0	−0.2			
			PMZ	$m_b = 5.3$		0.8	0.040	
			pP	02 03 00.0	3.4			
TIY	39.2	19	eP	02 02 53.9	−0.7			
			LN	$M_S = 4.9$		10.0	0.54	
			LE			9.0	0.34	
			LZ	$M_S = 4.9$		12.0	1.20	
HHC	41.8	16	eP	02 03 17.0	0.7			
BJI	42.6	21	+P	02 03 23.5	1.1			
			PMZ	$m_b = 5.1$		1.0	0.034	
WMQ	43.6	350	P	02 03 31.5	0.5			
			pP	02 03 41.5	2.0			
SNY	47.1	27	+P	02 03 58.0	−0.7			
			PMZ	$m_b = 5.2$		1.0	0.031	
CN2	49.5	27	+P	02 04 16.5	−0.9			
			PMZ	$m_b = 5.0$		1.0	0.022	
			csP	02 04 34.0	4.4			
			LZ	$M_S = 5.0$		15.0	1.16	

OCT 19d 04h 09m 06.6 ± 0.04s, SD1.16 / 90
53.67 N ± 0.77km, 167.20 W ± 0.64km, h34 ± 0.21km
Fox Islands (9)
m_b5.0 / 26,

CN2	43.9	286	eP	04 17 15.0	2.5			
GTA	61.0	298	eP	04 19 17.8	−2.3			

OCT 19d 04h 19m 01.5 ± 0.04s, SD2.07 / 15
28.59 N ± 0.42km, 103.77 E ± 0.40km, h7 ± 0.17km
Sichuan Province (307)
M_L3.4 / 11,

CD2	2.3	360	Pn	04 19 43.0	2.6			
			Sn	04 20 12.4	1.5			
			SMN	$M_L = 3.6$		0.5	0.40	
			SME			0.6	0.44	
GYA	3.3	129	Pn	04 19 56.8	2.2			
			Sn	04 20 33.8	−2.5			
			SMN	$M_L = 3.4$		0.8	0.15	
			SME			0.8	0.11	
KMI	3.6	195	Pg	04 20 05.5	1.0			
XAN	7.0	38	ePn	04 20 43.0	−1.7			
			Pg	04 21 08.5	3.6			
			Sg	04 22 39.5	−1.0			
			SMN	$M_L = 3.8$		1.0	0.052	
			SME			1.0	0.041	

OCT 19d 04h 59m 07.5 ± 0.03s, SD1.31 / 144
53.75 N ± 1.05km, 167.21 W ± 0.56km, h32 ± 0.21km
Fox Islands (9)
M_S4.9 / 3, m_B5.6 / 4, m_b5.0 / 46

CN2	43.9	285	+P	05 07 13.0	−0.3			
			PMZ	$m_b = 4.7$		1.0	0.011	
			PMZ	$m_B = 5.6$		9.0	0.85	
			epP	05 07 19.0	−3.6			
			ePP	05 09 00.0	2.7			
			LN	$M_S = 4.9$		12.0	0.54	
			LE			12.0	0.28	
			LZ	$M_S = 5.4$		20.0	4.45	
SNY	46.2	285	−P	05 07 30.0	−1.8			
			PMZ	$m_B = 5.6$		8.0	0.71	
			PP	05 09 24.0	4.1			
			LZ	$M_S = 5.1$		20.0	2.43	
BJI	51.6	288	eP	05 08 12.0	−1.4			
			LZ	$M_S = 5.0$		24.0	1.92	
BTO	54.7	292	eP	05 08 36.0	−0.3			
			eS	05 16 13.0	0.1			
SSE	55.0	276	+P	05 08 36.0	−2.2			
			PMZ	$m_B = 5.5$		6.0	0.40	
			LE	$M_S = 4.9$		12.0	0.40	
			LZ	$M_S = 4.9$		20.0	1.10	
XAN	59.9	287	eP	05 09 13.8	0.2			
GTA	61.0	298	eP	05 09 20.2	−0.7			
			PMZ	$m_b = 4.7$		1.0	0.0090	
			pP	05 09 27.6	−2.5			
LZH	61.3	293	eP	05 09 25.0	2.2			
			PMZ	$m_b = 5.0$		1.2	0.021	
			sP	05 09 31.5	−4.4			
WMQ	63.7	309	P	05 09 37.5	−1.3			
GYA	66.9	283	−iP	05 10 04.0	4.6			
			PMZ	$m_b = 5.1$		1.4	0.033	
			PMZ	$m_B = 5.8$		4.0	0.54	

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			S	05	18	52.0	4.5		
			LN			$M_S=5.5$		20.0	0.73
			LE					20.0	1.63
KMI	70.1	286	+P	05	10	19.5	−0.2		

OCT 19d 05h 18m 47.3 ± 0.05s, SD1.01 / 380
44.37 N ± 1.05km, 149.55 E ± 0.66km, h46 ± 0.16km
Kurile Islands region (222)
M_S5.2 / 44, m_B5.8 / 15, m_b5.5 / 119

MDJ	14.3	278	−iP	05	22	09.0	0.7		
			PMZ			$m_b=5.9$		1.0	0.19
			pP	05	22	18.0	1.1		
			sP	05	22	26.0	3.0		
			LN			$M_S=5.3$		16.0	7.74
			LE					14.0	9.17
			LZ			$M_S=5.0$		16.0	7.58
CN2	17.3	277	P	05	22	46.0	−1.5		
			PMZ			$m_b=5.4$		1.0	0.17
			PMZ					3.0	0.31
			epP	05	22	52.0	−4.7		
			eS	05	25	50.0	−6.4		
			LN			$M_S=4.9$		13.0	1.54
			LE					13.0	2.84
			LZ			$M_S=5.5$		18.0	19.5
SNY	19.1	271	−iP	05	23	09.0	−0.3		
			PMZ			$m_b=5.5$		1.6	0.38
			sP	05	23	26.0	1.4		
			LN			$M_S=5.1$		16.0	3.60
			LE					19.0	4.06
			LZ			$M_S=5.1$		18.0	7.61
DL2	21.5	265	+P	05	23	33.0	−1.5		
BJI	25.0	272	+P	05	24	09.0	0.4		
			PMZ			$m_b=5.9$		2.0	0.99
			PMZ					3.0	1.35
			LN			$M_S=5.1$		14.0	1.66
			LE					16.0	2.93
			LZ			$M_S=5.1$		18.0	5.61
SSE	25.9	249	+P	05	24	18.0	0.9		
			PMZ			$m_b=5.4$		1.6	0.17
			PMZ			$m_B=5.7$		4.0	0.80
			sP	05	24	35.0	1.4		
			LN			$M_S=5.2$		16.0	1.10
			LE					16.0	4.10
			LZ			$M_S=5.1$		20.0	5.10
TIA	25.9	263	+P	05	24	17.3	0.1		
			PMZ			$m_b=5.6$		1.6	0.27
			sP	05	24	32.0	−1.6		
			LN			$M_S=5.1$		18.0	1.35
			LE					18.0	3.71
			LZ			$M_S=4.9$		19.0	3.05
NJ2	26.9	253	−P	05	24	27.0	0.6		
			PMZ			$m_b=5.7$		1.1	0.19
			PMZ			$m_B=5.1$		12.0	0.49
			sP	05	24	44.5	1.6		
			LZ			$M_S=5.6$		9.0	6.42
HHC	28.0	276	+P	05	24	37.0	0.4		
			PMZ			$m_b=6.0$		1.2	0.36
			pP	05	24	47.0	−0.8		
			sP	05	24	57.0	4.1		
			LN			$M_S=5.3$		13.0	1.48
			LE					14.0	3.95
			LZ			$M_S=5.3$		18.0	7.01
TIY	28.6	270	eP	05	24	42.0	0.3		
			PMZ			$m_b=5.3$		1.2	0.081
			LN			$M_S=5.0$		14.5	1.24
			LE					14.5	1.40
			LZ			$M_S=5.0$		19.0	3.46
BTO	29.2	277	−iP	05	24	47.0	−0.2		
			PMZ			$m_b=5.4$		1.4	0.10
			LN			$M_S=5.4$		15.0	3.31
			LE					16.0	3.90
WHN	30.9	255	+P	05	25	02.0	−0.2		
			PMZ			$m_b=5.4$		1.0	0.068
			PMZ			$m_B=5.5$		4.0	0.35
			pP	05	25	16.0	2.3		
			LN			$M_S=5.4$		15.0	1.64
			LE					17.0	5.20
			LZ			$M_S=5.3$		18.0	6.02
XAN	32.8	266	P	05	25	17.6	−1.5		
			PMZ			$m_b=5.4$		1.1	0.063
			sP	05	25	32.0	−3.6		
			LN			$M_S=5.2$		13.0	1.97
			LE					14.0	1.71
LZH	35.5	273	+iP	05	25	42.3	0.3		
			PMZ			$m_b=5.9$		1.5	0.32
			PMZ			$m_B=5.9$		4.0	0.76
			pP	05	25	55.0	1.5		
			sP	05	25	58.0	−0.5		
			sS	05	31	30.0	−2.7		
			SMZ					13.0	1.06
			LZ			$M_S=5.0$		20.0	2.91
GZH	36.4	246	+P	05	25	51.8	2.0		
			LN			$M_S=5.7$		16.0	7.27
			LE					16.0	1.11
			LZ			$M_S=5.2$		18.0	3.63
GTA	36.9	280	+iP	05	25	55.0	1.1		
			PMZ			$m_b=5.8$		1.0	0.15
			PMZ			$m_B=6.0$		3.5	0.84
			pP	05	26	08.0	2.6		
			ScS	05	36	05.6	4.1		
			LE			$M_S=5.4$		13.0	3.19
			LZ			$M_S=5.3$		16.0	3.54
CD2	38.2	265	+iP	05	26	04.8	0.2		
			PMZ			$m_b=6.0$		1.2	0.27
			pP	05	26	12.0	−4.3		
			sP	05	26	18.0	−3.4		
			PcP	05	28	18.5	0.3		
			eS	05	31	57.0	2.6		
			PcS	05	32	10.0	4.2		
			sS	05	32	12.0	−2.4		
			LE			$M_S=5.2$		14.0	1.91
			LZ			$M_S=5.1$		16.0	2.14
GYA	38.8	257	+iP	05	26	09.4	0.0		
			PMZ			$m_b=5.7$		1.4	0.18
			PMZ					3.0	0.55
			pP	05	26	17.0	−4.0		
			sP	05	26	22.0	−4.1		
			ScP	05	31	58.0	−4.6		
			PcS	05	32	04.0	−4.0		
			sS	05	32	22.0	−0.9		
			LN			$M_S=5.5$		15.0	3.06
			LE					15.0	2.60
			LZ			$M_S=5.5$		18.0	6.48
QZN	41.6	246	eP	05	26	28.5	−4.3		
			PMZ			$m_b=5.9$		1.1	0.23
			PMZ			$m_B=6.5$		5.0	4.10
			LN			$M_S=5.4$		18.0	2.30
			LE					17.0	2.00
KMI	42.3	259	+P	05	26	40.0	1.0		
			PMZ			$m_b=6.0$		1.6	0.36
			PMZ			$m_B=5.9$		4.0	0.70
			pP	05	26	51.0	0.5		
			eS	05	33	02.0	5.5		
			LN			$M_S=5.2$		15.0	1.30
			LE					15.0	1.20
			LZ			$M_S=5.4$		18.0	4.30

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WMQ	43.5	292	+iP	05 26 48.8	0.6			
			PMZ	$m_b = 5.6$		1.0	0.081	
			PMZ	$m_B = 5.9$		4.0	0.73	
			LN	$M_S = 5.7$		15.0	5.57	
			LZ	$M_S = 5.5$		18.0	6.01	
LSA	47.9	273	P	05 27 25.0	1.2			
			pP	05 27 38.0	2.8			
			eS	05 34 15.0	−2.1			
			LN	$M_S = 4.9$		13.0	0.56	
KSH	53.3	292	P	05 28 04.0	−0.3			

OCT 19d 08h 48m 19.1 ± 0.04s, SD1.48 / 306
8.97 S ± 0.98km, 117.18 E ± 1.26km, h95 ± 0.06km
Sumbawa region (285)
m_B5.7 / 5, m_b5.8 / 86,

GZH	32.1	353	P	08 54 40.0	0.5			
			PMZ	$m_b = 5.4$		1.0	0.068	
			pP	08 55 02.6	1.8			
QZH	33.7	2	eP	08 54 55.0	1.2			
GYA	36.7	344	+iP	08 55 20.0	1.1			
			PMZ	$m_b = 5.8$		1.2	0.21	
			PMZ			3.0	0.66	
			pP	08 55 42.0	1.5			
			PcP	08 57 40.4	0.9			
			S	09 00 54.0	0.3			
			ScP	09 01 18.6	2.5			
			PcS	09 01 22.0	−4.2			
			ScS	09 05 23.8	2.1			
			LN			16.0	0.82	
			LE			16.0	1.53	
			LZ			20.0	0.94	
KMI	36.7	338	+P	08 55 21.5	2.1			
			PMZ	$m_b = 5.8$		1.0	0.16	
			PMZ			3.0	0.50	
			pP	08 55 43.0	2.1			
			eS	09 01 02.0	6.2			
			LZ			16.0	1.20	
WHN	39.4	356	+P	08 55 43.0	1.7			
			PMZ	$m_b = 5.5$		1.0	0.081	
			ipP	08 56 06.2	3.0			
			iPcP	08 57 48.3	0.4			
			ScP	09 01 28.0	1.6			
			S	09 01 38.0	3.2			
			LZ			22.0	0.75	
SSE	40.0	5	+P	08 55 48.0	1.4			
			PMZ	$m_b = 5.1$		1.0	0.035	
			PMZ	$m_B = 5.6$		4.0	0.40	
			pP	08 56 07.5	−1.1			
			PcP	08 57 50.5	0.5			
			eS	09 01 42.0	−3.3			
			LE			8.0	0.20	
			LZ			20.0	0.50	
NJ2	40.8	2	+iP	08 55 55.0	1.8			
			PMZ	$m_b = 6.2$		0.8	0.28	
			PMZ			3.0	0.36	
			pP	08 56 17.0	1.9			
			iPcP	08 57 53.0	0.4			
			ScP	09 01 35.0	3.0			
CD2	41.7	343	+iP	08 56 00.8	0.4			
			PMZ	$m_b = 6.4$		0.7	0.44	
			pP	08 56 22.5	0.2			
XAN	43.5	350	+iP	08 56 14.7	−0.4			
			PMZ	$m_b = 5.6$		0.6	0.056	
			S	09 02 35.0	−0.3			
TIA	44.9	360	+P	08 56 26.3	−0.4			
			PMZ	$m_b = 5.5$		1.0	0.065	
			pP	08 56 47.0	−1.8			
			PcP	08 58 07.0	0.6			
LSA	45.9	328	P	08 56 34.5	−0.2			
			eS	09 03 05.0	−6.8			
LZH	46.5	345	+iP	08 56 40.0	0.4			
			PMZ	$m_b = 5.9$		1.5	0.24	
			PMZ	$m_B = 5.7$		4.0	0.42	
			pP	08 57 02.0	0.4			
			sP	08 57 08.5	−4.4			
			PcP	08 58 12.5	0.5			
TIY	46.6	355	+iP	08 56 39.9	−0.4			
			PMZ	$m_b = 5.8$		0.8	0.094	
			LZ			18.0	0.61	
DL2	47.8	5	+P	08 56 48.8	−0.5			
BJI	48.8	359	+P	08 56 57.0	0.3			
			PMZ	$m_b = 5.8$		1.2	0.16	
			epP	08 57 16.0	−3.1			
			ePcP	08 58 20.0	0.0			
			eScP	09 02 07.5	3.0			
BTO	49.8	353	−iP	08 57 03.5	−1.0			
			PMZ	$m_b = 5.9$		1.2	0.20	
			pP	08 57 25.5	−1.3			
HHC	49.8	354	+P	08 57 04.6	−0.5			
			PMZ	$m_b = 5.7$		1.0	0.11	
GTA	50.8	343	+iP	08 57 12.4	0.2			
			PMZ	$m_b = 5.9$		0.8	0.13	
			pP	08 57 33.0	−1.6			
			PcP	08 58 27.8	0.5			
			ScP	09 02 15.0	2.0			
			S	09 04 18.2	0.1			
			ScS	09 06 50.0	0.7			
			LZ			18.0	0.64	
SNY	50.9	6	+iP	08 57 11.4	−1.5			
			PMZ	$m_b = 5.8$		1.2	0.16	
CN2	53.1	7	+iP	08 57 27.0	−2.2			
			PMZ	$m_b = 5.4$		1.0	0.051	
			epP	08 57 48.0	−3.9			
			PcP	08 58 35.0	−0.8			
			ScP	09 02 24.0	1.1			
			eS	09 04 48.0	−2.6			
			LZ			14.0	0.58	
MDJ	54.5	11	+iP	08 57 38.5	−1.3			
			PMZ	$m_b = 6.2$		0.9	0.27	
WMQ	58.9	335	+iP	08 58 10.0	−1.4			
			PMZ	$m_b = 6.1$		0.7	0.17	
			PMZ	$m_B = 6.0$		4.0	0.73	
			sP	08 58 44.0	−1.4			
			PcP	08 58 58.5	−0.1			
			PP	09 00 22.0	−1.8			
			S	09 06 07.0	−0.6			
			ScS	09 07 46.2	−1.4			
			LZ			32.0	1.00	

OCT 19d 10h 29m 27.0 ± 0.05s, SD2.05 / 13
40.27 N ± 0.46km, 104.66 E ± 0.35km, h7 ± 0.26km
Northern China (323)
M_L3.5 / 12,

GTA	3.8	259	Pn	10 30 30.2	3.4			
			Pg	10 30 41.0	6.4			
			Sn	10 31 18.6	4.7			
			Sg	10 31 32.8	5.9			
			SMN	$M_L = 3.1$		0.8	0.048	
			SME			0.8	0.035	
BTO	4.1	84	Pg	10 30 39.6	0.0			
			SMN	$M_L = 3.2$		0.5	0.070	
			SME			0.5	0.030	
LZH	4.2	189	ePg	10 30 42.0	0.2			
			Sg	10 31 37.5	−1.7			
			SMN	$M_L = 3.5$		0.5	0.10	
			SME			0.5	0.092	

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HHC	5.3	81	Pg	10 31 00.9	0.3			
			SMN	$M_L = 3.9$		0.6	0.14	
			SME			0.5	0.12	
TIY	6.6	110	+Pg	10 31 25.7	2.6			
			SMN	$M_L = 3.6$		0.6	0.028	
			SME			0.6	0.037	
XAN	7.1	150	ePn	10 31 11.1	−0.3			
			Sg	10 33 05.2	−3.7			
			SMN	$M_L = 3.1$		0.8	0.011	
			SME			1.0	0.0070	

OCT 19d 16h 45m 05.8 ± 0.05s, SD1.07 / 179
20.91 S ± 0.66km, 178.57 W ± 0.45km, h595 ± 0.70km
Fiji region (181)
m_b5.1 / 56,

SSE	77.5	310	−P	16 56 03.0	−0.1			
GZH	79.5	300	−P	16 56 14.0	0.7			
NJ2	79.7	310	+iP	16 56 15.2	0.5			
			PMZ	$m_b = 5.0$		1.2	0.078	
MDJ	80.5	325	−iP	16 56 18.7	−0.3			
			PMZ	$m_b = 5.1$		1.0	0.087	
WHN	82.3	307	+P	16 56 28.5	0.9			
			PMZ	$m_b = 4.6$		1.0	0.021	
CN2	82.3	323	−iP	16 56 26.3	−1.6			
			PMZ	$m_b = 4.9$		1.0	0.045	
			PMZ			3.0	0.30	
BJI	85.8	316	−eP	16 56 45.5	0.4			
			PMZ	$m_b = 5.0$		1.8	0.057	
GYA	86.4	300	+iP	16 56 49.0	1.0			
			PMZ	$m_b = 4.8$		1.2	0.023	
TIY	87.2	312	−P	16 56 52.0	0.5			
XAN	88.0	308	−P	16 56 55.5	0.2			
KMI	89.1	297	−P	16 57 02.0	1.4			
			PMZ			14.0	0.090	
HHC	89.3	315	eP	16 57 01.6	0.2			
			PMZ	$m_b = 5.0$		1.0	0.023	
BTO	90.2	314	P	16 57 06.0	0.4			
CD2	90.6	303	eP	16 57 08.0	0.7			
LZH	92.6	308	eP	16 57 16.5	−0.3			
			PMZ	$m_b = 5.2$		1.5	0.037	
GTA	96.8	309	P	16 57 36.0	0.2			
			PMZ	$m_b = 4.9$		1.2	0.013	

OCT 19d 21h 23m 13.5 ± 0.03s, SD1.14 / 554
30.83 N ± 0.99km, 78.78 E ± 0.55km, h9 ± 0.13km
Northern India (308)
M_S6.8 / 54, m_B6.7 / 37, m_b6.3 / 134

KSH	9.0	346	+iP	21 25 28.0	1.3			
			S	21 27 10.0	1.5			
LSA	10.8	93	+iP	21 25 50.6	−1.0			
			pP	21 25 59.8	4.1			
			LN	$M_S = 6.8$		15.0	584	
WMQ	14.8	26	+iP	21 26 44.6	−0.2			
			PMZ	$m_B = 6.5$		4.0	4.01	
GTA	19.2	58	+iP	21 27 39.6	−1.0			
			PMZ	$m_b = 5.9$		1.0	0.56	
			PMZ	$m_B = 6.6$		9.1	22.9	
			S	21 31 08.0	−2.6			
			LE	$M_S = 6.4$		15.0	98.6	
			LZ	$M_S = 6.5$		15.0	145	
CD2	21.4	83	eP	21 28 03.8	−0.7			
			PMZ	$m_b = 5.6$		1.4	0.33	
			PMZ			16.0	31.3	
			S	21 31 57.0	0.1			
			LN	$M_S = 7.0$		15.0	335	
			LZ	$M_S = 6.3$		16.0	91.9	
LZH	21.5	69	+iP	21 28 05.8	0.1			
			PMZ	$m_b = 6.8$		2.0	7.40	
			PMZ	$m_B = 7.1$		4.0	29.2	
			pP	21 28 12.0	1.4			
			sP	21 28 15.0	1.4			
			S	21 32 00.0	1.2			
			sS	21 32 06.0	−1.6			
			SS	21 32 35.0	1.0			
			LE	$M_S = 7.0$		16.0	316	
KMI	21.9	99	+P	21 28 08.5	−0.8			
			PMZ			3.0	10.3	
			pP	21 28 14.0	−0.2			
			S	21 32 02.0	−3.4			
			LE	$M_S = 6.3$		14.0	60.8	
			LZ	$M_S = 6.3$		18.0	97.4	
GYA	24.8	93	+iP	21 28 38.4	0.4			
			PMZ	$m_b = 6.1$		1.2	0.85	
			S	21 32 58.0	0.8			
			LN	$M_S = 6.6$		12.0	86.3	
			LE			12.0	25.2	
			LZ	$M_S = 6.3$		20.0	84.4	
XAN	25.6	75	+iP	21 28 44.8	−0.4			
			PMZ	$m_b = 6.8$		0.6	1.50	
			PMZ			13.0	36.2	
			sP	21 28 56.0	2.8			
			S	21 33 11.0	0.9			
			sS	21 33 19.0	−0.4			
			SS	21 34 14.0	1.1			
			LN	$M_S = 6.9$		24.0	188	
			LE			15.0	212	
BTO	27.1	60	P	21 29 00.0	1.3			
			PMZ	$m_b = 6.5$		1.6	1.78	
			PcP	21 32 16.0	−3.6			
			iS	21 33 39.0	3.9			
			LN	$M_S = 6.7$		13.0	75.7	
			LE			13.0	79.2	
HHC	28.3	60	+P	21 29 10.4	0.8			
			PMZ	$m_b = 5.4$		2.0	0.15	
			PMZ	$m_B = 6.7$		4.0	5.64	
			pP	21 29 18.5	3.8			
			S	21 33 58.0	4.6			
			LE	$M_S = 6.8$		14.0	134	
			LZ	$M_S = 7.0$		14.0	293	
TIY	28.5	67	+P	21 29 11.7	−0.5			
			PMZ	$m_B = 7.1$		8.0	31.5	
			S	21 33 55.0	−3.0			
			LE	$M_S = 6.6$		12.0	62.8	
			LZ	$M_S = 6.5$		14.0	88.3	
QZN	30.4	105	P	21 29 28.0	−0.9			
			PMZ	$m_b = 5.9$		1.1	0.23	
			PMZ	$m_B = 6.5$		5.0	4.10	
			S	21 34 22.0	−6.0			
WHN	30.5	81	+iP	21 29 30.5	0.8			
			PMZ	$m_b = 6.7$		1.5	2.06	
			PMZ			3.0	9.39	
			iS	21 34 30.0	−0.2			
			LN	$M_S = 7.2$		16.0	283	
			LE			12.0	88.9	
			LZ	$M_S = 6.7$		10.0	76.2	
BJI	31.6	63	+P	21 29 40.5	0.9			
			PMZ	$m_b = 6.7$		2.0	2.75	
			PMZ			20.0	20.5	
			eS	21 34 50.0	2.2			
			LE	$M_S = 7.0$		16.0	189	
GZH	31.7	96	+iP	21 29 39.3	−0.5			
			PMZ	$m_b = 6.1$		2.0	0.70	
			PMZ	$m_B = 6.6$		6.0	6.02	
			iS	21 34 48.0	−0.3			
			LN	$M_S = 6.8$		14.0	102	
			LE			13.0	32.8	

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			LZ		$M_S=6.3$		17.0	59.2
TIA	32.3	70	+P	21 29 45.4		0.2		
			PMZ		$m_b=6.5$		2.0	1.73
			PMZ				22.0	14.1
			sP	21 29 56.0		2.8		
			S	21 34 57.0		0.1		
			LN		$M_S=7.4$		13.0	227
			LE				13.0	282
NJ2	34.1	77	+P	21 30 00.6		−0.3		
			PMZ		$m_b=6.6$		2.0	2.17
			PMZ		$m_B=6.4$		6.5	3.71
			sP	21 30 11.0		2.0		
			iS	21 35 25.0		−0.9		
			LN		$M_S=6.9$		14.0	103
			LE				13.5	24.9
			LZ		$M_S=6.3$		20.0	53.9
QZH	35.5	89	+P	21 30 13.0		−0.4		
			PMZ		$m_b=6.3$		1.5	0.80
			PMZ		$m_B=6.7$		4.0	5.24
			S	21 35 46.0		−1.7		
			LN		$M_S=6.5$		14.0	35.7
			LE				14.0	32.1
			LZ		$M_S=6.5$		16.0	71.2
DL2	35.8	65	eP	21 30 16.0		0.4		
SSE	36.2	78	−iP	21 30 19.5		0.5		
			PMZ		$m_b=6.6$		2.0	2.23
			PMZ		$m_B=6.5$		8.0	7.10
			LN		$M_S=7.2$		16.0	230
SNY	37.3	60	+iP	21 30 28.0		−0.6		
			PMZ		$m_b=6.5$		1.0	0.86
			pP	21 30 38.0		4.1		
			iS	21 36 14.0		−2.3		
			LN		$M_S=7.1$		13.0	78.1
			LE				17.0	188
			LZ		$M_S=6.5$		20.0	84.0
CN2	38.8	57	+iP	21 30 41.4		0.4		
			PMZ		$m_b=6.3$		1.0	0.57
			PMZ		$m_B=6.8$		4.0	6.14
			ePP	21 32 09.0		−4.2		
			LN		$M_S=7.0$		12.0	70.0
			LE				12.0	66.0
			LZ		$M_S=6.7$		14.0	90.4
MDJ	41.8	56	+iP	21 31 06.5		0.6		
			PMZ		$m_b=6.8$		1.7	2.77
			PMZ		$m_B=6.9$		8.0	18.5
			sP	21 31 17.0		3.0		
			PP	21 32 48.0		2.5		
			S	21 37 20.0		−2.8		
			SS	21 40 20.0		−3.4		
			LN		$M_S=6.9$		12.0	31.1
			LE				12.0	68.8
			LZ		$M_S=6.6$		15.0	56.8

OCT 19d 22h 41m 14.9 ± 0.04s, SD1.32 / 56
30.79 N ± 0.73km, 78.67 E ± 0.51km, h17 ± 0.04km
Northern India (308)
M_S4.8 / 1, m_b4.7 / 15,

KSH	9.0	346	P	22 43 28.6		1.1		
			S	22 45 10.6		1.6		
LSA	10.8	93	P	22 43 53.0		−0.3		
WMQ	14.8	26	P	22 44 41.5		−4.8		
CD2	21.5	83	eP	22 46 03.8		−1.9		
LZH	21.6	69	eP	22 46 06.5		−0.4		
			PMZ		$m_b=4.7$		1.5	0.048
			pP	22 46 10.5		−2.5		
			sP	22 46 13.0		−3.3		
			LE		$M_S=4.8$		13.0	1.83
			LZ		$M_S=4.7$		20.0	2.47
GYA	24.9	93	eP	22 46 40.4		1.3		
			PMZ		$m_b=4.4$		1.0	0.014
XAN	25.7	75	P	22 46 46.0		−0.4		
			pP	22 46 51.5		−1.1		
			sP	22 46 55.2		−0.7		
BTO	27.2	60	eP	22 47 03.2		3.3		
WHN	30.6	81	eP	22 47 31.5		0.7		

OCT 20d 01h 17m 02.2 ± 0.03s, SD1.42 / 148
53.82 N ± 1.13km, 166.97 W ± 0.65km, h33 ± 0.24km
Fox Islands (9)
M_S5.3 / 10, m_B5.5 / 1, m_b4.9 / 52

CN2	44.0	286	eP	01 25 11.6		2.7		
			PMZ		$m_b=4.7$		1.0	0.011
			epP	01 25 21.0		2.8		
			eS	01 31 41.0		2.4		
			LN		$M_S=5.3$		19.0	1.64
			LE				19.0	1.77
			LZ		$M_S=5.6$		20.0	6.70
SNY	46.3	285	+P	01 25 26.0		−1.3		
			PMZ		$m_B=5.5$		7.0	0.53
			S	01 32 09.0		−1.7		
			sS	01 32 26.0		−1.3		
			LN		$M_S=5.5$		20.0	2.55
			LE				20.0	2.37
			LZ		$M_S=5.3$		20.0	3.29
HHC	53.7	292	eP	01 26 25.0		0.9		
			eS	01 33 57.0		1.9		
			LN		$M_S=5.2$		12.0	0.41
			LE				12.0	0.68
			LZ		$M_S=5.2$		26.0	2.82
BTO	54.8	292	eP	01 26 32.0		0.4		
			eS	01 34 06.0		−2.8		
			eSS	01 37 48.5		−1.6		
			LN		$M_S=5.4$		15.0	1.03
			LE				18.0	1.62
TIY	55.4	288	eP	01 26 39.3		2.9		
			LN		$M_S=5.3$		16.0	1.31
			LZ		$M_S=5.3$		23.0	2.68
GTA	61.1	298	P	01 27 16.4		0.3		
			PMZ		$m_b=4.7$		1.0	0.010
			pP	01 27 24.0		−1.4		
			LE		$M_S=5.2$		16.0	0.87
			LZ		$M_S=5.4$		18.0	2.39
WMQ	63.8	309	P	01 27 34.5		0.7		
			LN		$M_S=5.7$		24.0	4.06
			LZ		$M_S=5.2$		20.0	1.54
CD2	65.3	289	eP	01 27 44.6		0.9		
			eS	01 36 22.0		−2.0		
			LZ		$M_S=5.1$		22.0	1.35
GYA	67.0	284	eP	01 27 55.8		1.1		

OCT 20d 04h 20m 28.9 ± 0.05s, SD1.50 / 37
30.85 N ± 0.69km, 78.70 E ± 0.58km, h32 ± 0.08km
Northern India (308)
M_S4.0 / 1, m_b4.4 / 8,

LSA	10.8	93	P	04 23 07.2		1.9		
GTA	19.2	58	eP	04 24 52.2		−1.4		
			PMZ		$m_b=4.2$		0.8	0.0090
			pP	04 25 00.0		−1.0		
			LE		$M_S=4.0$		11.0	0.32
			LZ		$M_S=4.4$		14.0	1.05
CD2	21.5	83	eP	04 25 19.3		2.0		
LZH	21.6	69	+P	04 25 17.6		−0.8		
			PMZ		$m_b=4.6$		1.0	0.026
			sP	04 25 35.5		4.6		
GYA	24.9	93	P	04 25 50.8		0.1		
			pP	04 25 59.8		0.4		

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OCT 20d 05h 32m 26.2 ± 0.03s, SD0.93 / 101
30.84 N ± 0.53km, 78.66 E ± 0.37km, h26 ± 0.05km
Northern India (308)
M_S4.2 / 4, m_B5.1 / 1, m_b4.7 / 43

KSH	8.9	346	P	05 34 38.0	0.9		
			S	05 36 16.2	−1.4		
LSA	10.9	93	P	05 35 04.0	0.2		
			S	05 37 08.4	3.7		
			LN	M_S = 4.1		8.0	0.56
WMQ	14.8	26	P	05 35 55.9	−0.1		
			S	05 38 41.5	2.0		
			SS	05 38 58.0	1.3		
			LN	M_S = 4.3		12.0	0.81
			LZ	M_S = 3.6		8.0	0.13
GTA	19.3	58	P	05 36 51.2	−0.9		
			PMZ	m_b = 4.2		0.8	0.0090
			sP	05 37 06.0	3.2		
			LE	M_S = 4.4		12.0	0.84
			LZ	M_S = 4.4		14.0	1.05
CD2	21.5	83	eP	05 37 13.3	−2.6		
			PMZ	m_b = 4.9		0.6	0.035
LZH	21.6	69	+iP	05 37 17.0	0.1		
			PMZ	m_b = 4.9		2.0	0.11
			PMZ	m_B = 5.1		4.0	0.35
			pP	05 37 24.5	0.1		
			sP	05 37 27.5	−0.6		
			LN	M_S = 4.1		10.0	0.26
			LZ	M_S = 3.9		14.0	0.29
KMI	22.0	99	+P	05 37 22.6	2.0		
GYA	24.9	93	+iP	05 37 49.6	0.3		
			PMZ	m_b = 4.3		1.0	0.010
XAN	25.7	75	P	05 37 56.0	−0.4		
			PMZ	m_b = 5.3		0.8	0.058
			sP	05 38 03.6	−4.1		
BTO	27.1	60	eP	05 38 10.0	0.2		
HHC	28.3	60	eP	05 38 21.4	0.7		
WHN	30.6	81	eP	05 38 41.0	0.2		
SNY	37.4	60	eP	05 39 39.4	−0.1		
			PMZ	m_b = 4.7		0.8	0.010
			pP	05 39 47.0	−0.6		
CN2	38.9	57	eP	05 39 52.0	0.2		
			PMZ	m_b = 4.8		1.0	0.017
			esP	05 40 07.0	3.5		
MDJ	41.9	56	eP	05 40 17.8	1.1		

OCT 20d 07h 56m 31.4 ± 0.05s, SD2.20 / 13
30.67 N ± 0.50km, 78.74 E ± 0.60km, h23 ± 0.06km
Northern India (308)
m_b4.2 / 2,

XAN	25.7	75	eP	08 02 02.2	0.5		

OCT 20d 09h 51m 27.3 ± 0.03s, SD1.12 / 183
33.32 N ± 0.54km, 135.31 E ± 0.53km, h43 ± 0.30km
Shikoku (236)
M_S4.6 / 27, m_B5.5 / 6, m_b5.1 / 72

MDJ	12.1	340	P	09 54 22.2	1.9		
			PMZ	m_b = 5.9		1.1	0.24
			eS	09 56 35.0	0.4		
			LN	M_S = 4.5		14.0	1.73
			LE			12.0	0.65
			LZ	M_S = 4.3		18.0	2.27
SSE	12.2	263	P	09 54 20.0	−0.9		
			PMZ	m_b = 5.0		1.0	0.025
			sP	09 54 34.0	−0.7		
			LN	M_S = 4.6		11.0	0.70
			LE			13.0	2.20
			LZ	M_S = 4.3		20.0	2.30
SNY	12.6	316	+P	09 54 27.0	0.4		
			PMZ	m_b = 4.8		1.2	0.020
			PMZ	m_B = 5.5		8.0	0.72
			sP	09 54 43.6	3.2		
			S	09 56 45.0	−0.5		
			LE	M_S = 4.2		13.0	0.97
			LZ	M_S = 4.1		24.0	1.82
CN2	13.0	327	+P	09 54 34.0	2.0		
			PMZ	m_b = 5.1		1.2	0.038
			PMZ	m_B = 5.6		4.0	0.43
			epP	09 54 41.0	1.0		
			LN	M_S = 4.7		14.0	2.37
			LE			14.0	1.54
			LZ	M_S = 5.0		17.0	9.68
NJ2	13.9	269	+P	09 54 46.5	2.4		
			LN	M_S = 4.3		10.0	0.62
			LE			12.5	0.79
			LZ	M_S = 4.2		17.0	1.46
TIA	15.2	286	P	09 55 02.4	1.2		
			LN	M_S = 4.8		15.0	1.95
			LE			14.0	2.70
BJI	16.7	299	eP	09 55 22.0	1.6		
			LE	M_S = 4.7		15.0	2.35
			LZ	M_S = 4.7		15.0	3.20
WHN	18.0	267	eP	09 55 33.5	−2.7		
			PMZ	m_b = 4.7		1.2	0.048
			pP	09 55 45.5	0.4		
			eS	09 58 54.0	1.5		
			LE	M_S = 4.7		15.0	2.17
			LZ	M_S = 4.5		16.0	1.90
TIY	19.1	290	−P	09 55 50.0	0.2		
			sP	09 56 06.0	2.0		
			LN	M_S = 4.6		13.0	0.74
			LE			14.0	1.19
			LZ	M_S = 4.5		15.0	1.66
HHC	20.3	299	eP	09 56 02.0	−1.0		
			PMZ	m_b = 5.1		1.2	0.11
			sP	09 56 14.0	−4.1		
			LN	M_S = 4.9		12.0	0.73
			LE			14.0	2.19
			LZ	M_S = 4.9		17.0	4.17
BTO	21.4	297	P	09 56 13.5	−0.6		
			PMZ	m_b = 4.9		1.0	0.053
			LN	M_S = 5.1		15.0	1.47
			LE			15.0	3.54
XAN	22.0	279	P	09 56 19.0	−0.3		
			PMZ	m_b = 5.1		1.0	0.083
			pP	09 56 24.8	−4.9		
			PP	09 56 49.0	4.2		
			LN	M_S = 4.4		13.0	0.73
GYA	25.7	262	P	09 56 55.8	0.0		
			PMZ	m_b = 5.3		1.0	0.080
			LN	M_S = 4.9		15.0	1.12
			LE			15.0	1.56
			LZ	M_S = 4.7		16.0	1.73
CD2	26.8	274	−iP	09 57 04.8	−0.8		
			PMZ	m_b = 5.8		1.2	0.26
			sP	09 57 23.0	2.0		
GTA	29.1	292	−iP	09 57 25.4	−1.2		
			PMZ	m_b = 5.0		1.0	0.031
			PcP	10 00 33.8	0.7		
			S	10 02 08.0	−4.9		
			LE	M_S = 5.0		15.0	2.30
			LZ	M_S = 4.8		16.0	1.91
LSA	37.6	277	P	09 58 41.8	1.2		
WMQ	38.2	300	P	09 58 44.5	−0.6		
			PMZ	m_b = 5.0		1.4	0.039
			PMZ	m_B = 5.5		6.0	0.53

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			sP	09 59 03.0	2.2			
			LZ	M_S=4.7		18.0		0.98

OCT 20d 13h 50m 05.5±0.04s, SD2.34/8
36.10 N±0.33km, 100.40 E±0.33km, h15±0.14km
Qinghai Province (325)
M_L3.6/3,

LZH	2.8	89	Pn	13 50 53.0	2.7			
			Pg	13 50 56.0	1.2			
			Sn	13 51 26.0	0.6			
			SMN	M_L=3.6		0.6		0.32
			SME			0.8		0.20

OCT 20d 19h 00m 14.7±0.16s, SD2.80/7
36.04 N±0.71km, 80.87 E±0.56km, h20±0.90km
Kashmir–Tibet border region (304)
M_L4.0/2,

KSH	5.2	313	ePg	19 01 47.0	−0.5			
			Sg	19 02 53.7	−5.1			

OCT 20d 22h 07m 21.3±0.04s, SD0.98/61
0.80 S±0.50km, 146.64 E±0.75km, h33±0.08km
Admiralty Islands region (199)
M_S4.8/1, m_b5.0/21,

SSE	39.9	325	+P	22 14 55.0	0.9			
			PMZ	m_b=5.1		1.3		0.041
WHN	43.8	318	eP	22 15 27.5	1.5			
TIA	45.9	326	eP	22 15 43.5	0.1			
SNY	47.3	337	eP	22 15 50.0	−4.0			
CN2	48.3	339	eP	22 16 01.2	−0.6			
XAN	49.5	318	P	22 16 10.9	−0.6			
			PMZ	m_b=4.6		1.1		0.0090
			pP	22 16 19.0	−1.8			
CD2	51.5	312	eP	22 16 26.3	−0.1			
			PMZ	m_b=5.1		0.8		0.021
HHC	52.3	327	eP	22 16 33.2	0.8			
BTO	53.0	325	eP	22 16 38.0	0.3			
			LN	M_S=4.8		14.0		0.24
			LE			14.0		0.37
LZH	54.1	317	eP	22 16 46.5	0.4			
			PMZ	m_b=5.1		1.6		0.041
			LZ	M_S=4.2		22.0		0.26
GTA	58.6	319	P	22 17 18.2	0.1			
			PMZ	m_b=5.2		1.0		0.033
LSA	60.9	305	P	22 17 35.6	1.1			
			PMZ	m_b=4.7		1.1		0.010
WMQ	68.7	318	P	22 18 24.0	−0.2			

OCT 21d 05h 26m 11.8±0.09s, SD2.67/13
44.40 N±0.63km, 80.74 E±0.38km, h11±0.57km
Kazakhstan–Xinjiang border region (331)
M_L4.1/8,

WMQ	5.1	94	ePn	05 27 29.5	1.5			
			Pg	05 27 44.2	3.2			
			Sn	05 28 30.4	2.0			
			SMN	M_L=4.1		0.8		0.29
			SME			0.6		0.20
GTA	15.0	103	P	05 29 48.0	1.5			
			pP	05 29 51.4	0.4			
			sP	05 29 55.2	0.6			

OCT 21d 20h 23m 53.9±0.04s, SD1.86/7
23.93 N±0.98km, 121.42 E±0.84km, h4±1.47km
Taiwan (244)
M_L3.5/6,

NJ2	8.4	345	−P	20 26 01.0	1.6			
			S	20 27 29.0	−6.6			
			SME	M_L=4.2		1.1		0.055

OCT 21d 22h 44m 48.0±0.05s, SD1.20/150
17.06 N±0.69km, 145.74 E±0.63km, h182±0.24km
Marianas (216)
m_b5.0/48,

SSE	26.3	307	−P	22 50 07.5	−1.6			
			PMZ	m_b=5.1		1.0		0.041
			eS	22 54 24.0	−3.1			
			LN			11.0		0.20
			LZ			20.0		0.50
QZH	26.5	292	+P	22 50 10.0	−0.6			
			PMZ	m_b=5.1		0.6		0.027
NJ2	28.5	307	+P	22 50 28.0	−1.1			
WHN	31.6	301	+P	22 50 56.0	0.1			
			PMZ	m_b=5.1		1.0		0.043
QZN	34.1	279	P	22 51 18.2	0.3			
BJI	34.4	318	eP	22 51 20.0	0.4			
			PMZ	m_b=4.5		1.2		0.014
			epP	22 51 55.0	−2.6			
			eS	22 56 30.0	−3.2			
XAN	37.0	304	−iP	22 51 41.7	−0.6			
			PMZ	m_b=4.7		0.7		0.014
			eS	22 57 13.0	−1.3			
GYA	37.4	291	+iP	22 51 46.8	1.7			
			PMZ	m_b=5.2		1.2		0.074
			PcP	22 54 00.0	0.0			
HHC	37.8	316	eP	22 51 48.0	−0.7			
			eS	22 57 28.0	2.1			
BTO	38.7	315	eP	22 51 56.0	−0.3			
CD2	40.5	298	−iP	22 52 11.4	0.2			
			PMZ	m_b=5.3		1.2		0.10
KMI	40.8	289	eP	22 52 15.0	1.6			
			PMZ	m_b=5.2		1.5		0.10
LZH	41.6	305	−P	22 52 20.5	0.3			
			PMZ	m_b=5.2		1.5		0.10
			pP	22 52 56.0	−2.9			
			sP	22 53 15.0	−4.6			
			eS	22 58 20.0	−2.8			
			LZ			20.0		0.25
GTA	45.6	309	+iP	22 52 52.3	0.2			
			PMZ	m_b=4.8		0.6		0.017
			pP	22 53 29.6	−1.8			
			sP	22 53 49.8	−2.1			
			PcP	22 54 26.2	−0.9			
			PP	22 54 43.6	2.3			
			ScP	22 58 00.0	−0.9			
			eS	22 59 20.0	−0.2			
			sS	23 00 25.0	−4.2			
			LE			9.0		0.23
			LZ			16.0		0.29
LSA	51.2	295	+P	22 53 37.3	1.3			
WMQ	55.4	312	P	22 54 05.0	−1.1			
			PMZ	m_b=4.6		1.4		0.016

OCT 22d 00h 03m 01.4±0.05s, SD2.58/9
37.47 N±0.45km, 103.28 E±0.43km, h12±0.20km
Qinghai Province (325)
M_L3.6/8,

LZH	1.5	162	−iPg	00 03 25.0	−2.4			
			Sg	00 03 42.5	−4.6			
			SMN	M_L=3.6		0.8		0.86
			SME			0.8		0.72
GTA	3.3	307	Pn	00 03 53.4	−0.7			
			Pg	00 04 01.3	0.9			
			Sn	00 04 32.7	−2.8			
			Sg	00 04 44.2	−1.9			
			SMN	M_L=3.5		0.8		0.20
			SME			0.6		0.11

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XAN	5.7	125	Pg	00 04 40.5	−2.2			
			Sn	00 05 37.0	2.5			
			Sg	00 06 02.0	1.2			
			SMN	M_L=3.2		0.9	0.024	
			SME			0.9	0.019	
HHC	7.3	60	Pg	00 05 12.0	2.0			
			SMN	M_L=3.7		0.8	0.034	
			SME			0.6	0.030	

OCT 22d 07h 05m 53.2±0.05s, SD3.09/6
41.14 N±0.36km, 78.86 E±0.12km, h8±0.47km
Southern Xinjiang Province (321)
M_L3.7/5,

WMQ	7.1	65	ePn	07 07 40.0	2.7			
			Sn	07 08 57.7	−2.4			
			SMN	M_L=3.6		1.0	0.022	
			SME			1.0	0.026	

OCT 23d 00h 08m 52.0±0.04s, SD2.60/9
32.98 N±0.31km, 103.92 E±0.48km, h9±0.23km
Sichuan Province (307)
M_L3.2/5,

CD2	2.1	184	Pn	00 09 27.9	0.5			
			Pg	00 09 29.3	0.7			
			Sg	00 09 59.1	2.2			
			SMN	M_L=3.0		0.8	0.15	
			SME			0.7	0.11	
LZH	3.1	359	Pg	00 09 46.0	−0.9			
			Sg	00 10 26.0	−3.0			
			SMN	M_L=3.2		1.0	0.11	
			SME			1.0	0.075	
XAN	4.3	74	ePn	00 09 59.5	1.4			
			Pg	00 10 09.0	1.0			
			SMN	M_L=3.4		0.6	0.072	
			SME			0.7	0.056	

OCT 23d 04h 15m 52.6±0.04s, SD1.28/60
2.28 N±0.56km, 127.38 E±1.09km, h51±0.27km
Molucca Passage (266)
M_S4.9/1, m_b5.0/21,

WHN	30.7	338	eP	04 22 05.0	−0.2			
GYA	31.2	322	P	04 22 10.0	0.2			
XAN	36.0	333	P	04 22 50.0	−1.1			
TIY	37.8	341	eP	04 23 07.4	0.8			
BJI	38.9	346	eP	04 23 16.5	0.9			
			PMZ	m_b=4.7		0.8	0.0090	
LZH	40.1	330	eP	04 23 26.0	0.7			
			PMZ	m_b=5.0		1.0	0.026	
LSA	43.9	312	P	04 23 57.2	0.4			
GTA	44.7	329	eP	04 24 02.0	−0.8			
			PMZ	m_b=4.7		0.8	0.0090	
WMQ	54.3	325	P	04 25 16.2	−0.2			
			PMZ	m_b=4.6		1.0	0.0080	

OCT 23d 05h 27m 17.4±0.05s, SD2.00/96
6.99 S±1.21km, 105.39 E±1.62km, h61±0.53km
South-west of Sumatera (273)
M_S5.5/23, m_B5.0/1, m_b5.3/21

GYA	33.3	2	P	05 33 53.0	1.3			
			pP	05 34 07.0	1.2			
			S	05 39 10.0	4.8			
			LN	M_S=5.5		15.0	2.64	
			LE			15.0	5.19	
			LZ	M_S=5.2		20.0	4.38	
CD2	37.7	358	eP	05 34 33.0	3.7			
			S	05 40 16.0	2.5			
			LN	M_S=5.5		17.0	4.97	
			LZ	M_S=5.3		20.0	4.73	
XAN	40.9	4	eP	05 34 55.4	−0.7			
			LN	M_S=5.6		16.0	3.96	
			LE			14.0	1.71	
LZH	42.9	358	eP	05 35 13.5	1.4			
			PMZ	m_b=4.9		2.0	0.035	
			PMZ	m_B=5.0		10.0	0.21	
			pP	05 35 24.0	−2.5			
			LE	M_S=5.5		15.0	3.13	
			LZ	M_S=5.4		20.0	4.54	
TIA	44.4	14	eP	05 35 25.5	1.5			
			LZ	M_S=5.1		14.0	1.50	
TIY	45.0	8	eP	05 35 31.0	2.2			
			S	05 42 03.0	2.5			
			SS	05 45 18.0	2.0			
			LN	M_S=5.6		20.0	3.41	
			LE			17.0	3.65	
			LZ	M_S=5.3		21.0	3.83	
GTA	46.5	354	eP	05 35 39.0	−1.7			
			PMZ	m_b=4.6		0.8	0.0060	
			pP	05 35 56.8	1.5			
			LN	M_S=5.7		15.0	2.30	
			LE			20.0	5.60	
BJI	47.8	11	eP	05 35 50.0	−1.5			
			eS	05 42 40.0	−2.7			
			LE	M_S=5.5		18.0	3.27	
			LZ	M_S=5.1		18.0	1.77	
HHC	47.9	6	eP	05 35 53.0	0.6			
			LN	M_S=5.5		13.0	1.90	
			LE			13.0	1.00	
			LZ	M_S=5.2		24.0	3.50	
SNY	51.4	17	eP	05 36 14.0	−4.4			
			S	05 43 30.0	−0.4			
			LN	M_S=5.5		18.0	2.19	
			LE			16.0	1.77	
			LZ	M_S=5.0		22.0	1.51	
WMQ	53.0	344	P	05 36 29.5	−1.6			
			PP	05 38 32.0	0.4			
			sS	05 44 16.0	−4.5			
			LN	M_S=5.2		16.0	1.19	
			LZ	M_S=5.1		18.0	1.65	
KSH	53.7	332	eP	05 36 32.0	−4.1			
CN2	53.7	18	P	05 36 33.4	−2.6			
			PMZ	m_b=5.3		0.8	0.029	
			PcP	05 37 40.0	−0.4			
			eS	05 44 00.0	−3.8			
			eScS	05 46 19.0	4.0			
			LN	M_S=5.3		14.0	1.08	
			LE			14.0	0.77	
			LZ	M_S=5.5		19.0	3.82	

OCT 23d 08h 46m 39.9±0.04s, SD2.74/7
40.74 N±0.37km, 109.48 E±0.23km, h5±0.13km
Northern China (323)
M_L3.0/6,

HHC	1.6	85	−Pg	08 47 08.6	0.6			
			Sg	08 47 31.2	1.7			
			SMN	M_L=3.4		0.4	0.46	
			SME			0.4	0.35	
TIY	3.8	142	ePg	08 47 45.8	−1.2			
			Sg	08 48 34.4	−4.3			
			SMN	M_L=2.9		0.6	0.034	
			SME			0.6	0.028	
GTA	7.5	263	ePn	08 48 33.4	2.5			

OCT 23d 12h 24m 56.0±0.03s, SD1.07/237
11.29 S±0.65km, 166.43 E±0.66km, h136±0.15km
Santa Cruz Islands (184)
m_B5.7/7, m_b5.3/84,

SSE	60.5	316	+P	12 34 54.0	−0.4			
			PMZ	$m_b = 5.2$		0.9	0.033	
			sP	12 35 43.0	1.4			
			eS	12 42 54.0	−3.7			
			esS	12 43 56.0	2.7			
			LZ			20.0	0.50	
NJ2	62.7	315	+P	12 35 08.6	−0.4			
			PMZ	$m_b = 5.6$		1.0	0.099	
			pP	12 35 40.8	−0.3			
QZN	63.4	298	−P	12 35 14.8	1.0			
WHN	65.1	311	+P	12 35 23.5	−1.1			
			pP	12 35 55.5	−1.3			
			S	12 43 56.0	2.5			
			LZ			20.0	0.75	
SNY	65.9	326	+P	12 35 28.0	−2.1			
			PMZ	$m_B = 5.7$		4.5	0.56	
			pP	12 36 00.0	−2.4			
			S	12 44 06.0	2.1			
			sS	12 45 06.0	4.5			
TIA	66.2	318	+P	12 35 31.0	−1.2			
			pP	12 36 01.2	−3.3			
CN2	66.3	329	+iP	12 35 31.6	−1.0			
			PMZ	$m_b = 6.2$		0.8	0.29	
			PMZ	$m_B = 5.6$		5.0	0.54	
			eS	12 44 11.0	1.1			
			LZ			18.0	0.58	
BJI	69.1	321	+P	12 35 49.5	−0.4			
			PMZ	$m_b = 5.3$		1.5	0.070	
			epP	12 36 22.0	−0.4			
			eS	12 44 44.0	0.8			
			esS	12 45 36.0	−4.0			
GYA	69.1	304	+iP	12 35 50.0	−0.2			
			PMZ	$m_b = 5.3$		1.0	0.046	
			PMZ			3.0	0.55	
			LZ			36.0	1.16	
TIY	70.2	317	+P	12 35 57.0	0.2			
			PMZ	$m_b = 5.5$		1.3	0.096	
			pP	12 36 29.0	−0.3			
			S	12 44 56.0	1.2			
			LN			20.0	0.91	
			LZ			30.0	0.78	
XAN	70.8	312	+iP	12 36 00.2	0.0			
			PMZ	$m_b = 5.5$		0.7	0.060	
KMI	71.8	301	+P	12 36 08.0	1.3			
			PMZ	$m_b = 5.9$		1.5	0.33	
			PMZ	$m_B = 5.7$		4.0	0.50	
			pP	12 36 39.5	0.4			
HHC	72.5	319	+P	12 36 10.0	−0.2			
			PMZ	$m_b = 5.1$		0.9	0.032	
			eS	12 45 25.0	2.7			
			LZ			33.0	0.84	
CD2	73.3	307	+iP	12 36 15.2	0.1			
			PMZ	$m_b = 5.6$		1.2	0.13	
			S	12 45 31.0	1.1			
			LZ			22.0	0.67	
BTO	73.3	319	P	12 36 15.0	−0.3			
			PMZ	$m_b = 4.9$		1.0	0.020	
LZH	75.4	312	+iP	12 36 29.0	1.6			
			PMZ	$m_b = 5.7$		1.5	0.23	
			PMZ	$m_B = 5.7$		5.0	0.67	
			pP	12 36 57.0	−3.3			
			PP	12 39 23.0	3.7			
			S	12 45 59.0	5.4			
			LE			14.0	0.32	
			LZ			26.0	0.76	
GTA	79.7	314	+iP	12 36 51.9	0.8			
			PMZ	$m_b = 5.6$		1.1	0.12	
			PMZ	$m_B = 5.7$		4.0	0.58	
			PcP	12 36 59.4	1.8			
			pP	12 37 24.8	0.6			
			S	12 46 44.5	4.9			
LSA	83.0	302	P	12 37 10.5	1.6			
WMQ	89.7	315	+iP	12 37 41.0	0.0			
			PMZ	$m_b = 5.4$		1.5	0.050	
			PMZ	$m_B = 5.9$		4.0	0.47	
			pP	12 38 14.0	−0.9			
			SKS	12 47 58.0	2.4			
			S	12 48 15.5	−2.0			
			LZ			24.0	0.33	

OCT 23d 12h 49m 35.7 ± 0.04s, SD1.31 / 140
9.99 N ± 0.65km, 126.13 E ± 0.95km, h49 ± 0.26km
Mindanao (259)
m_b5.3 / 61,

QZN	18.1	302	eP	12 53 47.9	2.0			
SSE	21.5	348	+P	12 54 24.5	1.9			
			PMZ	$m_b = 5.2$		1.4	0.16	
			sP	12 54 37.0	−2.5			
			LZ	$M_S = 4.0$		20.0	0.50	
NJ2	23.0	344	−P	12 54 38.0	0.9			
			PMZ	$m_b = 5.0$		1.0	0.067	
WHN	23.2	333	−P	12 54 40.7	1.2			
			PMZ	$m_b = 5.0$		1.2	0.088	
GYA	24.6	314	P	12 54 54.0	0.5			
			PcP	12 58 31.0	0.8			
KMI	26.8	307	eP	12 55 14.0	−0.2			
TIA	27.4	344	−P	12 55 19.0	0.3			
XAN	28.7	329	+iP	12 55 29.3	−1.3			
			PMZ	$m_b = 5.4$		0.7	0.060	
			pP	12 55 40.7	−1.7			
CD2	29.4	318	eP	12 55 35.3	−2.0			
			PMZ	$m_b = 5.0$		0.6	0.018	
TIY	30.2	338	eP	12 55 44.0	−0.5			
			PMZ	$m_b = 5.2$		0.9	0.038	
BJI	31.2	345	eP	12 55 53.0	0.0			
			PMZ	$m_b = 5.3$		1.5	0.088	
SNY	31.8	356	+iP	12 55 59.4	1.2			
			PMZ	$m_b = 5.7$		1.0	0.14	
LZH	32.9	326	+P	12 56 07.5	−0.8			
			PMZ	$m_b = 5.2$		1.5	0.060	
			pP	12 56 18.5	−1.6			
			LZ	$M_S = 4.3$		22.0	0.66	
HHC	33.3	340	+P	12 56 12.0	0.3			
			PMZ	$m_b = 5.6$		1.0	0.10	
BTO	33.7	338	P	12 56 14.0	−0.6			
			PMZ	$m_b = 5.1$		1.0	0.030	
CN2	33.7	359	−iP	12 56 15.3	0.6			
			PMZ	$m_b = 5.3$		0.6	0.028	
MDJ	34.6	4	eP	12 56 23.6	0.9			
GTA	37.5	326	+iP	12 56 47.1	−0.3			
			PMZ	$m_b = 5.2$		0.9	0.034	
			pP	12 56 57.2	−2.3			
			LZ	$M_S = 4.3$		27.0	0.66	
LSA	38.1	306	P	12 56 52.4	0.1			
WMQ	47.3	322	P	12 58 07.0	−0.3			
			PMZ	$m_b = 4.8$		1.0	0.014	

OCT 23d 17h 19m 48.0 ± 0.07s, SD3.05 / 19
38.44 N ± 0.93km, 73.61 E ± 0.90km, h28 ± 0.43km
Tadzhikistan (715)
M_L4.1 / 2, m_b5.0 / 8,

WMQ	11.9	59	P	17 22 42.5	3.2			
			PMZ	$m_b = 4.4$		1.0	0.0080	
LSA	16.9	116	P	17 23 49.2	4.0			
GTA	20.4	79	eP	17 24 27.4	1.5			
			PMZ	$m_b = 4.8$		0.8	0.040	

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OCT 23d 18h 11m 29.0 ± 0.04s, SD2.38 / 23
27.65 N ± 0.39km, 103.57 E ± 0.44km, h11 ± 0.14km
Yunnan Province (318)
M_S3.9 / 2, M_L3.7 / 12,

KMI	2.6	197	ePg	18 12 13.0	−2.3			
			Sg	18 12 46.5	−4.1			
			SMN	M_L = 3.2		1.1	0.12	
			SME			1.1	0.15	
			LN			6.0	0.60	
			LE			6.0	1.10	
GYA	3.0	113	−iPn	18 12 20.0	2.9			
			Sn	18 12 59.0	4.1			
			SMN	M_L = 3.4		0.8	0.18	
			SME			0.8	0.13	
			LN	M_S = 3.9		4.0	0.73	
			LE			4.0	0.82	
CD2	3.2	3	Pn	18 12 22.7	2.3			
			Pg	18 12 30.6	4.2			
			Sg	18 13 13.2	2.4			
			SMN	M_L = 3.9		0.7	0.42	
			SME			0.8	0.48	
XAN	7.9	35	−Pn	18 13 24.5	0.8			
			Sn	18 14 54.0	−1.0			
			SMN	M_L = 4.1		1.0	0.055	
			SME			1.0	0.051	
TIY	12.5	34	−P	18 14 27.8	−2.3			
			LZ	M_S = 3.8		20.0	0.75	
			pP	23 27 47.0	1.2			
XAN	51.9	279	P	23 27 43.5	−0.9			
			PMZ	m_b = 4.9		1.0	0.015	
			pP	23 27 48.9	−4.8			
LZH	53.7	284	+iP	23 27 58.0	0.3			
			PMZ	m_b = 5.5		1.5	0.10	
			PMZ	m_B = 5.6		4.5	0.35	
			pP	23 28 09.0	2.1			
			PP	23 30 04.0	4.9			
			LE	M_S = 4.8		14.0	0.39	
			LZ	M_S = 4.4		26.0	0.43	
GTA	53.9	290	+iP	23 27 59.5	0.0			
			PMZ	m_b = 5.0		1.0	0.019	
			pP	23 28 10.2	1.4			
			sP	23 28 13.7	1.0			
			LE	M_S = 5.1		16.0	0.91	
			LZ	M_S = 4.9		16.0	0.93	
CD2	57.2	280	P	23 28 22.4	−0.9			
			PMZ	m_b = 5.5		1.0	0.056	
WMQ	57.9	301	+iP	23 28 27.6	−0.2			
			PMZ	m_b = 5.5		0.9	0.055	
			pP	23 28 35.0	−2.1			
			LN	M_S = 5.2		18.0	1.05	
GYA	58.5	274	+iP	23 28 31.6	−1.0			
			PMZ	m_b = 5.3		1.2	0.046	
KMI	61.9	276	+P	23 28 55.0	−0.9			
			PMZ	m_b = 5.3		1.5	0.060	
LSA	65.8	288	+P	23 29 22.0	0.8			

OCT 23d 23h 18m 36.2 ± 0.04s, SD0.97 / 262
51.31 N ± 1.10km, 178.33 E ± 0.55km, h33 ± 0.01km
Rat Islands (6)
M_S4.9 / 6, m_B5.6 / 1, m_b5.1 / 101

MDJ	32.8	278	eP	23 25 07.6	−1.5			
CN2	35.8	279	+P	23 25 33.6	−1.1			
			PMZ	m_b = 4.7		0.8	0.011	
			epP	23 25 43.0	−0.9			
			ePP	23 26 58.0	2.3			
			eS	23 31 13.0	3.6			
			LZ	M_S = 4.8		20.0	1.60	
SNY	38.0	278	+iP	23 25 53.8	0.4			
			PMZ	m_b = 5.3		1.4	0.077	
			pP	23 26 07.4	4.7			
			eS	23 31 50.0	6.6			
			LZ	M_S = 4.4		24.0	0.72	
BJI	43.6	280	eP	23 26 40.0	0.3			
			PMZ	m_b = 4.7		1.0	0.013	
			ePP	23 28 23.0	−0.2			
			eS	23 33 12.0	5.0			
			LZ	M_S = 4.3		20.0	0.36	
HHC	46.0	284	+P	23 27 00.0	1.3			
			PMZ	m_b = 5.4		1.2	0.060	
			pP	23 27 09.0	1.1			
			LZ	M_S = 4.6		17.0	0.60	
SSE	46.2	267	−P	23 27 01.0	0.7			
			PMZ	m_b = 5.5		1.0	0.070	
			sP	23 27 12.4	−1.2			
			LZ	M_S = 4.4		20.0	0.40	
NJ2	47.0	270	+P	23 27 06.5	−0.2			
			PMZ	m_b = 5.5		1.2	0.073	
BTO	47.1	285	P	23 27 08.5	1.3			
			PMZ	m_b = 5.5		1.2	0.080	
			pP	23 27 19.0	2.6			
TIY	47.4	280	+P	23 27 10.7	1.2			
			LN	M_S = 4.8		19.0	0.78	
			LZ	M_S = 4.6		20.0	0.75	
WHN	50.9	272	+P	23 27 35.7	−0.8			
			PMZ	m_b = 5.4		1.0	0.046	

OCT 23d 23h 59m 43.2 ± 0.04s, SD0.89 / 312
51.29 N ± 1.03km, 178.30 E ± 0.51km, h33 ± 0.02km
Rat Islands (6)
M_S5.3 / 27, m_B5.9 / 15, m_b5.4 / 115

MDJ	32.8	278	+eP	24 06 15.0	−1.0			
			PMZ	m_b = 5.2		1.0	0.040	
			PP	24 07 29.0	3.5			
			LN	M_S = 5.6		28.0	7.10	
			LE			28.0	9.70	
			LZ	M_S = 4.9		22.0	2.90	
CN2	35.8	279	+P	24 06 40.8	−0.8			
			PMZ	m_b = 5.2		1.2	0.053	
			PMZ	m_B = 5.9		5.0	0.97	
			pP	24 06 52.0	1.2			
			PP	24 08 06.0	3.5			
			PcP	24 09 06.0	−2.7			
			S	24 12 18.0	2.8			
			LN	M_S = 4.9		15.0	0.85	
			LE			15.0	0.91	
			LZ	M_S = 5.5		20.0	7.42	
SNY	38.0	278	+iP	24 07 00.0	−0.2			
			PMZ	m_b = 5.8		1.4	0.21	
			PMZ	m_B = 5.8		5.0	0.82	
			pP	24 07 10.0	0.5			
			LN	M_S = 4.9		12.0	0.72	
			LE			14.0	0.63	
			LZ	M_S = 5.0		20.0	2.31	
BJI	43.6	280	+P	24 07 47.5	0.9			
			PMZ	m_b = 5.4		1.5	0.088	
			ePP	24 09 28.0	−2.0			
			eS	24 14 14.0	0.3			
			LE	M_S = 5.2		14.0	1.57	
			LZ	M_S = 5.0		21.0	1.83	
TIA	45.4	275	+P	24 08 01.0	0.3			
			PMZ	m_b = 5.6		1.2	0.11	
			LN	M_S = 5.4		17.0	3.00	
HHC	46.0	284	+P	24 08 06.0	0.4			
			PMZ	m_b = 5.8		1.2	0.16	
			sP	24 08 14.5	−4.2			

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			PP	24	09	52.0	−1.0		
			S	24	14	44.0	−2.5		
			LN			$M_S=5.3$		17.0	1.81
			LE					15.0	1.08
			LZ			$M_S=4.9$		18.0	1.21
SSE	46.2	267	−P	24	08	08.0	0.9		
			PMZ			$m_b=5.9$		1.2	0.20
			PMZ			$m_B=5.0$		4.0	0.080
			pP	24	08	19.0	2.5		
			S	24	14	52.0	2.4		
			LN			$M_S=4.8$		14.0	0.50
			LZ			$M_S=4.8$		20.0	1.10
NJ2	47.0	270	+P	24	08	13.2	−0.3		
			PMZ			$m_b=5.9$		1.4	0.26
			PMZ			$m_B=5.9$		4.5	0.81
			pP	24	08	24.0	1.1		
			sP	24	08	29.5	2.7		
			LZ			$M_S=4.8$		16.0	0.88
BTO	47.0	285	−iP	24	08	15.0	0.9		
			PMZ			$m_b=5.0$		1.4	0.031
			PMZ			$m_B=6.0$		5.0	1.13
			pP	24	08	26.0	2.7		
			PP	24	10	07.5	3.7		
			S	24	15	06.5	4.5		
			LE			$M_S=5.3$		16.0	1.79
			LZ			$M_S=4.9$		18.0	1.27
TIY	47.3	280	+iP	24	08	17.4	1.0		
			PMZ			$m_b=5.5$		1.1	0.070
			PMZ			$m_B=5.9$		5.0	0.90
			PP	24	10	10.0	3.5		
			S	24	15	12.0	5.9		
			LN			$M_S=5.4$		25.0	3.60
			LE					25.0	1.90
			LZ			$M_S=5.1$		24.0	2.50
WHN	50.8	272	+iP	24	08	43.0	−0.3		
			PMZ			$m_b=5.8$		1.5	0.19
			PMZ			$m_B=5.9$		4.0	0.60
			LE			$M_S=4.9$		12.0	0.46
			LZ			$M_S=4.6$		22.0	0.65
XAN	51.9	279	+P	24	08	50.0	−1.2		
			PMZ			$m_b=5.2$		1.2	0.040
			pP	24	08	59.2	−1.4		
			sP	24	09	04.0	−0.5		
			LN			$M_S=5.3$		16.0	0.99
			LE					16.0	1.44
QZH	52.1	263	P	24	08	53.5	0.6		
			PMZ			$m_b=5.9$		1.2	0.17
LZH	53.7	284	+iP	24	09	05.0	0.4		
			PMZ			$m_b=6.0$		1.5	0.28
			PMZ			$m_B=5.9$		5.0	0.88
			pP	24	09	16.0	2.2		
			PcP	24	10	10.0	0.3		
			PP	24	11	07.0	1.1		
			eS	24	16	36.0	1.0		
			sS	24	16	52.0	1.7		
			ScS	24	18	50.0	3.0		
			LN			$M_S=5.4$		15.0	1.38
			LE					15.0	1.30
			LZ			$M_S=5.1$		20.0	1.78
GTA	53.9	290	+iP	24	09	06.4	0.0		
			PMZ			$m_b=5.8$		1.0	0.14
			PMZ			$m_B=5.9$		5.0	0.82
			sP	24	09	15.2	−4.4		
			PP	24	11	05.8	−2.3		
			ScP	24	14	07.0	2.5		
			S	24	16	40.0	3.1		
			sS	24	16	53.0	−0.7		
			ScS	24	18	52.1	3.4		
			LE			$M_S=5.6$		15.0	2.85
			LZ			$M_S=5.5$		16.0	3.64
GZH	56.8	266	+P	24	09	27.0	0.1		
CD2	57.2	280	P	24	09	29.4	−0.7		
			PMZ			$m_b=5.8$		1.2	0.15
			S	24	17	16.0	−4.9		
			LE			$M_S=5.2$		18.0	1.08
			LZ			$M_S=4.6$		22.0	0.58
WMQ	57.8	301	+iP	24	09	34.6	−0.1		
			PMZ			$m_b=5.6$		1.3	0.11
			PMZ			$m_B=6.0$		4.0	0.86
			sP	24	09	46.3	−1.7		
			PcP	24	10	26.0	0.0		
			PP	24	11	42.0	−1.8		
			ScP	24	14	20.0	−1.9		
			S	24	17	24.5	−4.8		
			ScS	24	19	22.0	4.9		
			LN			$M_S=5.6$		19.0	3.09
			LZ			$M_S=5.7$		21.0	5.72
GYA	58.5	274	+iP	24	09	38.6	−0.8		
			PMZ			$m_b=5.7$		1.4	0.14
			PMZ					3.0	0.99
			S	24	17	40.0	1.9		
KMI	61.9	276	+P	24	10	02.0	−0.7		
			PMZ			$m_b=5.7$		1.5	0.15
			PMZ			$m_B=5.9$		4.0	0.60
			LZ			$M_S=5.0$		20.0	1.00
LSA	65.7	288	P	24	10	28.8	0.7		

OCT 24d 12h 06m 11.0±0.25s, SD2.37 / 15
23.03 N±0.96km, 121.43 E±1.23km, h10±1.10km
Taiwan (244)
M_S3.7 / 1, M_L4.0 / 9,

GZH	7.4	272	eP	12	08	07.5	4.9		
			SMN			$M_L=4.4$		1.0	0.14
SSE	8.0	359	eP	12	08	12.4	1.6		
			SMN			$M_L=3.5$		1.0	0.012
			SME					1.0	0.016
			LZ			$M_S=3.5$		14.0	0.40

OCT 24d 18h 01m 00.4±0.06s, SD2.97 / 18
26.63 N±0.56km, 103.08 E±0.57km, h13±0.12km
Sichuan Province (307)
M_S3.6 / 1, M_L3.3 / 8,

KMI	1.5	192	−Pg	18	01	25.5	−1.9		
			Sg	18	01	45.0	−2.7		
			SMN			$M_L=3.3$		1.0	0.30
			SME					1.2	0.56
			LE					6.0	1.40
GYA	3.2	92	Pn	18	01	54.8	3.7		
			Pg	18	02	02.2	5.0		
			Sn	18	02	32.0	1.0		
			Sg	18	02	45.2	4.1		
			SMN			$M_L=3.3$		1.2	0.12
			SME					1.2	0.068
			LN			$M_S=3.6$		6.0	0.71
			LE					6.0	0.33
CD2	4.3	8	Pn	18	02	07.2	1.1		
			Pg	18	02	20.0	3.5		
			Sg	18	03	18.0	2.6		
			SMN			$M_L=3.5$		1.0	0.058
			SME					1.0	0.13
XAN	8.9	33	eP	18	03	08.6	−4.0		

OCT 24d 23h 12m 20.1±0.03s, SD1.01 / 102
2.71 S±0.64km, 101.09 E±0.82km, h52±0.29km
Southern Sumatera (274)
M_S4.6 / 3, m_b5.0 / 38,

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QZN	23.3	21	P	23	17	25.8	1.7		
GYA	29.5	10	P	23	18	21.6	−0.5		
			PMZ			$m_b = 4.7$		1.0	0.016
			S	23	23	08.0	−2.3		
			LN			$M_S = 4.6$		14.0	0.59
			LE					14.0	0.55
			LZ			$M_S = 4.3$		20.0	0.75
CD2	33.5	4	P	23	18	55.6	−1.8		
			PMZ			$m_b = 5.0$		0.8	0.018
LSA	33.6	344	P	23	18	59.0	0.5		
WHN	35.4	20	−P	23	19	14.5	1.0		
			PMZ			$m_b = 5.1$		0.8	0.026
XAN	37.3	11	−iP	23	19	28.5	−0.9		
			PMZ			$m_b = 5.6$		0.8	0.073
LZH	38.7	4	P	23	19	41.2	0.0		
			PMZ			$m_b = 4.9$		1.0	0.021
SSE	38.7	28	+P	23	19	42.5	1.5		
			PMZ			$m_b = 4.7$		1.0	0.012
			LZ			$M_S = 4.3$		20.0	0.50
TIY	41.6	14	−iP	23	20	05.5	0.5		
			S	23	26	19.0	3.2		
			LN			$M_S = 4.6$		15.0	0.40
			LZ			$M_S = 4.4$		22.0	0.52
GTA	41.9	359	+P	23	20	07.6	−0.4		
			PMZ			$m_b = 4.7$		0.8	0.0090
			pP	23	20	23.0	2.4		
			sP	23	20	29.7	3.5		
			PcP	23	22	02.8	0.5		
			ScP	23	25	48.8	2.1		
			LN			$M_S = 4.7$		16.0	0.57
			LZ			$M_S = 4.5$		20.0	0.59
BTO	43.9	10	eP	23	20	24.4	0.6		
HHC	44.4	11	P	23	20	28.5	0.5		
			PMZ			$m_b = 5.0$		1.0	0.023
BJI	44.7	16	eP	23	20	31.5	0.9		
			PMZ			$m_b = 4.5$		1.0	0.0070
			LZ			$M_S = 4.6$		18.0	0.59
WMQ	47.8	347	+iP	23	20	55.7	0.4		
CN2	51.2	23	eP	23	21	19.5	−1.5		
			PMZ			$m_b = 5.1$		0.6	0.015
			pP	23	21	29.0	−4.9		
			LZ			$M_S = 4.8$		20.0	0.89

OCT 25d 05h 22m 05.0 ± 0.04s, SD0.84 / 44
0.68 S ± 0.60km, 127.62 E ± 1.19km, h31 ± 0.11km
Djailolo Gilolo (Halmahera) (267)
m_b5.1 / 16,

WHN	33.5	339	−eP	05	28	45.0	0.7		
			PMZ			$m_b = 5.1$		1.1	0.036
GYA	33.7	325	P	05	28	46.2	0.1		
			PMZ			$m_b = 4.6$		1.0	0.010
			pP	05	28	57.8	3.1		
KMI	35.2	319	eP	05	29	00.0	1.1		
			PMZ			$m_b = 5.1$		1.5	0.050
CD2	38.7	326	P	05	29	28.5	−0.1		
XAN	38.7	335	−P	05	29	28.1	−0.5		
			PMZ			$m_b = 5.0$		0.6	0.015
			pP	05	29	34.5	−3.0		
TIY	40.7	341	−P	05	29	45.0	0.1		
LZH	42.7	331	P	05	30	02.5	0.7		
			PMZ			$m_b = 5.2$		1.5	0.062
			sP	05	30	17.0	2.6		
HHC	43.8	342	eP	05	30	10.6	0.0		
LSA	46.1	314	P	05	30	29.5	0.7		
GTA	47.3	331	+P	05	30	38.6	0.2		
			PMZ			$m_b = 5.1$		1.0	0.028
			pP	05	30	42.6	−4.6		
WMQ	56.8	326	P	05	31	49.5	−0.1		
			pP	05	31	54.0	−4.6		

OCT 25d 05h 48m 14.2 ± 0.05s, SD2.43 / 9
24.61 N ± 0.43km, 117.60 E ± 0.42km, h8 ± 0.14km
Near south-eastern coast of China (242)
M_L3.5 / 9,

QZH	1.0	70	+iPg	05	48	33.0	1.7		
			iSg	05	48	48.0	3.5		
			SMN			$M_L = 3.3$		0.5	1.13
			SME					0.2	0.34
GZH	4.2	250	Pg	05	49	26.6	−1.4		
			SMN			$M_L = 4.1$		0.6	0.48
			SME					0.5	0.19

OCT 25d 10h 39m 00.9 ± 0.05s, SD0.80 / 445
43.37 N ± 0.54km, 144.35 E ± 0.50km, h101 ± 0.23km
Hokkaido region (224)
m_B5.8 / 13, m_b5.7 / 156,

MDJ	10.7	282	−iP	10	41	34.0	1.3		
			PMZ			$m_b = 6.2$		1.2	0.53
			PMZ			$m_B = 6.4$		4.0	2.48
			PP	10	41	45.0	1.2		
			ScP	10	50	50.0	1.7		
			S	10	43	34.0	3.1		
			SS	10	43	50.0	2.2		
			LN					16.0	1.93
			LE					10.0	1.93
CN2	13.7	278	−P	10	42	11.8	−0.5		
			PMZ			$m_b = 6.3$		0.8	0.44
			PMZ			$m_B = 6.2$		4.0	1.54
			sP	10	42	45.0	4.1		
			LN					12.0	0.81
			LE					12.0	1.74
			LZ					14.0	8.75
SNY	15.4	271	−iP	10	42	33.5	−0.1		
			PMZ			$m_b = 5.4$		1.2	0.19
			PMZ			$m_B = 5.3$		10.0	1.22
			pP	10	42	43.0	−3.9		
			iS	10	45	22.0	0.5		
			LN					9.0	0.69
			LE					11.0	0.81
			LZ					15.0	1.53
DL2	17.7	263	+iP	10	43	01.0	−1.1		
			PMZ			$m_b = 6.2$		1.0	1.20
			PMZ			$m_B = 6.0$		4.0	2.80
BJI	21.3	271	−P	10	43	40.0	−0.7		
			PMZ			$m_b = 5.8$		0.9	0.40
			PMZ			$m_b = 6.0$		2.0	1.47
			eS	10	47	28.0	1.9		
			SS	10	48	09.0	2.3		
			eScP	10	51	08.5	0.1		
			ScS	10	54	52.5	1.5		
			LN					11.0	0.56
			LZ					32.0	2.29
TIA	22.0	260	−P	10	43	48.4	−0.2		
			PMZ			$m_b = 5.9$		1.0	0.64
			S	10	47	44.0	4.3		
SSE	22.1	244	+P	10	43	49.0	0.3		
			PMZ			$m_b = 5.5$		1.0	0.23
			PMZ					3.0	0.20
			pP	10	44	12.0	2.4		
			LN					13.0	0.90
			LE					12.0	0.80
			LZ					16.0	1.40
NJ2	23.0	249	−P	10	43	58.0	−0.1		
			PMZ			$m_b = 5.9$		1.0	0.53
			PMZ					3.0	3.01
			LN					11.0	1.15

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			LE			10.0	1.07	
			LZ			15.0	1.51	
HHC	24.4	275	-iP	10 44 12.0	0.9			
			PMZ	m_b=5.6		0.8	0.22	
			PMZ	m_B=5.7		4.0	1.43	
			pP	10 44 28.0	-4.6			
			S	10 48 20.0	0.1			
			LN			10.0	0.61	
			LE			12.0	0.59	
			LZ			12.0	1.85	
TIY	24.8	268	-iP	10 44 16.5	1.1			
			PMZ	m_b=5.7		1.0	0.34	
			PMZ	m_B=6.0		4.0	2.63	
			LE			11.0	0.75	
			LZ			18.0	1.46	
BTO	25.6	276	+iP	10 44 23.0	0.5			
			PMZ	m_b=6.3		1.0	0.74	
			PMZ			3.0	1.79	
			pP	10 44 40.0	-4.1			
			S	10 48 37.0	-2.8			
			LN			13.0	0.063	
			LE			11.0	0.095	
WHN	27.0	252	-iP	10 44 36.0	0.2			
			PMZ	m_b=6.3		0.8	0.64	
			PMZ			3.0	1.82	
			pP	10 44 59.5	1.7			
			S	10 49 02.0	-1.6			
			LE			15.0	1.09	
			LZ			18.0	0.84	
QZH	28.0	237	-P	10 44 45.0	0.6			
			PMZ	m_b=5.8		1.5	0.31	
XAN	29.0	263	-iP	10 44 53.0	-0.6			
			PMZ	m_b=5.7		0.9	0.14	
			S	10 49 40.0	4.7			
LZH	31.7	271	-iP	10 45 18.4	0.4			
			PMZ	m_b=6.1		1.5	0.46	
			PMZ	m_B=5.4		7.0	0.44	
			pP	10 45 42.0	1.7			
			sP	10 45 57.0	4.3			
			PP	10 46 25.0	-0.9			
			S	10 50 17.0	-1.6			
			SME			6.0	0.70	
			PcS	10 51 53.0	3.2			
			ScS	10 55 38.0	1.9			
			LN			11.0	0.61	
			LZ			18.0	0.94	
GZH	32.6	242	-iP	10 45 26.4	1.1			
GTA	33.3	279	-P	10 45 32.0	0.1			
			PMZ	m_b=5.7		1.0	0.13	
			PMZ	m_B=5.4		6.0	0.43	
			pP	10 45 55.8	1.5			
			sP	10 46 06.6	0.0			
			PP	10 46 47.2	1.2			
			PcP	10 48 10.8	-0.1			
			ScP	10 51 45.9	1.2			
			S	10 50 42.0	-1.4			
			PcS	10 51 53.0	-2.3			
			ScS	10 55 46.2	1.9			
			LE			12.0	0.91	
			LZ			14.0	0.94	
CD2	34.3	262	-iP	10 45 40.4	0.1			
			S	10 50 58.0	-0.8			
			LZ			40.0	1.05	
GYA	34.9	254	-iP	10 45 44.4	-0.4			
			PMZ	m_b=5.7		1.0	0.13	
			PMZ			3.0	1.28	
			pP	10 46 09.4	1.9			
			PP	10 47 03.6	-0.9			
			S	10 51 04.8	-2.0			
			ScP	10 51 47.0	-3.0			
			ScS	10 55 52.8	0.6			
QZN	37.8	241	+P	10 46 11.3	2.0			
KMI	38.4	256	iP	10 46 15.0	0.1			
			PMZ	m_b=6.2		2.0	0.80	
			pP	10 46 40.0	2.3			
			S	10 52 00.0	-1.2			
WMQ	40.3	291	-iP	10 46 31.5	1.0			
			PMZ	m_b=5.9		2.2	0.41	
			PMZ	m_B=5.8		4.0	0.59	
			pP	10 46 55.5	2.0			
			PP	10 48 10.0	2.1			
			PcP	10 48 29.5	-2.6			
			ScP	10 52 10.0	-0.5			
			PcS	10 52 21.5	0.3			
			S	10 52 32.0	2.2			
			sS	10 53 14.0	3.1			
			ScS	10 56 26.0	2.7			
			LN			8.0	0.81	
			LE			16.0	0.75	
			LZ			14.0	1.04	
LSA	44.2	270	-P	10 47 03.2	1.0			

OCT 25d 13h 25m 02.1±0.05s, SD1.38 / 33
31.46 S±0.79km, 177.78 W±0.88km, h33±0.21km
Kermadec Islands region (177)
m_b5.2 / 6,

TIA	90.8	313	eP	13 38 06.7	2.3		
CN2	91.1	323	eP	13 38 03.0	-2.6		
			PMZ	m_b=5.3		1.0	0.017

OCT 25d 13h 48m 21.0±0.04s, SD1.51 / 160
13.38 N±0.72km, 120.50 E±1.07km, h22±0.08km
Mindoro (250)
M_S5.1 / 46, m_B5.5 / 6, m_b5.0 / 58

QZH	11.6	351	eP	13 51 14.0	4.8		
			eS	13 53 20.0	0.5		
			LN	M_S=4.7		16.0	4.33
			LZ	M_S=4.8		18.0	6.65
QZN	11.7	300	P	13 51 07.0	-2.5		
			PMZ	m_b=5.2		1.1	0.052
			eS	13 53 15.0	-5.2		
			LN	M_S=4.9		16.0	3.24
			LE			17.0	5.48
WHN	18.0	343	eP	13 52 34.0	2.2		
			pP	13 52 42.5	4.5		
			LN	M_S=5.1		17.0	4.60
			LE			13.0	3.56
			LZ	M_S=5.0		20.0	7.50
GYA	18.4	317	P	13 52 36.6	0.0		
			PMZ	m_b=4.2		1.2	0.014
			LN	M_S=5.1		15.0	2.61
			LE			15.0	5.00
NJ2	18.6	356	+P	13 52 40.0	0.2		
			LN	M_S=4.8		14.0	1.83
			LE			12.0	1.23
			LZ	M_S=4.6		19.0	2.54
KMI	20.4	308	+P	13 53 03.5	3.7		
			PMZ	m_b=4.7		1.8	0.070
			sP	13 53 12.5	2.3		
			LN	M_S=4.7		10.0	0.60
			LE			10.0	1.00
			LZ	M_S=4.9		20.0	5.10
TIA	22.9	353	eP	13 53 26.9	1.8		
			PMZ	m_b=4.2		1.0	0.011
			S	13 57 31.0	2.1		
			LN	M_S=5.0		17.0	2.97

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			LE			15.0	2.08
			LZ	$M_S=4.8$		20.0	3.29
XAN	23.1	335	P	13 53 27.3	0.6		
			PMZ	$m_b=4.2$		1.0	0.011
			PMZ	$m_B=5.3$		6.0	0.85
			pP	13 53 33.0	−0.8		
			sP	13 53 35.5	−1.7		
			S	13 57 38.0	6.2		
			LN	$M_S=5.1$		12.0	1.59
			LE			12.0	2.55
CD2	23.3	321	eP	13 53 28.0	−0.5		
			LE	$M_S=5.1$		12.0	3.24
			LZ	$M_S=5.2$		18.0	6.36
TIY	25.3	345	−P	13 53 48.6	0.8		
			S	13 58 11.0	1.8		
			LN	$M_S=5.1$		16.0	3.34
			LZ	$M_S=5.1$		18.0	4.75
DL2	25.4	2	eP	13 53 50.0	0.7		
			S	13 58 11.0	−0.9		
			LN	$M_S=5.0$		16.0	2.70
			LE			18.0	1.80
BJI	26.8	353	eP	13 54 01.0	−1.1		
			PMZ	$m_b=4.8$		0.9	0.018
			LE	$M_S=4.8$		14.0	1.57
			LZ	$M_S=5.0$		16.0	2.92
LZH	27.1	329	eP	13 54 04.5	−0.5		
			PMZ	$m_b=5.0$		1.5	0.051
			PMZ	$m_B=5.2$		5.0	0.27
			PP	13 54 47.0	−3.6		
			eS	13 58 35.0	−5.6		
			sS	13 58 50.0	−2.4		
			LN	$M_S=5.4$		14.0	4.12
			LE			15.0	4.58
			LZ	$M_S=5.3$		18.0	7.14
HHC	28.5	346	P	13 54 17.2	0.1		
			PMZ	$m_b=4.8$		1.0	0.020
			PP	13 55 06.0	−2.0		
			S	13 59 00.0	−1.0		
			LN	$M_S=5.2$		16.0	2.67
			LE			17.0	2.24
			LZ	$M_S=5.1$		18.0	4.59
SNY	28.5	5	eP	13 54 15.2	−1.8		
			PMZ	$m_b=4.8$		1.2	0.023
			pP	13 54 21.0	−3.3		
			LN	$M_S=5.1$		17.0	2.67
			LE			16.0	1.33
			LZ	$M_S=4.9$		19.0	2.76
BTO	28.6	343	eP	13 54 18.5	−0.1		
			eS	13 59 05.0	0.2		
			LN	$M_S=5.2$		17.0	3.61
			LE			15.0	1.86
CN2	30.6	7	eP	13 54 34.0	−2.1		
			PMZ	$m_b=4.3$		1.0	0.0060
			epP	13 54 42.0	−1.5		
			S	13 59 31.0	−4.2		
			LN	$M_S=5.0$		15.0	1.70
			LE			15.0	0.91
			LZ	$M_S=5.5$		18.0	8.74
LSA	31.6	306	P	13 54 45.0	−0.6		
GTA	31.7	329	eP	13 54 45.8	−0.2		
			PMZ	$m_b=5.0$		0.8	0.019
			pP	13 54 55.0	1.9		
			sP	13 54 59.6	3.1		
			PP	13 55 52.8	2.5		
			PcP	13 57 38.4	1.7		
			S	13 59 51.0	−1.4		
			sS	14 00 06.0	0.4		
			LE	$M_S=5.5$		17.0	6.91
			LZ	$M_S=5.5$		18.0	6.35
MDJ	32.1	12	eP	13 54 48.6	−0.5		
			LZ	$M_S=4.8$		20.0	1.87
WMQ	41.3	324	P	13 56 09.0	1.6		
			PMZ	$m_B=5.6$		5.0	0.45
			PP	13 57 48.0	2.3		
			PcP	13 58 10.0	4.5		
			PcS	14 01 56.0	0.6		
			S	14 02 22.0	2.4		
			ScS	14 06 08.0	0.9		
			LN	$M_S=5.6$		15.0	4.79
			LZ	$M_S=5.5$		16.0	5.10
KSH	47.0	312	eP	13 56 58.0	4.9		
			eS	14 03 46.0	3.0		

OCT 25d 14h 40m 39.7 ± 0.06s, SD1.62 / 75
23.87 N ± 1.27km, 122.99 E ± 1.13km, h26 ± 0.79km
Taiwan region **(243)**
M_S4.9 / 46, M_L4.8 / 9, m_B5.1 / 2,

QZH	4.1	286	+Pn	14 41 41.5	−0.3		
			Sn	14 42 30.0	−1.3		
			SMN	$M_L=4.4$		1.0	0.69
			SME			1.0	0.66
			LE	$M_S=4.4$		14.0	8.97
			LZ	$M_S=4.6$		14.0	10.7
SSE	7.4	348	−P	14 42 28.8	0.3		
			PMZ	$m_b=5.0$		1.0	0.086
			SMN	$M_L=4.7$		1.5	0.23
			SME			1.5	0.38
			LN	$M_S=4.6$		14.0	3.40
			LE			14.0	4.20
			LZ	$M_S=4.2$		20.0	3.20
GZH	8.9	267	+P	14 42 48.0	−1.6		
			SMN	$M_L=5.0$		1.0	0.40
			SME			1.0	0.12
			LN	$M_S=4.8$		10.0	2.76
			LE			11.0	3.80
			LZ	$M_S=4.7$		12.0	4.82
NJ2	8.9	337	+P	14 42 49.0	−1.2		
			PMZ	$m_b=5.2$		0.8	0.070
			sP	14 43 03.0	2.4		
			S	14 44 28.0	−2.7		
			LN	$M_S=4.9$		11.0	3.36
			LE			12.0	5.65
			LZ	$M_S=4.3$		14.0	2.25
WHN	10.2	313	+P	14 43 08.0	0.8		
			sP	14 43 17.5	−0.1		
			S	14 45 08.0	6.9		
			LN	$M_S=4.9$		9.0	3.80
			LE			9.0	3.33
			LZ	$M_S=4.5$		14.0	3.53
QZN	13.2	251	P	14 43 47.2	−0.5		
			PMZ	$m_b=5.4$		1.1	0.074
			LN	$M_S=4.8$		17.0	3.82
			LE			18.0	3.39
TIA	13.3	339	eP	14 43 52.8	3.1		
			LN	$M_S=4.8$		14.0	1.52
			LE			14.0	3.65
			LZ	$M_S=4.8$		20.0	7.16
GYA	15.0	283	P	14 44 11.8	−0.4		
			PMZ	$m_b=4.2$		1.0	0.010
			SMN			1.6	0.25
			SME			1.6	0.15
			LN	$M_S=4.9$		12.0	1.14
			LE			12.0	3.26
XAN	15.9	313	P	14 44 23.6	−0.4		
			LN	$M_S=5.1$		8.0	2.75
			LE			8.0	1.43

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TIY	16.5	329	eP	14 44 33.8	2.6			
			LN	M_S=4.9		12.0	1.81	
			LE			12.0	2.36	
			LZ	M_S=4.5		17.0	1.92	
BJI	17.1	342	eP	14 44 41.5	2.6			
			LE	M_S=4.7		13.0	1.80	
			LZ	M_S=4.2		20.0	1.20	
SNY	17.9	1	eP	14 44 50.6	1.7			
			PMZ	m_b=4.4		1.0	0.020	
			sP	14 44 56.8	−3.0			
			LE	M_S=4.7		14.0	2.08	
			LZ	M_S=4.6		14.0	2.12	
CD2	18.4	297	P	14 44 55.0	−0.6			
			PMZ	m_b=5.0		1.2	0.088	
			LN	M_S=5.2		10.0	4.35	
			LZ	M_S=4.7		12.0	2.13	
KMI	18.5	278	+P	14 44 57.0	1.0			
			PMZ	m_b=4.7		1.8	0.070	
			LZ	M_S=4.9		13.0	3.40	
HHC	19.5	333	P	14 45 08.0	0.5			
			LN	M_S=4.9		13.0	1.39	
			LE			13.0	1.97	
			LZ	M_S=4.5		18.0	1.81	
BTO	19.9	330	eP	14 45 12.0	−0.8			
			PMZ	m_b=4.2		0.8	0.010	
			ePP	14 45 28.5	−2.7			
			LN	M_S=5.0		12.0	2.04	
			LE			10.0	1.41	
CN2	20.0	5	eP	14 45 12.6	−0.7			
			PMZ	m_b=4.5		1.0	0.025	
			epP	14 45 21.0	0.4			
			LN	M_S=5.0		13.0	2.65	
			LE			13.0	2.11	
			LZ	M_S=5.4		14.0	12.1	
LZH	20.5	311	−P	14 45 20.0	0.8			
			PMZ	m_b=5.2		1.5	0.16	
			PMZ	m_B=5.2		5.0	0.54	
			pP	14 45 30.0	3.6			
			sP	14 45 34.5	4.2			
			PP	14 45 40.0	0.2			
			LE	M_S=4.7		13.0	1.66	
			LZ	M_S=4.8		15.0	2.52	
GTA	25.0	314	eP	14 46 02.0	−1.2			
			PMZ	m_b=4.9		1.0	0.043	
			PMZ	m_B=5.0		6.0	0.34	
			LE	M_S=4.7		14.0	1.39	
			LZ	M_S=4.8		15.0	2.33	
LSA	29.0	289	P	14 46 41.4	1.4			
WMQ	35.1	313	eP	14 47 33.0	0.0			
			pP	14 47 42.0	1.0			
			sP	14 47 46.5	2.0			
			LE	M_S=4.9		12.0	0.99	
			LZ	M_S=4.9		13.0	1.27	

OCT 25d 15h 22m 24.0±0.05s, SD2.58 / 14
26.34 N±0.45km, 102.78 E±0.43km, h20±0.10km
Yunnan Province (318)
M_L3.6 / 5,

GYA	3.5	87	Pg	15 23 28.0	2.1			
CD2	4.6	10	Pn	15 23 35.0	1.5			
			SMN	M_L=3.6		0.8	0.042	
			SME			1.0	0.14	
XAN	9.3	33	eP	15 24 37.2	−3.5			

OCT 26d 02h 27m 31.3±0.03s, SD1.25 / 296
18.55 N±0.69km, 145.71 E±0.70km, h193±0.16km
Marianas (216)
m_B5.5 / 6, m_b5.4 / 86,

SSE	25.5	304	P	02 32 42.8	−0.6			
			PMZ	m_b=5.0		1.0	0.037	
			pP	02 33 20.0	−1.2			
			sS	02 38 04.0	4.3			
			ScP	02 39 27.5	−2.2			
			LN			10.0	1.80	
			LE			9.0	1.60	
			LZ			20.0	3.20	
NJ2	27.7	304	+P	02 33 07.0	3.5			
			PMZ	m_b=5.3		1.2	0.074	
			LZ			22.0	2.07	
MDJ	29.3	336	−P	02 33 17.2	−0.8			
			ScP	02 39 38.0	−3.3			
			ScS	02 43 33.0	−1.7			
			LN			12.0	1.04	
			LE			11.0	1.77	
			LZ			14.0	1.07	
CN2	30.4	330	eP	02 33 28.4	0.5			
			PMZ	m_b=4.7		0.5	0.0090	
			LN			11.0	1.47	
			LE			8.0	1.04	
			LZ			17.0	5.22	
GZH	30.6	284	+P	02 33 30.0	0.8			
			S	02 38 18.0	3.0			
			LZ			20.0	2.87	
BJI	33.2	316	eP	02 33 52.0	−0.6			
			PMZ	m_b=5.7		1.8	0.32	
			eS	02 38 52.0	−5.8			
			eScP	02 39 52.0	−2.6			
			eSS	02 41 16.0	3.4			
			eScS	02 43 53.0	−1.4			
QZN	33.9	277	eP	02 33 58.0	−0.3			
			S	02 39 10.0	2.6			
			LN			13.0	0.82	
			LE			**14.0**	**1.41**	
TIY	**34.8**	**310**	eP	**02 34 05.0**	**−0.5**			
			S	**02 39 15.0**	**−5.1**			
			LN			10.0	2.17	
			LZ			18.0	1.83	
XAN	36.2	303	P	02 34 18.3	0.8			
			PMZ	m_b=4.8		1.5	0.039	
			LN			14.0	3.97	
			LE			9.0	0.83	
HHC	36.7	315	P	02 34 22.4	0.4			
			PMZ	m_b=4.9		1.2	0.039	
			S	02 39 50.0	−0.1			
			LN			12.0	0.81	
			LE			13.0	1.09	
			LZ			21.0	1.90	
GYA	36.8	290	+iP	02 34 23.6	0.8			
			PMZ	m_b=4.9		1.2	0.043	
			pP	02 35 02.4	−0.7			
			S	02 39 53.4	1.9			
			ScP	02 40 08.0	0.7			
			PcS	02 40 24.0	−3.0			
			ScS	02 44 15.4	1.7			
			LZ			18.0	2.16	
BTO	37.7	313	P	02 34 30.0	0.1			
			PMZ	m_b=5.1		1.2	0.070	
			pP	02 35 07.0	−3.3			
			S	02 40 03.0	−1.4			
			LN			13.0	2.12	
			LE			13.0	1.60	
CD2	39.8	296	P	02 34 48.0	0.2			
			PMZ	m_b=5.4		1.2	0.14	
			S	02 40 35.0	−1.8			
			sS	02 41 44.0	−5.1			
			LN			10.0	3.26	

			LZ				16.0	2.32
KMI	40.3	287	+P	02	34	52.5	0.8		
			PMZ			$m_b = 5.3$		1.6	0.16
			PMZ			$m_B = 5.3$		6.0	0.60
			pP	02	35	30.0	−2.3		
			S	02	40	47.0	3.4		
			sS	02	41	56.0	−0.1		
			LN					10.0	0.70
			LE					10.0	0.70
			LZ					18.0	2.10
LZH	40.7	304	P	02	34	56.0	0.6		
			PMZ			$m_b = 5.4$		1.5	0.18
			PMZ			$m_B = 5.2$		6.0	0.39
			pP	02	35	33.0	−3.1		
			sP	02	35	54.0	−3.8		
			PP	02	36	35.0	0.4		
			PcP	02	36	58.0	5.3		
			PcS	02	40	45.0	3.0		
			S	02	40	49.0	−1.3		
			ScS	02	44	38.0	1.5		
			LN					9.0	1.89
			LZ					18.0	1.92
GTA	44.6	308	P	02	35	25.8	−1.1		
			PMZ			$m_b = 5.3$		1.4	0.12
			PMZ			$m_B = 5.4$		3.5	0.42
			pP	02	36	05.6	−2.5		
			ScP	02	40	40.0	1.9		
			S	02	41	46.0	−1.0		
			ScS	02	45	01.2	0.6		
			LN					14.0	2.85
			LZ					20.0	2.72
LSA	50.6	293	P	02	36	14.5	1.0		
			S	02	43	14.0	3.3		
			sS	02	44	25.0	−1.0		
			ScS	02	45	42.0	2.1		
WMQ	54.4	311	−iP	02	36	40.8	−0.3		
			PMZ			$m_b = 5.5$		1.5	0.19
			pP	02	37	22.0	−1.9		
			PP	02	38	42.5	−3.7		
			S	02	44	02.5	0.6		
			sS	02	45	15.9	−2.3		
			ScS	02	46	04.0	−2.3		
			LE					11.0	1.35
			LZ					18.0	1.43
KSH	63.0	305	P	02	37	40.0	−0.5		
			sS	02	47	12.0	1.0		

OCT 27d 00h 08m 44.1 ± 0.27s, SD3.44 / 7
22.81 N ± 2.09km, 118.00 E ± 1.36km, h8 ± km
Taiwan region (243)
M_L3.9 / 7,

GZH	4.3	275	Pg	00	10	02.4	2.4		
			SMN			$M_L = 4.1$		0.4	0.49
			SME					0.5	0.15

OCT 27d 05h 06m 44.8 ± 0.03s, SD1.32 / 214
35.98 N ± 0.84km, 141.33 E ± 0.70km, h26 ± 0.25km
Near east coast of Honshu (228)
M_S4.6 / 5, m_B5.5 / 2, m_b5.1 / 90

MDJ	12.4	318	+iP	05	09	47.4	4.3		
			PMZ			$m_b = 5.5$		1.2	0.12
			S	05	11	56.0	−5.3		
			LZ			$M_S = 4.5$		20.0	3.73
CN2	14.5	308	+P	05	10	11.0	1.0		
			PMZ			$m_b = 5.1$		1.0	0.035
			epP	05	10	16.0	−0.4		
			LN			$M_S = 4.6$		10.0	1.15
			LE					10.0	0.97
			LZ			$M_S = 4.9$		16.0	5.80
SNY	15.0	298	−iP	05	10	18.0	1.1		
			PMZ			$m_b = 5.5$		1.2	0.11
			LZ			$M_S = 4.5$		18.0	2.62
DL2	15.9	286	eP	05	10	30.0	1.1		
SSE	17.5	260	eP	05	10	50.2	1.6		
			LZ			$M_S = 4.6$		20.0	3.20
TIA	19.6	278	eP	05	11	11.3	−2.3		
			LZ			$M_S = 4.5$		18.0	1.87
BJI	20.2	289	eP	05	11	17.5	−3.2		
			PMZ			$m_b = 5.2$		1.5	0.16
			LZ			$M_S = 4.2$		18.0	0.88
TIY	23.2	283	+P	05	11	49.0	−1.5		
			LZ			$M_S = 4.5$		18.0	1.58
HHC	23.8	291	eP	05	11	54.4	−2.1		
			PMZ			$m_b = 4.9$		0.8	0.036
			LZ			$M_S = 4.7$		14.0	1.89
BTO	24.9	290	eP	05	12	05.0	−2.8		
XAN	26.6	275	P	05	12	21.8	−1.1		
			PMZ			$m_b = 5.0$		0.8	0.031
			pP	05	12	27.7	−2.9		
			sP	05	12	32.0	−2.3		
LZH	30.2	281	+P	05	12	55.0	−0.8		
			PMZ			$m_b = 5.4$		1.5	0.096
			PMZ			$m_B = 5.2$		8.0	0.36
			pP	05	13	03.0	−0.6		
			sP	05	13	08.0	0.8		
			LE			$M_S = 4.9$		15.0	1.45
			LZ			$M_S = 4.8$		20.0	1.93
GYA	31.0	262	−iP	05	13	01.0	−1.9		
			PMZ			$m_b = 5.4$		1.4	0.084
			S	05	18	01.4	−2.6		
CD2	31.6	272	P	05	13	06.4	−1.9		
GTA	32.8	289	+iP	05	13	18.8	−0.1		
			PMZ			$m_b = 5.6$		1.0	0.097
			pP	05	13	28.6	1.9		
			PcP	05	16	04.0	1.1		
			LZ			$M_S = 4.6$		18.0	0.99
KMI	34.7	263	−P	05	13	34.5	−1.0		
			PMZ			$m_b = 5.4$		1.8	0.10
WMQ	41.3	298	+iP	05	14	31.3	1.3		
			PMZ			$m_b = 5.9$		1.0	0.21
			PMZ			$m_B = 5.9$		4.0	0.73
			LZ			$M_S = 4.7$		18.0	0.98

OCT 27d 07h 01m 22.5 ± 0.04s, SD1.11 / 139
40.24 N ± 0.81km, 63.10 E ± 0.41km, h39 ± 0.20km
Turkmeniya (340)
M_S4.5 / 3, m_b5.0 / 65,

KSH	9.9	90	P	07	03	44.0	−1.5		
WMQ	18.6	71	P	07	05	36.5	−2.7		
			S	07	09	05.6	4.4		
			LN			$M_S = 4.5$		12.0	1.01
			LZ			$M_S = 4.3$		16.0	1.18
GTA	28.1	80	eP	07	07	13.5	0.3		
			PMZ			$m_b = 4.5$		1.0	0.0090
			pP	07	07	24.0	0.9		
LZH	32.1	84	eP	07	07	49.0	0.1		
			PMZ			$m_b = 4.9$		1.0	0.018
CD2	34.1	93	P	07	08	07.1	1.0		
BTO	35.4	74	eP	07	08	19.4	2.2		
HHC	36.5	73	eP	07	08	28.2	2.0		
TIY	38.0	77	eP	07	08	40.8	1.3		
			LZ			$M_S = 4.9$		11.0	0.99
GYA	38.5	97	P	07	08	44.2	0.7		

OCT 27d 10h 22m 46.6 ± 0.05s, SD1.45 / 256
5.13 S ± 0.95km, 152.62 E ± 0.99km, h61 ± 0.38km

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New Britain region (192)
M_S5.6 / 4, m_B5.8 / 5, m_b5.5 / 77

QZH	44.6	314	+P	10	30	56.9	2.0		
			PMZ			m_b=5.8		0.9	0.13
SSE	46.9	322	P	10	31	14.5	1.4		
			PMZ			m_b=5.3		1.0	0.041
			pP	10	31	30.5	2.6		
			LZ			M_S=5.4		20.0	4.10
GZH	47.5	308	-iP	10	31	20.5	2.5		
			LZ			M_S=5.6		20.0	6.23
QZN	48.5	301	-iP	10	31	27.2	1.6		
NJ2	49.0	321	+P	10	31	30.0	0.6		
			PMZ			m_b=5.2		0.8	0.025
			LZ			M_S=5.3		19.0	2.89
WHN	51.0	317	+P	10	31	45.0	0.4		
			PMZ			m_b=5.4		1.0	0.047
			LZ			M_S=5.5		22.0	5.19
DL2	52.4	330	P	10	31	55.0	-0.1		
TIA	52.9	324	+P	10	31	58.1	-0.8		
			LZ			M_S=5.0		30.0	1.96
MDJ	53.7	340	+iP	10	32	03.5	-1.3		
			PMZ			m_b=5.8		1.0	0.11
			LZ			M_S=4.9		28.0	1.66
SNY	53.7	333	eP	10	32	03.8	-1.3		
			PMZ			m_b=5.0		1.0	0.020
			LZ			M_S=5.4		20.0	3.23
GYA	54.5	308	+iP	10	32	11.2	0.5		
			PMZ			m_b=5.3		1.0	0.039
			pP	10	32	28.0	2.4		
			LZ			M_S=5.4		22.0	3.87
CN2	54.5	336	P	10	32	09.6	-1.5		
			PMZ			m_b=5.4		0.8	0.039
			pP	10	32	24.0	-2.1		
			LZ			M_S=5.6		16.0	4.46
BJI	56.1	327	eP	10	32	21.0	-1.2		
			PMZ			m_b=5.3		1.5	0.059
			LZ			M_S=5.3		24.0	2.88
TIY	56.7	322	eP	10	32	26.0	-0.7		
			PMZ			m_b=5.3		1.2	0.042
			LZ			M_S=5.5		20.0	3.88
XAN	56.7	317	+iP	10	32	26.4	-0.7		
			PMZ			m_b=5.8		0.7	0.082
			pP	10	32	37.2	-4.9		
KMI	57.0	304	+P	10	32	24.5	-4.9		
			PMZ			m_b=5.8		1.5	0.18
			LZ			M_S=5.4		22.0	3.20
CD2	58.8	311	+P	10	32	41.0	-0.7		
			PMZ			m_b=6.2		0.6	0.17
			LZ			M_S=6.0		20.0	13.2
HHC	59.2	325	eP	10	32	43.9	-0.6		
			PMZ			m_b=5.6		1.0	0.084
			LZ			M_S=5.7		11.0	3.44
BTO	60.0	323	P	10	32	49.0	-0.6		
LZH	61.3	316	+iP	10	32	59.0	-0.1		
			PMZ			m_b=5.9		1.5	0.21
			PMZ			m_B=5.7		5.0	0.47
			pP	10	33	10.0	-4.1		
			PcP	10	33	34.0	-5.3		
			LN			M_S=5.4		10.0	0.87
			LZ			M_S=5.3		22.0	2.55
GTA	65.8	317	+iP	10	33	28.8	0.6		
			PMZ			m_b=5.8		0.8	0.10
			PMZ			m_B=6.1		6.0	1.46
			pP	10	33	46.1	2.7		
			sP	10	33	51.6	1.7		
			LE			M_S=5.9		15.0	3.83
			LZ			M_S=5.5		20.0	3.02
WMQ	75.9	317	+iP	10	34	29.1	0.2		
			PMZ			m_b=5.3		2.0	0.10
			PMZ			m_B=5.7		8.0	0.89
			PcP	10	34	40.5	0.3		
			LZ			M_S=5.7		22.0	4.47

OCT 27d 16h 17m 30.4 ± 0.05s, SD1.18 / 235
22.00 S ± 0.92km, 67.40 W ± 0.89km, h173 ± 0.52km
Chile–Bolivia border region (124)
m_b5.4 / 59,

MDJ	153.5	332	+PKP	16	37	01.7	0.5
CN2	155.8	337	ePKP	16	37	03.7	-0.6
LSA	159.3	64	PKP	16	37	11.5	2.2
GTA	159.5	29	PKP	16	37	10.0	0.8
			pPKP	16	37	49.8	-3.9
HHC	161.2	2	ePKP	16	37	12.6	1.7
BTO	161.3	6	ePKP	16	37	13.2	2.1
BJI	161.8	351	ePKP	16	37	12.0	0.7
LZH	164.0	27	PKP	16	37	15.0	1.2
TIY	164.3	0	ePKP	16	37	15.8	1.8
TIA	165.3	345	ePKP	16	37	16.5	1.6
XAN	167.6	14	PKP	16	37	17.5	0.9
CD2	168.1	40	ePKP	16	37	17.0	0.1
SSE	168.1	321	ePKP	16	37	18.5	1.6
WHN	171.4	350	ePKP	16	37	20.0	1.2
			PP	16	42	29.0	-3.7
GYA	173.0	50	PKP	16	37	20.8	1.0

OCT 27d 22h 03m 09.3 ± 0.03s, SD0.85 / 33
2.56 S ± 0.40km, 126.34 E ± 0.55km, h58 ± 0.35km
Ceram Sea (270)
m_b4.8 / 13,

TIA	39.5	348	P	22	10	34.5	-1.9		
XAN	39.9	337	P	22	10	39.4	-0.5		
			PMZ			m_b=4.6		0.7	0.0060
LZH	43.8	333	P	22	11	12.5	0.6		
			PMZ			m_b=5.1		1.3	0.033
GTA	48.4	332	P	22	11	47.9	0.1		
			PMZ			m_b=4.8		0.8	0.0090
			pP	22	11	59.0	-2.9		
WMQ	57.7	328	P	22	12	57.0	0.0		
			PMZ			m_b=4.6		0.6	0.0050

OCT 27d 22h 05m 02.8 ± 0.03s, SD1.39 / 139
57.76 S ± 1.43km, 25.40 W ± 1.16km, h33 ± 0.16km
South Sandwich Islands region (153)
m_B6.0 / 1, m_b5.4 / 15,

GYA	134.1	112	PKP	22	24	19.4	0.9		
CD2	136.3	105	ePKP	22	24	22.3	-0.1		
LZH	140.3	101	ePKP	22	24	29.0	-0.9		
			PKS	22	28	03.0	0.0		
			LZ			M_S=5.6		25.0	1.33
XAN	141.4	108	ePKP	22	24	28.4	-3.3		
SSE	144.9	125	PKP	22	24	37.0	-0.6		
			LZ			M_S=5.9		20.0	1.90
TIY	146.0	108	-PKP	22	24	40.7	1.0		
			LZ			M_S=5.8		22.0	1.70
BTO	146.9	102	PKP	22	24	43.0	1.7		
TIA	147.2	115	+PKP	22	24	43.8	2.2		
BJI	149.7	109	ePKP	22	24	50.5	4.9		
			LZ			M_S=5.4		24.0	0.64
CN2	157.1	115	ePKP	22	24	59.0	2.9		
			epPKP	22	25	06.0	0.4		
			ePKP2	22	25	25.0	-2.8		
			ePP	22	29	03.0	-4.4		
			PPMZ			m_B=6.0		10.0	1.27
			LZ			M_S=6.0		20.0	2.08

OCT 27d 22h 19m 24.2 ± 0.37s, SD3.11 / 6

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38.06 N ± 0.94km, 93.41 E ± 4.51km, h5 ± km (325)
Qinghai Province
M_L3.4 / 1,

SSE	23.8	99	P	22 24 37.0	−2.6			
			pP	22 24 40.5	−3.6			
			LZ		M_S = 4.6		20.0	1.90

OCT 28d 01h 09m 10.0 ± 0.04s, SD1.42 / 167
33.84 N ± 0.79km, 131.27 E ± 0.70km, h17 ± 0.19km (235)
Kyushu
M_S5.1 / 29, M_L5.6 / 2, m_B5.4 / 3,

SSE	9.0	255	eP	01 11 26.2	4.4			
			pP	01 11 30.0	2.5			
			sP	01 11 32.0	1.3			
			eS	01 13 02.0	−1.1			
			SMN		M_L = 5.6		1.0	1.15
			SME				1.3	1.05
			LN		M_S = 5.4		10.0	19.0
			LE				11.0	8.70
			LZ		M_S = 4.6		20.0	6.90
SNY	10.0	325	+iP	01 11 39.4	2.8			
			LN		M_S = 5.6		7.0	16.6
			LE				8.0	7.00
			LZ		M_S = 5.0		12.0	8.46
MDJ	10.8	354	−P	01 11 50.0	2.2			
			PMZ		m_b = 5.6		1.2	0.19
			LN		M_S = 5.1		10.0	2.40
			LE				10.0	7.72
			LZ		M_S = 4.5		12.0	2.71
CN2	10.9	337	+P	01 11 50.0	1.0			
			PMZ		m_b = 5.0		1.0	0.036
			epP	01 11 55.0	0.2			
			eS	01 13 55.0	3.1			
			LN		M_S = 5.4		10.0	6.65
			LE				10.0	12.2
			LZ		M_S = 5.3		12.0	16.0
TIA	11.8	285	eP	01 11 59.7	−1.7			
			LE		M_S = 4.9		11.0	4.75
			LZ		M_S = 4.9		14.0	6.43
BJI	13.6	301	eP	01 12 24.5	0.1			
			PMZ		m_b = 5.2		1.0	0.052
			LE		M_S = 4.9		14.0	4.72
			LZ		M_S = 4.9		14.0	5.59
WHN	14.7	262	eP	01 12 39.5	0.1			
			pP	01 12 44.6	−0.2			
TIY	15.8	290	eP	01 12 54.0	0.6			
			LE		M_S = 5.0		11.0	3.40
			LZ		M_S = 5.0		14.0	6.55
HHC	17.1	300	P	01 13 12.0	1.1			
			PMZ		m_b = 4.6		1.0	0.030
			LN		M_S = 5.1		13.0	1.99
			LE				14.0	4.44
			LZ		M_S = 5.1		14.0	7.19
BTO	18.2	298	eP	01 13 25.5	1.5			
			PMZ		m_b = 4.8		1.0	0.050
			sP	01 13 33.0	−0.3			
			LN		M_S = 4.9		11.0	1.46
			LE				11.0	2.26
XAN	18.5	277	+P	01 13 29.0	0.7			
			PMZ		m_b = 4.2		1.1	0.012
			pP	01 13 33.1	−0.6			
			sP	01 13 35.5	−2.0			
			PP	01 13 44.5	1.2			
			LN		M_S = 5.1		10.0	2.22
			LE				8.0	1.97
GYA	22.5	257	P	01 14 10.4	0.0			
			PMZ		m_b = 5.0		1.0	0.058
			LZ		M_S = 5.1		16.0	5.50
LZH	22.6	283	eP	01 14 10.5	−0.8			
			PMZ		m_b = 5.2		1.6	0.16
			PMZ		m_B = 4.9		10.0	0.53
			eS	01 18 16.0	2.6			
			LE		M_S = 5.2		8.0	2.47
			LZ		M_S = 4.7		13.0	1.58
CD2	23.4	270	eP	01 14 19.0	−0.3			
			LN		M_S = 5.6		9.0	6.50
			LZ		M_S = 5.2		12.0	4.26
QZN	24.1	238	P	01 14 28.4	2.0			
GTA	25.8	292	−P	01 14 42.0	−0.2			
			PMZ		m_b = 4.8		1.0	0.022
			PMZ		m_B = 5.4		3.5	0.34
			pP	01 14 47.1	−1.4			
			LE		M_S = 5.6		24.0	15.9
			LZ		M_S = 5.1		15.0	4.07
KMI	26.2	258	eP	01 14 47.5	0.9			
			PMZ		m_b = 5.1		1.5	0.070
			pP	01 14 52.5	−0.3			
			LZ		M_S = 5.3		14.0	5.20
WMQ	35.0	300	P	01 16 04.5	0.2			
			PMZ		m_b = 5.2		1.5	0.071
			sP	01 16 17.2	3.3			
			LN		M_S = 5.1		8.0	1.02
			LZ		M_S = 4.8		16.0	1.48

OCT 28d 18h 43m 23.9 ± 0.04s, SD2.30 / 26
31.64 N ± 0.41km, 102.48 E ± 0.50km, h8 ± 0.09km (307)
Sichuan Province
M_L4.0 / 12, m_b4.9 / 1,

CD2	1.3	123	−iPg	18 43 48.5	1.3			
			Sg	18 44 07.6	2.6			
			SME		M_L = 3.4		0.6	0.54
			LZ				5.0	3.21
LZH	4.6	14	ePn	18 44 35.5	1.5			
			PMZ				1.0	0.018
XAN	5.9	64	ePn	18 44 53.2	0.9			
			Sn	18 45 56.5	−6.1			
			Sg	18 46 32.5	2.9			
			SMN		M_L = 4.3		1.0	0.23
			SME				0.9	0.22
GYA	6.3	144	Pn	18 45 01.0	3.1			
			SMN		M_L = 4.3		0.8	0.21
			SME				0.8	0.19
BTO	10.8	32	eP	18 46 00.6	−1.9			
CN2	21.8	50	eP	18 48 19.4	1.1			
			PMZ		m_b = 4.9		1.0	0.050
			epP	18 48 25.0	1.7			

OCT 28d 21h 50m 29.4 ± 0.04s, SD1.33 / 170
37.69 N ± 1.06km, 72.04 E ± 0.59km, h30 ± 0.08km
Afghanistan–USSR border region (717)
M_S4.5 / 1, m_b5.1 / 56,

KSH	3.5	58	Pg	21 51 36.0	3.6			
			Sg	21 52 16.5	−4.2			
WMQ	13.3	58	P	21 53 42.5	2.9			
			PMZ		m_b = 5.5		1.0	0.081
LSA	17.8	111	−P	21 54 38.2	1.4			
GTA	21.8	77	P	21 55 21.6	0.8			
			PMZ		m_b = 4.5		1.0	0.023
XAN	30.0	86	P	21 56 36.4	−1.5			
GYA	31.2	101	P	21 56 48.2	−0.9			
			PMZ		m_b = 5.0		1.0	0.025
TIY	31.8	77	eP	21 56 53.2	−0.6			
TIA	35.8	78	eP	21 57 28.3	−0.1			

OCT 29d 02h 13m 30.1 ± 0.06s, SD2.66 / 8
27.29 N ± 0.45km, 100.95 E ± 0.55km, h4 ± 0.19km

Yunnan Province (318)
M_L3.3 / 5,

KMI	2.7	143	+Pg	02	14	19.0	1.4	
			Sg	02	14	56.5	2.7	
			SMN		M_L=3.2		1.0	0.13
			SME				1.5	0.11

OCT 29d 16h 30m 18.7 ± 0.05s, SD2.13 / 51
37.23 N ± 0.55km, 106.01 E ± 0.50km, h19 ± 0.03km
Northern China (323)
M_S4.4 / 6, M_L4.7 / 16, m_b4.4 / 4

LZH	2.1	237	−iPg	16	30	56.5	0.7	
			Sg	16	31	24.0	−0.1	
			SME		M_L=4.6		0.6	5.04
			LN				4.0	8.00
			LZ				8.0	3.86
XAN	4.0	142	+Pn	16	31	19.5	0.3	
			Pg	16	31	27.0	−1.8	
			Sn	16	32	07.5	0.3	
			Sg	16	32	20.5	−2.7	
			SMN		M_L=4.5		0.6	1.15
			SME				0.7	0.92
			LN		M_S=4.3		8.0	2.33
			LE				4.0	1.75
BTO	4.6	42	Pn	16	31	29.4	1.6	
			Pg	16	31	44.2	4.4	
			Sg	16	32	42.3	−0.3	
			SMN		M_L=4.4		0.4	0.57
			SME				0.4	0.63
TIY	5.1	83	ePn	16	31	34.6	−0.7	
			−iPg	16	31	51.6	2.2	
			Sn	16	32	34.4	−1.6	
			Sg	16	32	54.0	−5.6	
			SMN		M_L=4.9		0.6	1.59
			SME				0.6	1.36
GTA	5.3	296	Pn	16	31	40.4	2.3	
			Pg	16	31	59.0	6.1	
			Sn	16	32	39.4	−1.6	
			Sg	16	33	06.0	0.1	
			SMN		M_L=4.5		1.0	0.52
			SME				1.0	0.43
			LN		M_S=4.6		6.0	3.99
			LZ		M_S=3.9		11.0	1.24
HHC	5.6	48	Pn	16	31	45.0	2.8	
			Pg	16	32	01.6	3.4	
			Sg	16	33	15.0	−0.3	
			SME		M_L=5.0		0.6	1.23
CD2	6.6	197	Pn	16	31	56.4	1.4	
			Sg	16	33	43.6	−1.1	
			SMN		M_L=4.8		0.6	0.49
			SME				0.6	0.45
			LE		M_S=4.1		7.0	1.24
			LZ		M_S=4.1		10.0	1.43
BJI	8.4	67	eP	16	32	22.5	−0.7	
			LZ		M_S=3.7		14.0	0.59
TIA	9.0	93	P	16	32	29.6	−1.2	
WHN	9.6	131	eP	16	32	40.0	0.5	
			SMN				1.0	0.23
			SME				1.0	0.17
GYA	10.8	177	+iP	16	32	56.6	1.3	
			PMZ		m_b=4.8		1.0	0.025
			SMN				1.2	0.12
			SME				1.2	0.19
KMI	12.4	194	eP	16	33	19.0	1.8	
SNY	14.3	66	eP	16	33	39.4	−3.4	
WMQ	15.4	301	P	16	33	56.0	−0.9	
			PMZ		m_b=4.1		1.0	0.0080
			pP	16	34	02.5	0.2	
			LZ		M_S=4.4		6.5	0.64
CN2	16.2	60	eP	16	34	09.2	2.4	
			PMZ		m_b=4.2		1.0	0.011
			epP	16	34	16.0	3.6	
			eS	16	37	05.0	−0.5	
			LZ		M_S=4.2		14.0	0.93
MDJ	19.2	60	eP	16	34	46.5	1.4	

OCT 29d 23h 13m 57.4 ± 0.04s, SD0.99 / 218
16.20 S ± 0.63km, 168.00 E ± 0.85km, h176 ± 0.28km
Vanuatu (New Hebrides) (186)
m_b5.3 / 40,

MDJ	69.9	332	+iP	23	24	51.2	−0.6	
			PMZ		m_b=5.1		0.8	0.032
SNY	70.8	326	eP	23	24	56.2	−1.1	
CN2	71.3	329	−P	23	24	59.0	−1.0	
			PMZ		m_b=5.0		0.8	0.024
			LZ				20.0	1.48
GYA	73.1	305	P	23	25	11.2	0.0	
BJI	73.8	321	eP	23	25	17.0	1.8	
			LZ				24.0	0.96
TIY	74.8	317	eP	23	25	21.0	0.2	
			LZ				22.0	0.92
XAN	75.2	313	P	23	25	22.4	−0.6	
			PMZ		m_b=5.6		0.6	0.081
KMI	75.7	302	−P	23	25	26.0	0.1	
			PMZ		m_b=5.2		1.2	0.060
			pP	23	26	09.5	2.0	
HHC	77.2	320	eP	23	25	33.8	−0.2	
CD2	77.5	308	eP	23	25	35.2	−0.4	
LZH	79.8	312	eP	23	25	49.0	0.4	
			PMZ		m_b=4.9		1.5	0.037
GTA	84.2	314	P	23	26	11.2	0.1	
			PMZ		m_b=5.0		1.0	0.026
			LE				15.0	0.55
			LZ				20.0	0.89
WMQ	94.2	314	P	23	26	58.5	0.0	
			PMZ		m_b=5.3		1.0	0.024
			SKS	23	37	15.0	0.9	
			LZ				20.0	1.00

OCT 30d 01h 02m 43.1 ± 0.05s, SD1.37 / 84
7.05 S ± 0.90km, 154.94 E ± 1.06km, h32 ± 0.19km
Solomon Islands (193)
m_B5.4 / 1, m_b5.2 / 26,

QZH	47.6	313	eP	01	11	19.5	1.3	
WHN	53.9	316	−P	01	12	07.0	0.5	
			sP	01	12	21.5	1.8	
TIA	55.8	323	eP	01	12	18.7	−1.2	
CN2	57.2	335	eP	01	12	28.5	−1.7	
			PMZ		m_b=4.6		1.2	0.010
			epP	01	12	36.0	−3.5	
			LZ		M_S=4.9		16.0	0.87
GYA	57.4	307	P	01	12	33.6	1.7	
XAN	59.7	316	P	01	12	47.0	−0.7	
KMI	60.0	304	−P	01	12	51.0	1.1	
			PMZ		m_b=5.4		1.6	0.080
			pP	01	13	01.5	2.6	
			sP	01	13	06.0	3.2	
CD2	61.8	311	P	01	13	01.5	−0.4	
HHC	62.1	324	eP	01	13	03.7	−0.3	
BTO	62.9	323	eP	01	13	07.0	−2.0	
LZH	64.3	316	−P	01	13	19.5	0.9	
			PMZ		m_b=5.5		1.5	0.085
			PMZ		m_B=5.4		5.0	0.27
			pP	01	13	28.2	0.3	
			sP	01	13	32.7	1.0	
GTA	68.7	317	P	01	13	46.4	−0.3	

International Seismological Centre

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			PMZ		$m_b = 5.2$		1.0	0.032
			pP	01 13 57.0		1.1		
			sP	01 14 04.2		4.3		
LSA	71.3	304	eP	01 14 02.9		0.5		
WMQ	78.8	317	P	01 14 45.0		−0.5		
			PMZ		$m_b = 4.7$		1.5	0.014

OCT 30d 04h 02m 42.5 ± 0.04s, SD1.30 / 208
5.63 S ± 0.74km, 153.93 E ± 0.89km, h70 ± 0.34km (192)
New Britain region
M_S5.1 / 4, m_B5.9 / 9, m_b5.7 / 70

QZH	45.9	313	−P	04 11 00.5		0.3		
			PMZ		$m_b = 5.8$		0.7	0.098
SSE	48.1	321	+P	04 11 18.0		0.5		
			PMZ		$m_b = 5.7$		1.6	0.16
			PMZ		$m_B = 6.0$		4.0	0.80
			LZ		$M_S = 4.8$		20.0	1.10
GZH	48.9	307	+iP	04 11 25.0		1.6		
			PMZ		$m_b = 5.8$		1.2	0.14
			LZ		$M_S = 5.1$		20.0	1.87
QZN	49.9	301	P	04 11 32.6		1.4		
NJ2	50.2	321	+P	04 11 34.0		0.3		
			PMZ		$m_b = 5.7$		1.0	0.096
			LZ		$M_S = 4.7$		24.0	0.88
WHN	52.2	316	+iP	04 11 49.5		0.4		
			PMZ		$m_b = 6.0$		1.2	0.25
DL2	53.5	329	eP	04 11 56.0		−2.2		
TIA	54.0	323	eP	04 12 01.8		−0.8		
SNY	54.8	332	+P	04 12 06.0		−1.7		
			PMZ		$m_b = 4.8$		1.0	0.012
CN2	55.5	335	+P	04 12 11.6		−1.7		
			PMZ		$m_b = 5.2$		1.0	0.028
			LZ		$M_S = 5.1$		20.0	1.78
GYA	55.8	307	+iP	04 12 15.8		0.4		
			PMZ		$m_b = 5.6$		1.4	0.11
			LZ		$M_S = 5.2$		20.0	2.00
BJI	57.2	326	eP	04 12 23.5		−1.8		
			PMZ		$m_b = 5.2$		1.4	0.039
			PMZ		$m_B = 5.3$		9.0	0.34
			LZ		$M_S = 4.8$		19.0	0.83
XAN	58.0	316	+iP	04 12 30.4		−0.5		
			PMZ		$m_b = 6.0$		0.9	0.16
KMI	58.4	304	+P	04 12 35.0		1.2		
			PMZ		$m_b = 6.1$		1.5	0.38
			PMZ		$m_B = 5.9$		4.0	0.60
			pP	04 12 49.0		−2.2		
			LZ		$M_S = 5.1$		24.0	1.90
CD2	60.1	310	+iP	04 12 46.0		0.3		
			PMZ		$m_b = 6.3$		0.8	0.28
			PMZ		$m_B = 6.1$		4.0	0.97
			pP	04 13 03.0		−0.3		
			sP	04 13 08.0		−3.6		
HHC	60.4	324	P	04 12 47.0		−0.4		
			PMZ		$m_b = 5.4$		1.0	0.047
			sP	04 13 14.0		0.8		
			LE		$M_S = 5.0$		10.0	0.34
			LZ		$M_S = 5.0$		22.0	1.29
BTO	61.1	323	eP	04 12 52.0		−0.6		
LZH	62.6	316	+iP	04 13 03.5		1.0		
			PMZ		$m_b = 6.4$		1.5	0.69
			PMZ		$m_B = 6.0$		5.0	1.01
			pP	04 13 18.0		−2.2		
			PcP	04 13 37.0		−2.7		
			PP	04 15 23.0		1.4		
			PcS	04 17 39.0		−2.5		
			eS	04 21 28.5		4.5		
			ScS	04 22 43.0		−0.6		
			LE		$M_S = 5.2$		15.0	0.76
			LZ		$M_S = 5.0$		22.0	1.20
GTA	67.0	317	+iP	04 13 32.0		0.9		
			PMZ		$m_b = 6.1$		1.0	0.28
			PMZ		$m_B = 6.4$		3.5	1.69
			pP	04 13 47.0		−1.9		
			PcP	04 13 58.0		0.1		
			S	04 22 22.0		5.3		
			LE		$M_S = 5.2$		15.0	0.77
			LZ		$M_S = 5.1$		18.0	1.16
LSA	69.6	304	+iP	04 13 48.2		0.7		
WMQ	77.1	317	+iP	04 14 31.5		0.6		
			PMZ		$m_b = 5.5$		1.5	0.11
			PMZ		$m_B = 5.8$		4.0	0.57
			PP	04 17 30.0		4.0		
			S	04 24 18.0		6.3		
			SKS	04 24 35.5		4.7		
			LZ		$M_S = 4.9$		22.0	0.72
KSH	84.4	311	P	04 15 12.0		2.7		

OCT 30d 07h 58m 37.3 ± 0.06s, SD3.28 / 7
35.98 N ± 0.63km, 106.46 E ± 0.46km, h4 ± 0.17km (322)
Gansu Province
M_L3.1 / 3,

LZH	2.1	274	Pg	07 59 14.0		−1.1		
			Sg	07 59 42.5		−1.4		
			SMN		$M_L = 3.1$		0.7	0.15
			SME				0.7	0.12
XAN	2.8	133	Pg	07 59 27.5		0.6		
			SMN		$M_L = 2.7$		0.6	0.045
			SME				0.5	0.018
GTA	6.3	305	Pn	08 00 12.0		0.8		

OCT 30d 10h 35m 46.4 ± 0.05s, SD1.61 / 354
15.34 S ± 1.30km, 173.12 W ± 1.14km, h56 ± 0.16km (173)
Tonga
M_S6.1 / 37, m_B6.1 / 24, m_b5.7 / 87

SSE	78.1	307	+P	10 47 42.0		0.1		
			PMZ		$m_b = 5.1$		1.2	0.034
			PMZ		$m_B = 5.9$		10.0	1.80
			S	10 57 32.0		2.9		
			LN		$M_S = 6.1$		19.0	4.10
			LE				19.0	3.40
			LZ		$M_S = 5.9$		20.0	6.00
MDJ	79.1	322	+P	10 47 47.8		0.3		
			PMZ		$m_b = 5.7$		1.8	0.20
			pP	10 48 04.0		2.1		
			S	10 57 42.5		2.8		
			SS	11 02 54.0		4.5		
			LN		$M_S = 6.7$		22.0	11.0
			LE				22.0	20.1
NJ2	80.3	307	−P	10 47 55.0		1.1		
			PMZ		$m_b = 5.6$		1.1	0.090
			PMZ		$m_B = 5.8$		12.0	1.66
			sP	10 48 12.0		−2.3		
			LZ		$M_S = 5.8$		26.0	5.90
CN2	81.2	320	−P	10 47 58.0		−0.6		
			PMZ		$m_b = 5.6$		1.0	0.074
			PMZ		$m_B = 6.3$		7.0	2.65
			sP	10 48 20.0		1.1		
			LN		$M_S = 6.1$		18.0	2.38
			LE				18.0	4.67
			LZ		$M_S = 6.6$		24.0	30.0
DL2	81.3	314	P	10 48 00.0		0.8		
SNY	81.4	318	−P	10 48 00.6		1.0		
			PMZ		$m_b = 5.6$		1.2	0.093
			PMZ		$m_B = 6.0$		9.5	1.92
			PcP	10 48 08.0		3.5		
			sP	10 48 16.8		−3.1		

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			S	10	58	10.0	6.7		
			LN			$M_S=6.1$		16.0	2.70
			LE					20.0	3.39
			LZ			$M_S=6.0$		29.0	8.99
GZH	81.4	297	P	10	48	01.3	1.7		
			PMZ			$m_B=6.0$		12.0	2.41
			pP	10	48	19.0	4.9		
			S	10	58	08.0	4.6		
			LN			$M_S=6.1$		24.0	4.90
			LE					21.0	3.61
			LZ			$M_S=5.8$		38.0	7.69
QZN	83.1	292	P	10	48	10.0	1.5		
			PMZ			$m_B=5.9$		11.0	1.81
			S	10	58	26.0	5.2		
			sS	10	58	49.0	1.4		
			SS	11	03	54.0	4.7		
			LN			$M_S=6.1$		16.0	1.30
			LE					23.0	5.90
WHN	83.3	304	+P	10	48	08.0	−1.2		
			PMZ			$m_b=5.4$		1.5	0.076
			PMZ					14.0	2.35
			pP	10	48	26.5	2.7		
TIA	83.4	310	+P	10	48	10.3	0.6		
			PMZ			$m_b=5.9$		1.2	0.16
			PMZ					13.0	2.53
			S	10	58	30.0	6.8		
			LN			$M_S=6.3$		22.0	4.17
			LE					22.0	7.95
			LZ			$M_S=6.0$		23.0	8.32
BJI	85.6	313	+eP	10	48	21.5	0.6		
			PMZ			$m_b=6.0$		1.2	0.18
			PMZ			$m_B=6.2$		12.0	3.02
			eSS	11	04	28.0	2.2		
			LN			$M_S=6.0$		18.0	1.96
			LE					20.0	2.80
			LZ			$M_S=6.1$		26.0	10.0
TIY	87.4	310	+iP	10	48	31.0	1.2		
			PMZ			$m_b=6.2$		1.1	0.27
			pP	10	48	40.0	−4.3		
			LN			$M_S=6.1$		19.0	3.51
			LE					18.0	3.05
			LZ			$M_S=6.4$		12.0	8.67
GYA	88.3	298	+iP	10	48	35.0	1.2		
			PMZ			$m_b=6.0$		1.4	0.18
			PMZ			$m_B=6.4$		4.0	1.30
			LN			$M_S=6.0$		20.0	1.89
			LE					20.0	2.89
			LZ			$M_S=5.9$		28.0	7.03
XAN	88.8	306	P	10	48	37.0	0.6		
			PMZ			$m_b=5.9$		1.4	0.13
			PMZ			$m_B=6.2$		8.0	1.44
			sP	10	48	55.0	−1.9		
			sS	10	59	46.0	3.4		
			LN			$M_S=6.2$		20.0	4.73
			LE					21.0	4.23
HHC	89.2	313	+P	10	48	39.4	1.2		
			PMZ			$m_b=6.3$		1.2	0.26
			PMZ			$m_B=6.3$		6.0	1.38
			pP	10	48	48.0	−4.8		
			sP	10	48	55.0	−3.7		
			PP	10	52	05.0	−4.8		
			PPMZ					12.0	0.74
			LE			$M_S=5.9$		18.0	2.40
BTO	90.2	312	P	10	48	44.0	1.0		
			ePP	10	52	18.5	0.7		
			LN			$M_S=6.2$		18.0	2.07
			LE					20.0	5.05
KMI	91.2	296	+P	10	48	49.5	1.5		
			PMZ			$m_b=6.0$		2.0	0.20
			PMZ			$m_B=6.3$		5.0	1.00
			sP	10	49	08.5	0.2		
			LZ			$M_S=6.1$		38.0	12.6
CD2	92.0	301	P	10	48	52.8	1.5		
			PMZ			$m_B=6.1$		10.0	1.16
			pP	10	49	10.2	4.2		
			LN			$M_S=6.4$		22.0	9.84
			LZ			$M_S=5.9$		30.0	6.36
LZH	93.4	306	+iP	10	48	59.0	1.1		
			PMZ			$m_b=6.3$		1.5	0.22
			PMZ			$m_B=6.2$		8.0	0.97
			sP	10	49	17.0	−1.2		
			PP	10	52	45.0	1.4		
			SKS	10	59	26.0	2.2		
GTA	97.4	309	+iP	10	49	16.2	0.4		
			PMZ			$m_b=6.1$		1.0	0.057
			PMZ			$m_B=6.4$		3.5	0.42
			sP	10	49	33.6	−2.6		
			PP	10	53	17.0	2.8		
			SKS	10	59	50.0	5.0		
			SS	11	07	18.0	4.7		
			LE			$M_S=6.6$		21.0	11.5
			LZ			$M_S=6.4$		21.0	12.3
WMQ	107.0	312	Pdif	10	49	59.9	1.4		
			PP	10	54	25.3	−2.2		
			PPMZ			$m_B=6.2$		8.0	0.54
			LN			$M_S=6.1$		22.0	3.60
			LZ			$M_S=6.1$		24.0	5.81
KSH	115.7	307	ePKP	10	54	19.0	−4.3		

OCT 30d 16h 01m 38.0 ± 0.03s, SD1.08 / 171
36.72 N ± 0.84km, 71.34 E ± 0.44km, h173 ± 0.09km
Hindu Kush region (718)
m_b5.0 / 63,

KSH	4.6	51	P	16	02	49.0	1.8		
			S	16	03	41.8	1.7		
WMQ	14.4	55	−P	16	04	53.3	−1.3		
			PMZ			$m_b=5.1$		0.6	0.040
			S	16	07	35.0	5.8		
			SMN					3.0	0.60
			LN					4.0	0.30
LSA	18.0	107	P	16	05	39.5	0.8		
GTA	22.5	74	P	16	06	25.8	1.4		
			PMZ			$m_b=4.7$		0.8	0.021
CD2	27.5	93	eP	16	07	08.6	−1.8		
KMI	29.2	104	eP	16	07	25.5	−0.4		
BTO	30.3	71	eP	16	07	35.8	0.2		
XAN	30.6	84	P	16	07	38.3	−0.3		
			PMZ			$m_b=4.4$		0.6	0.0050
GYA	31.6	99	P	16	07	48.2	0.9		
TIY	32.6	76	−P	16	07	55.6	0.3		

OCT 31d 01h 11m 34.6 ± 0.04s, SD1.18 / 119
1.99 S ± 0.58km, 134.33 E ± 0.84km, h32 ± 0.07km
West Irian region (196)
M_S5.0 / 20, m_B5.8 / 15, m_b5.2 / 46

QZN	31.9	312	eP	01	17	58.9	−0.5		
SSE	35.2	340	+P	01	18	28.0	−0.2		
			PMZ			$m_b=4.7$		1.0	0.012
			PMZ			$m_B=5.8$		5.0	0.80
			LN			$M_S=5.2$		16.0	2.50
			LE					14.0	0.70
			LZ			$M_S=5.1$		22.0	3.30
WHN	37.5	331	eP	01	18	48.5	0.5		
			PMZ			$m_b=5.4$		1.5	0.092
			LE			$M_S=4.8$		12.0	0.69
GYA	38.9	318	P	01	19	00.2	0.7		

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			PMZ		$m_B = 5.8$		6.0	1.05
			PP	01 20 32.0		−0.6		
			LN		$M_S = 5.4$		18.0	3.22
			LE				18.0	2.12
			LZ		$M_S = 5.1$		26.0	3.57
KMI	40.8	313	eP	01 19 15.0		−0.3		
			PMZ		$m_b = 5.3$		1.9	0.090
TIA	41.2	339	eP	01 19 18.7		−0.1		
			PMZ		$m_b = 5.7$		1.2	0.16
DL2	42.3	345	eP	01 19 30.0		2.3		
			S	01 25 48.0		2.2		
XAN	43.1	329	−P	01 19 33.4		−0.4		
			PMZ		$m_b = 5.1$		1.2	0.039
			PMZ		$m_B = 5.8$		5.0	0.73
			S	01 25 54.0		−2.5		
			LE		$M_S = 5.0$		12.0	0.79
CD2	43.8	321	P	01 19 40.4		0.8		
			PMZ		$m_B = 5.8$		6.0	0.95
			ePP	01 21 21.0		−2.2		
			S	01 26 01.0		−5.9		
			eSS	01 29 18.0		1.8		
			LZ		$M_S = 4.9$		20.0	1.67
TIY	44.4	335	+P	01 19 46.2		1.6		
			PMZ		$m_B = 5.6$		8.0	0.82
			S	01 26 18.0		2.2		
			LN		$M_S = 5.0$		15.0	0.91
			LZ		$M_S = 4.9$		20.0	1.62
SNY	44.7	349	−iP	01 19 46.0		−0.8		
			PMZ		$m_B = 5.7$		6.0	0.67
			PP	01 21 28.0		−4.2		
			eS	01 26 16.0		−4.9		
			LZ		$M_S = 4.9$		22.0	1.63
BJI	45.0	340	eP	01 19 48.5		−0.8		
			PMZ		$m_b = 5.5$		1.5	0.099
			PMZ		$m_B = 5.8$		6.0	0.86
			ePP	01 21 40.0		4.9		
			eS	01 26 28.0		2.5		
			LZ		$M_S = 5.0$		20.0	1.81
CN2	46.3	351	P	01 19 58.0		−1.4		
			PMZ		$m_b = 5.4$		1.0	0.060
			PMZ		$m_B = 5.8$		5.0	0.66
			PcP	01 21 34.5		0.2		
			PP	01 21 46.0		−1.6		
			LN		$M_S = 4.9$		16.0	0.50
			LE				16.0	0.54
			LZ		$M_S = 5.2$		20.0	2.97
MDJ	46.6	355	+P	01 20 01.8		−0.1		
			PMZ		$m_b = 5.1$		0.7	0.021
LZH	47.4	326	−iP	01 20 08.8		0.7		
			PMZ		$m_b = 5.6$		1.5	0.13
			PMZ		$m_B = 5.8$		6.0	0.72
			pP	01 20 18.5		1.4		
			sP	01 20 23.0		2.0		
			PP	01 22 01.0		2.8		
			eS	01 27 00.0		0.6		
			sS	01 27 16.0		1.7		
			SS	01 30 22.0		2.6		
			LN		$M_S = 5.0$		11.0	0.60
			LZ		$M_S = 4.9$		30.0	2.12
HHC	47.4	336	P	01 20 09.0		0.5		
			PMZ		$m_b = 4.8$		0.9	0.013
			PMZ		$m_B = 5.8$		6.0	0.76
			PP	01 21 56.0		−2.7		
			LN		$M_S = 5.1$		16.0	0.76
			LE				13.0	0.88
			LZ		$M_S = 4.9$		28.0	1.78
BTO	47.8	335	eP	01 20 12.0		0.1		
			epP	01 20 22.0		1.1		
			ePP	01 22 04.0		1.7		
			eS	01 27 06.0		−0.2		
			LE		$M_S = 4.7$		13.0	0.38
LSA	51.9	311	−P	01 20 42.7		−0.5		
			S	01 28 02.0		0.8		
GTA	52.0	326	−iP	01 20 43.4		0.0		
			PMZ		$m_b = 5.3$		1.0	0.043
			PMZ		$m_B = 6.0$		4.0	0.83
			S	01 28 04.0		1.9		
			LE		$M_S = 5.1$		12.0	0.70
			LZ		$M_S = 5.2$		22.0	2.73
WMQ	61.8	323	+iP	01 21 52.5		−0.6		
			PMZ		$m_b = 5.8$		0.5	0.062
			PMZ		$m_B = 5.7$		6.0	0.54
			pP	01 21 58.0		−4.4		
			LN		$M_S = 5.5$		8.0	0.97
			LZ		$M_S = 4.9$		20.0	0.85

OCT 31d 02h 29m 02.0 ± 0.03s, SD1.21 / 203
40.18 N ± 0.88km, 72.80 E ± 0.44km, h21 ± 0.05km
Kirgiziya (716)
M_S5.0 / 26, M_L6.0 / 1, m_B5.2 / 1,

KSH	2.5	104	Pg	02 29 48.0		1.6		
			Sg	02 30 20.0		−0.5		
WMQ	11.7	67	P	02 31 49.5		−1.3		
			LN		$M_S = 5.9$		7.0	27.0
			LZ		$M_S = 4.8$		10.0	4.39
LSA	18.3	119	P	02 33 17.3		0.3		
			LN		$M_S = 4.6$		14.0	1.66
GTA	20.8	83	+iP	02 33 43.8		−0.7		
			PMZ		$m_b = 5.4$		0.8	0.15
			pP	02 33 47.5		−3.6		
			sP	02 33 53.0		−1.6		
			PP	02 34 03.0		−2.7		
			S	02 37 33.0		3.4		
			sS	02 37 43.0		2.0		
			LE		$M_S = 5.0$		13.0	3.19
			LZ		$M_S = 4.8$		14.0	2.64
LZH	24.7	90	+P	02 34 24.3		0.8		
			PMZ		$m_b = 4.9$		2.0	0.088
			PMZ		$m_B = 5.2$		5.0	0.47
			pP	02 34 32.0		1.7		
			sP	02 34 38.5		4.9		
			PP	02 35 00.0		0.9		
			S	02 38 40.0		−0.7		
			sS	02 38 55.0		2.1		
			ScP	02 41 37.5		0.6		
			PcS	02 41 42.0		2.6		
			ScS	02 45 24.5		1.0		
			LN		$M_S = 5.0$		13.0	1.77
			LE				13.0	1.55
			LZ		$M_S = 4.9$		22.0	3.57
CD2	26.7	101	−P	02 34 43.4		1.0		
			LN		$M_S = 4.9$		10.0	1.16
			LZ		$M_S = 4.9$		12.0	1.85
KMI	29.2	112	eP	02 35 04.5		−0.1		
			PMZ		$m_b = 5.2$		1.9	0.080
			LZ		$M_S = 4.9$		16.0	2.40
XAN	29.3	90	P	02 35 04.9		−0.9		
			PMZ		$m_b = 4.8$		0.6	0.010
			LN		$M_S = 5.1$		11.0	1.43
			LE				11.0	0.97
TIY	30.8	82	eP	02 35 18.8		0.2		
			pP	02 35 22.0		−3.7		
			LN		$M_S = 4.9$		11.0	1.16
			LZ		$M_S = 4.8$		18.0	1.83
GYA	31.2	106	+iP	02 35 22.8		−0.1		
			PMZ		$m_b = 4.9$		1.0	0.020

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			LN			$M_S=4.7$		13.0	0.50
			LE					13.0	0.59
			LZ			$M_S=4.8$		16.0	1.67
BJI	32.9	76	eP	02	35	37.5	−0.1		
			PMZ			$m_b=4.5$		0.6	0.0050
			LE			$M_S=4.9$		11.0	1.07
			LZ			$M_S=4.9$		14.0	1.53
TIA	34.8	82	−P	02	35	54.3	0.6		
			PMZ			$m_b=4.6$		1.0	0.0090
			LE			$M_S=4.8$		12.0	0.82
			LZ			$M_S=4.7$		14.0	1.00
WHN	35.0	93	eP	02	35	53.0	−2.1		
			PMZ			$m_b=5.3$		1.5	0.076
			pP	02	36	01.0	−1.3		
			LE			$M_S=4.9$		12.0	0.92
SNY	37.9	70	+P	02	36	19.8	−0.2		
			PMZ			$m_b=5.0$		1.2	0.029
QZN	38.1	113	P	02	36	22.0	0.2		
GZH	38.1	104	+P	02	36	20.0	−1.8		
			eS	02	42	17.0	3.3		
			LZ			$M_S=5.3$		8.0	1.69
CN2	38.8	67	eP	02	36	27.5	0.4		
			PMZ			$m_b=4.7$		0.7	0.010
			epP	02	36	32.0	−2.4		
			eS	02	42	23.0	−0.3		
			SS	02	45	08.0	3.3		
			LN			$M_S=5.1$		10.0	0.78
			LE					10.0	0.83
			LZ			$M_S=5.3$		20.0	4.75
SSE	39.9	88	+P	02	36	37.7	0.7		
			PMZ			$m_b=5.1$		1.0	0.030
			eS	02	42	40.0	−1.1		
			LN			$M_S=5.3$		12.0	1.30
			LE					14.0	1.80
			LZ			$M_S=4.8$		18.0	1.30
MDJ	41.5	65	eP	02	36	49.7	0.2		
			pP	02	36	57.4	0.7		

OCT 31d 10h 29m 21.8 ± 0.05s, SD2.38 / 19
39.07 N ± 0.55km, 99.54 E ± 0.44km, h17 ± 0.21km
Qinghai Province (325)
M_S3.9 / 1, M_L4.5 / 7,

GTA	0.4	32	−iPg	10	29	31.9	2.3		
			Sg	10	29	38.5	3.2		
			LN					4.0	4.58
			LE					4.0	4.27
			LZ					5.0	4.42
LZH	4.5	130	+Pn	10	30	33.0	2.6		
			Pg	10	30	45.8	3.9		
			Sg	10	31	46.5	2.6		
			SMN			$M_L=4.4$		1.5	0.56
HHC	9.4	75	P	10	31	39.4	−0.6		
			SMN					1.0	0.11
			SME					0.8	0.060
TIY	10.2	94	+P	10	31	49.5	−1.6		
			LE			$M_S=3.9$		10.0	0.47
			LZ			$M_S=4.1$		10.0	1.02
GYA	13.9	152	P	10	32	40.0	−1.1		