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Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
JUN 1d 01h 22m 10.8 ± 0.03s, SD1.14 / 429							
35.59 N ± 0.84km, 140.33 E ± 0.65km, h66 ± 0.20km							
Near south coast of Honshu					(230)		
M_S5.9 / 63, m_B6.1 / 41, m_b5.6 / 127							
MDJ	12.2	321	+P	01 25 05.0	1.2		
			PMZ	m_b = 6.1		1.5	0.52
			sP	01 25 20.0	−3.6		
			S	01 27 25.0	6.6		
			SS	01 27 38.0	4.0		
			LN	M_S = 5.6		12.0	21.8
			LZ	M_S = 5.5		25.0	44.3
CN2	14.1	310	+iP	01 25 29.0	0.4		
			PMZ	m_b = 5.9		1.0	0.20
			PMZ	m_B = 6.6		7.0	7.70
			pP	01 25 41.0	−0.1		
			S	01 28 04.0	0.8		
			SMN			12.0	8.50
			SME			12.0	7.70
			LN	M_S = 5.5		13.0	13.0
			LE			13.0	10.0
			LZ	M_S = 5.6		22.0	44.0
SNY	14.5	301	+P	01 25 35.6	1.8		
			PMZ	m_b = 6.2		1.0	0.44
			PMZ	m_B = 6.4		6.0	3.71
			pP	01 25 48.0	1.5		
			sP	01 25 53.0	−1.1		
			iS	01 28 18.0	4.8		
			SMN			12.0	9.04
			SME			11.0	3.54
			LN	M_S = 5.6		14.0	15.5
			LE			17.0	21.9
			LZ	M_S = 5.7		27.0	57.1
DL2	15.3	288	+iP	01 25 47.0	3.1		
			PMZ	m_b = 6.4		1.6	2.57
			PMZ	m_B = 6.4		10.0	15.4
			sP	01 26 05.0	0.8		
			SMN			12.0	14.6
			LN	M_S = 5.7		12.0	13.5
			LE			14.0	20.7
			LZ	M_S = 5.7		25.0	57.2
SSE	16.6	260	+iP	01 26 02.0	1.1		
			PMZ	m_b = 5.5		2.0	0.49
			PMZ	m_B = 6.3		7.0	9.61
			pP	01 26 16.5	1.8		
			sP	01 26 20.0	−1.7		
			S	01 29 04.0	2.0		
			sS	01 29 19.0	−4.6		
			SS	01 29 28.0	4.4		
			LN	M_S = 6.0		8.0	22.5
			LE			8.0	4.69
NJ2	18.2	265	+P	01 26 20.0	−0.4		
			PMZ	m_b = 5.8		1.0	0.46
			PMZ	m_B = 6.0		8.0	6.02
			sP	01 26 37.0	−4.5		
			S	01 29 38.0	0.6		
			sS	01 29 55.3	−5.5		
			LN	M_S = 5.8		14.0	18.5
			LE			11.0	10.8
			LZ	M_S = 5.4		24.0	18.9
TIA	18.8	279	+P	01 26 27.0	−0.8		
			PMZ	m_b = 5.5		1.4	0.37
			PMZ	m_B = 6.1		9.0	8.70
			LN	M_S = 5.8		15.0	17.4
			LE			15.0	19.1
BJI	19.6	290	+P	01 26 34.0	−2.2		
			PMZ	m_B = 5.9		8.0	5.19
			esP	01 26 54.0	−4.5		
			eS	01 30 12.0	3.4		
			esS	01 30 36.0	6.8		
			LN	M_S = 5.7		17.0	21.4
QZH	21.5	246	+iP	01 26 55.0	−1.3		
			PMZ	m_b = 5.5		0.8	0.20
			PMZ	m_B = 5.5		7.0	1.60
			sP	01 27 18.0	−1.4		
			S	01 30 50.0	4.6		
			sS	01 31 14.0	3.8		
			LN	M_S = 5.7		15.0	9.24
			LE			15.0	14.0
			LZ	M_S = 5.7		26.0	38.9
WHN	22.3	264	+P	01 27 04.5	0.3		
			PMZ	m_b = 5.3		1.0	0.14
			PMZ	m_B = 5.9		7.0	4.28
			sP	01 27 23.0	−4.5		
			S	01 31 01.0	1.1		
			LN	M_S = 6.1		8.0	7.62
			LE			16.0	35.6
			LZ	M_S = 5.6		24.0	24.5
TIY	22.5	284	+P	01 27 04.5	−1.1		
			S	01 31 06.0	3.7		
			sS	01 31 29.0	0.8		
			LN	M_S = 6.0		13.0	14.1
			LE			17.0	25.9
			LZ	M_S = 5.9		24.0	47.6
HHC	23.2	292	+P	01 27 10.5	−2.0		
			PP	01 27 45.0	0.0		
			SMN			11.0	5.30
			SME			9.0	1.89
			sS	01 31 42.0	1.1		
			LN	M_S = 5.7		12.0	8.31
			LE			11.0	7.02
			LZ	M_S = 5.6		29.0	31.1
BTO	24.3	291	P	01 27 22.0	−1.7		
			sP	01 27 43.0	−4.0		
			PP	01 28 02.0	1.1		
			S	01 31 34.0	−0.6		
			LN	M_S = 5.8		15.0	14.0
			LE			13.0	9.00
			LZ	M_S = 5.4		13.0	8.20
XAN	25.8	276	+iP	01 27 37.5	−0.2		
			PMZ	m_B = 6.2		7.0	4.20
			S	01 32 02.2	3.0		
			LN	M_S = 6.1		18.0	26.2
			LE			20.0	32.5
GZH	26.5	249	P	01 27 45.0	0.6		
			PMZ	m_b = 5.4		1.0	0.10
			pP	01 28 02.0	2.2		
			S	01 32 15.0	3.6		
			LN	M_S = 6.1		17.0	18.8
			LE			17.0	25.3
			LZ	M_S = 5.9		19.0	31.2
LZH	29.5	282	+iP	01 28 11.0	−0.3		
			PMZ	m_b = 6.1		1.6	0.58
			PMZ	m_B = 6.0		8.0	2.24
			pP	01 28 30.0	3.4		
			sP	01 28 39.2	4.4		
			PP	01 29 09.0	0.5		
			PcP	01 31 17.3	2.5		
			S	01 32 59.0	0.2		

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		sS	01 33 24.0	−2.6			
		SS	01 34 35.0	−0.4			
		LE	$M_S=5.9$		16.0	17.4	
		LZ	$M_S=6.0$		25.0	44.5	
GYA	30.1	262	+iP	01 28 16.6	−0.5		
			PMZ	$m_b=5.5$		1.0	0.10
			pP	01 28 31.0	−1.5		
			PP	01 29 16.0	−0.9		
			PcP	01 31 13.0	−3.5		
			S	01 33 08.0	−1.2		
			LN	$M_S=5.9$		13.0	9.20
			LE			13.0	8.00
			LZ	$M_S=5.4$		16.0	6.10
CD2	30.8	272	P	01 28 22.2	−0.9		
			PMZ	$m_b=5.7$		0.8	0.11
			pP	01 28 38.0	−0.6		
			PP	01 29 27.5	1.7		
			S	01 33 19.0	−1.0		
			sS	01 33 52.6	4.6		
			LN	$M_S=6.3$		15.0	38.6
			LZ	$M_S=5.9$		18.0	21.5
QZN	31.5	247	+P	01 28 28.5	−0.9		
			PMZ	$m_B=5.8$		8.0	1.19
			pP	01 28 42.5	−2.5		
			PP	01 29 34.0	−1.1		
			S	01 33 31.0	−0.4		
			LN	$M_S=5.9$		15.5	12.2
			LE			14.5	6.22
GTA	32.2	289	P	01 28 34.4	−0.7		
			pP	01 28 50.0	−0.6		
			PP	01 29 42.0	−1.2		
			S	01 33 42.0	0.7		
			sS	01 34 04.0	−5.3		
			LE	$M_S=5.9$		20.0	19.4
			LZ	$M_S=6.0$		30.0	41.5
KMI	33.9	263	+iP	01 28 49.5	−0.4		
			PMZ	$m_b=5.9$		2.0	0.40
			PMZ	$m_B=6.0$		9.0	2.30
			pP	01 29 06.0	0.6		
			eS	01 34 13.0	4.0		
			LN	$M_S=5.9$		7.0	5.40
			LE			6.0	3.10
			LZ	$M_S=5.9$		24.0	28.1
WMQ	40.7	298	+iP	01 29 49.2	2.0		
			PMZ	$m_b=5.9$		2.0	0.36
			PMZ	$m_B=6.5$		7.0	5.48
			PcP	01 31 48.0	0.5		
			ScS	01 39 41.5	−1.6		
			LN	$M_S=5.8$		15.0	8.04
			LZ	$M_S=5.8$		25.0	18.7
LSA	41.5	276	+iP	01 29 56.5	2.7		
			PMZ	$m_B=6.3$		5.0	2.08
			pP	01 30 12.0	2.6		
			LN	$M_S=5.5$		17.0	2.15
			LE			17.0	3.87
			LZ	$M_S=5.8$		14.0	8.67
KSH	50.2	295	P	01 31 04.0	1.0		
			pP	01 31 21.0	1.8		
			S	01 38 12.0	3.9		
			sS	01 38 41.0	3.4		
			LE	$M_S=6.0$		13.0	7.20

JUN 1d 04h 23m 05.4 ± 0.04s, SD2.21 / 11
25.80 N ± 0.42km, 102.81 E ± 0.23km, h12 ± 0.08km
Yunnan Province (318)
M_L3.3 / 5,

GYA	3.5	79	Pn	04 24 02.2	1.7		
CD2	5.2	9	ePn	04 24 24.4	1.5		
			Sn	04 25 24.4	0.1		
			SMN	$M_L=3.7$		1.2	0.020
			SME			1.4	0.14

JUN 1d 04h 45m 49.5 ± 0.04s, SD1.45 / 146
5.10 S ± 0.66km, 147.78 E ± 1.11km, h34 ± 0.15km
Eastern New Guinea region (207)
M_S5.2 / 26, m_B5.7 / 1, m_b5.4 / 34

QZH	41.2	318	eP	04 53 34.5	1.4		
			PMZ	$m_b=5.6$		0.6	0.056
			eS	04 59 48.0	3.5		
			LN	$M_S=4.9$		16.0	1.05
			LZ	$M_S=4.9$		28.0	2.07
GZH	43.8	311	P	04 53 57.0	2.9		
SSE	44.1	326	+P	04 53 56.0	−0.4		
			PMZ	$m_b=5.0$		1.2	0.028
			pP	04 54 04.0	−1.9		
			S	05 00 24.0	−1.3		
			SS	05 03 36.0	0.3		
			LN	$M_S=5.2$		18.0	1.45
			LE			18.0	1.26
QZN	44.4	304	P	04 54 00.6	1.5		
			eS	05 00 31.5	0.3		
			LN	$M_S=5.1$		12.0	0.90
NJ2	46.1	325	eP	04 54 13.2	0.6		
			PMZ	$m_B=5.7$		4.5	0.54
			pP	04 54 21.5	−0.6		
			S	05 00 57.0	2.6		
			LN	$M_S=5.3$		14.0	1.04
			LE			16.0	1.32
			LZ	$M_S=4.6$		22.0	0.72
WHN	47.7	320	P	04 54 26.0	0.4		
			pP	04 54 32.0	−3.1		
			S	05 01 22.0	4.0		
			LN	$M_S=5.3$		14.0	1.54
			LE			12.0	0.49
			LZ	$M_S=4.7$		20.0	0.75
DL2	50.0	333	eP	04 54 46.5	3.2		
			PMZ	$m_b=5.3$		1.5	0.067
			S	05 01 55.0	5.0		
			LZ	$M_S=4.6$		20.0	0.67
TIA	50.1	328	eP	04 54 42.0	−2.1		
			S	05 01 53.5	2.1		
			LN	$M_S=5.4$		16.0	1.40
			LE			16.0	1.30
			LZ	$M_S=4.8$		17.0	0.90
GYA	50.7	310	P	04 54 51.0	2.5		
			pP	04 55 01.6	3.8		
			LN	$M_S=5.5$		18.0	2.10
			LE			18.0	1.80
			LZ	$M_S=5.0$		20.0	1.50
SNY	51.7	337	−P	04 54 55.0	−0.7		
			S	05 02 14.0	1.5		
			LN	$M_S=5.2$		18.0	0.95
			LE			18.0	1.00
			LZ	$M_S=5.2$		18.0	2.02
MDJ	52.1	344	eP	04 54 57.5	−1.6		
CN2	52.7	340	+P	04 55 03.0	−0.4		
			pP	04 55 13.0	0.1		
			eS	05 02 27.0	−0.6		
			LN	$M_S=5.1$		13.0	0.70
			LE			13.0	0.30
			LZ	$M_S=5.0$		20.0	1.50
KMI	53.1	307	eP	04 55 06.5	−0.1		
			pP	04 55 19.0	3.1		
			S	05 02 35.0	3.1		
			LZ	$M_S=4.6$		30.0	0.80
XAN	53.5	320	eP	04 55 07.7	−1.8		

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BJI	53.5	330	eP	04 55 09.0	−0.5			
			PMZ	$m_b = 5.4$		1.7	0.089	
			eS	05 02 36.0	−2.8			
			eSS	05 06 13.0	−4.2			
			LZ	$M_S = 4.9$		20.0	1.20	
CD2	55.2	313	eP	04 55 20.4	−1.7			
			eS	05 03 03.0	1.1			
			sS	05 03 15.3	−2.4			
			LN	$M_S = 5.3$		15.0	1.30	
HHC	56.5	327	eP	04 55 31.0	−0.3			
			sP	04 55 40.0	−4.8			
			PcP	04 56 22.0	−4.9			
			PP	04 57 33.0	−4.8			
			S	05 03 23.0	5.4			
			sS	05 03 30.0	−4.7			
			LN	$M_S = 5.0$		14.0	0.54	
			LE			13.0	0.27	
			LZ	$M_S = 5.0$		24.0	1.62	
BTO	57.2	326	eP	04 55 34.0	−2.1			
			pP	04 55 40.5	−5.1			
			ePP	04 57 42.0	−1.8			
			eS	05 03 25.0	−2.8			
			LN	$M_S = 5.2$		15.0	0.70	
			LE			15.0	0.80	
LZH	58.0	319	+P	04 55 41.0	−1.4			
			PMZ	$m_b = 5.2$		1.4	0.044	
			pP	04 55 53.0	1.2			
			PcP	04 56 31.0	−1.9			
			sS	05 03 51.0	−4.3			
			LN			1.2	0.50	
			LZ			3.4	1.90	
GTA	62.6	320	eP	04 56 11.2	−2.0			
			LZ	$M_S = 5.0$		22.0	1.05	
WMQ	72.6	319	eP	04 57 15.9	−0.3			
			LZ	$M_S = 4.7$		22.0	0.52	
KSH	79.4	312	P	04 57 56.0	1.1			

JUN 1d 11h 00m 22.8 ± 0.04s, SD0.89 / 138
16.06 N ± 0.65km, 147.41 E ± 0.47km, h36 ± 0.15km
Marianas (216)
M_S4.7 / 7, m_B5.3 / 2, m_b5.0 / 38

SSE	28.2	307	eP	11 06 14.5	−0.3			
			pP	11 06 23.5	−0.8			
MDJ	32.2	336	eP	11 06 52.5	2.3			
CN2	33.4	330	eP	11 07 00.4	0.2			
			eS	11 12 21.0	3.2			
			LZ	$M_S = 4.4$		18.0	0.60	
WHN	33.5	301	−P	11 07 00.0	−1.1			
QZN	35.9	280	eP	11 07 23.0	1.0			
			eS	11 13 00.0	3.0			
BJI	36.2	318	eP	11 07 23.0	−1.2			
			PMZ	$m_b = 4.7$		1.5	0.020	
			ePP	11 08 48.0	1.3			
			eS	11 13 00.0	−1.2			
			esS	11 13 20.0	2.5			
			LZ	$M_S = 4.3$		24.0	0.64	
TIY	37.6	312	eP	11 07 36.0	−0.4			
			PcP	11 09 55.0	1.6			
			S	11 13 20.0	−2.3			
			sS	11 13 43.0	3.4			
			LE	$M_S = 4.5$		14.0	0.37	
			LZ	$M_S = 4.4$		28.0	0.90	
GYA	39.2	292	P	11 07 51.0	1.1			
			pP	11 08 01.6	2.1			
			S	11 13 51.0	4.3			
BTO	40.5	315	eP	11 08 01.5	0.5			
CD2	42.4	298	eP	11 08 16.0	−0.1			
KMI	42.6	290	+P	11 08 19.5	1.5			
			PMZ	$m_b = 5.3$		2.0	0.10	
			pP	11 08 26.0	−1.7			
			eS	11 14 35.0	−3.6			
			LZ	$M_S = 4.4$		20.0	0.50	
LZH	43.5	306	−P	11 08 25.0	−0.1			
			PMZ	$m_b = 5.3$		2.0	0.095	
			PMZ	$m_B = 5.5$		4.0	0.32	
			pP	11 08 35.0	0.2			
			sP	11 08 40.5	1.5			
			eS	11 14 53.0	1.7			
			LZ	$M_S = 4.4$		20.0	0.50	
GTA	47.5	309	P	11 08 56.4	−0.3			
			LZ	$M_S = 4.8$		18.0	0.88	
LSA	53.1	295	P	11 09 41.3	1.1			
WMQ	57.3	312	+iP	11 10 09.6	−0.3			
			PMZ	$m_b = 5.2$		1.5	0.048	
			S	11 18 05.0	4.3			
			LZ	$M_S = 4.5$		20.0	0.36	
KSH	65.8	306	P	11 11 08.0	0.8			

JUN 1d 11h 08m 35.4 ± 0.08s, SD1.42 / 119
25.99 S ± 0.95km, 176.56 W ± 1.09km, h77 ± 0.44km
South of Fiji (171)
M_S5.4 / 5, m_B5.7 / 1, m_b5.3 / 28

QZN	84.3	294	eP	11 21 00.8	−0.2			
MDJ	85.7	325	eP	11 21 08.0	−0.1			
DL2	86.6	316	eP	11 21 12.2	−0.1			
WHN	86.7	306	−P	11 21 13.5	0.5			
			LE	$M_S = 5.4$		14.0	0.67	
SNY	87.2	320	−P	11 21 14.6	−0.8			
			LZ	$M_S = 5.2$		20.0	0.97	
CN2	87.4	322	+P	11 21 15.0	−1.3			
TIA	87.9	312	P	11 21 18.5	−0.2			
GYA	90.5	299	P	11 21 33.4	2.5			
BJI	90.7	315	eP	11 21 32.0	0.3			
KMI	93.0	296	+P	11 21 44.0	1.4			
			PMZ	$m_b = 5.9$		1.5	0.10	
			LZ	$M_S = 5.1$		17.0	0.60	
CD2	94.8	302	eP	11 21 51.6	0.8			
BTO	95.0	313	eP	11 21 47.5	−4.1			
LZH	97.1	307	+P	11 22 02.0	0.7			
			PMZ	$m_b = 5.9$		1.0	0.037	
GTA	101.4	308	eP	11 22 20.8	0.0			
			PMZ	$m_b = 5.6$		1.2	0.013	
			LZ	$M_S = 5.4$		18.0	1.12	

JUN 1d 11h 14m 08.9 ± 0.03s, SD0.95 / 141
15.97 N ± 0.77km, 147.33 E ± 0.54km, h36 ± 0.08km
Marianas (216)
M_S4.7 / 11, m_b5.1 / 41,

SSE	28.2	307	P	11 19 59.0	−1.7			
			pP	11 20 05.5	−4.8			
MDJ	32.3	336	eP	11 20 36.5	−0.1			
CN2	33.4	331	eP	11 20 48.0	1.4			
WHN	33.4	302	+eP	11 20 47.0	0.0			
			pP	11 20 58.0	1.2			
			eS	11 26 04.0	−1.1			
			LE	$M_S = 4.6$		14.0	0.67	
QZN	35.8	280	eP	11 21 06.5	−1.0			
			eS	11 26 45.0	2.8			
			LE	$M_S = 4.7$		15.0	0.81	
BJI	36.2	318	eP	11 21 10.0	−0.4			
			PMZ	$m_b = 4.7$		1.5	0.020	
			esP	11 21 27.0	2.7			
			eS	11 26 48.0	0.6			
			LZ	$M_S = 4.6$		20.0	0.96	
TIY	37.6	312	eP	11 21 25.1	2.6			
			pP	11 21 37.0	4.8			

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			S	11 27 11.0	2.7			
			LE	$M_S=4.9$		22.0	1.61	
			LZ	$M_S=4.4$		28.0	0.90	
XAN	38.9	305	P	11 21 35.0	1.8			
GYA	39.2	292	P	11 21 33.4	−2.2			
			pP	11 21 44.0	−1.3			
HHC	39.6	316	eP	11 21 40.0	0.7			
			LE	$M_S=4.7$		16.0	0.70	
			LZ	$M_S=4.7$		32.0	1.60	
BTO	40.6	315	eP	11 21 47.5	0.5			
LZH	43.5	306	P	11 22 11.5	0.4			
			pP	11 22 20.5	−0.3			
			S	11 28 39.0	3.2			
			LE	$M_S=4.6$		11.0	0.30	
			LZ	$M_S=4.6$		18.0	0.70	
LSA	53.1	295	eP	11 23 27.5	1.5			
WMQ	57.3	312	−iP	11 23 56.5	0.6			
			PMZ	$m_b=5.2$		2.0	0.069	
			S	11 31 51.8	5.1			
			LZ	$M_S=4.6$		20.0	0.50	
KSH	65.8	306	P	11 24 54.2	1.0			

JUN 1d 13h 48m 09.1±0.06s, SD1.11/91
14.57 S±2.23km, 176.46 W±0.99km, h11±0.06km
Fiji region (181)
m_b4.8/16,

CN2	78.6	321	eP	14 00 15.2	2.1			
SNY	78.7	319	+P	14 00 14.6	0.8			
WHN	80.2	305	eP	14 00 25.0	3.1			
BJI	82.8	314	eP	14 00 35.0	−0.4			
			PMZ	$m_b=5.3$		1.2	0.036	
TIY	84.5	311	eP	14 00 44.0	−0.2			
GYA	85.1	299	P	14 00 47.2	0.1			
BTO	87.3	313	eP	14 00 58.0	−0.2			
CD2	88.9	302	eP	14 01 03.6	−2.0			
LZH	90.4	307	eP	14 01 12.5	−0.3			
			PMZ	$m_b=5.3$		2.5	0.045	
GTA	94.4	309	eP	14 01 30.4	−0.8			

JUN 1d 16h 43m 30.1±0.18s, SD2.38/15
24.12 N±1.32km, 121.97 E±1.24km, h5±km
Taiwan (244)
M_L3.5/8, m_b3.9/1,

QZH	3.2	286	Pn	16 44 22.6	1.4			
			Sn	16 44 59.3	−2.3			
			SMN	$M_L=3.4$		1.0	0.17	
			SME			1.0	0.099	
SSE	7.0	354	P	16 45 15.0	−0.7			
			SMN	$M_L=3.2$		1.0	0.0090	
			SME			1.0	0.015	
			LZ	$M_S=3.4$		16.0	0.44	
NJ2	8.4	341	eP	16 45 32.0	−3.1			
			S	16 47 11.4	0.6			

JUN 1d 16h 49m 35.1±0.04s, SD0.87/51
29.42 S±0.56km, 178.85 W±0.71km, h34±0.14km
Kermadec Islands region (177)
m_b5.3/10,

SSE	82.9	312	−P	17 01 58.0	−0.7			
			PMZ	$m_b=4.8$		1.0	0.010	
NJ2	85.0	311	P	17 02 09.8	0.3			
WHN	87.2	307	eP	17 02 19.5	−0.4			
MDJ	87.4	326	eP	17 02 21.7	0.7			
TIA	88.8	313	P	17 02 27.4	−0.2			
CN2	88.9	323	−P	17 02 27.8	−0.5			
GYA	90.4	300	P	17 02 36.0	0.5			
BJI	91.7	316	eP	17 02 41.0	−0.3			
			PMZ	$m_b=5.4$		1.3	0.029	
TIY	92.7	312	P	17 02 46.2	0.3			

JUN 1d 18h 14m 44.3±0.03s, SD1.00/200
5.46 S±0.53km, 154.16 E±0.66km, h145±0.21km
New Ireland region (190)
m_B5.8/13, m_b5.5/61,

QZH	45.9	313	P	18 22 56.0	1.3			
			PMZ	$m_b=6.1$		1.0	0.35	
			S	18 29 30.0	3.4			
SSE	48.1	321	+iP	18 23 12.0	0.4			
			PMZ	$m_b=5.9$		2.0	0.45	
			PMZ	$m_B=5.7$		4.0	0.48	
			pP	18 23 47.5	3.3			
			eS	18 29 58.0	−0.1			
			sS	18 31 01.0	5.8			
			LZ			16.0	0.44	
GZH	48.9	307	+P	18 23 19.2	1.2			
			pP	18 23 50.0	−0.7			
QZN	50.0	300	eP	18 23 26.8	0.8			
			S	18 30 24.0	0.8			
NJ2	50.2	320	+iP	18 23 28.8	1.0			
			PMZ	$m_B=5.8$		4.0	0.67	
			S	18 30 25.0	−1.5			
WHN	52.3	316	+P	18 23 44.1	0.8			
			PMZ	$m_b=5.6$		1.2	0.13	
			PcP	18 24 50.5	−1.6			
			S	18 30 55.0	0.3			
DL2	53.4	329	eP	18 23 51.4	−0.5			
			PMZ	$m_b=5.7$		1.0	0.11	
MDJ	54.5	339	eP	18 23 58.8	−1.0			
SNY	54.7	332	+P	18 24 00.0	−1.2			
CN2	55.5	335	+iP	18 24 06.0	−0.6			
			PMZ	$m_b=5.3$		1.0	0.050	
			PMZ	$m_B=5.7$		4.0	0.50	
			eS	18 31 37.0	−1.7			
GYA	55.9	307	+iP	18 24 10.0	0.2			
			PMZ			3.0	1.10	
			S	18 31 47.0	4.0			
BJI	57.2	326	eP	18 24 18.0	−0.9			
			PMZ	$m_b=5.5$		1.7	0.13	
			PMZ	$m_B=5.5$		5.0	0.40	
			eS	18 32 00.0	−1.5			
			esS	18 32 56.0	−4.0			
TIY	57.9	321	+P	18 24 23.0	−0.8			
			sP	18 25 17.0	3.4			
			S	18 32 06.0	−3.4			
			LN			14.0	0.37	
			LZ			24.0	0.54	
XAN	58.0	316	+iP	18 24 24.0	−0.9			
			PMZ	$m_B=5.9$		4.0	0.70	
			S	18 32 12.0	0.6			
KMI	58.5	304	+iP	18 24 29.0	0.8			
			PMZ	$m_b=6.0$		2.0	0.50	
			PMZ			3.0	0.80	
CD2	60.2	310	+iP	18 24 39.6	−0.2			
			PMZ	$m_b=5.9$		0.6	0.12	
			pP	18 25 15.4	1.8			
			S	18 32 43.0	3.7			
HHC	60.4	324	+P	18 24 40.0	−1.1			
BTO	61.1	323	+iP	18 24 45.0	−1.2			
			eS	18 32 50.0	−2.7			
LZH	62.6	315	+iP	18 24 57.0	0.6			
			PMZ	$m_b=6.1$		2.0	0.54	
			PMZ	$m_B=5.9$		4.0	0.80	
			sP	18 25 52.0	5.6			
			S	18 33 11.0	0.8			
			SMN			7.0	0.52	
GTA	67.1	317	+iP	18 25 24.8	0.0			

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			PMZ	$m_b=5.5$		1.4	0.12
			PMZ	$m_B=6.0$		4.0	0.94
LSA	69.7	304	eP	18 25 42.4	0.8		
WMQ	77.1	317	+iP	18 26 24.4	0.2		
			PMZ	$m_b=5.2$		1.5	0.080
			PMZ	$m_B=5.9$		4.0	1.02
			PP	18 29 25.5	5.4		
			S	18 36 02.4	3.7		
KSH	84.4	310	−P	18 27 04.5	1.8		
			PMZ	$m_B=6.1$		4.0	1.20

JUN 1d 19h 56m 37.7 ± 0.04s, SD2.03 / 22
25.77 N ± 0.30km, 102.96 E ± 0.38km, h9 ± 0.10km
Yunnan Province (318)
M_S3.9 / 5, M_L3.5 / 7,

KMI	0.6	197	+Pg	19 56 48.5	−1.0		
			Sg	19 56 58.0	−0.2		
			LN			3.0	9.50
			LE			3.0	30.7
GYA	3.4	78	Pn	19 57 33.4	1.9		
			Sn	19 58 14.0	0.1		
			LN	$M_S=4.0$		6.0	1.40
			LE			6.0	1.00
CD2	5.2	8	ePn	19 57 56.4	0.7		
			Sn	19 59 00.0	2.4		
			SMN	$M_L=3.1$		1.6	0.020
			SME			1.3	0.020
			LE	$M_S=3.9$		9.0	1.20
QZN	9.2	135	eP	19 58 56.5	2.0		
			eS	20 00 43.0	3.2		
			LN	$M_S=4.0$		8.0	0.41
			LE			7.5	0.36
WHN	11.1	62	eP	19 59 18.0	−2.3		
TIY	14.4	32	eP	20 00 06.3	2.5		
			LN	$M_S=3.9$		15.0	0.44
			LZ	$M_S=3.5$		27.0	0.44
BTO	15.9	20	eP	20 00 23.0	−1.0		
			eS	20 03 17.0	−4.0		

JUN 2d 00h 32m 34.1 ± 0.04s, SD1.14 / 214
32.46 N ± 0.66km, 92.80 E ± 0.44km, h12 ± 0.06km
Tibet (306)
M_S5.3 / 52, m_B5.3 / 9, m_b5.3 / 81

LSA	3.1	208	Pg	00 33 30.8	1.5		
			Sg	00 34 13.4	2.4		
			SMN			2.0	45.8
GTA	9.0	37	−iP	00 34 48.2	1.3		
			PMZ	$m_b=5.1$		2.0	0.15
			S	00 36 30.0	1.6		
			LE	$M_S=5.0$		10.0	7.63
			LZ	$M_S=5.1$		12.0	12.1
CD2	9.5	96	P	00 34 54.5	0.9		
			S	00 36 40.0	−0.6		
			LN	$M_S=5.6$		10.0	26.7
			LZ	$M_S=5.4$		8.0	16.4
LZH	9.8	65	eP	00 34 59.0	0.2		
			sP	00 35 04.0	−2.5		
			S	00 36 48.0	−1.7		
			LN	$M_S=5.4$		10.0	15.6
			LZ	$M_S=5.2$		7.0	7.50
KMI	11.4	127	+iP	00 35 18.0	−1.8		
			PMZ	$m_b=5.5$		1.5	0.20
			sP	00 35 24.0	−3.5		
			S	00 37 34.0	7.0		
			LN	$M_S=5.3$		8.0	5.50
			LE			8.0	6.00
			LZ	$M_S=5.4$		9.0	13.4
WMQ	12.0	342	P	00 35 28.0	−0.8		
			LN	$M_S=5.5$		10.0	9.15
			LE			11.0	12.1
			LZ	$M_S=5.3$		13.0	14.3
GYA	13.5	113	+iP	00 35 46.4	−1.6		
			PMZ	$m_b=5.8$		1.0	0.20
			pP	00 35 49.4	−3.1		
			S	00 38 12.6	−5.6		
			ScS	00 48 26.4	4.1		
			LN	$M_S=5.4$		10.0	5.20
			LE			10.0	8.50
			LZ	$M_S=4.9$		14.0	5.60
XAN	13.6	79	−P	00 35 49.0	−0.5		
			S	00 38 22.0	1.1		
			LN	$M_S=5.3$		8.0	6.40
			LE			7.0	2.70
KSH	15.4	302	P	00 36 14.5	1.6		
			pP	00 36 21.0	3.6		
			S	00 39 05.0	1.9		
			sS	00 39 11.0	−0.3		
			LE	$M_S=5.6$		8.0	12.3
			LZ	$M_S=5.3$		9.0	8.60
BTO	16.0	55	eP	00 36 19.0	−2.5		
			sP	00 36 25.0	−4.8		
			S	00 39 15.0	−3.6		
			LN	$M_S=5.4$		13.0	8.40
			LE			13.0	6.50
			LZ	$M_S=4.9$		13.0	4.00
TIY	16.9	66	P	00 36 32.4	0.0		
			pP	00 36 38.0	0.9		
			S	00 39 36.0	−2.6		
			sS	00 39 48.0	1.0		
			LN	$M_S=5.2$		12.0	6.01
			LZ	$M_S=5.1$		11.0	5.19
HHC	17.2	56	eP	00 36 39.0	2.6		
			S	00 39 52.0	6.3		
			LN	$M_S=5.4$		10.0	4.45
			LE			10.0	5.63
			LZ	$M_S=5.1$		16.0	7.12
WHN	18.5	90	eP	00 36 50.5	−1.5		
			pP	00 36 58.0	1.2		
			iS	00 40 15.0	−0.1		
			LN	$M_S=5.5$		9.0	4.68
			LE			9.0	5.87
			LZ	$M_S=4.8$		14.0	2.95
BJI	20.3	61	eP	00 37 13.0	0.3		
			PMZ	$m_b=5.7$		1.5	0.48
			PMZ	$m_B=5.0$		10.0	0.70
			eS	00 40 56.0	1.0		
			LN	$M_S=5.3$		12.0	5.40
			LE			13.0	2.55
			LZ	$M_S=5.1$		12.0	4.58
QZN	20.3	127	P	00 37 13.3	0.1		
			PMZ	$m_b=5.2$		1.0	0.10
			sP	00 37 20.0	−1.8		
			eS	00 40 53.0	−2.9		
			LN	$M_S=5.4$		9.0	3.66
			LE			9.5	4.08
GZH	20.4	112	+P	00 37 13.7	−0.3		
			LN	$M_S=5.4$		8.0	1.50
			LE			9.0	4.54
			LZ	$M_S=5.1$		10.0	3.86
TIA	20.4	73	P	00 37 14.1	−0.1		
			S	00 41 00.0	2.8		
			LN	$M_S=5.3$		12.0	5.10
			LE			12.0	3.10
			LZ	$M_S=4.8$		14.0	2.60
NJ2	22.0	84	−P	00 37 33.0	2.5		
			PMZ	$m_B=5.3$		4.0	0.49

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			S	00 41 32.0	4.3			
			LN	$M_S=5.2$		11.0	3.48	
			LE			12.0	1.06	
QZH	23.8	102	eP	00 37 52.7	4.8			
			S	00 42 06.0	6.6			
			LZ	$M_S=5.0$		14.0	3.55	
SSE	24.1	86	P	00 37 51.5	0.2			
			PMZ	$m_b=5.3$		1.0	0.11	
			PMZ	$m_B=5.3$		4.0	0.40	
			sP	00 37 59.0	−0.9			
			ePcS	00 45 12.0	0.5			
			LN	$M_S=5.3$		8.0	1.80	
			LE			8.0	1.95	
			LZ	$M_S=5.0$		12.0	3.16	
DL2	24.2	66	−P	00 37 53.0	0.9			
			PMZ	$m_b=5.0$		1.0	0.060	
			pP	00 37 57.0	−0.7			
			S	00 42 11.0	4.2			
			LN	$M_S=5.1$		12.0	2.72	
			LZ	$M_S=4.7$		16.0	2.10	
SNY	26.1	60	−iP	00 38 10.0	−0.3			
			PMZ	$m_b=5.6$		1.2	0.16	
			PMZ	$m_B=5.5$		6.0	0.65	
			iS	00 42 42.0	2.3			
			SMN			6.0	0.53	
			sS	00 42 54.0	4.9			
			LN	$M_S=5.2$		10.5	2.33	
			LE			12.0	1.19	
			LZ	$M_S=4.7$		17.0	1.77	
CN2	27.9	57	−iP	00 38 26.0	−0.4			
			PMZ	$m_b=5.5$		1.0	0.10	
			pP	00 38 33.0	1.0			
			S	00 43 08.0	0.5			
			LN	$M_S=5.4$		13.0	4.80	
			LE			13.0	1.30	
			LZ	$M_S=5.0$		13.0	2.60	
MDJ	31.0	56	eP	00 38 53.5	−0.5			
			pP	00 38 57.0	−2.6			
			LN	$M_S=5.5$		12.0	5.18	

JUN 2d 04h 57m 56.7 ± 0.03s, SD1.17 / 134
1.12 N ± 0.55km, 122.81 E ± 0.93km, h33 ± 0.02km
Minahassa Peninsula (Celebes) (265)
M_S5.0 / 35, m_B5.5 / 7, m_b5.1 / 32

QZN	21.9	325	eP	05 02 48.6	−0.2			
			eS	05 06 46.0	2.2			
			LN	$M_S=4.7$		17.0	1.97	
GZH	23.7	338	P	05 03 06.2	−0.5			
			S	05 07 20.0	4.3			
			LN	$M_S=4.9$		16.0	1.15	
			LE			15.0	1.90	
			LZ	$M_S=4.8$		17.0	2.70	
QZH	24.0	351	eP	05 03 10.0	0.0			
			S	05 07 25.0	3.4			
			LZ	$M_S=4.9$		20.0	3.74	
GYA	29.6	330	P	05 04 01.8	0.3			
			pP	05 04 12.4	2.0			
			S	05 08 57.0	4.5			
			LN	$M_S=5.1$		18.0	1.70	
			LE			18.0	2.30	
			LZ	$M_S=4.7$		20.0	1.80	
SSE	29.9	357	+P	05 04 03.0	−0.6			
			PMZ	$m_b=4.5$		1.0	0.010	
			PMZ	$m_B=5.6$		4.0	0.44	
			pP	05 04 11.8	−0.9			
			S	05 08 56.0	−0.6			
			ePcS	05 10 49.0	1.1			
			LN	$M_S=4.8$		16.0	0.89	
			LE			16.0	0.88	
			LZ	$M_S=4.7$		20.0	1.84	
WHN	30.3	345	eP	05 04 08.0	0.0			
			sP	05 04 21.5	0.4			
			S	05 09 08.0	3.6			
			LN	$M_S=5.3$		18.0	3.78	
			LE			16.0	1.41	
			LZ	$M_S=4.8$		18.0	1.82	
KMI	30.8	323	eP	05 04 12.5	0.6			
			sP	05 04 25.0	0.3			
			S	05 09 16.0	5.2			
			LZ	$M_S=4.8$		16.0	1.60	
NJ2	31.0	353	eP	05 04 13.2	−0.5			
			S	05 09 13.0	−1.5			
			LN	$M_S=4.8$		11.0	0.87	
			LZ	$M_S=4.4$		23.0	0.98	
CD2	34.7	330	eP	05 04 45.3	−0.7			
			S	05 10 13.0	0.8			
			sS	05 10 32.0	3.8			
			LN	$M_S=4.9$		13.0	0.97	
			LZ	$M_S=4.5$		20.0	0.93	
XAN	35.2	340	P	05 04 49.5	−1.1			
			PP	05 06 08.0	−1.8			
			S	05 10 21.0	0.4			
			LN	$M_S=5.1$		14.0	1.00	
			LE			14.0	1.40	
TIA	35.3	352	P	05 04 50.4	−0.8			
			S	05 10 21.0	−0.7			
			LN	$M_S=4.9$		15.0	0.90	
			LE			15.0	0.90	
			LZ	$M_S=5.2$		23.0	4.70	
DL2	37.6	358	eP	05 05 10.0	−0.7			
			eS	05 10 56.0	−2.1			
			LN	$M_S=5.0$		18.0	1.79	
			LZ	$M_S=4.7$		21.0	1.21	
TIY	37.7	346	+P	05 05 10.7	−0.3			
			PP	05 06 35.0	−4.6			
			S	05 10 59.5	1.9			
			LN	$M_S=5.2$		21.0	2.86	
			LZ	$M_S=5.0$		21.0	2.68	
LZH	39.0	335	−P	05 05 22.5	0.2			
			PMZ	$m_b=4.9$		2.0	0.036	
			PMZ	$m_B=5.5$		5.0	0.39	
			pP	05 05 34.2	2.9			
			ePP	05 06 57.0	1.4			
			S	05 11 20.0	2.0			
			SME			8.0	0.57	
			SS	05 14 06.0	3.4			
			LE	$M_S=5.0$		18.0	1.40	
			LZ	$M_S=4.9$		24.0	2.10	
BJI	39.2	352	eP	05 05 23.5	−0.4			
			PMZ	$m_b=5.2$		1.0	0.036	
			PMZ	$m_B=5.5$		5.0	0.40	
			eS	05 11 20.0	−2.2			
			eSS	05 14 08.0	0.6			
			LE	$M_S=4.7$		16.0	0.70	
			LZ	$M_S=4.9$		24.0	2.16	
SNY	40.5	1	eP	05 05 32.8	−2.1			
			PMZ	$m_b=5.0$		1.2	0.028	
			sP	05 05 46.0	−2.1			
			S	05 11 40.0	−1.0			
			SMN			16.0	0.70	
			LN	$M_S=5.2$		21.0	2.21	
			LE			21.0	1.09	
HHC	40.8	347	+P	05 05 38.0	0.4			
			S	05 11 50.0	4.4			
			SMN			13.0	0.84	
			SME			10.0	0.29	

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			LN	$M_S=5.2$		18.0	1.71
			LE			18.0	1.34
			LZ	$M_S=5.0$		18.0	1.81
BTO	41.0	345	P	05 05 38.0	−0.7		
			pP	05 05 46.0	−1.8		
			PP	05 07 17.0	0.6		
			S	05 11 50.0	2.4		
			eSS	05 14 49.0	2.9		
			LN	$M_S=5.3$		19.0	2.50
			LE			19.0	2.00
			LZ	$M_S=5.2$		19.0	2.90
LSA	41.4	316	eP	05 05 44.8	2.2		
			eS	05 11 56.5	0.6		
			LN	$M_S=4.5$		10.0	0.17
			LE			10.0	0.19
CN2	42.6	3	eP	05 05 52.0	0.4		
			epP	05 06 02.0	1.1		
			eS	05 12 12.0	0.0		
			eSS	05 15 16.0	−0.2		
			ScS	05 15 49.0	1.5		
			LN	$M_S=4.8$		16.0	0.60
			LE			16.0	0.50
			LZ	$M_S=4.9$		22.0	1.60
GTA	43.5	334	P	05 06 00.0	0.5		
			PMZ	$m_b=5.1$		1.0	0.028
			S	05 12 28.0	3.1		
			LE	$M_S=5.0$		16.0	0.99
			LZ	$M_S=5.0$		20.0	1.81
MDJ	43.7	7	eP	05 06 00.7	−0.4		
			pP	05 06 10.0	−0.4		
WMQ	52.7	328	eP	05 07 11.0	−0.2		
			S	05 14 37.5	2.9		
			LN	$M_S=5.1$		16.0	0.73
			LE			16.0	0.71
			LZ	$M_S=4.9$		18.0	1.06

JUN 2d 05h 23m 19.5±0.07s, SD4.22/6
44.21 N±0.57km, 82.73 E±0.50km, h10±0.27km
Northern Xinjiang Province (332)
M_L3.0/6,

WMQ	3.6	95	Pn	05 24 16.8	0.8		
			Sg	05 25 10.0	−2.7		
			SMN	$M_L=2.8$		0.6	0.027
			SME			0.5	0.020

JUN 2d 09h 28m 39.5±0.02s, SD2.48/7
40.24 N±0.29km, 77.21 E±0.27km, h5±km
Southern Xinjiang Province (321)
M_L3.6/7,

KSH	1.2	234	Pg	09 29 01.0	−0.5		
			Sg	09 29 19.5	1.4		
			SMN	$M_L=3.9$		0.5	2.30
			SME			0.5	2.10
WMQ	8.6	62	P	09 30 46.2	−1.5		
			eS	09 32 22.0	−4.0		

JUN 2d 11h 53m 30.8±0.39s, SD3.60/8
30.03 N±2.71km, 89.69 E±3.36km, h5±km
Tibet (306)
M_S4.0/1,

LSA	1.3	104	iPn	11 53 53.0	−3.6		
			LN			4.0	6.25
WMQ	13.8	354	eP	11 56 49.0	−1.4		
GYA	15.4	99	P	11 57 12.0	1.4		
BJI	23.8	58	eP	11 58 49.5	3.9		

JUN 2d 13h 05m 12.7±0.10s, SD2.74/20
30.01 N±0.52km, 99.54 E±0.61km, h27±0.55km
Sichuan Province (307)
M_S4.0/3, M_L3.4/5,

CD2	3.7	75	Pn	13 06 11.0	1.7		
			Pg	13 06 20.0	1.0		
			Sg	13 07 15.0	4.7		
			SMN	$M_L=3.4$		1.0	0.10
			SME			1.2	0.10
			LN	$M_S=4.0$		6.0	1.40
			LZ	$M_S=3.8$		8.0	1.10
GYA	7.2	118	Pn	13 06 59.0	2.0		
GTA	9.4	1	eP	13 07 31.0	1.6		
BJI	16.9	49	eP	13 09 10.0	1.2		
CN2	24.7	49	eP	13 10 38.4	4.8		

JUN 3d 16h 23m 38.6±0.05s, SD1.35/72
5.46 N±0.85km, 32.12 E±0.84km, h10±0.04km
Sudan (557)
M_S5.3/3, m_b4.9/27,

KSH	52.0	43	P	16 32 52.0	0.9		
			LN	$M_S=5.6$		16.0	2.80
WMQ	61.8	43	P	16 34 00.0	−0.8		
GTA	69.4	50	P	16 34 49.2	−0.3		
			LZ	$M_S=4.8$		20.0	0.54
LZH	72.0	54	eP	16 35 05.0	−0.8		
			PMZ	$m_b=5.1$		2.0	0.042
			sP	16 35 16.5	2.8		
			LZ	$M_S=4.9$		22.0	0.80
GYA	73.8	64	P	16 35 15.8	0.0		
HHC	78.5	50	P	16 35 43.8	1.3		
BJI	82.0	50	eP	16 36 00.0	−1.0		
TIA	82.8	54	eP	16 36 05.9	0.6		

JUN 4d 00h 24m 32.0±0.03s, SD0.84/67
22.19 S±0.35km, 179.41 W±0.44km, h596±0.42km
South of Fiji (171)
m_b4.9/16,

GZH	79.4	300	+P	00 35 40.2	0.9		
NJ2	80.0	311	+P	00 35 42.5	0.4		
MDJ	81.2	326	eP	00 35 48.3	0.0		
SNY	82.7	321	−P	00 35 55.2	−0.7		
CN2	82.8	323	−P	00 35 56.0	−0.8		
BJI	86.2	316	eP	00 36 13.0	0.0		
GYA	86.4	300	P	00 36 14.6	0.6		
TIY	87.4	313	eP	00 36 19.0	0.0		
XAN	88.1	308	P	00 36 22.5	0.3		
KMI	89.0	298	+P	00 36 27.5	1.1		
LZH	92.8	308	eP	00 36 43.0	−0.7		

JUN 4d 09h 26m 36.5±0.06s, SD1.29/122
14.36 S±0.90km, 167.80 E±0.84km, h51±0.32km
Vanuatu (New Hebrides) (186)
M_S5.0/2, m_b5.0/19,

SSE	63.6	316	P	09 37 04.5	−0.5		
			PMZ	$m_b=4.8$		1.2	0.014
NJ2	65.8	315	eP	09 37 17.0	−2.0		
WHN	68.1	312	eP	09 37 33.0	−0.6		
MDJ	68.2	332	eP	09 37 33.0	−1.3		
DL2	68.3	323	eP	09 37 33.5	−1.5		
			LZ	$M_S=4.5$		20.0	0.31
CN2	69.6	329	+P	09 37 42.0	−1.0		
			PMZ	$m_b=5.2$		1.0	0.030
			LZ	$M_S=4.6$		20.0	0.40
GYA	71.9	304	P	09 37 57.6	0.4		
BJI	72.3	321	eP	09 37 59.0	−0.2		
			PMZ	$m_b=5.3$		2.0	0.083
			eS	09 47 24.0	6.7		
			LZ	$M_S=4.8$		28.0	0.69
TIY	73.3	317	eP	09 38 05.4	−0.1		

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			S	09 47 34.0	6.4			
			sS	09 47 50.0	−1.7			
			LE	$M_S=5.0$		8.0	0.22	
			LZ	$M_S=4.9$		22.0	0.65	
KMI	74.5	302	−P	09 38 14.0	1.3			
HHC	75.6	319	eP	09 38 19.0	0.2			
CD2	76.2	307	eP	09 38 22.0	0.1			
BTO	76.5	319	eP	09 38 24.0	0.4			
LZH	78.4	312	−iP	09 38 35.0	0.4			
			PMZ	$m_b=5.4$		2.5	0.13	
GTA	82.8	314	P	09 38 57.6	0.0			
			PMZ	$m_b=5.1$		1.4	0.032	
WMQ	92.8	314	P	09 39 46.4	0.5			

JUN 4d 09h 44m 37.6 ± 0.05s, SD1.04 / 125
14.34 S ± 0.77km, 167.77 E ± 0.82km, h26 ± 0.14km
Vanuatu (New Hebrides) (186)
m_B5.3 / 1, m_b5.0 / 26,

SSE	63.6	316	−P	09 55 08.5	−0.5			
			PMZ	$m_b=5.0$		1.0	0.019	
			pP	09 55 14.0	−3.4			
			sP	09 55 17.0	−3.8			
GZH	65.0	304	+P	09 55 19.0	1.0			
NJ2	65.7	315	−P	09 55 23.0	0.0			
QZN	66.0	299	eP	09 55 25.7	1.2			
			eS	10 04 13.0	3.6			
WHN	68.0	312	eP	09 55 37.5	−0.1			
MDJ	68.2	332	eP	09 55 38.5	0.1			
			pP	09 55 44.0	−2.7			
DL2	68.3	323	eP	09 55 39.6	0.5			
TIA	69.4	318	−P	09 55 45.1	−0.7			
CN2	69.6	329	+P	09 55 46.4	−0.6			
GYA	71.9	304	P	09 56 01.6	0.4			
BJI	72.3	321	eP	09 56 03.5	0.2			
			PMZ	$m_b=5.0$		1.0	0.017	
TIY	73.3	317	eP	09 56 10.0	0.4			
			LZ	$M_S=4.9$		16.0	0.48	
XAN	73.8	312	P	09 56 12.7	0.4			
KMI	74.5	302	−P	09 56 18.0	1.2			
HHC	75.6	319	P	09 56 24.0	1.1			
CD2	76.2	307	P	09 56 26.7	0.7			
BTO	76.5	319	eP	09 56 28.0	0.3			
			PcP	09 56 40.0	1.4			
			S	10 06 13.0	3.8			
LZH	78.4	312	eP	09 56 38.5	−0.3			
			PMZ	$m_b=5.4$		1.5	0.074	
GTA	82.8	314	P	09 57 02.4	0.7			
			PMZ	$m_b=5.0$		1.0	0.018	
WMQ	92.8	314	eP	09 57 50.4	0.3			

JUN 4d 10h 33m 37.5 ± 0.03s, SD1.00 / 132
11.05 S ± 0.64km, 162.91 E ± 0.63km, h69 ± 0.11km
Solomon Islands (193)
M_S4.9 / 6, m_B5.0 / 1, m_b5.1 / 33

SSE	57.9	318	−P	10 43 25.5	−0.1			
			PMZ	$m_b=5.0$		1.0	0.019	
			pP	10 43 38.0	−5.0			
			eS	10 51 23.0	4.0			
			LN	$M_S=5.0$		16.0	0.52	
			LE			20.0	0.40	
NJ2	60.1	317	−P	10 43 39.2	−1.2			
			LZ	$M_S=4.4$		20.0	0.31	
QZN	60.2	299	eP	10 43 41.8	0.4			
			eS	10 51 51.0	2.2			
WHN	62.3	313	eP	10 43 55.0	−0.6			
			pP	10 44 09.0	−4.2			
DL2	62.8	325	eP	10 43 59.0	0.1			
			eS	10 52 26.0	4.3			
			LZ	$M_S=4.5$		20.0	0.30	
MDJ	63.1	334	eP	10 44 00.0	−0.6			
TIA	63.8	320	eP	10 44 03.9	−1.3			
SNY	63.8	328	eP	10 44 08.2	2.8			
			sP	10 44 26.4	−4.9			
			LZ	$M_S=4.7$		20.0	0.55	
CN2	64.4	331	+P	10 44 08.0	−0.8			
			PMZ	$m_b=5.2$		1.0	0.030	
			eS	10 52 46.0	5.5			
			LN	$M_S=5.2$		20.0	1.00	
			LE			20.0	0.40	
			LZ	$M_S=4.9$		20.0	0.90	
GYA	66.1	305	P	10 44 21.2	0.8			
BJI	66.8	323	eP	10 44 24.0	−0.3			
			PMZ	$m_b=5.1$		1.0	0.024	
			eS	10 53 12.0	2.1			
TIY	67.7	319	eP	10 44 30.2	0.0			
			LE	$M_S=5.1$		16.0	0.64	
			LZ	$M_S=5.1$		16.0	0.95	
KMI	68.8	302	eP	10 44 37.5	0.5			
HHC	70.1	321	−P	10 44 45.8	1.0			
CD2	70.4	308	P	10 44 47.0	0.1			
BTO	70.9	320	eP	10 44 50.0	0.2			
			eS	10 54 02.0	3.0			
LZH	72.7	313	eP	10 45 01.0	0.2			
			PMZ	$m_b=5.2$		2.0	0.065	
			eS	10 54 24.0	3.8			
			LZ	$M_S=4.7$		20.0	0.40	
GTA	77.1	315	P	10 45 26.0	0.2			
			PMZ	$m_b=5.2$		1.4	0.051	
			LZ	$M_S=4.8$		18.0	0.47	
WMQ	87.1	316	eP	10 46 18.0	0.1			

JUN 4d 21h 40m 25.7 ± 0.06s, SD2.05 / 23
23.67 N ± 0.86km, 94.48 E ± 0.72km, h91 ± 1.45km
Burma–India border region (294)
m_b4.7 / 2,

LSA	6.7	334	P	21 42 04.8	0.9			
KMI	7.7	77	eP	21 42 17.5	0.5			
CD2	11.0	47	P	21 42 59.7	−1.5			
GYA	11.4	73	P	21 43 06.4	−0.6			
LZH	14.8	31	eP	21 43 54.0	2.3			
			PMZ	$m_b=5.1$		0.7	0.023	
XAN	16.3	47	P	21 44 10.1	−0.7			
WHN	19.0	65	P	21 44 46.0	3.6			
TIY	20.8	44	eP	21 44 58.8	−3.0			
WMQ	20.9	346	P	21 45 02.0	−0.5			
KSH	22.3	320	eP	21 45 18.5	1.8			

JUN 5d 13h 42m 50.3 ± 0.03s, SD1.09 / 310
35.41 N ± 0.66km, 139.08 E ± 0.52km, h123 ± 0.38km
Near south coast of Honshu (230)
m_B5.6 / 13, m_b5.3 / 116,

MDJ	11.7	325	eP	13 45 36.8	1.9			
			PMZ	$m_b=5.7$		1.4	0.20	
			sP	13 46 08.0	0.7			
			S	13 47 49.0	5.7			
CN2	13.4	313	+P	13 45 58.0	0.8			
			PMZ	$m_b=5.3$		1.0	0.050	
			PMZ	$m_B=5.9$		5.0	1.00	
			sP	13 46 32.0	1.5			
			S	13 48 26.5	2.9			
			ScP	13 54 39.0	2.0			
			ScS	13 58 12.0	−0.7			
SNY	13.7	303	+iP	13 46 02.0	1.3			
			PMZ	$m_b=5.6$		1.0	0.098	
			PMZ	$m_B=5.4$		9.0	0.60	
			sP	13 46 36.0	1.8			

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		iS	13 48 32.0	1.6			
		SMN			14.0	1.00	
		LE			10.5	0.84	
		LZ			16.0	1.06	
DL2	14.4	289	+iP	13 46 12.0	3.0		
			PMZ	$m_B = 5.7$	5.0	0.67	
			LN		12.0	1.00	
			LE		12.0	1.34	
			LZ		13.0	0.40	
SSE	15.6	259	+P	13 46 25.0	0.5		
			PMZ	$m_b = 5.7$	1.0	0.33	
			PMZ	$m_B = 5.6$	4.0	0.96	
			sP	13 47 00.0	1.2		
			S	13 49 14.0	0.9		
			LN		12.0	0.56	
			LE		12.0	0.54	
			LZ		16.0	0.71	
NJ2	17.2	265	+P	13 46 46.0	2.0		
			PMZ	$m_b = 5.3$	0.8	0.13	
			PMZ	$m_B = 5.4$	4.0	0.79	
			isP	13 47 20.0	0.9		
			eS	13 49 50.0	0.7		
TIA	17.8	279	−P	13 46 51.4	−0.7		
			PMZ	$m_b = 4.8$	1.0	0.050	
			sP	13 47 27.0	−0.5		
BJI	18.7	291	eP	13 46 59.5	−2.2		
			PMZ	$m_b = 5.1$	2.0	0.17	
			sP	13 47 36.0	−2.3		
			eS	13 50 20.0	−2.8		
			eScS	13 58 29.0	1.9		
QZH	20.5	245	−P	13 47 20.4	−0.5		
			PMZ	$m_b = 5.5$	0.7	0.18	
			pP	13 47 45.5	1.6		
			sP	13 48 03.0	3.0		
			eS	13 51 00.0	1.3		
			sS	13 51 38.0	4.0		
WHN	21.3	264	+P	13 47 30.0	1.4		
			PMZ	$m_b = 5.3$	0.5	0.070	
			PMZ	$m_B = 5.0$	5.0	0.36	
			pP	13 47 56.5	3.8		
			S	13 51 08.0	−4.2		
			LE		10.0	0.42	
TIY	21.5	284	eP	13 47 30.0	−0.9		
			PP	13 47 59.5	−1.4		
			eS	13 51 14.5	−2.6		
			sS	13 51 57.5	1.2		
			LE		13.0	0.71	
			LZ		14.0	1.43	
HHC	22.3	292	eP	13 47 36.5	−1.9		
			pP	13 48 04.0	1.0		
			PP	13 48 11.0	0.0		
			S	13 51 30.0	0.2		
			SMN		7.0	0.46	
			SME		8.0	0.47	
			SS	13 52 25.0	4.6		
			LN		14.0	0.82	
			LE		14.0	0.42	
			LZ		14.0	0.59	
BTO	23.4	291	eP	13 47 47.5	−2.1		
			pP	13 48 16.0	1.4		
			PP	13 48 30.0	3.1		
			eS	13 51 50.0	−0.7		
			LN		14.0	0.40	
			LE		14.0	0.60	
			LZ		14.0	0.60	
XAN	24.8	276	+iP	13 48 02.2	−0.4		
GZH	25.5	248	+P	13 48 10.0	0.7		
			PMZ	$m_b = 6.0$	1.0	0.38	
			pP	13 48 38.5	3.6		
			eS	13 52 21.0	−4.5		
LZH	28.5	282	+P	13 48 36.5	−0.4		
			PMZ	$m_b = 5.2$		2.0	0.095
			pP	13 49 04.0	1.2		
			sP	13 49 16.5	−1.1		
			eS	13 53 12.5	−2.2		
			ScP	13 55 16.0	2.7		
			PcS	13 55 27.0	1.0		
			ScS	13 59 07.0	1.7		
			LE			13.0	0.60
			LZ			16.0	1.00
GYA	29.1	261	+iP	13 48 41.0	−1.1		
			PMZ	$m_b = 5.5$		1.0	0.10
			sP	13 49 18.0	−4.9		
			PcP	13 51 47.8	1.4		
			S	13 53 21.0	−1.8		
			ScP	13 55 17.6	2.4		
			PcS	13 55 29.4	1.5		
			ScS	13 59 10.0	2.0		
CD2	29.8	272	P	13 48 46.4	−1.9		
			S	13 53 36.0	2.0		
QZN	30.5	245	eP	13 48 55.4	0.7		
			pP	13 49 23.5	2.5		
			eS	13 53 45.0	−1.3		
GTA	31.3	289	P	13 49 00.0	−1.3		
			PMZ	$m_b = 5.2$		1.0	0.045
			PcP	13 51 53.4	1.4		
			ScP	13 55 24.2	1.9		
			ScS	13 59 19.0	0.6		
KMI	32.8	262	+P	13 49 14.0	−1.0		
			PMZ	$m_b = 5.7$		1.5	0.20
			pP	13 49 43.0	1.6		
			sP	13 49 55.0	−1.0		
			S	13 54 20.0	−1.4		
			LN			6.0	0.20
			LE			6.0	0.20
			LZ			12.0	0.60
WMQ	39.9	298	+iP	13 50 15.0	0.6		
			PMZ	$m_b = 5.9$		2.5	0.52
			sP	13 50 55.0	−1.1		
			S	13 56 07.0	−2.2		
			PcS	13 56 11.6	5.3		
			ScS	14 00 07.5	1.9		
			LZ			14.0	0.35
LSA	40.5	276	+P	13 50 21.2	1.7		
KSH	49.4	295	−P	13 51 32.0	1.9		
			S	13 58 30.0	4.6		

JUN 5d 17h 54m 46.9 ± 0.03s, SD2.52 / 9
41.66 N ± 0.43km, 86.30 E ± 0.27km, h23 ± 0.01km
Southern Xinjiang Province (321)
M_L3.8 / 8,

WMQ	2.4	25	Pn	17 55 27.2	1.9		
			Sg	17 55 57.4	−4.6		
GTA	10.5	98	P	17 57 18.8	−1.2		
			SMN			1.4	0.047
			SME			1.4	0.037

JUN 6d 02h 01m 08.1 ± 0.03s, SD1.18 / 152
6.08 S ± 0.65km, 77.19 W ± 0.92km, h24 ± 0.10km
Northern Peru (111)
m_b5.0 / 40,

BJI	144.1	342	ePKP	02 20 43.0	0.2
HHC	144.5	349	ePKP	02 20 44.0	0.3
BTO	145.0	350	PKP	02 20 44.5	−0.1
GTA	146.7	4	−iPKP	02 20 48.8	1.3
TIA	147.3	338	ePKP	02 20 48.8	0.5

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TIY	147.3	346	ePKP	02 20 49.9	1.4		
SSE	149.7	328	PKP	02 20 54.0	1.8		
			pPKP	02 21 05.0	5.9		
LZH	150.1	358	+PKP	02 20 54.5	1.5		
			pPKP	02 21 05.0	5.3		
			PP	02 24 37.5	2.5		
WHN	153.4	337	ePKP	02 20 59.5	2.0		
			pPKP	02 21 05.5	1.1		
			PKP2	02 21 15.5	−2.8		
CD2	155.3	358	ePKP	02 21 01.0	0.8		
GYA	159.4	350	PKP	02 21 07.0	1.4		

JUN 6d 23h 47m 42.2 ± 0.04s, SD1.43 / 61
9.48 S ± 0.58km, 119.76 E ± 0.96km, h33 ± 0.07km
Sumba region (287)
m_b4.9 / 17,

QZH	34.2	358	+P	23 54 28.0	0.7		
GYA	37.9	341	P	23 55 00.4	1.7		
WHN	40.1	353	+eP	23 55 18.5	1.6		
			PMZ	m_b = 5.1		1.2	0.040
NJ2	41.3	359	−iP	23 55 27.9	1.3		
CD2	43.0	340	P	23 55 40.7	0.1		
TIY	47.4	352	eP	23 56 15.4	−0.7		
			S	24 03 12.0	5.5		
			sS	24 03 25.0	2.0		
LZH	47.7	343	eP	23 56 19.0	0.5		
			PMZ	m_b = 5.2		1.6	0.051
BJI	49.4	356	eP	23 56 30.0	−1.0		
			PMZ	m_b = 4.9		1.0	0.018
BTO	50.6	350	eP	23 56 41.0	0.2		
SNY	51.2	4	eP	23 56 41.6	−3.1		
GTA	52.0	340	eP	23 56 51.2	−0.3		
CN2	53.3	5	eP	23 57 04.0	3.5		
MDJ	54.6	9	+P	23 57 08.5	−1.5		
	60.5	334	P	23 57 50.8	−1.2		

WMQ JUN 7d 07h 14m 42.0 ± 0.06s, SD1.49 / 76
20.06 S ± 1.71km, 66.54 E ± 1.05km, h9 ± 0.10km
Mascarene Islands region (427)
M_S5.0 / 5, m_b5.0 / 12,

KMI	57.1	40	−P	07 24 32.0	0.2		
QZN	57.5	50	eP	07 24 36.0	1.3		
			eS	07 32 35.0	3.9		
			LN	M_S = 5.2		13.0	0.80
KSH	59.9	8	eP	07 24 49.0	−2.4		
			eS	07 33 00.0	−2.3		
			LE	M_S = 5.5		12.0	1.30
GYA	60.4	42	P	07 24 54.8	−0.2		
CD2	62.0	36	eP	07 25 04.4	−1.3		
			eS	07 33 31.8	2.8		
			LZ	M_S = 4.7		22.0	0.59
LZH	66.1	32	+P	07 25 31.0	−1.2		
			PMZ	m_b = 5.0		2.0	0.034
			pP	07 25 36.5	−1.0		
			eS	07 34 17.8	−1.6		
			LE	M_S = 5.0		16.0	0.51
			LZ	M_S = 4.7		25.0	0.60
WMQ	66.5	17	P	07 25 34.0	−0.6		
			eS	07 34 26.0	1.9		
			LZ	M_S = 4.6		22.0	0.45
GTA	66.8	28	P	07 25 36.3	−0.8		
XAN	67.3	37	P	07 25 38.6	−1.0		
WHN	68.1	44	eP	07 25 46.0	0.8		
			pP	07 25 53.6	3.0		
TIY	71.9	37	−P	07 26 07.7	−0.3		
			S	07 35 20.0	−6.6		
			LE	M_S = 4.9		12.0	0.28
			LZ	M_S = 4.9		20.0	0.75
NJ2	72.1	45	eP	07 26 07.4	−1.7		
BTO	72.6	33	P	07 26 12.5	−0.2		
			eS	07 35 36.0	−1.1		
HHC	73.6	34	P	07 26 18.7	0.2		
BJI	75.6	37	eP	07 26 30.0	0.4		
			eS	07 36 10.0	0.2		
			LZ	M_S = 4.8		18.0	0.41
CN2	83.3	39	eP	07 27 09.0	−2.4		
MDJ	86.2	40	eP	07 27 27.0	0.9		
			eS	07 38 00.0	−0.2		

JUN 7d 08h 29m 03.7 ± 0.04s, SD1.87 / 25
39.80 N ± 0.42km, 114.21 E ± 0.38km, h11 ± 0.18km
North−Eastern China (658)
M_L3.8 / 22, m_b3.7 / 1,

BJI	1.5	80	ePg	08 29 29.5	−1.4		
			eSg	08 29 50.5	−1.3		
			SMN	M_L = 3.1		0.5	0.19
			SME			0.5	0.29
HHC	2.3	298	−Pg	08 29 44.0	−0.1		
			Sg	08 30 15.4	0.3		
			SMN	M_L = 3.9		0.6	0.74
			SME			0.6	0.69
TIY	2.5	214	−Pn	08 29 44.4	−0.4		
			Pg	08 29 49.8	1.9		
			Sg	08 30 21.3	−0.9		
			SMN	M_L = 4.1		0.8	1.00
			SME			0.8	1.14
BTO	3.3	285	Pg	08 30 02.6	0.3		
			Sg	08 30 44.5	−2.8		
			SMN	M_L = 3.6		0.4	0.29
			SME			0.4	0.13
			SMZ	M_L = 3.9		0.4	0.25
TIA	4.3	146	Pn	08 30 11.3	2.4		
			Pg	08 30 20.8	1.9		
			Sg	08 31 12.8	−4.4		
			SMN	M_L = 4.0		0.3	0.47
			SME			0.3	0.050
XAN	7.1	218	Pn	08 30 50.5	2.0		
			Pg	08 31 15.8	6.1		
			Sn	08 32 10.2	−1.7		
			Sg	08 32 45.0	−2.3		
			SMN	M_L = 4.1		1.5	0.10
			SME			1.5	0.050
SNY	7.4	71	−Pn	08 30 54.0	2.1		
LZH	9.0	249	eP	08 31 14.0	−2.8		
			SMN	M_L = 4.4		1.5	0.095
			SME			1.5	0.054
CN2	9.3	61	eP	08 31 21.0	0.1		

JUN 7d 09h 25m 18.8 ± 0.04s, SD1.57 / 203
3.50 S ± 0.81km, 144.47 E ± 1.03km, h30 ± 0.12km
New Guinea (202)
M_S6.3 / 60, m_B6.2 / 34, m_b5.8 / 69

QZH	37.8	320	+P	09 32 34.5	−0.4		
			PMZ	m_b = 5.9		0.8	0.16
			PMZ	m_B = 6.4		6.0	4.09
			pP	09 32 44.5	0.9		
			PP	09 34 07.0	2.9		
			S	09 38 26.0	2.9		
			LE	M_S = 6.1		15.0	18.1
GZH	40.3	313	P	09 32 56.6	1.5		
			PMZ	m_b = 5.9		1.2	0.26
			pP	09 33 06.0	2.2		
			sP	09 33 12.5	4.9		
			PP	09 34 29.0	−2.7		
			LN	M_S = 6.2		14.0	8.50
			LE			16.0	19.7

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			LZ		$M_S=6.1$		32.0	40.9
QZN	40.8	305	eP	09 32 59.4		0.0		
			PMZ		$m_b=6.1$		1.6	0.49
			PP	09 34 38.0		1.3		
			PcP	09 35 02.0		1.7		
			S	09 39 09.0		1.7		
			SS	09 42 06.5		2.1		
			LN		$M_S=6.2$		13.5	10.9
			LE				15.5	16.7
SSE	40.9	329	+iP	09 33 00.0		−0.8		
			PMZ		$m_b=5.5$		2.2	0.17
			PMZ		$m_B=5.8$		8.0	1.24
			sP	09 33 12.0		−1.3		
			PP	09 34 38.0		−0.5		
			ScP	09 38 48.0		1.1		
			iS	09 39 10.0		−0.8		
			iSS	09 42 07.0		−1.0		
			LN		$M_S=6.3$		14.0	20.1
			LE				10.0	6.15
			LZ		$M_S=6.4$		20.0	47.3
NJ2	42.9	327	+iP	09 33 17.0		0.0		
			PMZ		$m_B=6.1$		7.5	2.09
			sP	09 33 28.0		−1.5		
			PP	09 35 04.0		4.8		
			S	09 39 33.0		−6.0		
			LN		$M_S=6.4$		15.0	24.2
			LE				16.0	8.30
			LZ		$M_S=6.0$		34.0	35.3
WHN	44.4	322	+P	09 33 30.5		1.3		
			PMZ		$m_b=5.7$		2.0	0.23
			PMZ		$m_B=6.0$		8.0	1.69
			pP	09 33 39.5		1.5		
			LN		$M_S=6.2$		15.0	12.8
			LE				13.0	7.71
			LZ		$M_S=5.8$		18.0	10.9
TIA	47.1	329	−P	09 33 49.0		−1.0		
			PMZ		$m_b=5.7$		2.0	0.20
			PMZ		$m_B=5.9$		7.5	1.20
			pP	09 33 57.5		−1.3		
			S	09 40 37.0		−1.4		
			LN		$M_S=6.4$		15.5	19.1
			LE				16.0	17.0
			LZ		$M_S=6.3$		32.0	53.3
GYA	47.2	311	+iP	09 33 52.6		1.7		
			pP	09 34 00.0		0.4		
			sP	09 34 03.6		0.3		
			sS	09 40 59.0		3.6		
			ScS	09 43 40.0		0.6		
			LN		$M_S=6.1$		15.0	4.90
			LE				15.0	11.7
			LZ		$M_S=5.7$		18.0	7.80
DL2	47.2	336	+P	09 33 50.0		−1.0		
			pP	09 33 57.5		−2.2		
			S	09 40 40.0		−0.1		
			SMN				13.0	6.23
			SME				8.0	2.18
			LN		$M_S=6.4$		18.0	27.7
			LE				12.0	6.37
			LZ		$M_S=6.2$		24.0	29.6
SNY	49.0	339	+iP	09 34 03.0		−1.9		
			PMZ		$m_b=6.0$		1.6	0.32
			PMZ		$m_B=6.5$		4.0	2.67
			sP	09 34 18.0		0.7		
			iS	09 41 04.0		−2.2		
			SMN				11.0	5.67
			SME				11.0	5.83
			SS	09 44 30.0		−1.7		
			LN		$M_S=6.5$		17.0	19.8
			LE				16.0	22.8
			LZ		$M_S=6.6$		20.0	63.6
KMI	49.5	307	+P	09 34 10.6		1.3		
			PMZ		$m_b=6.1$		2.5	0.67
			PMZ		$m_B=6.5$		8.0	5.90
			pP	09 34 16.5		−1.3		
			sP	09 34 23.5		2.0		
			eS	09 41 16.0		1.8		
			sS	09 41 24.0		−4.4		
			LN		$M_S=5.6$		10.0	0.80
			LE				10.0	2.00
			LZ		$M_S=6.2$		30.0	34.4
MDJ	49.7	346	eP	09 34 09.6		−1.2		
			PMZ		$m_b=5.6$		1.4	0.12
			pP	09 34 18.0		−1.5		
			iS	09 41 19.0		2.0		
			sS	09 41 34.0		2.4		
			LN		$M_S=6.1$		15.0	10.6
			LZ		$M_S=6.3$		28.0	47.5
CN2	50.1	342	+P	09 34 12.0		−1.7		
			PMZ		$m_b=5.5$		1.0	0.060
			PMZ		$m_B=6.2$		5.0	1.70
			pP	09 34 20.0		−2.4		
			S	09 41 22.0		0.9		
			SMN				21.0	8.80
			SME				21.0	6.20
			SS	09 44 57.0		5.9		
			LN		$M_S=6.3$		14.0	13.7
			LE				14.0	4.70
			LZ		$M_S=6.4$		23.0	40.0
XAN	50.2	321	P	09 34 13.4		−0.8		
			PMZ		$m_b=6.1$		2.0	0.55
			PMZ		$m_B=6.2$		7.0	2.10
			LN		$M_S=6.3$		15.0	15.0
			LE				14.0	5.21
BJI	50.5	332	eP	09 34 14.0		−2.8		
			PMZ		$m_b=5.7$		1.5	0.17
			PMZ		$m_B=6.3$		12.0	5.52
			eS	09 41 26.0		−1.9		
			eSS	09 44 54.0		−4.2		
			LN		$M_S=6.6$		19.0	37.5
			LZ		$M_S=6.4$		24.0	44.6
TIY	50.6	327	+P	09 34 17.0		−0.9		
			LN		$M_S=6.5$		17.0	21.2
			LE				15.0	14.1
			LZ		$M_S=6.4$		26.0	46.4
CD2	51.7	314	+iP	09 34 26.4		0.3		
			PP	09 36 22.5		−1.1		
			iS	09 41 50.0		5.0		
			LN		$M_S=6.3$		14.0	12.6
			LZ		$M_S=6.0$		42.0	27.9
HHC	53.4	329	P	09 34 38.2		−0.5		
			PMZ		$m_b=6.0$		1.2	0.24
			PMZ		$m_B=6.1$		7.0	1.95
			pP	09 34 42.0		−5.4		
			S	09 42 03.0		−3.4		
			LN		$M_S=6.6$		20.0	26.3
			LE				20.0	25.4
			LZ		$M_S=6.5$		32.0	71.2
BTO	54.0	328	P	09 34 42.5		−0.8		
			sP	09 34 57.0		1.2		
			cPP	09 36 45.0		−0.3		
			S	09 42 14.0		−0.9		
			SS	09 45 57.0		1.4		
			LN		$M_S=6.5$		15.0	20.0
			LE				15.0	12.8
LZH	54.7	320	+P	09 34 48.0		−0.2		
			PMZ		$m_b=6.1$		2.0	0.46

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			PMZ		$m_B=6.2$		10.0	2.94
			pP	09 34 56.0		−0.9		
			sP	09 35 02.0		1.4		
			PcP	09 35 52.0		2.3		
			PP	09 36 51.0		−0.2		
			iS	09 42 25.0		−0.2		
			sS	09 42 38.0		−1.6		
			SS	09 46 07.0		0.8		
			LN		$M_S=6.4$		17.0	15.4
			LE				16.0	10.5
			LZ		$M_S=6.3$		30.0	44.4
GTA	59.2	321	P	09 35 20.0		−0.4		
			PMZ		$m_B=6.2$		10.0	3.45
			S	09 43 22.0		−1.7		
LSA	60.7	307	P	09 35 32.3		1.2		
			pP	09 35 44.0		4.5		
			PcP	09 36 17.5		4.1		
			SME				10.0	4.46
			LN		$M_S=5.9$		14.0	2.90
			LE				20.0	3.98
			LZ		$M_S=5.6$		19.0	4.09
WMQ	69.3	320	+iP	09 36 25.4		−0.4		
			PMZ		$m_B=6.5$		7.0	4.23
			S	09 45 33.0		5.3		
			LN		$M_S=6.1$		14.0	4.18
			LE				13.0	3.08
			LZ		$M_S=6.3$		26.0	21.7
KSH	75.9	312	−iP	09 37 07.0		1.9		
			pP	09 37 15.0		1.2		
			PP	09 40 02.0		5.8		
			LE		$M_S=6.5$		16.0	12.1

JUN 7d 13h 24m 39.8 ± 0.09s, SD1.62 / 117
15.95 S ± 2.02km, 176.94 W ± 1.44km, h35 ± 0.20km
Fiji region (181)
M_S5.4 / 6, m_B5.7 / 1, m_b5.2 / 23

MDJ	77.4	324	+P	13 36 35.5		1.5		
			PMZ		$m_b=5.2$		1.2	0.040
			pP	13 36 41.5		−2.2		
			S	13 46 25.0		5.3		
			SS	13 51 28.0		6.4		
			LZ		$M_S=5.3$		20.0	1.40
NJ2	77.8	309	eP	13 36 36.0		−0.1		
DL2	79.2	316	eP	13 36 45.4		1.9		
CN2	79.3	322	eP	13 36 44.0		−0.6		
			PMZ		$m_b=5.2$		1.0	0.030
			epP	13 36 54.0		−0.4		
			eS	13 46 42.0		0.1		
			LN		$M_S=5.4$		14.0	0.60
			LE				14.0	0.40
			LZ		$M_S=5.1$		18.0	0.90
SNY	79.4	319	eP	13 36 44.5		−0.4		
			PMZ		$m_b=5.2$		1.4	0.046
QZN	80.0	293	eP	13 36 48.5		0.6		
			PP	13 39 52.0		1.8		
			LZ		$M_S=5.4$		20.0	1.80
			eS	13 46 50.0		1.7		
WHN	80.6	305	eP	13 36 53.0		1.7		
BJI	83.4	315	eP	13 37 06.0		0.3		
			PMZ		$m_b=5.3$		1.2	0.041
			eS	13 47 28.0		4.5		
			LZ		$M_S=5.1$		22.0	0.92
TIY	85.0	311	eP	13 37 15.0		1.0		
			LN		$M_S=5.1$		14.0	0.37
			LZ		$M_S=5.1$		26.0	1.14
GYA	85.3	299	P	13 37 18.0		2.5		
XAN	86.2	307	P	13 37 22.2		2.4		
HHC	86.9	314	eP	13 37 23.0		−0.4		
BTO	87.9	313	eP	13 37 29.5		1.0		
			pP	13 37 39.0		1.1		
			eS	13 48 10.0		2.5		
			LN		$M_S=5.4$		15.0	0.50
			LE				15.0	0.50
KMI	88.2	297	−P	13 37 32.5		2.8		
CD2	89.2	302	eP	13 37 30.5		−3.8		
LZH	90.8	307	eP	13 37 42.0		0.0		
			PMZ		$m_b=5.5$		2.5	0.079
			sP	13 37 55.0		−0.8		
			eS	13 48 32.5		−1.9		
			LZ		$M_S=5.1$		42.0	1.50
GTA	94.9	309	eP	13 38 01.0		0.4		
			PMZ		$m_b=5.2$		1.4	0.013

JUN 7d 19h 31m 30.1 ± 0.03s, SD1.27 / 86
32.40 N ± 0.79km, 141.57 E ± 0.85km, h45 ± 0.31km
South of Honshu (211)
M_S4.0 / 7, m_B4.6 / 1, m_b4.8 / 24

MDJ	15.4	326	eP	19 35 05.5		−0.1		
			pP	19 35 11.0		−3.2		
CN2	17.0	317	eP	19 35 26.0		−0.6		
			epP	19 35 35.0		−0.5		
			eS	19 38 36.0		3.5		
			LN		$M_S=4.0$		11.0	0.30
			LE				11.0	0.10
			LZ		$M_S=3.7$		15.0	0.30
SNY	17.1	308	+P	19 35 30.4		2.3		
			sP	19 35 44.0		1.3		
			eS	19 38 39.0		3.7		
			LZ		$M_S=4.0$		16.0	0.64
SSE	17.4	271	eP	19 35 30.0		−1.2		
			sS	19 38 56.0		0.3		
			LE		$M_S=3.8$		10.0	0.21
			LZ		$M_S=3.8$		20.0	0.45
NJ2	19.2	275	eP	19 35 55.0		1.6		
			LZ		$M_S=3.7$		20.0	0.31
BJI	21.8	298	eP	19 36 19.0		−1.4		
			LZ		$M_S=3.8$		16.0	0.29
TIY	24.4	291	eP	19 36 45.8		0.1		
			S	19 41 04.5		6.1		
			LE		$M_S=4.4$		15.0	0.76
			LZ		$M_S=4.5$		16.0	1.19
HHC	25.4	298	eP	19 36 55.0		−0.7		
BTO	26.5	297	eP	19 37 06.5		0.4		
			eS	19 41 38.0		2.7		
			LN		$M_S=4.4$		15.0	0.50
			LE				15.0	0.40
XAN	27.3	282	P	19 37 12.2		−0.8		
GYA	30.9	268	P	19 37 46.0		0.9		
LZH	31.3	287	eP	19 37 48.5		−0.1		
CD2	32.1	278	eP	19 37 54.2		−1.6		
GTA	34.3	294	eP	19 38 14.0		−0.8		
			PMZ		$m_b=4.6$		1.0	0.010
WMQ	43.2	301	eP	19 39 30.5		1.5		

JUN 8d 02h 22m 56.2 ± 0.06s, SD1.86 / 63
23.81 N ± 0.90km, 123.78 E ± 0.88km, h37 ± 0.32km
South–western Ryukyu Islands (246)
M_S4.0 / 7, M_L3.9 / 9, m_b4.4 / 14

QZH	4.9	284	P	02 24 05.1		−3.8		
			SMN		$M_L=3.8$		0.8	0.14
			SME				0.7	0.10
SSE	7.6	343	−P	02 24 46.5		−1.0		
			PMZ		$m_b=5.1$		0.6	0.046
			pP	02 24 52.0		−2.4		
			eS	02 26 14.0		0.9		
			LN		$M_S=3.7$		14.0	0.75

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			LZ		$M_S=3.4$		20.0	0.46
NJ2	9.3	333	eP	02 25 09.5		−1.3		
			LZ		$M_S=3.6$		16.0	0.47
WHN	10.7	311	eP	02 25 31.0		0.3		
			pP	02 25 37.0		−0.7		
			eS	02 27 30.0		−0.5		
			LN		$M_S=4.2$		16.0	1.62
GYA	15.7	283	P	02 26 40.0		3.1		
XAN	16.5	311	eP	02 26 48.5		1.7		
TIY	16.9	328	eP	02 26 54.0		2.0		
			LN		$M_S=4.0$		12.0	0.35
			LZ		$M_S=4.1$		14.0	0.71
BJI	17.4	340	eP	02 26 57.5		−0.5		
			PMZ		$m_b=4.1$		1.0	0.010
			LZ		$M_S=3.7$		16.0	0.29
CD2	19.1	296	eP	02 27 17.5		−1.6		
HHC	19.8	332	P	02 27 26.2		−0.9		
			LN		$M_S=4.0$		17.0	0.45
			LZ		$M_S=4.2$		28.0	1.33
CN2	20.0	4	eP	02 27 29.0		0.5		
			pP	02 27 37.0		−0.5		
			eS	02 31 07.0		0.7		
			LZ		$M_S=4.2$		12.0	0.60
BTO	20.3	329	eP	02 27 32.0		−0.4		
			eS	02 31 11.5		−2.3		
			LN		$M_S=4.1$		14.0	0.30
			LE				14.0	0.30
LZH	21.1	310	−P	02 27 41.5		1.0		
			PMZ		$m_b=4.6$		2.5	0.079
			pP	02 27 50.0		0.4		
			eS	02 31 31.0		2.5		
			LZ		$M_S=4.0$		15.0	0.46
GTA	25.5	313	eP	02 28 22.0		−1.7		

JUN 8d 13h 49m 22.9 ± 0.04s, SD1.41 / 266
17.46 S ± 1.09km, 71.75 W ± 1.16km, h25 ± 0.07km
Near coast of Peru (115)
M_S5.9 / 3, m_B5.8 / 1, m_b5.6 / 62

KSH	144.4	45	PKP	14 08 59.0		0.9		
			PP	14 12 14.0		−2.2		
MDJ	147.5	331	ePKP	14 09 04.5		1.1		
WMQ	148.5	29	−PKP	14 09 06.5		1.5		
			PKP2	14 09 15.0		2.2		
			LZ		$M_S=5.8$		25.0	1.74
CN2	150.0	335	PKP	14 09 09.0		1.7		
			epPKP	14 09 15.0		0.6		
			ePP	14 12 50.0		1.1		
			LZ		$M_S=5.6$		20.0	0.90
SNY	152.4	335	+PKP	14 09 13.6		2.7		
BJI	156.5	345	ePKP	14 09 18.0		1.6		
			pPKP	14 09 27.5		4.0		
			PKP2	14 09 48.0		1.8		
			ePP	14 13 22.0		−3.5		
			LZ		$M_S=5.4$		22.0	0.62
HHC	156.5	354	−PKP	14 09 19.0		2.4		
			PKP	14 09 19.0		3.8		
			sPKP	14 09 29.0		2.6		
			PKP2	14 09 47.0		0.6		
			PP	14 13 25.0		−0.4		
GTA	156.9	17	PKP	14 09 18.8		1.6		
			PKP2	14 09 46.0		−2.2		
			PP	14 13 24.0		−3.6		
			LN		$M_S=5.9$		20.0	1.29
			LZ		$M_S=6.0$		24.0	2.40
TIY	159.5	350	ePKP	14 09 22.2		1.9		
			PKP2	14 09 59.6		0.4		
			SS	14 33 42.0		−1.8		
			LZ		$M_S=5.8$		28.0	1.94
LSA	160.2	49	PKP	14 09 24.1		2.7		
LZH	161.0	11	+PKP	14 09 22.0		0.0		
			pPKP	14 09 31.0		2.1		
			ePP	14 13 52.0		1.8		
SSE	162.0	321	PKP	14 09 24.0		1.2		
			pPKP	14 09 28.0		−1.9		
NJ2	162.6	329	ePKP	14 09 24.0		0.7		
			PP	14 14 00.0		2.2		
			LZ		$M_S=5.2$		22.0	0.38
XAN	163.5	358	PKP	14 09 25.8		1.5		
WHN	165.8	338	ePKP	14 09 28.5		2.0		
CD2	166.0	16	ePKP	14 09 28.2		1.5		
KMI	170.8	33	+PKP	14 09 30.5		0.6		
			PKP2	14 10 44.0		−4.6		
			PP	14 14 36.0		−3.9		
			LZ		$M_S=5.4$		18.0	0.50
GYA	170.9	9	PKP	14 09 31.4		1.5		
			pPKP	14 09 38.6		1.8		
			sPKP	14 09 41.6		2.0		
			PKP2	14 10 50.0		0.8		
			PP	14 14 39.8		−0.8		
QZN	177.8	316	ePKP	14 09 33.5		1.4		
			PKP2	14 11 23.0		3.3		
			PP	14 15 16.0		1.9		
			SKKS	14 21 59.0		3.1		
			SS	14 36 44.0		−1.1		

JUN 8d 15h 05m 09.4 ± 0.05s, SD1.18 / 378
18.84 S ± 0.91km, 178.78 W ± 0.80km, h500 ± 0.45km
Fiji region (181)
m_B6.1 / 49, m_b5.6 / 93,

QZH	74.9	303	eP	15 16 00.0		−0.4		
			PMZ		$m_B=6.2$		5.0	4.19
			sP	15 18 41.0		3.2		
			PP	15 18 53.0		−4.3		
			S	15 24 57.0		1.1		
			sS	15 28 08.0		3.6		
SSE	76.1	310	−P	15 16 06.0		−0.9		
			PMZ		$m_b=5.2$		1.4	0.15
			PMZ		$m_B=5.8$		7.0	2.77
			sP	15 18 47.0		2.4		
			S	15 25 08.0		−0.5		
			ScS	15 25 33.0		0.8		
NJ2	78.3	310	−iP	15 16 19.0		0.2		
			PMZ		$m_b=5.0$		1.2	0.080
			PMZ		$m_B=5.9$		7.0	3.50
			pP	15 18 09.0		2.3		
			PP	15 19 24.0		−1.2		
			iS	15 25 36.0		2.8		
GZH	78.3	299	+iP	15 16 19.4		0.5		
			PMZ		$m_b=5.4$		1.0	0.16
			sP	15 18 55.0		−2.1		
			iS	15 25 28.0		−5.3		
			iSKS	15 25 35.0		−5.9		
MDJ	78.7	325	eP	15 16 21.0		−0.4		
			PMZ		$m_b=5.8$		1.5	0.62
			PMZ		$m_B=6.1$		5.0	4.41
			PcP	15 16 27.1		−0.8		
			iS	15 25 43.0		4.7		
			SME				9.0	18.0
QZN	79.5	294	−iP	15 16 26.5		1.1		
			PMZ		$m_B=5.9$		6.0	2.96
			sP	15 19 04.0		0.0		
			iS	15 25 49.0		2.8		
DL2	80.0	317	−P	15 16 29.0		0.9		
			PMZ		$m_b=5.8$		1.8	0.74
			PMZ		$m_B=6.0$		5.0	2.83
			pP	15 18 20.0		3.5		

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			sP	15 19 10.0	3.2		
			PP	15 19 38.0	−1.1		
			S	15 25 53.0	3.2		
			SMN			8.0	3.33
			SME			8.0	5.64
SNY	80.5	320	−iP	15 16 30.0	−0.4		
			PMZ	$m_B = 5.8$		6.5	2.81
			pP	15 18 21.0	2.1		
			iS	15 25 59.0	3.0		
			SMN			9.5	4.35
			SME			9.5	6.98
CN2	80.5	323	−iP	15 16 30.2	−0.6		
			PMZ	$m_b = 5.7$		1.0	0.30
			PMZ	$m_B = 6.0$		5.0	3.40
			pP	15 18 21.5	2.2		
			sP	15 19 13.0	3.4		
			S	15 26 00.0	5.0		
			SMN			8.0	3.00
			SME			8.0	11.5
WHN	80.9	307	+P	15 16 33.2	0.7		
			PMZ	$m_b = 5.6$		1.5	0.38
			PMZ	$m_B = 6.1$		5.0	3.90
			pP	15 18 25.0	3.9		
			PP	15 19 42.0	−4.7		
			iS	15 26 03.0	3.0		
TIA	81.6	313	P	15 16 35.5	−0.8		
			PMZ	$m_B = 5.9$		6.0	2.90
			sP	15 19 18.5	3.2		
			S	15 26 11.2	5.4		
BJI	84.2	316	eP	15 16 48.5	−0.7		
			PMZ	$m_b = 5.9$		1.5	0.58
			PMZ	$m_B = 6.1$		5.0	2.82
			esP	15 19 30.0	1.2		
			eSKS	15 26 22.0	0.0		
			eS	15 26 32.0	−0.8		
GYA	85.2	300	−P	15 16 54.4	0.2		
			PMZ	$m_B = 6.2$		5.0	3.10
			sP	15 19 39.0	5.1		
			PP	15 20 22.0	1.1		
			SKS	15 26 33.0	4.5		
			S	15 26 46.0	5.4		
TIY	85.6	312	−iP	15 16 56.0	−0.3		
			PMZ	$m_b = 5.7$		0.9	0.18
			PMZ	$m_B = 6.2$		5.0	3.11
			sP	15 19 34.0	−2.0		
			SKS	15 26 35.5	4.1		
			S	15 26 51.0	6.3		
			SMN			8.0	2.88
			SME			8.0	3.67
			SS	15 32 32.0	−6.9		
XAN	86.5	308	P	15 17 01.2	0.6		
			PMZ	$m_b = 5.9$		1.5	0.43
			PMZ	$m_B = 6.2$		6.0	3.61
			iS	15 27 00.0	4.9		
HHC	87.7	315	+P	15 17 06.4	0.4		
			PMZ	$m_b = 6.1$		1.6	0.73
			PMZ	$m_B = 6.1$		5.0	2.28
			sP	15 19 46.0	−0.1		
			PP	15 20 44.0	2.5		
			SKS	15 26 49.5	5.1		
			SME			8.0	5.52
KMI	87.9	297	−P	15 17 08.0	0.6		
			PMZ	$m_b = 6.2$		2.5	1.14
			PMZ	$m_B = 6.2$		5.5	2.80
			sP	15 19 50.0	2.6		
BTO	88.6	314	−iP	15 17 11.0	0.6		
			PMZ	$m_B = 6.1$		6.0	2.30
			S	15 27 12.5	0.4		
CD2	89.3	303	P	15 17 14.0	0.5		
			PMZ	$m_b = 5.8$		2.0	0.32
			PMZ	$m_B = 6.1$		6.5	2.06
			pP	15 19 09.0	4.8		
			sP	15 19 58.8	4.9		
			PP	15 21 00.0	5.8		
			iS	15 27 25.5	5.6		
LZH	91.2	308	−P	15 17 22.0	−0.4		
			PMZ	$m_b = 6.1$		2.0	0.60
			PMZ	$m_B = 6.2$		6.0	1.89
			pP	15 19 18.0	4.7		
			PP	15 21 05.0	−3.2		
			S	15 27 34.0	−0.8		
			SMN			7.0	12.0
			sS	15 30 56.0	3.0		
			SS	15 34 00.0	2.2		
GTA	95.4	310	eP	15 17 40.4	−1.0		
			PMZ	$m_b = 5.6$		1.2	0.072
			PMZ	$m_B = 5.9$		6.0	0.81
			S	15 28 08.0	−2.5		
LSA	99.2	298	eP	15 18 01.4	2.4		
			PP	15 22 12.0	1.8		
			PPMZ	$m_B = 6.4$		6.0	1.64
			SKS	15 27 50.0	2.8		
			sS	15 32 02.0	−0.7		
			SS	15 35 49.0	0.0		
WMQ	105.3	311	Pdif	15 18 27.7	1.9		
			PP	15 22 55.0	−1.3		

JUN 8d 16h 43m 18.4 ± 0.05s, SD1.12 / 176
52.43 N ± 1.40km, 169.52 W ± 0.60km, h33 ± 0.01km
Fox Islands (9)
m_b5.0 / 70,

MDJ	40.0	284	eP	16 50 51.5	−0.6		
CN2	42.9	285	+P	16 51 15.2	−0.9		
SNY	45.2	284	eP	16 51 35.0	0.6		
TIA	52.6	283	eP	16 52 31.4	−0.6		
HHC	52.8	291	P	16 52 35.4	1.9		
SSE	53.7	275	P	16 52 40.0	0.1		
			PMZ	$m_b = 5.1$		1.0	0.023
			pP	16 52 50.0	0.6		
BTO	53.9	292	eP	16 52 42.0	0.8		
TIY	54.4	287	eP	16 52 43.1	−2.0		
			LZ	$M_S = 4.5$		16.0	0.36
NJ2	54.4	278	eP	16 52 45.0	−0.4		
WHN	58.2	280	eP	16 53 13.0	0.5		
XAN	59.0	287	P	16 53 17.0	−0.9		
QZH	59.7	272	P	16 53 23.0	0.3		
GTA	60.4	297	P	16 53 26.6	−0.9		
LZH	60.5	292	−P	16 53 28.0	−0.2		
			PMZ	$m_b = 5.3$		2.5	0.087
			sP	16 53 46.5	5.1		
			LZ	$M_S = 4.7$		25.0	0.70
WMQ	63.4	308	P	16 53 48.2	0.3		
CD2	64.3	288	eP	16 53 53.0	−0.3		
GZH	64.3	275	−P	16 53 54.6	1.2		
GYA	65.8	282	P	16 54 03.8	0.3		
KMI	69.1	284	eP	16 54 24.5	0.1		
			sP	16 54 36.5	−1.2		
LSA	72.3	296	+P	16 54 46.9	2.9		

JUN 8d 21h 37m 38.4 ± 0.04s, SD1.49 / 215
9.05 S ± 0.88km, 120.31 E ± 1.27km, h33 ± 0.02km
Sumba region (287)
M_S4.8 / 11, m_B7.0 / 1, m_b5.5 / 52

QZN	29.8	340	eP	21 43 45.0	0.6		
			S	21 48 36.0	−0.7		
			LE	$M_S = 4.9$		16.0	1.90

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QZH	33.8	357	P	21 44 21.4	1.3			
			S	21 49 39.0	−1.5			
GYA	37.7	340	−P	21 44 55.0	1.8			
			PMZ	$m_b = 5.5$		1.2	0.10	
			PcP	21 47 10.6	0.8			
			S	21 50 38.0	−2.1			
			ScS	21 55 00.4	−0.2			
KMI	38.1	334	−P	21 44 58.5	2.2			
			PMZ	$m_b = 5.9$		1.5	0.29	
			pP	21 45 10.0	4.7			
			iS	21 50 46.0	−0.9			
			LZ	$M_S = 4.8$		20.0	1.40	
WHN	39.8	352	eP	21 45 12.0	1.6			
			pP	21 45 21.5	1.9			
			ScP	21 50 58.0	−3.3			
			S	21 51 10.0	−1.5			
			LZ	$M_S = 4.6$		14.0	0.59	
SSE	39.9	1	P	21 45 11.0	−0.5			
			PMZ	$m_b = 5.1$		0.8	0.027	
			pP	21 45 25.0	4.2			
			PcP	21 47 17.0	0.2			
			LZ	$M_S = 4.4$		20.0	0.55	
NJ2	40.9	358	+P	21 45 21.2	1.6			
			ScP	21 51 03.5	−2.1			
			S	21 51 27.0	−1.1			
			LZ	$M_S = 4.2$		26.0	0.41	
CD2	42.8	339	P	21 45 35.4	0.2			
			PMZ	$m_b = 5.9$		1.2	0.22	
			iS	21 51 50.2	−6.9			
XAN	44.2	346	P	21 45 46.3	−0.3			
			PMZ	$m_b = 5.7$		0.8	0.10	
			PcP	21 47 29.0	−1.9			
			S	21 52 10.0	−6.5			
			ScS	21 55 37.0	−2.3			
TIA	45.1	356	eP	21 45 53.6	−0.4			
TIY	47.1	351	−P	21 46 09.8	0.1			
			S	21 52 54.5	−3.5			
			LE	$M_S = 4.5$		28.0	0.57	
			LZ	$M_S = 4.5$		32.0	0.82	
LZH	47.5	342	−P	21 46 13.0	0.0			
			PMZ	$m_b = 5.9$		1.8	0.32	
			PMZ			3.0	0.49	
			ScP	21 51 30.0	−2.5			
			S	21 53 00.0	−3.7			
			ScS	21 55 58.0	−2.5			
			LN	$M_S = 4.7$		14.0	0.40	
			LZ	$M_S = 4.6$		40.0	1.50	
LSA	47.7	325	−P	21 46 15.3	0.7			
			SME			4.0	0.44	
DL2	47.7	1	P	21 46 13.0	−1.5			
			eS	21 53 02.0	−5.9			
			SME			8.0	0.54	
BJI	49.0	356	eP	21 46 23.0	−1.4			
			PMZ	$m_b = 5.6$		1.0	0.091	
			ePcP	21 47 49.0	1.2			
			eScP	21 51 36.0	−2.8			
			eS	21 53 20.0	−5.7			
			LZ	$M_S = 4.5$		24.0	0.57	
HHC	50.3	351	eP	21 46 35.0	0.4			
			PcP	21 47 53.0	0.5			
			S	21 53 40.0	−2.9			
			ScS	21 56 16.0	−3.1			
			SS	21 57 07.0	−6.5			
			LE	$M_S = 4.5$		13.0	0.22	
			LZ	$M_S = 4.7$		38.0	1.53	
BTO	50.3	350	P	21 46 35.0	0.4			
			S	21 53 41.0	−1.9			
			LN	$M_S = 4.7$		11.0	0.20	
			LE			11.0	0.20	
SNY	50.7	3	eP	21 46 34.2	−3.4			
			PMZ	$m_b = 5.1$		0.7	0.019	
			pP	21 46 44.6	−2.3			
			S	21 53 43.0	−5.6			
			SS	21 57 18.0	−2.6			
			LE	$M_S = 4.8$		24.0	0.70	
GTA	51.8	340	−iP	21 46 46.4	0.2			
			PMZ	$m_b = 5.8$		1.0	0.12	
			PMZ	$m_b = 6.0$		2.0	0.44	
			ScP	21 51 48.6	−2.3			
			S	21 54 02.0	−2.1			
			ScS	21 56 26.0	−3.7			
			LZ	$M_S = 4.7$		26.0	0.93	
CN2	52.8	5	eP	21 46 51.0	−2.3			
			PMZ	$m_b = 5.0$		1.0	0.020	
			epP	21 47 03.0	0.3			
			PcP	21 48 00.0	−1.8			
			ScP	21 51 50.0	−5.1			
			eS	21 54 18.0	−0.4			
			LZ	$M_S = 4.5$		26.0	0.60	
MDJ	54.1	8	eP	21 47 00.5	−2.2			
			eS	21 54 30.5	−5.1			
			ScS	21 56 42.0	−3.2			
			SS	21 58 10.0	−5.3			
			LZ	$M_S = 4.7$		28.0	1.00	
WMQ	60.4	333	P	21 47 45.5	−1.9			
			S	21 55 53.0	−4.3			
KSH	63.5	323	eP	21 48 07.0	−1.1			
			esP	21 48 21.0	−0.4			
			PP	21 50 26.0	−2.4			
			S	21 56 34.0	−2.3			
			esS	21 56 53.0	−0.3			

JUN 9d 01h 14m 34.1 ± 0.03s, SD1.26 / 191
6.03 S ± 0.73km, 77.11 W ± 1.06km, h24 ± 0.17km
Northern Peru (111)
m_b5.4 / 56,

CN2	137.5	336	ePKP	01 34 00.0	2.7		
KSH	138.7	32	ePKP	01 33 59.0	−0.8		
SNY	139.9	336	ePKP	01 33 58.8	−2.8		
WMQ	140.1	17	ePKP	01 34 02.0	−0.1		
DL2	143.1	335	ePKP	01 34 10.3	3.0		
HHC	144.5	349	PKP	01 34 08.6	−1.2		
BTO	145.0	351	PKP	01 34 10.5	−0.2		
GTA	146.7	4	PKP	01 34 14.0	0.4		
TIA	147.2	338	ePKP	01 34 15.5	1.1		
TIY	147.3	346	PKP	01 34 17.5	3.0		
			pPKP	01 34 26.4	5.3		
			LZ	$M_S = 5.5$		26.0	0.85
CD2	155.2	358	ePKP	01 34 26.3	0.0		
GYA	159.4	350	PKP	01 34 33.8	2.1		

JUN 9d 15h 31m 31.0 ± 0.05s, SD2.42 / 24
28.39 N ± 0.56km, 103.03 E ± 0.58km, h5 ± km
Sichuan Province (307)
M_S3.8 / 2, M_L3.8 / 13, m_b4.2 / 1

CD2	2.6	14	ePn	15 32 15.6	1.7		
			ePg	15 32 18.1	1.4		
			Sg	15 32 49.2	−2.9		
			SMN	$M_L = 3.8$		1.0	0.35
			SME			1.0	0.66
			LN			6.0	0.98
KMI	3.2	184	+Pn	15 32 25.0	2.0		
			Pg	15 32 35.0	6.9		
			Sg	15 33 16.5	4.1		
			SMN			2.0	0.26
			SME			1.4	0.20

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GYA	3.8	120	+iPn	15 32 34.0	3.9			
			Sn	15 33 15.4	−1.3			
			SMN	$M_L=3.8$		1.2	0.30	
			SME			1.2	0.20	
			LN	$M_S=3.8$		6.0	0.60	
			LE			6.0	0.80	
XAN	7.6	40	ePn	15 33 21.5	−0.7			
			Sn	15 34 45.5	−5.3			
			SMN	$M_L=4.4$		1.0	0.15	
			SME			1.2	0.14	
WHN	10.1	75	eP	15 33 58.0	−2.0			
			S	15 35 51.0	−3.6			
			LE	$M_S=3.8$		10.0	0.42	
TIY	12.2	38	eP	15 34 26.9	−1.7			

JUN 9d 17h 24m 51.7 ± 0.05s, SD1.26 / 139
40.15 N ± 0.83km, 29.72 W ± 0.52km, h10 ± 0.12km
Azores (405)
M_S5.3 / 1, m_b4.8 / 47,

KSH	75.7	50	eP	17 36 42.0	2.1			
			eS	17 46 26.0	5.3			
WMQ	79.2	41	eP	17 36 59.5	0.1			
			SKS	17 47 08.0	−1.0			
			LZ	$M_S=5.2$		20.0	1.23	
GTA	88.4	37	eP	17 37 45.8	−0.3			
			LZ	$M_S=5.2$		18.0	0.88	
BTO	91.7	29	eP	17 38 03.0	1.5			
LZH	92.9	36	eP	17 38 07.5	0.1			
			PMZ	$m_b=5.8$		2.5	0.12	
			pP	17 38 16.0	3.3			
			LZ	$M_S=4.9$		25.0	0.60	
BJI	94.3	26	eP	17 38 13.5	−0.1			
TIY	95.1	29	eP	17 38 18.1	0.9			

JUN 9d 21h 38m 21.0 ± 0.04s, SD1.41 / 133
1.27 N ± 0.68km, 123.44 E ± 0.87km, h33 ± 0.11km
Minahassa Peninsula (Celebes) (265)
M_S4.9 / 31, m_B5.2 / 2, m_b5.1 / 29

QZN	22.1	324	eP	21 43 15.5	0.0			
			sP	21 43 25.0	−3.5			
			S	21 47 11.0	−0.8			
			LN	$M_S=4.9$		15.0	2.19	
			LE			16.0	1.35	
GZH	23.8	336	+P	21 43 33.0	1.0			
			pP	21 43 42.0	1.0			
			S	21 47 47.0	5.2			
			LN	$M_S=5.0$		15.0	2.40	
			LE			15.0	1.40	
			LZ	$M_S=5.0$		14.0	3.10	
QZH	24.0	349	P	21 43 32.0	−1.9			
			eS	21 47 47.0	1.1			
			LN	$M_S=4.6$		14.0	0.95	
			LZ	$M_S=4.6$		16.0	1.54	
SSE	29.7	356	eP	21 44 23.0	−3.9			
			sP	21 44 39.0	−1.1			
			S	21 49 17.0	−2.0			
			LN	$M_S=4.9$		14.0	1.49	
			LZ	$M_S=4.4$		20.0	0.92	
GYA	29.8	329	P	21 44 27.8	0.3			
			S	21 49 25.0	5.2			
			LN	$M_S=4.9$		15.0	1.30	
			LE			15.0	1.10	
			LZ	$M_S=4.6$		16.0	1.20	
WHN	30.4	344	eP	21 44 32.0	−0.4			
			pP	21 44 42.0	0.4			
			S	21 49 32.0	3.1			
			LN	$M_S=5.1$		16.0	2.16	
			LE			14.0	1.00	
			LZ	$M_S=4.8$		12.0	1.32	
NJ2	30.9	352	+P	21 44 37.4	0.0			
			S	21 49 39.0	1.4			
			LN	$M_S=4.7$		14.0	0.69	
			LE			14.0	0.65	
			LZ	$M_S=4.3$		18.0	0.60	
KMI	31.0	322	+P	21 44 40.0	1.4			
			pP	21 44 48.5	1.1			
			LE	$M_S=4.7$		13.0	0.80	
			LZ	$M_S=4.8$		16.0	1.80	
CD2	34.9	330	eP	21 45 10.5	−1.4			
			epP	21 45 20.5	−0.6			
			eS	21 50 40.0	−0.3			
			LN	$M_S=4.9$		12.5	0.92	
			LZ	$M_S=4.6$		18.0	0.91	
TIA	35.3	351	eP	21 45 14.0	−1.0			
			S	21 50 45.0	−0.1			
			LN	$M_S=4.9$		17.0	1.01	
			LE			15.0	0.63	
XAN	35.3	339	P	21 45 15.3	−0.3			
			S	21 50 49.0	3.0			
			LN	$M_S=5.1$		14.0	1.71	
DL2	37.5	358	eP	21 45 34.0	0.1			
			S	21 51 20.0	0.6			
			LZ	$M_S=4.6$		14.0	0.60	
TIY	37.7	346	+P	21 45 35.8	0.5			
			S	21 51 23.0	1.1			
			LN	$M_S=5.0$		16.0	1.56	
			LZ	$M_S=5.0$		16.0	1.79	
LZH	39.1	334	−P	21 45 47.5	−0.1			
			PMZ	$m_b=5.5$		2.5	0.19	
			PMZ	$m_B=5.2$		8.0	0.30	
			pP	21 45 57.0	0.2			
			PP	21 47 23.0	1.6			
			eS	21 51 42.5	−2.9			
			sS	21 51 58.0	−2.6			
			SS	21 54 30.0	0.3			
			LN	$M_S=5.0$		17.0	0.90	
			LE			16.0	1.20	
			LZ	$M_S=5.0$		18.0	2.20	
BJI	39.2	351	eP	21 45 46.5	−1.2			
			PMZ	$m_b=4.7$		1.0	0.014	
			eS	21 51 44.0	−1.5			
			LZ	$M_S=4.5$		40.0	1.48	
SNY	40.4	0	eP	21 45 57.6	−0.2			
			S	21 52 00.0	−2.9			
			LZ	$M_S=4.7$		20.0	1.03	
HHC	40.8	346	+P	21 46 02.2	0.3			
			S	21 52 08.0	−1.8			
			LE	$M_S=4.7$		14.0	0.52	
			LZ	$M_S=4.9$		16.0	1.31	
BTO	41.0	344	P	21 46 03.5	0.3			
			PP	21 47 43.0	2.1			
			S	21 52 14.0	1.8			
			LN	$M_S=5.2$		15.0	1.60	
			LE			15.0	1.20	
			LZ	$M_S=4.8$		15.0	1.10	
LSA	41.7	316	eP	21 46 11.0	1.4			
CN2	42.4	2	eP	21 46 14.0	−0.4			
			eS	21 52 32.0	−1.6			
			LZ	$M_S=4.4$		23.0	0.60	
MDJ	43.5	6	eP	21 46 24.0	0.4			
GTA	43.7	333	P	21 46 25.4	0.5			
			PMZ	$m_b=5.1$		1.0	0.028	
			pP	21 46 35.2	1.0			
			PcP	21 48 16.0	4.4			
			S	21 52 48.0	−3.2			
			sS	21 53 06.0	−1.7			

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			ScS	21 56 21.0	2.6			
			LE	$M_S=5.0$		15.0	1.00	
			LZ	$M_S=5.1$		18.0	2.21	
WMQ	52.9	328	P	21 47 36.7	−0.3			
			S	21 55 06.0	4.4			
			LZ	$M_S=4.7$		20.0	0.79	
KSH	57.6	317	eP	21 48 12.0	1.4			
			S	21 56 09.0	5.5			
			SME			8.0	1.10	

JUN 10d 05h 00m 53.4 ± 0.04s, SD1.40 / 242
62.38 N ± 0.55km, 124.28 W ± 0.73km, h10 ± 0.12km
Northwest Territories (679)
m_b4.8 / 55,

CN2	60.4	309	−P	05 11 05.2	−1.0			
SNY	62.8	309	eP	05 11 21.8	−0.5			
BJI	67.0	313	eP	05 11 47.0	−2.4			
BTO	68.5	318	eP	05 11 59.0	0.1			
TIA	70.1	311	eP	05 12 08.3	−0.4			
WMQ	71.1	336	P	05 12 14.8	0.1			
GTA	72.5	326	P	05 12 23.8	0.4			
SSE	73.2	305	eP	05 12 26.0	−1.3			
			eS	05 21 52.0	−2.6			
NJ2	73.2	308	+P	05 12 26.6	−0.8			
LZH	74.5	321	−P	05 12 35.0	0.0			
			PMZ	$m_b=5.3$		1.6	0.049	
			LZ	$M_S=4.9$		18.0	0.60	
XAN	74.9	316	P	05 12 35.7	−1.2			
WHN	76.2	311	+P	05 12 45.0	0.4			
			PcP	05 12 58.5	2.5			
CD2	79.4	319	eP	05 13 02.6	0.5			
GYA	82.6	315	P	05 13 19.6	0.4			

JUN 10d 05h 41m 40.1 ± 0.08s, SD3.75 / 10
56.79 S ± 2.40km, 25.10 W ± 2.13km, h30 ± 0.25km
South Sandwich Islands region (153)
m_b4.8 / 3,

TIY	146.2	106	ePKP	06 01 18.1	0.5			
TIA	147.4	113	ePKP	06 01 23.4	3.7			
BJI	149.8	107	ePKP	06 01 28.5	5.0			

JUN 11d 05h 43m 03.3 ± 0.04s, SD1.41 / 91
7.28 S ± 1.14km, 118.75 W ± 1.73km, h30 ± 0.29km
East Central Pacific Ocean (693)
m_b5.2 / 19,

BJI	121.2	313	ePKP	06 01 54.5	0.0			
TIY	124.7	311	ePKP	06 02 02.3	0.8			
			LZ	$M_S=5.1$		24.0	0.54	
LZH	131.7	313	ePKP	06 02 14.0	−1.0			
			PPMZ			2.0	0.057	
			PKS	06 05 41.5	−7.0			
			LZ	$M_S=5.1$		25.0	0.47	
WMQ	136.9	332	PKP	06 02 21.5	−3.0			
			PP	06 05 05.5	−4.3			
			LZ	$M_S=5.0$		24.0	0.31	
KSH	145.3	340	−PKP	06 02 41.0	1.5			

JUN 11d 14h 47m 58.6 ± 0.15s, SD1.87 / 25
23.62 N ± 1.00km, 121.59 E ± 1.18km, h5 ± km
Taiwan (244)
M_S3.8 / 7, M_L4.1 / 8, m_b4.6 / 2

QZH	3.0	296	−Pn	14 48 48.4	0.8			
			Sn	14 49 23.3	−3.1			
			SMN	$M_L=4.1$		1.1	0.99	
			SME			0.9	0.54	
			LN	$M_S=3.8$		8.0	1.23	
			LE			7.0	1.01	
SSE	7.5	357	ePn	14 49 51.5	3.1			
			SMN	$M_L=3.8$		1.2	0.029	
			SME			1.2	0.039	
			LN	$M_S=3.9$		6.0	0.45	
NJ2	8.7	345	−P	14 50 08.3	−0.5			
			S	14 51 46.5	−2.2			
			SMN	$M_L=4.3$		1.0	0.077	
			SME			1.0	0.055	
			LN	$M_S=3.7$		7.0	0.25	
			LE			8.0	0.19	
			LZ	$M_S=3.6$		10.0	0.32	
WHN	9.4	318	eP	14 50 17.5	−1.0			
QZN	11.9	250	eP	14 50 51.9	0.2			
GYA	13.8	285	P	14 51 19.0	1.0			
			sP	14 51 29.0	3.9			
			S	14 53 50.8	−1.7			
			LN	$M_S=4.0$		10.0	0.40	
			LE			10.0	0.10	
TIY	16.1	333	eP	14 51 52.0	4.4			
			eS	14 54 52.0	5.2			
			LN	$M_S=4.0$		8.0	0.28	
			LZ	$M_S=4.1$		10.0	0.51	

JUN 11d 16h 23m 48.0 ± 0.06s, SD3.62 / 9
22.52 N ± 0.64km, 114.90 E ± 0.52km, h24 ± 0.59km
Near south-eastern coast of China (242)
M_L3.3 / 9,

GZH	1.5	292	−iPg	16 24 13.6	−1.9			
			Sg	16 24 32.8	−4.0			
			SMN	$M_L=3.5$		0.3	0.55	
			SME			0.3	0.51	
QZH	4.2	54	ePg	16 25 00.9	−0.6			
			eSg	16 25 53.6	−4.7			
			SMZ	$M_L=3.1$		0.6	0.024	
QZN	5.9	235	ePn	16 25 13.2	−0.7			
			eSn	16 26 21.0	−1.4			

JUN 11d 18h 35m 35.4 ± 0.07s, SD2.98 / 20
36.09 N ± 0.65km, 100.17 E ± 0.69km, h22 ± 0.20km
Qinghai Province (325)
M_L4.0 / 10,

LZH	3.0	89	ePn	18 36 25.0	3.0			
			Pg	18 36 27.0	−1.0			
			Sn	18 36 59.5	0.9			
			Sg	18 37 05.0	−3.8			
			SMN	$M_L=4.4$		1.0	1.38	
			SME			1.0	1.48	
GTA	3.3	355	Pn	18 36 29.8	2.9			
			Pg	18 36 34.1	−0.2			
			Sg	18 37 17.8	−2.0			
			SMN	$M_L=4.1$		1.0	0.96	
			SME			1.0	0.16	
			SMZ	$M_L=4.1$		1.0	0.38	
CD2	6.0	149	Pg	18 37 23.2	2.1			
BTO	8.9	57	eP	18 37 50.0	3.3			
WMQ	12.3	313	eP	18 38 27.5	−4.8			
			S	18 40 51.0	1.9			
NJ2	16.0	99	eP	18 39 21.0	0.0			

JUN 11d 18h 57m 00.2 ± 0.06s, SD2.92 / 19
27.89 N ± 0.59km, 102.95 E ± 0.67km, h11 ± 0.09km
Sichuan Province (307)
M_L3.5 / 11,

KMI	2.7	184	+Pn	18 57 45.0	0.2			
			Sn	18 58 19.5	−0.1			
			SMN			3.0	0.20	
			SME			4.0	0.10	
			LN			6.0	0.90	
CD2	3.1	13	Pn	18 57 50.6	1.1			

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			Pg	18 57 57.3	2.5		
			Sg	18 58 38.0	1.0		
			SMN	$M_L=3.7$		0.8	0.16
			SME			0.8	0.37
GYA	3.6	112	Pn	18 58 01.0	4.4		
			Sn	18 58 39.6	−1.4		
			Sg	18 58 55.0	1.9		
			SMN	$M_L=3.3$		1.2	0.090
			SME			1.2	0.070
XAN	8.0	38	P	18 58 56.4	−3.0		
			SMN	$M_L=4.1$		1.0	0.070
			SME			1.0	0.030
WHN	10.3	72	P	18 59 34.0	2.6		

JUN 12d 05h 40m 54.8 ± 0.05s, SD4.23 / 5
44.75 N ± 0.51km, 81.14 E ± 0.37km, h8 ± 0.06km
Kazakhstan–Xinjiang border region (331)
M_L3.0 / 4,

WMQ	4.8	99	ePg	05 42 22.8	3.0		
			Sg	05 43 22.2	−3.2		
			SMN	$M_L=2.9$		0.6	0.016
			SME			0.6	0.016

JUN 12d 08h 00m 11.8 ± 0.04s, SD0.93 / 76
2.85 S ± 0.52km, 130.37 E ± 0.79km, h34 ± 0.13km
Seram (272)
M_S4.3 / 1, m_b5.1 / 20,

QZN	29.7	318	eP	08 06 17.5	0.6		
SSE	34.9	346	−P	08 07 02.3	−0.1		
			PMZ	$m_b=4.8$		1.0	0.014
			pP	08 07 08.5	−3.3		
NJ2	36.4	343	−P	08 07 16.2	0.9		
WHN	36.6	336	+P	08 07 18.0	1.3		
			PMZ	$m_b=4.6$		0.9	0.010
GYA	37.1	323	P	08 07 21.8	0.7		
KMI	38.6	318	+P	08 07 35.5	1.2		
			PMZ	$m_b=5.2$		1.0	0.040
XAN	41.9	333	P	08 08 00.0	−1.1		
CD2	42.1	325	P	08 08 02.0	−0.6		
TIY	43.7	339	−P	08 08 15.2	−0.3		
			eS	08 14 45.0	2.1		
			LZ	$M_S=4.4$		14.0	0.36
BJI	44.6	344	eP	08 08 23.0	−0.2		
			PMZ	$m_b=5.1$		1.0	0.030
SNY	44.9	353	−P	08 08 25.8	0.4		
			LZ	$M_S=4.4$		20.0	0.48
LZH	46.0	330	−P	08 08 34.8	0.5		
			PMZ	$m_b=5.1$		1.5	0.044
			pP	08 08 38.7	−5.0		
			sP	08 08 49.0	1.3		
			LZ	$M_S=4.2$		16.0	0.24
CN2	46.6	355	+P	08 08 39.0	−0.3		
HHC	46.8	340	eP	08 08 40.3	0.0		
MDJ	47.3	359	−P	08 08 44.5	0.4		
GTA	50.6	329	P	08 09 08.8	−1.1		
WMQ	60.2	326	P	08 10 17.5	−1.7		
KSH	65.3	316	P	08 10 54.0	0.6		

JUN 12d 11h 43m 03.8 ± 0.05s, SD2.13 / 73
36.12 N ± 0.72km, 100.10 E ± 0.61km, h31 ± 0.05km
Qinghai Province (325)
M_S4.2 / 20, M_L4.6 / 11, m_b4.4 / 15

LZH	3.0	89	−iPn	11 43 52.4	2.1		
			Pg	11 43 57.0	−0.6		
			Sg	11 44 34.9	−4.3		
			SMN	$M_L=4.9$		1.5	4.73
			SME			1.5	5.17
			LN	$M_S=4.6$		5.0	4.53
			LE			5.0	4.73
GTA	3.3	356	Pn	11 43 56.6	2.7		
			Pg	11 44 02.2	0.0		
			Sn	11 44 35.0	1.6		
			Sg	11 44 45.0	−2.5		
			SMN	$M_L=3.9$		1.0	0.33
			SME			1.0	0.45
			LE	$M_S=3.9$		8.0	1.92
			LZ	$M_S=3.9$		10.0	1.79
XAN	7.5	103	Pn	11 44 50.6	−1.3		
			Pg	11 45 16.3	−0.4		
			Sn	11 46 15.5	−2.6		
			Sg	11 46 55.0	−4.6		
			SMN	$M_L=4.6$		1.2	0.21
			SME			1.5	0.20
			LN	$M_S=4.4$		5.0	1.06
			LE			5.0	0.43
BTO	9.0	57	eP	11 45 14.0	−0.6		
			eS	11 46 57.0	1.2		
			LN	$M_S=4.1$		10.0	0.70
			LE			10.0	0.60
TIY	10.0	77	eP	11 45 27.0	−1.7		
			S	11 47 18.5	−2.2		
			LE	$M_S=4.2$		7.0	0.78
			LZ	$M_S=4.4$		7.0	1.38
HHC	10.1	59	eP	11 45 31.0	0.2		
GYA	11.1	148	P	11 45 43.6	−0.7		
			pP	11 45 49.6	−1.4		
			S	11 47 48.4	0.0		
			LN	$M_S=4.3$		8.0	0.50
			LE			8.0	0.70
WMQ	12.2	313	−iP	11 45 57.0	−1.9		
			S	11 48 12.0	−2.6		
			LE	$M_S=4.4$		12.0	1.34
			LZ	$M_S=4.2$		9.0	0.78
WHN	13.1	111	eP	11 46 11.1	0.0		
			sP	11 46 22.0	−0.7		
			eS	11 48 36.0	−1.3		
			LN	$M_S=4.6$		7.0	0.93
			LE			8.0	1.04
BJI	13.3	68	eP	11 46 13.0	0.4		
			PMZ	$m_b=4.3$		1.0	0.0060
			LN	$M_S=4.1$		8.0	0.26
			LE			8.0	0.36
			LZ	$M_S=4.0$		12.0	0.66
SSE	18.3	100	eP	11 47 19.0	2.3		
			pP	11 47 28.0	3.9		
			eS	11 50 38.0	1.6		
			LE	$M_S=3.9$		10.0	0.21
			LZ	$M_S=4.1$		10.0	0.48
QZN	19.1	151	eP	11 47 29.0	2.4		
			PcP	11 51 53.0	3.1		
			eS	11 50 56.0	1.3		
			LN	$M_S=4.4$		9.0	0.29
			LE			11.0	0.55
SNY	19.1	66	+P	11 47 28.6	1.7		
			LE	$M_S=4.2$		6.0	0.26
CN2	20.8	61	eP	11 47 47.4	1.8		
			PMZ	$m_b=4.4$		1.0	0.020
			epP	11 47 56.0	2.0		
			LN	$M_S=4.2$		7.0	0.20
			LE			7.0	0.20
			LZ	$M_S=4.2$		14.0	0.60
MDJ	23.9	60	eP	11 48 19.5	3.3		

JUN 13d 02h 44m 07.9 ± 0.04s, SD1.23 / 230
9.50 N ± 0.81km, 138.25 E ± 0.84km, h20 ± 0.11km
Western Caroline Islands (209)

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M_S5.1 / 47, m_B5.7 / 17, m_b5.5 / 58

QZH	24.2	312	+P	02 49 24.0	−0.5			
			PMZ	m_B = 5.9		4.0	1.78	
			sP	02 49 34.0	−0.7			
			S	02 53 37.0	−1.3			
			sS	02 53 48.0	−2.4			
			LN	M_S = 4.9		14.0	2.04	
			LZ	M_S = 4.9		16.0	2.97	
SSE	26.7	326	eP	02 49 48.0	−0.2			
			PMZ	m_b = 5.4		1.4	0.13	
			PMZ	m_B = 5.1		12.0	0.54	
			pP	02 49 56.0	0.8			
			PP	02 50 30.0	−2.3			
			PcP	02 53 10.5	−0.8			
			S	02 54 20.0	−0.2			
			sS	02 54 30.0	−2.6			
			LN	M_S = 5.1		14.0	2.16	
			LE			15.0	1.83	
			LZ	M_S = 4.7		20.0	2.21	
GZH	27.4	303	+P	02 49 54.4	−0.1			
			LN	M_S = 5.1		13.0	1.42	
			LE			16.0	2.23	
			LZ	M_S = 4.9		18.0	2.70	
NJ2	28.7	324	+P	02 50 06.5	−0.2			
			pP	02 50 12.0	−1.7			
			sP	02 50 16.5	−0.5			
			eS	02 54 52.0	−1.7			
			LN	M_S = 5.0		12.0	1.03	
			LE			13.0	1.25	
			LZ	M_S = 4.6		20.0	1.53	
QZN	29.1	292	P	02 50 09.6	0.0			
			pP	02 50 15.5	−1.1			
			sP	02 50 19.0	−0.9			
			PP	02 51 05.0	1.9			
			S	02 54 56.0	−2.1			
			LN	M_S = 5.0		13.0	1.22	
			LE			15.0	1.72	
WHN	30.6	317	+P	02 50 24.0	1.1			
			PMZ	m_B = 5.8		4.0	0.61	
			pP	02 50 30.0	0.0			
			S	02 55 28.0	6.1			
			LN	M_S = 5.2		17.0	3.20	
			LE			9.0	0.81	
			LZ	M_S = 4.6		20.0	1.38	
TIA	32.8	327	+P	02 50 41.5	−1.0			
			PMZ	m_b = 5.3		1.8	0.10	
			PMZ			17.0	0.50	
			PcS	02 57 11.0	0.1			
			LN	M_S = 5.2		16.0	2.60	
			LE			16.0	2.00	
			LZ	M_S = 5.1		17.0	2.90	
DL2	32.8	336	P	02 50 43.0	0.1			
			PMZ	m_b = 5.8		1.0	0.16	
			pP	02 50 50.0	0.0			
			S	02 56 00.0	2.4			
			LN	M_S = 5.3		14.0	1.82	
			LE			15.0	2.66	
			LZ	M_S = 4.9		16.0	1.80	
GYA	34.3	304	+iP	02 50 57.0	1.3			
			PMZ	m_b = 5.5		1.2	0.10	
			sP	02 51 07.0	1.1			
			PcP	02 53 32.6	1.5			
			sS	02 56 38.0	5.1			
			LN	M_S = 5.2		16.0	1.50	
			LE			16.0	2.00	
			LZ	M_S = 4.8		18.0	1.60	
SNY	34.7	341	+iP	02 50 58.0	−0.9			
			PMZ	m_b = 6.1		1.4	0.44	
			pP	02 51 03.0	−3.0			
			sP	02 51 09.0	−0.2			
			PP	02 52 16.0	0.6			
			SME				6.0	0.48
			LN	M_S = 5.1			15.0	1.50
			LE				15.0	1.37
			LZ	M_S = 5.2			16.0	3.11
MDJ	35.8	349	eP	02 51 07.7	−0.5			
			pP	02 51 16.0	0.8			
			PP	02 52 32.0	3.4			
			S	02 56 40.0	−2.9			
			LN	M_S = 5.0			16.0	1.45
			LZ	M_S = 5.0			20.0	2.33
CN2	35.9	344	+P	02 51 08.4	−1.1			
			PMZ	m_b = 5.4			1.0	0.070
			pP	02 51 14.5	−2.1			
			ePP	02 52 28.0	−2.6			
			PcP	02 53 34.0	−1.8			
			eS	02 56 42.0	−4.3			
			ScP	02 57 22.0	2.4			
			LN	M_S = 5.2			18.0	3.00
			LE				18.0	0.70
			LZ	M_S = 5.1			18.0	3.00
BJI	36.2	331	eP	02 51 11.5	−0.2			
			PMZ	m_b = 5.8			1.5	0.28
			epP	02 51 18.0	−0.8			
			ePcP	02 53 37.0	0.4			
			eS	02 56 52.0	1.6			
			LE	M_S = 4.7			11.0	0.54
			LZ	M_S = 4.8			20.0	1.80
XAN	36.3	317	P	02 51 13.0	0.1			
			S	02 56 53.0	1.5			
			LN	M_S = 5.1			13.0	1.17
			LE				13.0	0.83
TIY	36.5	324	+iP	02 51 14.4	0.3			
			pP	02 51 25.0	3.9			
			S	02 56 56.0	2.4			
			LN	M_S = 5.1			17.0	2.00
			LZ	M_S = 5.0			18.0	2.07
KMI	37.1	299	+P	02 51 21.5	1.6			
			PMZ	m_b = 5.7			1.5	0.20
			PMZ	m_B = 5.7			4.0	0.60
			pP	02 51 27.5	0.8			
			sP	02 51 32.0	2.0			
			sS	02 57 22.0	5.4			
			LN	M_S = 5.0			20.0	1.80
			LZ	M_S = 5.2			18.0	3.90
CD2	38.5	309	P	02 51 31.6	0.6			
			PMZ	m_b = 5.7			1.4	0.17
			S	02 57 26.5	2.0			
			LN	M_S = 4.9			11.0	0.85
			LZ	M_S = 4.8			20.0	1.34
HHC	39.1	327	P	02 51 37.0	0.4			
			PMZ	m_b = 5.9			1.2	0.23
			pP	02 51 49.0	5.4			
			S	02 57 40.0	5.6			
			LN	M_S = 5.2			18.0	2.14
			LE				16.0	0.77
			LZ	M_S = 5.1			20.0	2.74
BTO	39.8	326	+iP	02 51 43.0	0.9			
			pP	02 51 49.0	−0.1			
			ePP	02 53 16.5	−0.9			
			S	02 57 48.0	3.6			
			sS	02 57 57.0	−0.2			
			LN	M_S = 5.3			16.0	1.50
			LE				16.0	1.90
			LZ	M_S = 5.1			16.0	2.20
LZH	40.9	316	+P	02 51 52.5	1.1			

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			PMZ		$m_b = 5.4$		2.0	0.12
			PMZ		$m_B = 5.7$		5.0	0.70
			pP	02 51 59.5		1.1		
			sP	02 52 03.0		1.4		
			PP	02 53 33.0		4.4		
			ScP	02 57 34.0		−4.5		
			S	02 58 05.0		3.9		
			SMN				18.0	1.02
			sS	02 58 16.0		2.1		
			eSS	03 01 00.0		1.4		
			LN		$M_S = 5.1$		15.0	1.22
			LE				15.0	0.86
			LZ		$M_S = 5.1$		18.0	2.33
GTA	45.4	317	P	02 52 27.8		0.2		
			PMZ		$m_b = 5.3$		1.4	0.058
			PMZ		$m_B = 5.6$		5.0	0.50
			pP	02 52 34.2		−0.4		
			PcP	02 54 06.6		0.3		
			PP	02 54 13.4		−0.3		
			S	02 59 08.0		2.0		
			sS	02 59 18.0		−1.0		
			ScS	03 02 25.0		5.4		
			LE		$M_S = 4.9$		15.0	0:84
			LZ		$M_S = 5.1$		20.0	2.04
LSA	48.3	301	P	02 52 51.0		0.1		
WMQ	55.5	317	+iP	02 53 44.0		−0.3		
			PMZ		$m_B = 6.0$		4.0	0.92
			PcP	02 54 44.0		0.7		
			S	03 01 29.0		3.5		
			LN		$M_S = 5.1$		15.0	0.68
			LE				14.0	0.50
			LZ		$M_S = 4.7$		20.0	0.72
KSH	62.7	310	P	02 54 35.0		0.3		
			PP	02 56 53.0		−0.3		
			eS	03 03 04.0		2.9		
			esS	03 03 19.0		6.1		

JUN 13d 02h 55m 02.9 ± 0.06s, SD2.94 / 8
31.46 N ± 0.40km, 104.10 E ± 0.57km, h18 ± 0.33km
Sichuan Province (307)
M_L3.4 / 6,

CD2	0.6	208	Pg	02 55 13.6		−0.8		
			Sg	02 55 23.2		0.1		
			SMN		$M_L = 3.0$		1.0	0.71
			SME				0.6	0.52

JUN 13d 15h 59m 58.7 ± 0.04s, SD1.21 / 365
37.31 N ± 0.57km, 116.37 W ± 0.58km, h1 ± 0.11km
California–Nevada border region (40)
M_S6.7 / 1, m_b5.6 / 99,

MDJ	79.0	318	eP	16 12 06.0		−0.8		
CN2	81.7	320	P	16 12 20.5		−0.8		
			PMZ		$m_b = 5.6$		1.0	0.060
			eS	16 22 32.0		−2.6		
SNY	84.1	319	+P	16 12 34.1		0.6		
			PMZ		$m_b = 6.0$		1.6	0.20
DL2	87.3	319	+P	16 12 49.0		−0.1		
			PMZ		$m_b = 6.6$		1.2	0.63
BJI	89.2	322	eP	16 12 58.5		0.2		
HHC	90.7	326	P	16 13 05.8		0.3		
BTO	91.6	327	eP	16 13 10.0		0.4		
TIA	91.6	319	+P	16 13 09.7		0.0		
			PMZ		$m_b = 5.9$		1.4	0.10
TIY	92.8	323	−P	16 13 15.4		0.2		
SSE	93.3	314	+P	16 13 17.5		0.4		
			PMZ		$m_b = 6.0$		1.2	0.083
NJ2	93.9	316	+P	16 13 20.0		0.0		
WMQ	96.4	343	eP	16 13 29.5		−2.0		
GTA	96.7	333	eP	16 13 32.0		−1.2		
			PMZ		$m_b = 5.4$		1.2	0.0090
XAN	97.4	323	P	16 13 36.0		−0.4		
			LE		$M_S = 6.7$		4.0	2.80
WHN	97.5	318	eP	16 13 36.5		0.0		
LZH	98.0	328	eP	16 13 39.0		0.0		
			PP	16 17 37.5		−2.0		

JUN 13d 16h 32m 57.1 ± 0.05s, SD2.12 / 54
40.03 N ± 0.64km, 106.30 E ± 0.50km, h9 ± 0.05km
Northern China (323)
M_S4.3 / 6, M_L4.8 / 16, m_b4.6 / 4

BTO	2.9	78	Pn	16 33 46.6		2.7		
			Pg	16 33 50.8		2.5		
			Sn	16 34 22.0		1.3		
			Sg	16 34 28.8		0.9		
			SMN		$M_L = 4.1$		0.4	0.73
			SME				0.4	0.77
HHC	4.1	77	+iPn	16 34 02.6		2.2		
			Pg	16 34 13.6		4.1		
			Sn	16 34 50.0		−0.4		
			Sg	16 35 05.6		0.1		
			LN		$M_S = 4.3$		6.0	2.21
			LE				6.0	1.30
LZH	4.4	207	−iPn	16 34 06.4		2.0		
			Pg	16 34 19.0		4.4		
			Sn	16 34 58.0		0.5		
			Sg	16 35 15.0		0.4		
			SMN		$M_L = 4.6$		0.8	1.00
			SME				1.0	0.83
			LN		$M_S = 4.1$		7.0	1.75
TIY	5.3	114	+Pn	16 34 17.8		0.7		
			Pg	16 34 33.2		2.2		
			Sn	16 35 19.0		−1.6		
			Sg	16 35 39.5		−4.2		
			SMN		$M_L = 4.9$		0.6	1.67
			SME				0.6	0.65
XAN	6.3	160	Pn	16 34 34.8		3.7		
			Pg	16 34 53.0		4.0		
			Sn	16 35 44.0		−1.8		
			SMN		$M_L = 5.0$		0.6	0.42
			SME				1.5	1.57
			LE		$M_S = 4.7$		4.0	2.80
BJI	7.6	87	Pg	16 35 12.0		1.0		
			SMN		$M_L = 4.6$		0.5	0.18
			SME				0.5	0.21
CD2	9.3	194	P	16 35 14.4		−0.7		
			eS	16 37 00.0		−1.3		
TIA	9.3	111	P	16 35 14.6		−0.6		
			S	16 37 03.0		1.8		
			SMN				1.0	0.020
			SME				1.0	0.050
WHN	11.5	143	eP	16 35 44.0		−1.0		
			pP	16 35 47.0		−2.5		
			LE		$M_S = 4.1$		10.0	0.63
NJ2	12.9	124	eP	16 36 02.0		−1.6		
GYA	13.5	179	P	16 36 15.2		3.0		
			S	16 38 48.0		4.7		
WMQ	14.3	291	P	16 36 22.5		−0.3		
			LZ		$M_S = 4.0$		9.0	0.39
CN2	14.7	69	eP	16 36 30.0		2.1		
			eS	16 39 12.0		−0.5		
			LZ		$M_S = 3.6$		16.0	0.30
KMI	15.1	192	eP	16 36 35.0		1.7		

JUN 13d 16h 41m 53.3 ± 0.04s, SD1.26 / 197
6.39 N ± 0.65km, 126.41 E ± 0.88km, h77 ± 0.16km
Mindanao (259)

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M_S4.9 / 36, m_B5.4 / 11, m_b5.4 / 72

QZH	19.9	339	eP	16 46 24.0	2.6			
			S	16 50 00.0	4.2			
			LN	M_S=4.7		16.0	1.43	
			LE			16.0	1.51	
			LZ	M_S=4.7		16.0	2.37	
QZN	20.4	309	P	16 46 27.9	0.9			
			pP	16 46 47.0	4.1			
			iS	16 50 07.0	0.1			
GZH	20.8	324	P	16 46 33.0	2.1			
			PMZ	m_b=5.4		1.0	0.20	
			iS	16 50 18.0	3.9			
			SMN			12.0	5.60	
			SME			12.0	3.90	
SSE	25.1	349	eP	16 47 13.0	0.7			
			PMZ	m_b=5.3		1.5	0.14	
			PMZ	m_B=5.3		6.0	0.54	
			pP	16 47 33.0	3.6			
			sP	16 47 43.0	4.0			
			S	16 51 30.0	2.2			
			sS	16 52 02.0	3.4			
			eSS	16 52 36.0	3.2			
			ScP	16 54 14.0	−2.2			
			LN	M_S=4.8		10.0	0.76	
			LE			10.0	0.99	
			LZ	M_S=4.5		20.0	1.38	
NJ2	26.5	345	+P	16 47 26.0	0.5			
			PMZ	m_b=4.9		1.0	0.030	
			S	16 51 55.0	3.6			
			ScP	16 54 24.3	4.0			
			LN	M_S=4.6		10.0	0.48	
			LE			11.5	0.59	
WHN	26.6	336	eP	16 47 26.5	0.2			
			PMZ	m_b=5.2		1.0	0.060	
			PMZ	m_B=5.4		5.0	0.42	
			S	16 51 56.0	3.3			
			iScS	16 58 14.0	4.4			
			LN	M_S=4.9		14.0	1.54	
			LE			11.0	0.76	
GYA	27.4	319	P	16 47 38.4	4.0			
			PcP	16 50 51.0	0.1			
			S	16 52 06.0	−0.8			
			ScP	16 54 25.0	1.9			
			ScS	16 58 17.0	3.6			
KMI	29.3	312	+P	16 47 51.5	−0.1			
			PMZ	m_b=5.2		2.0	0.10	
			sP	16 48 15.0	−3.5			
			S	16 52 39.5	2.2			
			LN	M_S=5.1		9.0	1.40	
			LZ	M_S=5.2		10.0	2.70	
TIA	30.9	345	P	16 48 04.7	−0.3			
			PMZ	m_b=5.4		1.4	0.090	
			S	16 53 00.0	−1.4			
			LN	M_S=4.9		10.0	0.81	
			LE			10.0	0.76	
XAN	31.9	332	P	16 48 13.2	−1.0			
			S	16 53 16.0	−1.9			
			LN	M_S=5.2		8.0	1.03	
			LE			6.0	0.72	
CD2	32.3	322	P	16 48 16.5	−1.4			
			eS	16 53 22.0	−3.5			
			LE	M_S=4.8		13.0	1.07	
			LZ	M_S=4.9		16.0	1.78	
DL2	32.7	353	eP	16 48 21.0	0.5			
			PMZ	m_b=5.5		1.0	0.080	
			S	16 53 30.0	0.7			
			LN	M_S=4.8		12.0	0.68	
			LE			12.0	0.67	
			LZ	M_S=4.5		18.0	0.91	
TIY	33.7	340	−P	16 48 30.4	1.0			
			S	16 53 48.5	3.5			
			sS	16 54 20.0	3.1			
			LN	M_S=4.9		19.0	1.70	
			LZ	M_S=4.9		19.0	1.97	
BJI	34.7	346	eP	16 48 39.0	0.6			
			PMZ	m_b=6.1		1.5	0.42	
			eS	16 53 58.0	−4.4			
			esS	16 54 39.0	5.5			
			eScP	16 54 52.0	4.6			
			eScS	16 58 53.5	4.2			
			LE	M_S=4.5		10.0	0.31	
			LZ	M_S=4.5		20.0	0.90	
SNY	35.4	356	+P	16 48 43.3	−0.5			
			PMZ	m_b=5.4		1.3	0.088	
			S	16 54 08.0	−3.3			
			LN	M_S=4.9		15.0	1.00	
			LE			12.0	0.65	
			LZ	M_S=4.8		20.0	1.70	
LZH	36.1	328	+P	16 48 49.4	−0.6			
			PMZ	m_b=5.2		1.6	0.074	
			PMZ	m_B=5.6		6.0	0.57	
			pP	16 49 08.0	0.1			
			sP	16 49 17.0	−0.3			
			PP	16 50 18.0	5.5			
			PcP	16 51 15.0	0.8			
			S	16 54 22.0	−0.1			
			ScP	16 54 53.5	1.3			
			SME			5.0	0.68	
			sS	16 54 58.0	3.8			
			PcS	16 55 02.0	1.6			
			SS	16 56 54.0	4.5			
			ScS	16 58 57.2	0.6			
			LN	M_S=5.0		12.0	0.88	
			LE			12.0	0.71	
			LZ	M_S=5.1		30.0	5.32	
HHC	36.8	341	P	16 48 57.8	1.9			
			S	16 54 38.0	5.0			
			LN	M_S=4.7		10.0	0.31	
			LE			12.0	0.35	
			LZ	M_S=5.0		15.0	1.77	
BTO	37.1	339	P	16 48 59.0	0.6			
			pP	16 49 17.0	0.6			
			S	16 54 40.0	2.5			
			eSS	16 57 10.0	−1.6			
			LN	M_S=5.0		15.0	0.90	
			LE			12.0	0.80	
CN2	37.3	359	eP	16 49 00.6	0.8			
			epP	16 49 21.0	3.1			
			PcP	16 51 18.5	0.7			
			eS	16 54 45.0	3.8			
			ScS	16 59 04.0	0.7			
MDJ	38.2	4	+P	16 49 07.3	0.0			
			pP	16 49 25.0	−0.5			
			sP	16 49 40.0	5.1			
			S	16 54 55.0	1.0			
			sS	16 55 30.0	3.6			
			LN	M_S=4.7		14.0	0.69	
			LZ	M_S=4.8		28.0	2.21	
LSA	40.5	309	P	16 49 27.8	0.8			
			SME			3.0	0.45	
GTA	40.7	328	P	16 49 27.8	−0.4			
			PMZ	m_b=5.3		1.2	0.051	
			ScP	16 55 11.8	2.1			
			ScS	16 59 24.0	1.0			
			LE	M_S=5.2		15.0	1.67	
			LZ	M_S=5.2		26.0	4.66	

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WMQ	50.4	324	−iP	16 50 44.5	−0.8		
			ScP	16 55 50.0	0.4		
			S	16 57 49.0	−1.4		
			ScS	17 00 26.0	1.2		
			LN	$M_S=5.5$		16.0	1.47
			LE			16.0	2.03
			LZ	$M_S=5.1$		28.0	2.62
KSH	56.0	314	P	16 51 27.0	0.0		
			pP	16 51 49.0	3.2		
			S	16 59 08.0	1.4		
			LE	$M_S=5.2$		13.0	0.80

JUN 13d 23h 00m 43.2 ± 0.06s, SD1.76 / 98
5.80 N ± 0.88km, 124.60 E ± 1.25km, h71 ± 0.29km
Mindanao (259)
M_S4.6 / 21, m_B5.2 / 6, m_b4.9 / 13

QZN	19.5	314	eP	23 05 07.0	−0.3		
			S	23 08 39.0	1.3		
			sS	23 08 58.0	−3.5		
			SS	23 09 13.0	5.6		
			LN	$M_S=4.6$		13.0	0.89
			LE			14.0	1.17
QZH	19.9	344	eP	23 05 09.0	−2.6		
			S	23 08 46.0	−0.1		
			LE	$M_S=4.6$		10.0	0.92
			LZ	$M_S=4.4$		24.0	2.02
GZH	20.3	329	eP	23 05 19.0	2.8		
			eS	23 09 02.0	6.6		
			LE	$M_S=4.6$		15.0	1.40
SSE	25.4	353	eP	23 06 06.0	0.4		
			eS	23 10 26.0	1.4		
			sS	23 10 56.0	3.1		
			LN	$M_S=4.5$		14.0	0.75
			LE			14.0	0.32
			LZ	$M_S=4.2$		20.0	0.74
WHN	26.4	340	eP	23 06 13.0	−2.5		
			PMZ	$m_B=5.4$		6.0	0.58
			pP	23 06 28.0	−3.8		
			S	23 10 38.0	−3.5		
			LN	$M_S=4.4$		15.0	0.64
NJ2	26.7	349	−P	23 06 19.5	1.9		
			pP	23 06 30.5	−3.5		
			eS	23 10 50.0	4.1		
			LZ	$M_S=4.4$		20.0	1.04
KMI	28.4	315	−P	23 06 36.5	2.5		
			pP	23 06 49.5	−0.7		
			S	23 11 17.0	3.2		
			sS	23 11 48.0	4.8		
			LN	$M_S=4.4$		14.0	0.50
			LZ	$M_S=4.4$		16.0	0.70
TIA	31.0	348	eP	23 06 52.0	−4.8		
			S	23 11 56.0	1.2		
			LN	$M_S=4.7$		17.0	1.01
			LE			26.0	0.80
XAN	31.6	335	P	23 07 01.0	−1.1		
CD2	31.7	324	P	23 07 02.0	−1.0		
			eS	23 12 08.0	1.2		
DL2	33.1	356	eP	23 07 14.0	−0.5		
TIY	33.6	342	eP	23 07 17.2	−2.4		
			S	23 12 41.5	6.0		
			LN	$M_S=4.9$		18.0	1.45
			LZ	$M_S=4.5$		26.0	1.14
BJI	34.9	349	eP	23 07 29.0	−1.4		
			eS	23 12 56.0	−0.1		
			LZ	$M_S=4.3$		24.0	0.64
LZH	35.7	330	eP	23 07 36.7	−0.2		
			PMZ	$m_b=5.1$		2.0	0.061
			PMZ	$m_B=5.3$		8.0	0.42
			pP	23 07 51.0	−2.8		
			eS	23 13 08.0	0.1		
			SME			5.0	0.45
			LN	$M_S=4.9$		16.0	0.82
			LE			15.0	0.86
			LZ	$M_S=4.9$		16.0	1.60
SNY	35.9	359	eP	23 07 41.6	3.0		
			eS	23 13 12.0	1.0		
			LZ	$M_S=4.7$		18.0	1.19
HHC	36.8	343	eP	23 07 46.6	0.1		
			S	23 13 30.0	5.9		
			LZ	$M_S=4.9$		13.0	1.23
BTO	37.0	341	eP	23 07 47.5	−1.0		
			eS	23 13 27.0	−1.8		
			LN	$M_S=4.8$		15.0	0.50
			LE			15.0	0.80
CN2	37.9	1	eP	23 07 56.0	0.8		
			eS	23 13 44.0	2.9		
			LN	$M_S=4.6$		15.0	0.40
			LE			15.0	0.40
			LZ	$M_S=4.3$		18.0	0.40
MDJ	38.9	6	eP	23 08 06.0	2.1		
LSA	39.5	311	P	23 08 11.2	2.0		
GTA	40.2	330	P	23 08 15.2	0.0		
			PMZ	$m_b=4.7$		1.2	0.014
			S	23 14 22.0	5.8		
			LE	$M_S=4.8$		15.0	0.75
			LZ	$M_S=5.0$		20.0	1.98
WMQ	49.8	325	eP	23 09 31.2	−0.3		
			eS	23 16 39.0	4.2		
			LZ	$M_S=4.8$		20.0	1.08
KSH	55.1	315	eP	23 10 16.0	4.8		

JUN 13d 23h 48m 54.1 ± 0.06s, SD1.99 / 37
24.65 N ± 0.84km, 122.55 E ± 0.84km, h10 ± 0.43km
Taiwan region (243)
M_S4.0 / 9, M_L4.0 / 7, m_b4.3 / 7

QZH	3.6	275	ePn	23 49 51.5	1.0		
			Sn	23 50 32.0	−3.2		
			SMN	$M_L=4.0$		1.2	0.66
			SME			0.8	0.20
SSE	6.5	350	+P	23 50 33.0	0.1		
			PMZ	$m_b=4.1$		0.8	0.013
			SMN	$M_L=3.9$		1.1	0.062
			SME			1.2	0.083
			LN	$M_S=3.6$		12.0	0.56
			LZ	$M_S=3.6$		12.0	0.63
NJ2	8.1	337	eP	23 50 54.0	−0.3		
			LN	$M_S=3.9$		11.0	0.46
			LE			13.0	0.85
			LZ	$M_S=3.5$		10.0	0.32
WHN	9.3	311	eP	23 51 15.0	2.9		
			pP	23 51 17.5	0.6		
			eS	23 53 03.5	5.1		
			LN	$M_S=4.2$		13.0	0.99
			LE			8.0	0.60
GYA	14.5	281	P	23 52 26.0	4.8		
TIY	15.6	329	eP	23 52 40.7	4.3		
			LN	$M_S=4.1$		15.0	0.66
			LZ	$M_S=4.1$		14.0	0.73
CD2	17.7	295	P	23 53 02.6	−0.8		
HHC	18.6	333	eP	23 53 16.0	2.2		
BTO	19.1	330	eP	23 53 23.0	3.5		
CN2	19.3	6	eP	23 53 21.7	0.0		
GTA	24.2	313	eP	23 54 10.8	−1.2		

JUN 14d 03h 04m 25.9 ± 1.28s, SD4.54 / 8
34.93 N ± 9.99km, 80.78 E ± 3.42km, h10 ± km

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Tibet (306)
M_L4.8 / 5,

WMQ	10.4	29	eP	03 07 02.0	4.0			
			SMN			1.5	0.042	
			SME			1.5	0.065	

JUN 14d 03h 55m 22.4 ± 0.03s, SD0.90 / 208
56.71 N ± 0.41km, 155.44 W ± 0.41km, h49 ± 0.29km
Alaska Peninsula (12)
M_S4.9 / 1, m_b5.0 / 75,

MDJ	46.7	289	eP	04 03 48.2	−0.5			
CN2	49.4	291	+iP	04 04 09.4	−0.5			
SNY	51.8	290	+P	04 04 28.1	0.2			
			PMZ	m_b = 5.5		1.1	0.069	
DL2	54.9	289	eP	04 04 50.4	−0.8			
BJI	56.9	294	eP	04 05 04.5	−0.8			
			PMZ	m_b = 5.1		1.0	0.024	
HHC	58.6	297	+P	04 05 17.5	0.3			
BTO	59.5	298	P	04 05 24.0	0.2			
TIY	60.5	294	−P	04 05 30.5	−0.3			
			LN	M_S = 4.9		14.0	0.37	
			LZ	M_S = 4.6		25.0	0.56	
SSE	61.1	283	eP	04 05 34.5	0.0			
			PMZ	m_b = 4.7		1.0	0.010	
			sP	04 05 47.5	−4.7			
NJ2	61.6	286	+P	04 05 37.6	−0.3			
			pP	04 05 50.0	−0.5			
WHN	65.2	288	eP	04 06 00.0	−1.3			
			pP	04 06 14.0	−0.1			
XAN	65.2	294	P	04 06 01.5	0.0			
GTA	65.2	304	P	04 06 00.0	−2.1			
			PMZ	m_b = 5.4		1.2	0.060	
LZH	66.0	299	+P	04 06 07.2	0.0			
			PMZ	m_b = 5.3		1.4	0.061	
			pP	04 06 19.0	−0.7			
			LZ	M_S = 4.6		20.0	0.39	
WMQ	66.7	315	+iP	04 06 12.0	0.6			
GYA	72.4	291	P	04 06 48.0	1.6			
			sP	04 07 01.4	−2.9			
KSH	74.8	321	eP	04 07 01.0	0.8			
QZN	76.9	284	eP	04 07 12.8	0.9			
LSA	77.3	305	P	04 07 16.2	1.6			

JUN 14d 06h 28m 34.4 ± 0.04s, SD1.37 / 152
18.25 N ± 0.79km, 147.23 E ± 0.77km, h23 ± 0.12km
Marianas (216)
M_S5.1 / 28, m_B5.3 / 4, m_b5.0 / 42

SSE	26.8	303	eP	06 34 15.0	−0.3			
			PMZ	m_b = 4.5		1.0	0.010	
			pP	06 34 25.0	2.3			
			S	06 38 48.0	0.2			
			LZ	M_S = 4.5		20.0	1.17	
NJ2	29.0	304	+P	06 34 37.0	1.8			
			S	06 39 21.0	−2.2			
			LN	M_S = 5.0		14.0	1.64	
			LE			15.0	1.58	
			LZ	M_S = 4.7		16.0	1.53	
MDJ	30.2	334	+P	06 34 46.0	0.7			
			pP	06 34 52.0	−0.9			
			sP	06 34 56.0	−0.3			
			PP	06 35 48.0	4.6			
			iS	06 39 46.0	4.0			
			sS	06 39 58.0	3.4			
			LE	M_S = 5.2		14.0	2.62	
			LZ	M_S = 4.9		16.0	2.23	
DL2	30.3	318	P	06 34 46.8	0.2			
			S	06 39 45.0	1.5			
			LN	M_S = 5.1		14.0	1.82	
			LE			14.0	1.80	
			LZ	M_S = 4.7		16.0	1.44	
SNY	31.0	324	+P	06 34 51.0	−1.6			
			PMZ	m_b = 4.8		0.9	0.016	
			S	06 39 50.0	−4.0			
			LN	M_S = 5.1		12.0	1.01	
			LE			14.0	1.67	
			LZ	M_S = 4.9		20.0	2.73	
CN2	31.4	329	+P	06 34 55.5	−0.7			
			PMZ	m_b = 4.6		1.0	0.010	
			pP	06 35 05.0	1.3			
			eS	06 40 04.0	2.6			
			LN	M_S = 5.1		15.0	2.30	
			LE			15.0	1.10	
			LZ	M_S = 5.1		18.0	4.00	
TIA	32.0	310	eP	06 35 01.4	−0.3			
			LN	M_S = 5.1		15.0	1.60	
			LE			15.0	1.40	
			LZ	M_S = 4.9		16.0	2.10	
GZH	32.0	284	eP	06 35 00.0	−1.8			
			LE	M_S = 4.9		16.0	1.67	
WHN	32.2	299	eP	06 35 08.0	4.4			
			S	06 40 20.0	6.3			
			sS	06 40 32.0	4.8			
			LE	M_S = 5.0		13.0	1.43	
			LZ	M_S = 4.6		20.0	1.28	
BJI	34.5	316	eP	06 35 22.0	−1.0			
			PMZ	m_b = 5.2		1.5	0.052	
			eS	06 40 46.0	−3.3			
			LZ	M_S = 5.1		16.0	2.91	
QZN	35.4	277	P	06 35 31.8	0.9			
			PP	06 36 54.0	3.7			
			eS	06 41 06.0	2.3			
			LN	M_S = 5.1		15.0	0.66	
			LE			17.0	2.06	
TIY	36.1	310	eP	06 35 37.5	0.9			
			S	06 41 17.5	4.6			
			LN	M_S = 5.2		15.0	2.20	
			LZ	M_S = 5.1		15.0	2.60	
XAN	37.6	302	P	06 35 44.9	−4.4			
			LN	M_S = 5.1		14.0	1.70	
HHC	38.0	314	+P	06 35 53.0	0.3			
			S	06 41 44.0	1.9			
			LN	M_S = 5.3		15.0	2.00	
			LE			14.0	1.20	
			LZ	M_S = 5.1		18.0	2.90	
GYA	38.3	290	P	06 35 58.0	2.7			
BTO	38.9	313	P	06 36 02.0	1.3			
			ePP	06 37 34.0	0.5			
			S	06 41 58.0	1.3			
			LN	M_S = 5.5		16.0	2.90	
			LE			16.0	3.40	
CD2	41.3	296	eP	06 36 21.0	1.1			
			LN	M_S = 5.4		15.0	2.63	
			LZ	M_S = 4.8		14.0	0.88	
KMI	41.8	288	eP	06 36 25.0	0.8			
			pP	06 36 35.0	3.4			
			sP	06 36 39.5	4.5			
			eS	06 42 40.0	−0.4			
			LZ	M_S = 4.9		16.0	1.20	
LZH	42.1	304	+P	06 36 27.0	−0.1			
			PMZ	m_b = 4.9		0.7	0.013	
			PMZ	m_B = 5.3		5.0	0.27	
			pP	06 36 37.0	2.5			
			PP	06 38 06.0	−1.4			
			eS	06 42 45.0	−0.5			
			LN	M_S = 5.2		15.0	0.78	
			LE			15.0	1.45	

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		LZ		$M_S=4.9$		20.0	1.70
GTA	46.0	308	P	06 36 57.0	−1.3		
			S	06 43 46.0	5.8		
			LN	$M_S=5.1$		15.0	1.22
			LZ	$M_S=5.2$		18.0	2.47
WMQ	55.7	311	−iP	06 38 12.2	0.2		
			eS	06 45 59.0	3.2		
			LZ	$M_S=5.3$		16.0	2.01
KSH	64.4	306	eP	06 39 14.0	2.6		

JUN 14d 07h 40m 55.7 ± 0.04s, SD1.46 / 348
11.77 N ± 0.98km, 121.91 E ± 1.11km, h18 ± 0.20km
Panay (254)
M_S7.4 / 58, m_B6.6 / 37, m_b6.0 / 103

QZH	13.5	347	+iP	07 44 10.0	1.1		
			PMZ	$m_b=6.0$		1.5	0.46
			PMZ	$m_B=7.0$		6.0	17.7
			iS	07 46 41.0	1.6		
			LE	$M_S=7.3$		24.0	1917
QZN	13.7	303	+P	07 44 12.0	0.3		
			PMZ	$m_b=6.0$		0.8	0.26
			iS	07 46 47.0	2.6		
			LN	$M_S=7.6$		14.0	1248
			LE			15.0	1774
GZH	13.9	325	+iP	07 44 15.0	0.4		
			PMZ	$m_B=7.2$		10.0	45.4
			iS	07 46 52.0	2.4		
			LN	$M_S=7.4$		15.0	1129
			LE			15.0	1142
SSE	19.2	358	+iP	07 45 22.0	−0.2		
			PMZ	$m_b=5.9$		1.2	0.67
			PMZ	$m_B=6.8$		6.0	26.4
			pP	07 45 25.0	−2.8		
			sP	07 45 30.0	−1.5		
			PP	07 45 39.0	0.3		
			iS	07 48 55.0	2.0		
			sS	07 49 01.0	−1.1		
			SS	07 49 21.0	2.8		
			LN	$M_S=7.2$		20.0	708
			LE			19.0	330
WHN	20.0	341	eP	07 45 30.5	0.4		
			PMZ	$m_b=5.5$		1.5	0.34
			PMZ	$m_B=6.6$		8.0	24.6
			sP	07 45 39.0	−0.8		
			iS	07 49 12.0	3.2		
			LN	$M_S=7.4$		23.0	1275
NJ2	20.4	353	+iP	07 45 35.0	0.4		
			PMZ	$m_b=5.6$		1.8	0.50
			PMZ	$m_B=6.6$		8.0	24.3
			S	07 49 20.0	3.0		
			LE	$M_S=7.3$		21.0	942
GYA	20.5	318	+iP	07 45 40.0	4.1		
			LN	$M_S=7.3$		12.0	466
			LE			12.0	287
KMI	22.5	309	+P	07 45 57.0	0.8		
			PMZ	$m_b=6.1$		2.0	1.80
			PMZ	$m_B=6.8$		8.0	36.3
			S	07 50 00.0	3.5		
			LZ	$M_S=7.5$		15.0	1333
TIA	24.7	351	+P	07 46 19.0	1.3		
			PMZ	$m_B=6.7$		11.0	30.0
			LN	$M_S=7.8$		22.5	845
			LE			22.5	2336
XAN	25.1	334	P	07 46 20.0	−1.8		
			S	07 50 40.0	−2.7		
			LN	$M_S=7.2$		21.0	566
CD2	25.4	321	eP	07 46 24.0	−0.3		
			LE	$M_S=7.8$		16.0	1722
DL2	27.0	360	+P	07 46 39.0	−0.3		
			PMZ	$m_b=5.6$		1.0	0.13
			PMZ	$m_B=6.4$		6.0	5.60
			pP	07 46 43.5	−2.3		
			S	07 51 14.0	0.2		
			LN	$M_S=7.5$		18.0	477
			LE			20.0	875
TIY	27.2	343	−P	07 46 40.9	0.0		
			sP	07 46 50.0	−0.6		
			PP	07 47 30.0	3.1		
			S	07 51 23.0	6.5		
			LZ	$M_S=7.5$		21.5	1495
BJI	28.6	351	+eP	07 46 54.0	0.4		
			PMZ	$m_b=6.3$		1.5	1.00
			eS	07 51 40.0	0.0		
			LE	$M_S=7.7$		24.0	1621
LZH	29.2	329	+P	07 46 59.0	−0.1		
			PMZ	$m_B=6.5$		7.0	6.24
			pP	07 47 04.0	−1.5		
			iS	07 51 51.0	1.2		
			SMN			32.0	172
			sS	07 51 55.0	−5.6		
			LE	$M_S=7.7$		15.0	1000
SNY	30.0	2	+iP	07 47 06.0	0.1		
			PMZ	$m_b=6.6$		1.2	1.43
			PMZ	$m_B=6.4$		8.0	5.97
			pP	07 47 10.0	−2.6		
			PP	07 47 58.0	−5.1		
			S	07 52 02.0	1.0		
			SMN			17.0	19.4
			SME			22.0	14.9
			sS	07 52 17.0	4.0		
			LN	$M_S=7.3$		19.0	204
			LE			19.0	495
HHC	30.4	344	+P	07 47 08.0	−1.5		
			PMZ	$m_B=6.5$		7.0	5.64
			sP	07 47 22.0	2.9		
			PP	07 48 10.0	1.9		
			SMN			15.0	42.8
			SME			6.0	101
			LN	$M_S=7.4$		21.0	755
BTO	30.6	342	P	07 47 11.5	0.2		
			PMZ	$m_B=6.4$		7.0	4.70
			S	07 52 12.0	1.7		
			sS	07 52 26.0	3.7		
			PcS	07 53 46.0	−5.6		
CN2	32.1	5	+P	07 47 23.0	−1.3		
			PMZ	$m_b=6.2$		1.0	0.40
			PMZ	$m_B=6.6$		5.0	5.00
			epP	07 47 29.5	−1.4		
			PP	07 48 33.0	2.8		
			eS	07 52 40.0	5.4		
			SMN			11.0	21.0
			SME			11.0	13.0
			LN	$M_S=7.5$		18.0	577
			LE			18.0	440
MDJ	33.4	10	+iP	07 47 37.0	1.1		
			PMZ	$m_b=6.8$		1.6	2.26
			pP	07 47 44.0	1.5		
			PP	07 48 47.0	−0.2		
			iS	07 52 54.0	−1.3		
			SME			11.0	14.8
			SS	07 54 54.0	−3.2		
			LE	$M_S=7.5$		20.0	794
LSA	33.7	307	P	07 47 40.0	1.1		
			pP	07 47 48.0	2.9		
			S	07 53 02.4	3.3		
			LN	$M_S=7.2$		17.0	276

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GTA	33.8	328	P	07 47 38.1	−1.4			
			PMZ	m_b=6.1		1.5	0.51	
			S	07 53 06.0	5.3			
			LN	M_S=7.4		18.0	497	
			LZ	M_S=7.3		22.0	612	
WMQ	43.4	324	P	07 49 00.3	0.2			
			PMZ	m_B=6.6		9.0	9.58	
			sP	07 49 07.0	−2.8			
			PcP	07 50 50.0	2.1			
			LN	M_S=8.1		17.0	1394	
KSH	49.1	313	eP	07 49 45.0	0.1			
			LN	M_S=7.7		16.0	455	
			LZ	M_S=7.6		14.0	408	

JUN 14d 08h 31m 09.3±0.03s, SD1.22/165
11.61 N±0.59km, 121.82 E±0.81km, h17±0.06km
Panay (254)
M_S5.9/4, m_b5.4/46,

QZN	13.7	304	P	08 34 23.0	−2.7			
GZH	14.0	326	P	08 34 33.0	3.6			
SSE	19.4	358	−P	08 35 39.5	1.8			
			PMZ	m_b=5.3		1.5	0.20	
			pP	08 35 47.0	3.7			
WHN	20.1	341	+eP	08 35 45.7	0.5			
			PMZ	m_b=4.9		1.0	0.060	
NJ2	20.5	353	+P	08 35 50.6	0.7			
			PMZ	m_b=5.6		1.0	0.25	
GYA	20.5	318	−P	08 35 52.0	1.8			
KMI	22.5	309	+P	08 36 12.5	2.2			
			PMZ	m_b=5.9		2.0	1.10	
			S	08 40 15.0	4.0			
			LE	M_S=5.6		12.0	10.4	
			LZ	M_S=5.6		18.0	20.5	
TIA	24.9	351	+P	08 36 37.2	4.3			
XAN	25.2	334	P	08 36 35.0	−1.6			
DL2	27.2	360	−P	08 36 55.6	1.1			
			PMZ	m_b=5.8		1.2	0.27	
TIY	27.3	344	eP	08 36 54.5	−1.4			
BJI	28.8	351	eP	08 37 08.0	−0.7			
			PMZ	m_b=5.5		1.1	0.10	
LZH	29.3	329	+P	08 37 13.5	−0.2			
			PMZ	m_b=5.5		1.6	0.15	
			pP	08 37 24.6	4.7			
SNY	30.1	3	−iP	08 37 21.1	0.0			
			PMZ	m_b=6.0		1.4	0.37	
HHC	30.5	345	eP	08 37 25.0	0.6			
BTO	30.7	342	eP	08 37 25.9	−0.2			
CN2	32.2	5	−iP	08 37 39.1	−0.4			
MDJ	33.6	10	−iP	08 37 51.0	−0.1			
			PMZ	m_b=5.8		1.2	0.18	
			pP	08 37 58.0	0.4			
LSA	33.7	307	P	08 37 53.8	0.9			
GTA	33.9	329	P	08 37 53.6	−0.4			
			PMZ	m_b=5.3		1.2	0.054	
WMQ	43.5	324	P	08 39 15.8	1.4			
			eS	08 45 43.5	0.9			
KSH	49.1	313	eP	08 40 00.9	1.9			

JUN 14d 11h 49m 00.6±0.06s, SD1.56/94
11.49 N±0.87km, 122.36 E±1.01km, h16±0.09km
Panay (254)
M_S4.7/19, m_B5.6/6, m_b5.1/30

QZH	13.9	346	eP	11 52 19.0	0.0			
			sP	11 52 24.0	−4.0			
			PP	11 52 32.0	2.3			
			S	11 54 56.0	2.9			
			SS	11 55 14.0	5.1			
			LE	M_S=4.3		13.0	1.12	
			LZ	M_S=4.4		18.0	2.06	
QZN	14.2	303	eP	11 52 23.0	−0.7			
			PP	11 52 34.5	−0.1			
			eS	11 55 03.5	1.4			
			LN	M_S=4.8		12.0	1.36	
			LE			14.0	2.94	
SSE	19.5	357	+P	11 53 30.0	−0.6			
			PMZ	m_b=4.9		1.2	0.075	
			PMZ	m_B=5.5		5.0	1.11	
			S	11 57 05.0	0.6			
			sS	11 57 10.0	−3.5			
			SS	11 57 29.0	−2.0			
			LE	M_S=4.4		14.0	0.91	
			LZ	M_S=4.3		20.0	1.38	
WHN	20.4	340	eP	11 53 40.5	0.9			
			PMZ	m_b=5.1		1.5	0.13	
			pP	11 53 45.5	−0.2			
			eS	11 57 28.0	5.5			
			LN	M_S=4.9		18.0	3.03	
			LE			11.0	0.67	
			LZ	M_S=4.3		20.0	1.25	
NJ2	20.7	352	−P	11 53 44.0	0.8			
			PMZ	m_b=4.9		1.0	0.050	
			eS	11 57 28.0	−1.3			
			LN	M_S=4.8		15.0	0.97	
			LE			12.0	1.55	
			LZ	M_S=4.2		14.0	0.71	
GYA	21.0	317	P	11 53 46.8	0.6			
			LN	M_S=4.8		12.0	1.20	
			LE			12.0	1.00	
			LZ	M_S=4.3		16.0	0.90	
KMI	23.0	309	+P	11 54 04.5	−2.0			
			PMZ	m_b=4.9		2.0	0.10	
			sP	11 54 11.5	−4.2			
			LN	M_S=4.7		14.0	1.20	
			LE			14.0	1.00	
			LZ	M_S=4.7		14.0	1.80	
TIA	25.1	350	+P	11 54 26.4	0.2			
			eS	11 58 53.0	5.6			
			LE	M_S=4.4		13.0	0.60	
XAN	25.6	333	P	11 54 29.2	−1.9			
DL2	27.3	359	eP	11 54 46.0	−1.0			
			PMZ	m_b=5.2		1.0	0.050	
			eS	11 59 23.0	−1.4			
			LN	M_S=4.6		13.0	0.78	
			LZ	M_S=4.4		16.0	0.84	
TIY	27.6	343	eP	11 54 49.0	−0.6			
			pP	11 54 54.5	−1.4			
			S	11 59 27.5	−0.6			
			sS	11 59 40.0	0.4			
			LN	M_S=4.8		17.0	1.54	
			LZ	M_S=4.7		20.0	2.10	
BJI	29.0	350	eP	11 55 01.0	−0.9			
			PMZ	m_b=5.1		1.0	0.039	
LZH	29.7	329	eP	11 55 09.8	1.4			
			PMZ	m_b=5.0		1.4	0.041	
			pP	11 55 14.0	−0.7			
SNY	30.2	2	+P	11 55 12.8	−0.5			
			PMZ	m_b=5.2		1.0	0.048	
BTO	31.0	342	eP	11 55 22.0	2.1			
			eS	12 00 24.0	1.0			
			LN	M_S=5.1		17.0	1.70	
			LE			17.0	1.90	
CN2	32.3	4	P	11 55 31.0	−0.5			
MDJ	33.6	9	+iP	11 55 42.5	−0.2			
			PMZ	m_b=5.6		1.2	0.13	
LSA	34.2	307	P	11 55 47.6	−0.9			
WMQ	43.9	324	eP	11 57 10.0	0.9			

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JUN 14d 12h 47m 27.9 ± 0.04s, SD1.12 / 562
47.90 N ± 0.71km, 85.09 E ± 0.55km, h57 ± 0.18km
Kazakhstan–Xinjiang border region (331)
M_S7.2 / 49, m_B6.2 / 26, m_b6.0 / 113

WMQ	4.5	155	−iP	12 48 35.2	0.0			
			LN	M_S = 7.0		4.0	791	
KSH	10.7	222	P	12 50 01.6	0.5			
GTA	13.6	123	P	12 50 35.1	−5.0			
			S	12 53 15.0	6.1			
			LN	M_S = 7.2		10.0	699	
			LZ	M_S = 7.2		18.0	1353	
LZH	18.2	124	−iP	12 51 38.0	−0.6			
			PMZ	m_b = 5.9		2.0	1.29	
			PMZ	m_B = 6.0		7.0	5.20	
			pP	12 51 50.0	0.9			
			iS	12 54 56.0	−0.1			
			SME			20.0	41.2	
			sS	12 55 12.0	−1.4			
			SS	12 55 22.0	2.2			
			LE	M_S = 7.7		7.0	954	
LSA	18.8	163	P	12 51 47.1	1.6			
			PMZ	m_B = 6.2		8.0	9.03	
			pP	12 51 58.0	2.2			
			iS	12 55 10.0	0.9			
BTO	19.2	103	P	12 51 49.0	−1.5			
			pP	12 52 03.0	1.5			
			S	12 55 17.0	−1.0			
			LN	M_S = 6.3		11.0	43.8	
			LE			11.0	43.5	
HHC	20.1	101	+iP	12 52 00.0	−0.1			
			PMZ	m_B = 5.9		8.0	4.70	
			pP	12 52 13.0	0.8			
			S	12 55 39.0	2.0			
			sS	12 56 01.0	4.9			
			SMN			10.0	38.2	
			SME			10.0	28.0	
			LE	M_S = 7.2		11.0	382	
CD2	22.2	133	−iP	12 52 21.5	0.8			
			sP	12 52 35.0	−5.0			
			LN	M_S = 7.2		10.0	357	
TIY	22.4	107	−iP	12 52 23.5	0.6			
			PMZ	m_b = 5.8		1.3	0.63	
			pP	12 52 39.0	3.2			
			sP	12 52 44.5	2.4			
			SMN			10.0	46.2	
			LN	M_S = 7.6		9.0	678	
			LE			9.0	437	
XAN	22.6	119	P	12 52 24.5	−0.3			
			PMZ	m_b = 5.2		1.0	0.12	
			pP	12 52 39.0	1.3			
			sP	12 52 43.0	−1.1			
			S	12 56 23.0	0.4			
			LE	M_S = 6.8		17.0	231	
BJI	23.6	98	+eP	12 52 36.0	1.5			
			PMZ	m_b = 5.6		2.0	0.55	
			PMZ	m_B = 6.0		6.0	4.46	
			epP	12 52 48.0	0.4			
			S	12 56 44.0	3.7			
			LN	M_S = 7.4		10.0	476	
TIA	26.3	105	+P	12 53 01.9	1.5			
			PMZ	m_B = 6.4		8.0	8.40	
			pP	12 53 14.5	0.9			
			LN	M_S = 7.6		12.0	589	
			LE			12.0	434	
KMI	26.7	142	−P	12 53 03.5	−0.3			
			PMZ	m_b = 5.7		1.5	0.30	
			pP	12 53 18.0	1.2			
			S	12 57 37.0	5.6			
			LN	M_S = 6.7		9.0	44.5	
			LE			9.0	50.0	
GYA	27.3	134	+iP	12 53 09.0	−0.4			
			pP	12 53 24.0	1.4			
			sP	12 53 30.4	1.6			
			S	12 57 48.0	6.4			
			LN	M_S = 7.3		12.0	311	
			LE			12.0	237	
SNY	27.7	88	+iP	12 53 13.0	−0.4			
			PMZ	m_b = 6.2		1.6	0.95	
			PMZ	m_B = 6.3		9.0	6.27	
			pP	12 53 28.0	1.3			
			PP	12 54 08.0	5.4			
			iS	12 57 54.0	4.3			
			SMN			11.5	7.58	
			SME			11.5	12.9	
			LN	M_S = 7.5		10.0	468	
			LE			10.0	204	
DL2	27.8	95	+P	12 53 15.0	0.9			
			PMZ	m_B = 5.6		9.0	1.12	
			pP	12 53 30.0	2.6			
			PP	12 54 07.5	3.9			
			S	12 57 54.0	3.9			
			SMN			9.0	7.40	
			SME			9.0	5.72	
			LN	M_S = 7.2		10.0	213	
			LE			12.0	161	
CN2	28.2	83	+iP	12 53 17.0	−0.4			
			PMZ	m_b = 5.8		1.0	0.20	
			PMZ	m_B = 6.4		6.0	5.00	
			pP	12 53 30.0	−0.8			
			PP	12 54 08.0	−0.4			
			eS	12 57 58.0	1.1			
			SMN			10.0	10.0	
			SME			10.0	16.0	
			LN	M_S = 7.2		15.0	250	
			LE			15.0	296	
WHN	28.3	117	−eP	12 53 18.5	0.0			
			PMZ	m_b = 5.5		1.0	0.10	
			PMZ	m_B = 5.9		12.0	3.01	
			pP	12 53 30.0	−1.8			
			S	12 57 56.0	−1.9			
			LN	M_S = 6.4		15.0	52.1	
NJ2	30.0	109	−P	12 53 34.0	0.0			
			PMZ	m_b = 5.1		1.4	0.050	
			sP	12 53 49.0	−4.8			
			PP	12 54 34.0	1.6			
			iS	12 58 30.0	3.6			
			sS	12 58 47.0	−3.1			
			LN	M_S = 7.3		11.0	188	
			LE			13.0	249	
MDJ	30.6	79	+iP	12 53 39.5	0.3			
			PMZ	m_b = 6.3		1.7	1.03	
			PMZ	m_B = 5.8		7.0	1.21	
			pP	12 53 54.0	1.3			
			PP	12 54 45.0	5.0			
			iS	12 58 40.0	4.3			
			SME			12.0	7.21	
			sS	12 59 06.0	6.7			
			LN	M_S = 7.3		10.0	256	
SSE	32.2	108	−P	12 53 53.0	0.3			
			PMZ	m_b = 5.6		1.5	0.17	
			pP	12 54 05.0	−1.2			
			PP	12 55 00.0	0.1			
			S	12 59 00.0	1.1			
			sS	12 59 22.0	−1.5			
			SS	13 00 56.0	0.6			

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			ScS	13 04 15.0	0.7			
			LN	$M_S=7.2$		16.0	246	
			LE			14.0	173	
GZH	33.5	128	−P	12 54 04.0	0.0			
			PMZ	$m_B=6.4$		8.0	5.30	
			pP	12 54 16.5	−1.1			
			iS	12 59 19.0	−1.0			
			LN	$M_S=7.2$		6.0	68.1	
			LE			6.0	73.7	
QZH	35.0	119	eP	12 54 17.0	0.2			
			pP	12 54 30.5	0.0			
			S	12 59 46.0	3.7			
			SS	13 02 04.0	4.5			
			LE	$M_S=7.3$		16.0	333	
QZN	35.1	137	P	12 54 18.0	−0.3			
			PMZ	$m_b=5.7$		1.0	0.12	
			pP	12 54 32.0	−0.1			
			S	12 59 48.0	3.0			
			sS	13 00 10.0	0.3			
			SS	13 02 09.0	5.1			
			LN	$M_S=7.2$		12.5	194	

JUN 14d 14h 02m 02.1±0.03s, SD0.76/36
7.01 S±0.25km, 125.08 E±0.17km, h571±0.57km
Banda Sea (280)
m_b4.8/10,

GYA	37.8	332	−P	14 08 32.4	0.5			
SSE	38.1	355	P	14 08 34.8	0.5			
			PMZ	$m_b=4.6$		1.0	0.015	
WHN	38.7	345	+P	14 08 41.0	1.4			
			PMZ	$m_b=4.9$		1.0	0.030	
NJ2	39.3	352	−P	14 08 45.0	0.8			
TIY	46.0	346	eP	14 09 36.4	−0.8			
CN2	50.6	0	eP	14 10 09.8	−1.3			

JUN 14d 14h 18m 10.2±0.03s, SD1.08/271
47.97 N±0.54km, 85.07 E±0.48km, h40±0.20km
Kazakhstan–Xinjiang border region (331)
M_S5.0/18, m_B5.3/2, m_b5.2/97

WMQ	4.5	155	+iP	14 19 20.2	1.7			
			LN	$M_S=5.6$		4.0	35.3	
KSH	10.7	221	P	14 20 47.0	2.4			
			eS	14 22 45.0	0.9			
GTA	13.7	123	−iP	14 21 21.1	−2.8			
			PMZ	$m_b=5.5$		1.0	0.076	
			LN	$M_S=5.3$		5.0	2.99	
			LE			5.0	2.82	
			LZ	$M_S=4.9$		16.0	5.83	
LZH	18.3	124	−P	14 22 22.0	−0.6			
			PMZ	$m_b=5.3$		1.2	0.20	
			PMZ	$m_B=5.4$		4.0	0.80	
			sP	14 22 37.0	1.0			
			eS	14 25 41.0	−0.9			
			SMN			6.0	0.58	
			sS	14 25 56.0	0.8			
			LN	$M_S=4.8$		10.0	1.77	
			LZ	$M_S=4.7$		20.0	3.16	
LSA	18.8	163	P	14 22 31.6	1.7			
BTO	19.3	103	eP	14 22 34.5	−0.1			
			LN	$M_S=4.9$		12.0	1.70	
			LE			12.0	1.90	
HHC	20.2	101	eP	14 22 44.0	−0.2			
			eS	14 26 28.0	4.3			
			LN	$M_S=5.5$		6.0	4.65	
			LE			7.0	2.63	
			LZ	$M_S=5.4$		7.0	5.65	
CD2	22.2	133	eP	14 23 06.0	0.8			
TIY	22.4	107	+iP	14 23 07.5	0.4			
			PMZ	$m_b=5.5$		1.4	0.30	
			S	14 27 09.0	3.9			
			sS	14 27 20.5	−1.7			
			LN	$M_S=5.3$		6.0	2.53	
			LZ	$M_S=4.7$		15.0	2.13	
XAN	22.6	119	+P	14 23 09.0	−0.2			
BJI	23.6	98	eP	14 23 20.5	1.8			
			PMZ	$m_b=5.4$		2.0	0.33	
			esP	14 23 35.5	2.3			
TIA	26.3	105	+P	14 23 45.6	0.9			
KMI	26.7	142	+P	14 23 47.5	−0.8			
GYA	27.3	134	+iP	14 23 53.6	−0.3			
			PMZ	$m_b=5.5$		1.0	0.10	
			PP	14 24 45.0	4.0			
			PcP	14 27 12.4	0.3			
			S	14 28 30.2	1.9			
			sS	14 28 49.0	2.7			
			ScS	14 34 39.4	1.4			
SNY	27.7	88	+iP	14 23 57.2	−0.3			
			PMZ	$m_b=5.2$		0.8	0.041	
DL2	27.8	95	eP	14 23 58.6	0.3			
CN2	28.2	83	+P	14 24 01.2	−0.3			
WHN	28.3	117	+P	14 24 02.5	−0.3			
			PMZ	$m_b=5.3$		0.7	0.040	
			pP	14 24 16.0	3.0			
NJ2	30.1	110	−P	14 24 18.5	0.2			
			PMZ	$m_b=5.2$		1.0	0.040	
MDJ	30.6	79	eP	14 24 23.2	−0.1			
SSE	32.2	108	−P	14 24 37.4	0.4			
			PMZ	$m_b=5.2$		1.0	0.044	
			sP	14 24 52.0	0.2			
			ScS	14 35 02.0	0.9			
GZH	33.5	128	−P	14 24 48.0	−0.5			
QZN	35.2	137	+P	14 25 02.6	−0.3			
			PMZ	$m_b=5.4$		0.9	0.060	
			eS	14 30 30.5	−2.2			
			LN	$M_S=5.1$		19.0	2.08	
			LE			14.0	1.08	

JUN 14d 20h 22m 17.3±0.07s, SD1.52/86
6.33 N±0.60km, 126.35 E±1.01km, h95±0.72km
Mindanao (259)
m_b4.9/13,

QZH	19.9	339	eP	20 26 43.2	−1.1			
			eS	20 30 22.0	3.4			
QZN	20.4	310	eP	20 26 49.6	0.3			
			pP	20 27 08.0	−0.1			
			S	20 30 30.5	3.1			
GZH	20.8	324	+P	20 26 56.2	2.7			
NJ2	26.5	346	eP	20 27 48.5	0.3			
WHN	26.6	336	eP	20 27 50.0	1.2			
KMI	29.3	312	eP	20 28 13.0	−0.8			
XAN	31.9	332	P	20 28 36.4	−0.2			
DL2	32.7	353	eP	20 28 47.2	4.1			
TIY	33.7	340	eP	20 28 52.1	0.2			
BJI	34.8	346	eP	20 29 01.0	0.0			
			PMZ	$m_b=4.7$		1.1	0.014	
			PcP	20 31 31.5	−0.7			
			eS	20 34 20.0	−3.9			
			ScP	20 35 12.0	4.5			
SNY	35.4	356	eP	20 29 07.6	1.1			
LZH	36.1	328	P	20 29 13.5	1.2			
			PMZ	$m_b=4.9$		1.8	0.042	
			pP	20 29 33.5	−0.4			
			LZ			28.0	0.50	
HHC	36.8	341	eP	20 29 17.6	−0.8			
CN2	37.3	359	eP	20 29 26.8	4.3			
GTA	40.7	328	P	20 29 51.8	1.3			

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WMQ	50.4	324	P	20 31 06.0	−1.5			
KSH	56.0	314	P	20 31 50.0	1.0			

JUN 14d 21h 56m 47.5 ± 0.04s, SD1.39 / 161
11.33 N ± 0.72km, 122.28 E ± 0.95km, h22 ± 0.10km
Panay (254)
M_S5.2 / 53, m_B5.8 / 25, m_b5.4 / 47

QZH	14.0	346	−P	22 00 07.0	0.1			
			PMZ	m_B = 6.0		5.0	1.52	
			pP	22 00 14.0	1.2			
			PP	22 00 18.0	0.2			
			S	22 02 42.0	−0.1			
			LN	M_S = 4.9		16.0	3.52	
			LE			14.0	3.76	
			LZ	M_S = 4.7		20.0	4.73	
QZN	14.2	304	eP	22 00 09.1	−1.1			
			eS	22 02 47.0	−1.5			
			LN	M_S = 5.2		12.0	4.02	
			LE			14.5	6.86	
GZH	14.5	325	P	22 00 12.0	−1.3			
			sP	22 00 22.0	−1.2			
			LN	M_S = 5.1		13.0	5.50	
			LE			12.0	1.56	
			LZ	M_S = 4.8		18.0	4.78	
SSE	19.7	357	−P	22 01 18.0	−0.4			
			PMZ	m_b = 5.2		1.6	0.19	
			pP	22 01 24.0	−1.0			
			sP	22 01 29.0	0.2			
			ePP	22 01 36.0	−0.3			
			S	22 04 54.0	0.4			
			sS	22 05 05.0	1.2			
			SS	22 05 22.0	1.4			
			LN	M_S = 4.9		15.0	1.41	
			LE			14.0	2.27	
			LZ	M_S = 4.7		20.0	3.22	
WHN	20.5	340	+eP	22 01 27.5	0.6			
			PMZ	m_b = 5.2		1.5	0.19	
			pP	22 01 31.5	−2.3			
			eS	22 05 12.0	1.4			
			sS	22 05 20.0	−0.7			
			LN	M_S = 5.2		17.0	6.40	
			LE			12.0	1.75	
			LZ	M_S = 4.9		16.0	3.56	
NJ2	20.9	352	−P	22 01 31.0	0.1			
			PMZ	m_B = 6.1		4.0	3.60	
			sP	22 01 40.0	−1.3			
			PP	22 01 57.0	4.3			
			S	22 05 23.0	5.9			
			LN	M_S = 4.9		11.0	0.56	
			LE			11.0	1.74	
			LZ	M_S = 4.8		13.0	2.51	
GYA	21.1	318	P	22 01 33.0	0.0			
			PMZ	m_B = 5.8		4.0	1.60	
			pP	22 01 40.0	0.2			
			S	22 05 23.4	2.6			
			LN	M_S = 5.2		13.0	3.40	
			LE			13.0	3.80	
			LZ	M_S = 4.9		16.0	3.80	
KMI	23.0	309	−P	22 01 54.0	1.1			
			PMZ	m_b = 5.8		2.5	0.90	
			sP	22 02 04.5	1.3			
			LN	M_S = 5.2		12.0	2.20	
			LE			13.0	3.10	
			LZ	M_S = 5.1		15.0	5.00	
TIA	25.2	350	eP	22 02 13.4	−0.2			
			PMZ	m_b = 5.7		1.2	0.23	
			PMZ	m_B = 6.0		4.5	1.80	
			S	22 06 39.5	4.9			
			LE	M_S = 4.9		13.0	2.00	
XAN	25.7	334	−P	22 02 16.4	−1.8			
			S	22 06 42.0	−0.6			
			LN	M_S = 5.3		15.0	4.88	
			LE			17.0	2.42	
CD2	26.0	321	eP	22 02 22.5	1.7			
			S	22 06 54.0	6.9			
			LN	M_S = 5.3		11.0	3.88	
			LZ	M_S = 4.9		18.0	2.82	
DL2	27.5	359	+P	22 02 35.0	0.5			
			PMZ	m_b = 5.4		1.0	0.080	
			pP	22 02 43.5	1.8			
			S	22 07 12.5	0.8			
			LN	M_S = 5.2		15.0	2.26	
			LE			15.0	2.98	
			LZ	M_S = 4.8		16.0	1.80	
TIY	27.7	343	eP	22 02 35.1	−1.8			
			pP	22 02 39.5	−4.5			
			S	22 07 20.0	4.3			
			LN	M_S = 5.2		15.0	3.19	
			LZ	M_S = 5.1		20.0	4.76	
BJI	29.1	350	eP	22 02 48.0	−1.2			
			PMZ	m_b = 5.4		1.0	0.073	
			eS	22 07 36.0	−2.6			
			ScP	22 09 39.0	3.6			
			LN	M_S = 4.6		11.0	0.58	
			LZ	M_S = 4.7		24.0	1.91	
LZH	29.8	329	P	22 02 54.0	−1.3			
			PMZ	m_b = 5.7		2.5	0.32	
			PMZ	m_B = 5.7		5.0	0.78	
			sP	22 03 05.0	−0.8			
			PP	22 03 53.0	1.5			
			S	22 07 49.0	0.7			
			SME			17.0	1.18	
			sS	22 08 00.0	−1.3			
			LN	M_S = 5.4		13.5	3.53	
			LE			13.0	3.10	
			LZ	M_S = 5.4		18.0	7.65	
SNY	30.4	2	−iP	22 03 01.2	0.4			
			PMZ	m_b = 5.6		1.2	0.12	
			PMZ	m_B = 6.0		4.0	1.00	
			sP	22 03 12.0	0.5			
			S	22 07 56.5	−2.0			
			LE	M_S = 5.0		17.5	2.21	
			LZ	M_S = 4.7		23.0	1.97	
HHC	30.9	344	eP	22 03 04.2	−1.0			
			S	22 08 09.0	3.0			
			LN	M_S = 5.3		17.0	2.71	
			LE			16.0	2.60	
			LZ	M_S = 5.3		20.0	6.56	
BTO	31.1	342	eP	22 03 06.5	−0.6			
			eS	22 08 10.0	−0.5			
			eSS	22 09 53.0	−1.5			
			LN	M_S = 5.4		17.0	3.30	
			LE			14.0	3.40	
CN2	32.5	4	+P	22 03 18.6	−0.4			
			PMZ	m_b = 5.2		1.0	0.040	
			PMZ	m_B = 5.6		5.0	0.50	
			pP	22 03 26.0	−0.3			
			PP	22 04 32.0	5.3			
			eS	22 08 38.0	6.3			
			LN	M_S = 5.2		14.0	1.50	
			LE			14.0	1.80	
MDJ	33.8	9	+P	22 03 31.2	1.0			
			PP	22 04 48.0	5.3			
			eS	22 08 46.0	−5.8			
			LE	M_S = 5.1		18.0	2.55	
			LZ	M_S = 4.7		20.0	1.40	

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LSA	34.2	307	P	22 03 34.5	−0.4			
			S	22 09 01.0	2.6			
			LE	$M_S=4.3$		11.0	0.24	
GTA	34.4	328	−iP	22 03 34.2	−1.3			
			PMZ	$m_B=5.7$		5.0	0.58	
			S	22 09 05.0	4.8			
			LE	$M_S=5.3$		14.0	2.94	
			LZ	$M_S=5.5$		16.0	7.35	
WMQ	44.0	324	eP	22 04 54.6	−1.2			
			PMZ	$m_B=5.7$		5.0	0.60	
			eS	22 11 28.0	1.4			
			LN	$M_S=5.5$		14.0	1.88	
			LE			13.0	1.85	
			LZ	$M_S=5.3$		18.0	3.59	
KSH	49.7	313	P	22 05 40.5	0.1			
			eS	22 12 48.0	0.9			
			LE	$M_S=5.9$		24.0	9.90	
			LZ	$M_S=5.3$		16.0	2.40	

JUN 14d 22h 25m 25.6 ± 0.07s, SD1.42 / 73
5.81 S ± 0.80km, 153.23 E ± 1.18km, h43 ± 0.89km
New Britain region (192)
m_b5.2 / 14,

QZN	49.4	301	eP	22 34 15.0	1.8			
WHN	51.9	317	eP	22 34 33.0	0.6			
DL2	53.3	329	eP	22 34 42.6	−0.1			
TIA	53.8	324	+P	22 34 45.8	−0.8			
MDJ	54.5	339	eP	22 34 50.7	−1.3			
GYA	55.3	308	P	22 34 58.4	0.2			
BJI	57.0	327	eP	22 35 08.5	−1.2			
TIY	57.6	322	eP	22 35 14.2	0.1			
XAN	57.6	317	P	22 35 13.8	−0.7			
KMI	57.9	304	−P	22 35 17.5	1.0			
HHC	60.1	324	eP	22 35 30.0	−1.7			
BTO	60.9	323	eP	22 35 37.5	0.7			
LZH	62.3	316	−P	22 35 47.0	0.8			
			PMZ	$m_b=5.2$		1.5	0.042	
GTA	66.7	317	P	22 36 15.6	0.6			
WMQ	76.8	317	P	22 37 16.0	0.8			
KSH	84.0	311	P	22 37 56.5	2.9			

JUN 15d 00h 03m 05.1 ± 0.07s, SD2.45 / 10
22.86 N ± 0.86km, 114.66 E ± 0.36km, h5 ± km
Near south−eastern coast of China (242)
M_L3.4 / 8,

GZH	1.2	281	+iPg	00 03 26.2	−0.7			
			iSg	00 03 43.6	−0.1			
			SMN	$M_L=3.4$		0.4	0.60	
			SME			0.4	0.63	
QZH	4.2	59	ePn	00 04 13.0	3.5			
			Sn	00 05 00.0	−0.6			
			SMN	$M_L=3.7$		0.8	0.20	
			SME			0.7	0.10	
WHN	7.7	358	Pn	00 05 01.0	3.4			
GYA	8.1	298	P	00 05 06.8	0.2			

JUN 15d 06h 59m 44.1 ± 0.04s, SD1.75 / 8
37.49 N ± 0.32km, 115.06 E ± 0.29km, h24 ± 0.13km
Eastern China (664)
M_L3.0 / 9,

TIA	2.1	127	Pn	07 00 18.7	0.5			
			Pg	07 00 20.9	−0.4			
			Sn	07 00 47.5	2.4			
			SMN	$M_L=3.0$		0.3	0.11	
			SME			0.3	0.12	
BJI	2.7	19	Pg	07 00 31.0	−0.8			
			Sg	07 01 05.5	−3.2			
			SMN	$M_L=2.7$		0.5	0.023	
			SME			0.5	0.048	
HHC	4.3	322	ePg	07 01 02.4	1.8			
			Sg	07 01 57.0	−2.5			
			SMN	$M_L=3.2$		0.8	0.041	
			SME			0.8	0.049	
BTO	5.0	310	ePg	07 01 10.4	−2.4			

JUN 15d 08h 12m 26.2 ± 0.04s, SD1.19 / 304
4.98 S ± 0.80km, 152.08 E ± 0.80km, h60 ± 0.20km
New Britain region (192)
M_S5.7 / 48, m_B5.7 / 20, m_b5.4 / 56

QZH	44.1	314	+P	08 20 31.5	0.8			
			S	08 26 58.5	1.2			
			LN	$M_S=5.6$		20.0	4.90	
			LZ	$M_S=5.5$		26.0	8.46	
SSE	46.4	323	P	08 20 49.0	−0.4			
			PMZ	$m_b=5.2$		1.5	0.049	
			PMZ	$m_B=5.8$		6.0	0.70	
			sP	08 21 05.0	−5.3			
			S	08 27 30.0	−0.8			
			sS	08 27 51.0	−5.9			
			LN	$M_S=5.5$		18.0	2.91	
			LE			18.0	2.27	
			LZ	$M_S=5.6$		20.0	6.44	
GZH	47.0	308	P	08 20 56.0	2.2			
			LE	$M_S=5.8$		20.0	7.40	
			LE	$M_S=5.8$		20.0	7.10	
QZN	47.9	301	P	08 21 02.0	0.8			
			sP	08 21 17.0	−5.1			
			PP	08 22 55.5	3.5			
			S	08 27 57.0	4.9			
			sS	08 28 13.5	−4.8			
			SS	08 31 18.0	1.8			
			LN	$M_S=5.7$		17.0	2.28	
			LE			20.0	4.56	
NJ2	48.5	322	eP	08 21 05.5	−0.3			
			S	08 28 03.0	2.7			
			LN	$M_S=5.7$		17.0	4.51	
			LE			18.0	2.13	
WHN	50.5	317	eP	08 21 21.0	0.2			
			PMZ	$m_B=5.7$		6.0	0.58	
			eS	08 28 31.0	2.4			
			LN	$M_S=5.8$		24.0	5.39	
			LE			22.0	5.97	
			LZ	$M_S=5.5$		24.0	5.44	
DL2	52.0	330	eP	08 21 30.0	−1.9			
			PMZ	$m_b=5.5$		1.0	0.059	
			PMZ	$m_B=5.8$		6.0	0.70	
			eS	08 28 52.0	3.1			
			LN	$M_S=5.5$		19.0	2.10	
			LE			19.0	2.08	
			LZ	$M_S=5.3$		22.0	3.44	
TIA	52.4	324	P	08 21 34.4	−1.1			
			LN	$M_S=5.7$		21.0	2.08	
			LE			21.0	4.34	
MDJ	53.3	340	eP	08 21 40.5	−1.7			
			pP	08 21 56.0	−0.9			
			PcP	08 22 48.0	0.1			
			eS	08 29 10.0	2.4			
			SS	08 32 46.0	0.1			
			LN	$M_S=5.4$		18.0	2.00	
			LZ	$M_S=5.5$		30.0	6.96	
SNY	53.3	334	+iP	08 21 40.0	−2.2			
			PMZ	$m_B=5.6$		8.0	0.65	
			PP	08 23 42.0	−1.3			
			S	08 29 06.0	−0.5			
			sS	08 29 30.0	−3.2			
			LN	$M_S=5.3$		19.0	1.94	

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			LZ		$M_S=5.5$	28.0	6.54
GYA	53.9	308	P	08 21 47.6	0.9		
			pP	08 21 58.6	−2.7		
			sS	08 29 44.0	2.7		
			LN		$M_S=5.8$	20.0	4.10
			LE			20.0	5.00
			LZ		$M_S=5.5$	22.0	4.50
CN2	54.2	336	+P	08 21 47.0	−1.3		
			PMZ		$m_b=5.5$	1.0	0.060
			PMZ		$m_B=5.7$	5.0	0.50
			eS	08 29 19.0	0.1		
			SS	08 32 58.0	−1.1		
			LN		$M_S=5.4$	17.0	1.80
			LE			17.0	0.60
			LZ		$M_S=5.6$	23.0	5.50
BJI	55.6	327	eP	08 21 58.5	−0.5		
			PMZ		$m_b=5.3$	2.0	0.083
			PMZ		$m_B=5.6$	7.0	0.50
			eS	08 29 36.0	−2.7		
			LN		$M_S=5.7$	18.0	2.86
			LE			20.0	2.66
			LZ		$M_S=5.6$	23.0	6.57
TIY	56.2	322	P	08 22 02.5	−0.8		
			S	08 29 52.0	6.7		
			LN		$M_S=5.7$	21.0	4.57
			LZ		$M_S=5.8$	24.0	8.71
XAN	56.3	317	P	08 22 03.0	−0.5		
			S	08 29 46.0	0.3		
			LN		$M_S=5.8$	20.0	3.67
			LE			20.0	4.09
KMI	56.5	304	+P	08 22 05.0	−0.4		
			PMZ		$m_b=5.4$	2.0	0.10
			pP	08 22 19.5	−0.5		
			S	08 29 50.0	1.2		
			sS	08 30 10.0	−5.6		
			LN		$M_S=5.7$	20.0	1.80
			LE			23.0	3.90
			LZ		$M_S=5.6$	24.0	5.50
CD2	58.3	311	P	08 22 17.6	−0.4		
			eS	08 30 11.0	−2.9		
			LE		$M_S=5.8$	20.0	4.71
			LZ		$M_S=5.6$	20.0	4.82
HHC	58.8	325	+P	08 22 21.0	−0.3		
			PP	08 24 35.0	2.9		
			S	08 30 25.0	6.3		
			SMN			9.0	1.00
			SME			10.0	0.70
			LN		$M_S=5.7$	20.0	1.65
			LE			21.0	4.08
			LZ		$M_S=5.6$	28.0	7.40
BTO	59.5	324	P	08 22 26.0	−0.4		
			ePP	08 24 35.0	−3.7		
			eS	08 30 31.0	1.3		
			LN		$M_S=5.9$	20.0	4.60
			LE			20.0	2.90
LZH	60.9	316	eP	08 22 35.8	0.2		
			PMZ		$m_b=5.1$	1.2	0.027
			PMZ		$m_B=5.7$	7.0	0.67
			pP	08 22 50.0	−0.3		
			PcP	08 23 18.0	0.8		
			PP	08 24 52.0	1.2		
			eS	08 30 50.5	3.4		
			SME			22.0	1.60
			sS	08 31 06.0	−6.5		
			eSS	08 34 52.0	5.5		
			LN		$M_S=5.7$	19.0	1.69
			LE			19.0	2.65
			LZ		$M_S=5.6$	26.0	6.40
GTA	65.3	318	+iP	08 23 05.0	0.0		
			PMZ		$m_b=5.2$	1.0	0.030
			PMZ		$m_B=5.7$	10.0	1.02
			S	08 31 42.0	1.1		
			SS	08 36 00.0	3.5		
			LE		$M_S=5.6$	20.0	2.83
			LZ		$M_S=5.6$	26.0	5.49
LSA	67.7	305	P	08 23 21.2	0.4		
WMQ	75.4	318	+iP	08 24 05.5	−0.5		
			PMZ		$m_B=5.7$	6.0	0.68
			eS	08 33 42.0	2.1		
			LZ		$M_S=5.6$	23.0	4.02
KSH	82.5	311	eP	08 24 46.0	0.9		
			ePP	08 28 01.0	5.6		
			eS	08 35 02.0	6.0		
			LZ		$M_S=5.8$	25.0	5.00

JUN 15d 12h 41m 02.2 ± 0.07s, SD1.60 / 50
21.15 N ± 0.92km, 119.71 E ± 0.81km, h33 ± 0.27km
Philippine Islands region (248)
M_S4.4 / 20, M_L3.8 / 9, m_b4.4 / 4

QZH	3.9	345	ePn	12 41 57.9	−2.4		
			SMN		$M_L=3.7$	0.8	0.17
			SME			1.0	0.19
			LE		$M_S=3.8$	12.0	1.90
			LZ		$M_S=3.8$	12.0	1.69
GZH	6.2	289	−P	12 42 31.6	−2.3		
			LN		$M_S=4.1$	9.0	1.02
			LE			10.0	1.53
QZN	9.5	259	P	12 43 19.5	−0.5		
			S	12 45 06.0	−0.7		
			LN		$M_S=4.4$	10.0	1.53
			LE			12.0	1.43
SSE	10.0	7	eP	12 43 25.3	−1.2		
			S	12 45 20.0	1.6		
			LN		$M_S=4.4$	9.0	0.96
			LE			10.0	1.00
			LZ		$M_S=4.2$	9.0	1.00
WHN	10.5	334	eP	12 43 35.0	1.1		
			sP	12 43 44.0	−1.7		
			eS	12 45 35.0	3.3		
			SMN			1.4	0.090
			SME			1.5	0.12
			LN		$M_S=4.4$	11.0	1.56
			LE			10.0	0.84
			LZ		$M_S=4.2$	12.0	1.20
NJ2	10.9	356	eP	12 43 42.0	3.2		
			LN		$M_S=4.3$	11.0	0.69
			LE			10.0	0.87
			LZ		$M_S=3.9$	12.0	0.61
GYA	13.1	296	P	12 44 07.6	−0.7		
			LN		$M_S=4.3$	10.0	0.80
			LZ		$M_S=4.7$	20.0	5.00
			LZ		$M_S=4.6$	22.0	4.50
XAN	16.0	326	P	12 44 48.0	1.5		
			LN		$M_S=4.5$	12.0	1.28
CD2	17.3	307	eP	12 45 05.0	2.0		
			LN		$M_S=4.7$	10.0	1.67
TIY	17.7	341	+P	12 45 08.9	1.3		
			pP	12 45 15.0	−0.1		
			eS	12 48 28.0	6.8		
			LN		$M_S=4.7$	10.0	1.42
			LZ		$M_S=4.4$	11.0	0.99
DL2	17.8	5	eP	12 45 12.0	3.2		
BJI	19.1	352	eP	12 45 24.0	−0.7		
			PMZ		$m_b=4.2$	1.2	0.016
			LZ		$M_S=4.1$	12.0	0.48
LZH	20.3	320	eP	12 45 40.8	2.1		

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			sP	12 45 52.0	0.5		
			eS	12 49 23.0	2.5		
			esS	12 49 33.0	0.4		
			LN	M_S=4.4		11.0	0.35
			LE			11.0	0.54
			LZ	M_S=4.4		12.0	0.90
HHC	20.8	342	P	12 45 44.0	0.4		
SNY	20.9	8	eP	12 45 40.7	−3.3		
			eS	12 49 36.0	5.9		
			LE	M_S=4.4		13.0	0.74
			LZ	M_S=4.2		11.0	0.50
BTO	21.1	339	eP	12 45 46.0	−0.2		
			eS	12 49 35.0	0.8		
			LN	M_S=4.6		12.0	0.50
			LE			12.0	0.90
CN2	23.1	11	eP	12 46 07.0	0.9		
			pP	12 46 16.0	1.0		
			eS	12 50 11.0	0.0		
			LZ	M_S=3.9		14.0	0.30
MDJ	24.8	17	eP	12 46 23.0	0.3		
GTA	24.9	321	eP	12 46 26.2	2.0		
			LE	M_S=4.4		10.0	0.45
			LZ	M_S=4.3		15.0	0.64
WMQ	34.9	318	eP	12 47 50.6	−2.2		

JUN 15d 13h 21m 24.0±0.12s, SD1.80/38
10.08 N±1.77km, 127.08 E±0.84km, h32±0.08km
Mindanao (259)
M_S4.5/4, m_b5.2/4,

QZN	18.9	300	eP	13 25 43.6	−1.0		
			LE	M_S=4.4		12.0	0.75
SSE	21.6	346	eP	13 26 11.3	−2.2		
NJ2	23.2	342	eP	13 26 27.4	−1.3		
WHN	23.6	332	eP	13 26 32.0	−0.7		
			sP	13 26 43.5	−2.0		
GYA	25.3	313	P	13 26 49.4	0.1		
			S	13 31 07.0	−2.7		
			LN	M_S=4.6		15.0	0.90
			LE			15.0	0.70
TIA	27.5	342	eP	13 27 09.5	−0.7		
KMI	27.5	306	+P	13 27 10.0	−0.5		
			sP	13 27 24.5	1.5		
XAN	29.1	328	P	13 27 22.0	−2.1		
DL2	29.1	351	eP	13 27 24.9	0.6		
CD2	30.0	317	eP	13 27 36.8	4.6		
TIY	30.5	337	eP	13 27 36.5	−0.4		
			sS	13 32 47.0	−3.2		
			LN	M_S=4.6		20.0	1.00
			LZ	M_S=4.2		20.0	0.50
BJI	31.4	344	eP	13 27 44.0	−0.4		
SNY	31.8	355	+P	13 27 47.0	−0.9		
			LZ	M_S=4.1		16.0	0.35
LZH	33.4	325	eP	13 28 02.4	0.2		
			LZ	M_S=4.3		18.0	0.54
MDJ	34.5	3	eP	13 28 10.4	−1.0		
GTA	38.0	325	P	13 28 40.4	−0.9		
			LZ	M_S=4.5		16.0	0.58

JUN 15d 13h 58m 17.8±0.03s, SD1.85/8
42.68 N±0.29km, 82.96 E±0.30km, h32±0.17km
Northern Xinjiang Province (332)
M_L3.5/7,

WMQ	3.6	70	Pn	13 59 15.7	3.0		
			Sn	13 59 59.6	3.5		
			SMN	M_L=4.0		0.4	0.076
			SME			0.4	0.66

JUN 15d 15h 04m 50.8±0.05s, SD1.31/89
6.43 S±0.57km, 131.22 E±1.11km, h61±0.13km
Banda Sea (280)
m_b5.2/19,

QZN	32.9	321	eP	15 11 21.3	−0.5		
QZH	33.5	339	eP	15 11 26.5	−0.5		
SSE	38.5	346	eP	15 12 09.0	−0.3		
			PMZ	m_b=4.8		1.0	0.015
NJ2	40.0	344	−P	15 12 23.5	1.6		
WHN	40.2	337	+eP	15 12 24.0	1.1		
			PMZ	m_b=5.1		1.0	0.030
GYA	40.4	325	P	15 12 25.6	0.2		
KMI	41.9	320	+P	15 12 38.0	0.8		
			PMZ	m_b=5.5		1.5	0.10
XAN	45.4	334	+P	15 13 05.5	−0.5		
TIY	47.3	340	−P	15 13 20.7	0.2		
BJI	48.3	345	eP	15 13 27.5	−0.7		
			PMZ	m_b=4.8		0.9	0.011
LZH	49.5	331	eP	15 13 38.0	0.3		
			PMZ	m_b=5.1		1.4	0.037
CN2	50.3	355	eP	15 13 45.0	1.5		
HHC	50.4	341	P	15 13 44.8	0.2		
BTO	50.7	339	eP	15 13 46.8	−0.1		
LSA	52.6	315	P	15 14 02.4	0.6		
GTA	54.1	330	+iP	15 14 12.0	−0.1		
WMQ	63.6	326	+iP	15 15 18.0	−0.1		
			PMZ	m_b=5.4		1.0	0.052

JUN 16d 01h 34m 10.6±0.03s, SD1.22/138
22.49 S±1.28km, 176.74 W±0.85km, h137±0.28km
South of Fiji (171)
m_b5.1/21,

NJ2	82.0	309	eP	01 46 17.0	−0.8		
MDJ	82.8	325	eP	01 46 22.0	0.3		
DL2	84.0	316	eP	01 46 26.6	−0.9		
WHN	84.6	306	eP	01 46 29.5	−1.0		
CN2	84.6	322	eP	01 46 29.0	−1.6		
TIY	89.5	311	eP	01 46 54.9	0.7		
			SKS	01 57 12.0	3.6		

JUN 16d 02h 16m 20.2±0.04s, SD1.50/443
39.25 N±0.74km, 20.57 E±0.53km, h31±0.13km
Greece (364)
M_S5.6/30, m_B5.9/6, m_b5.5/98

KSH	42.2	71	−iP	02 24 14.0	1.5		
			pP	02 24 20.0	−1.3		
			S	02 30 34.0	4.5		
			sS	02 30 50.0	4.7		
			LN	M_S=5.7		10.0	3.50
WMQ	49.2	62	+iP	02 25 07.0	−1.3		
			PP	02 27 02.0	0.4		
			S	02 32 07.0	−3.0		
			LN	M_S=5.6		9.0	1.42
			LE			10.0	1.49
			LZ	M_S=5.1		20.0	1.80
GTA	59.3	62	+iP	02 26 20.0	−2.1		
			PMZ	m_b=5.5		0.8	0.050
			S	02 34 26.0	0.4		
			SS	02 38 15.0	−6.9		
			LE	M_S=5.3		15.0	1.06
			LZ	M_S=5.1		20.0	1.62
LZH	63.7	64	+iP	02 26 50.2	−1.5		
			PMZ	m_b=5.7		1.5	0.15
			pP	02 26 57.5	−3.4		
			eS	02 35 20.0	−3.0		
			esS	02 35 37.0	−1.0		
			LN	M_S=5.4		18.0	1.40
			LZ	M_S=5.0		28.0	1.60
BTO	65.5	57	P	02 27 02.5	−1.1		

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			epP	02 27 11.5	−1.3		
			eS	02 35 49.0	3.4		
			LN	$M_S=5.5$		12.0	0.80
			LE			12.0	0.90
CD2	66.3	69	P	02 27 06.8	−1.9		
			iS	02 35 55.0	−0.3		
HHC	66.4	56	−P	02 27 08.3	−0.9		
			sP	02 27 17.5	−4.6		
			PP	02 29 40.0	3.3		
			S	02 35 58.0	3.4		
			LN	$M_S=5.5$		13.0	1.02
			LE			12.0	0.80
			LZ	$M_S=5.2$		20.0	1.40
XAN	68.3	63	+iP	02 27 19.0	−2.1		
			PMZ	$m_b=5.6$		1.0	0.080
			PP	02 29 48.0	−5.2		
			S	02 36 15.0	−2.5		
			LN	$M_S=5.3$		10.0	0.47
			LE			12.0	0.52
TIY	68.7	58	+P	02 27 22.0	−1.4		
			S	02 36 21.0	−0.8		
			LN	$M_S=5.5$		13.0	0.80
			LE			12.0	0.83
			LZ	$M_S=5.6$		15.0	2.60
KMI	68.8	74	+P	02 27 21.5	−2.7		
			PMZ	$m_b=5.6$		1.5	0.12
			sP	02 27 36.0	−1.1		
			S	02 36 22.0	−1.0		
			LZ	$M_S=5.0$		20.0	0.90
BJI	69.8	55	eP	02 27 28.5	−1.6		
			PMZ	$m_b=5.8$		1.5	0.17
			eS	02 36 36.0	−0.4		
			LN	$M_S=5.8$		14.0	2.70
			LZ	$M_S=5.3$		22.0	1.97
GYA	70.9	71	P	02 27 36.0	−1.3		
			PMZ	$m_b=5.6$		1.2	0.10
			pP	02 27 46.0	−0.4		
			S	02 36 48.0	−0.4		
CN2	73.1	47	eP	02 27 49.0	−1.3		
			PMZ	$m_b=5.7$		1.0	0.10
			PMZ	$m_B=5.9$		4.0	0.60
			pP	02 27 57.0	−2.4		
			eS	02 37 11.0	−4.1		
			eSS	02 42 04.0	6.5		
			LN	$M_S=5.6$		12.0	1.00
			LE			12.0	0.90
			LZ	$M_S=5.5$		16.0	2.20
SNY	73.3	50	+P	02 27 49.0	−2.0		
			PMZ	$m_b=5.4$		1.2	0.052
			pP	02 27 59.0	−1.2		
			eS	02 37 12.0	−4.5		
			LN	$M_S=5.7$		13.0	0.73
			LE			14.0	1.59
			LZ	$M_S=5.4$		16.0	1.76
DL2	73.9	53	+P	02 27 52.5	−2.0		
			PMZ	$m_b=5.5$		1.2	0.074
			eS	02 37 20.0	−3.3		
			LE	$M_S=5.5$		12.0	1.01
			LZ	$M_S=5.1$		20.0	0.97
WHN	74.1	64	−P	02 27 54.7	−1.0		
			PMZ	$m_b=5.3$		0.5	0.020
			pP	02 28 03.5	−1.4		
			PP	02 30 40.0	−2.0		
			eS	02 37 22.0	−3.6		
			LE	$M_S=5.3$		14.0	0.67
			LZ	$M_S=5.0$		16.0	0.59
MDJ	74.9	44	eP	02 27 58.7	−1.9		
			sP	02 28 12.0	−1.7		
			iS	02 37 36.0	0.9		
			SS	02 42 24.0	−0.2		
			LE	$M_S=6.1$		18.0	5.10
			LZ	$M_S=5.7$		16.0	3.10
NJ2	76.2	60	+P	02 28 06.5	−1.7		
			S	02 37 47.0	−1.2		
			LZ	$M_S=5.1$		17.0	0.83
QZN	77.7	76	P	02 28 15.0	−1.2		
			eS	02 38 01.5	−3.8		
SSE	78.4	59	−P	02 28 18.0	−2.2		
			PMZ	$m_b=5.3$		1.2	0.044
			pP	02 28 28.0	−1.5		
			eS	02 38 10.0	−3.1		
			LZ	$M_S=5.1$		20.0	0.92

JUN 16d 04h 53m 42.3 ± 0.03s, SD1.41 / 251
27.94 N ± 0.72km, 128.01 E ± 0.61km, h28 ± 0.15km
Ryukyu Islands (238)
M_S6.3 / 59, M_L5.7 / 2, m_B6.3 / 38,

SSE	6.7	299	+P	04 55 21.0	−0.8		
			PMZ	$m_b=5.3$		0.6	0.12
			PMZ	$m_B=5.5$		8.0	2.32
			sP	04 55 32.0	−0.6		
			sS	04 56 48.0	−0.5		
			LN	$M_S=6.1$		10.0	156
			LZ	$M_S=6.0$		9.0	106
NJ2	8.9	299	+P	04 55 50.6	−1.9		
			PMZ	$m_b=5.9$		0.6	0.23
			S	04 57 34.0	1.0		
			LZ	$M_S=5.6$		18.0	54.3
QZH	9.0	253	−P	04 55 52.0	−0.9		
			PMZ	$m_b=5.9$		0.7	0.29
			PMZ	$m_B=6.5$		4.0	7.10
			pP	04 56 00.0	0.5		
			S	04 57 33.0	−0.6		
			LE	$M_S=5.9$		10.0	65.2
			LZ	$M_S=6.1$		10.0	111
DL2	12.2	336	+iP	04 56 36.0	−0.7		
			PMZ	$m_b=5.4$		1.4	0.11
			PMZ	$m_B=6.1$		11.0	3.89
			S	04 58 50.0	−2.0		
			LN	$M_S=6.1$		10.0	23.2
			LE			12.0	67.2
WHN	12.2	286	−P	04 56 38.0	0.6		
			PMZ	$m_b=5.5$		2.0	0.21
			PMZ	$m_B=6.2$		7.0	3.14
			pP	04 56 42.5	−1.4		
			eS	04 58 50.0	−3.6		
			SMN			2.0	6.35
			SME			2.0	3.11
			LN	$M_S=6.5$		14.0	200
			LE			13.0	61.6
			LZ	$M_S=5.6$		16.0	38.6
TIA	12.4	315	P	04 56 38.7	−0.9		
			PMZ	$m_B=6.4$		7.0	4.70
			sP	04 56 50.5	0.0		
			LE	$M_S=6.4$		13.0	162
GZH	14.1	253	+P	04 57 04.0	1.6		
			PMZ	$m_B=6.5$		8.0	6.64
			S	04 59 43.0	4.5		
			LN	$M_S=6.3$		11.0	64.8
			LE			10.0	47.5
			LZ	$M_S=6.0$		10.0	53.4
SNY	14.3	346	+iP	04 57 08.6	3.3		
			PMZ	$m_b=6.5$		2.0	1.70
			PMZ	$m_B=6.8$		7.0	13.0
			pP	04 57 16.0	4.1		
			S	04 59 47.0	3.3		

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			SMN				5.0	2.84
			SME				10.0	5.38
			LN		$M_S=6.4$		12.0	82.9
			LE				11.0	85.7
BJI	15.5	324	eP	04 57 23.5		2.3		
			PMZ		$m_b=5.8$		1.0	0.41
			PMZ		$m_B=6.2$		10.0	11.5
			eS	05 00 14.0		1.1		
			esS	05 00 28.0		4.4		
			LN		$M_S=6.1$		12.0	45.2
			LE				12.0	33.5
CN2	16.0	353	−P	04 57 27.0		0.3		
			PMZ		$m_b=6.2$		1.8	2.10
			PMZ		$m_B=6.7$		6.0	20.5
			sP	04 57 40.0		2.2		
			S	05 00 26.0		3.8		
			LN		$M_S=6.0$		10.0	21.2
			LE				10.0	25.2
			LZ		$M_S=5.6$		21.0	34.6
TIY	16.3	311	−iP	04 57 33.0		1.9		
			PMZ		$m_B=6.2$		10.0	12.6
			S	05 00 30.0		−0.1		
			sS	05 00 45.0		3.5		
			LE		$M_S=6.2$		13.0	66.6
			LZ		$M_S=6.0$		16.0	65.5
MDJ	16.7	4	−iP	04 57 39.5		3.6		
			PMZ		$m_b=6.1$		2.1	1.80
			PMZ		$m_B=6.8$		7.0	30.2
			SME				14.0	29.3
			LN		$M_S=6.1$		16.0	41.6
			LE				13.0	38.2
			LZ		$M_S=5.8$		16.0	39.2
XAN	17.4	295	+P	04 57 46.0		0.5		
			PMZ		$m_B=5.9$		9.0	4.80
			S	05 00 57.0		0.5		
			LN		$M_S=6.4$		14.0	82.2
			LE				14.0	83.3
HHC	18.7	318	−iP	04 58 02.0		1.3		
			PMZ		$m_B=6.4$		6.0	10.8
			SMN				13.0	11.9
			SME				8.0	6.40
			LN		$M_S=6.4$		13.0	76.6
			LE				14.0	43.2
			LZ		$M_S=6.2$		15.0	85.1
QZN	18.9	246	−P	04 58 03.0		0.0		
			PMZ		$m_B=6.0$		8.0	5.37
			S	05 01 27.0		−1.4		
			sS	05 01 42.5		2.4		
			LN		$M_S=6.1$		13.0	37.7
			LE				12.0	24.7
GYA	19.0	270	−P	04 58 06.0		0.7		
			PMZ		$m_b=5.4$		2.0	0.40
			PMZ		$m_B=6.4$		4.0	8.40
			S	05 01 33.0		0.5		
			sS	05 01 46.0		1.7		
			LN		$M_S=6.3$		13.0	50.9
			LE				13.0	33.7
			LZ		$M_S=5.5$		16.0	16.8
BTO	19.5	315	−iP	04 58 10.0		0.1		
			PMZ		$m_B=6.3$		7.0	11.1
			sP	04 58 22.0		0.9		
			S	05 01 45.0		3.3		
			LN		$M_S=6.4$		13.0	69.8
			LE				13.0	49.1
CD2	21.3	284	P	04 58 28.0		−1.5		
			S	05 02 26.0		6.8		
			LN		$M_S=6.5$		11.0	79.1
LZH	22.0	298	−iP	04 58 36.7		0.3		
			PMZ		$m_B=6.3$		6.0	7.94
			pP	04 58 46.0		1.7		
			sP	04 58 50.0		1.9		
			PP	04 59 00.0		−1.6		
			eS	05 02 32.0		−1.0		
			sS	05 02 45.0		−0.6		
			SS	05 03 09.3		−1.6		
			LN		$M_S=6.5$		11.0	62.7
			LE				13.0	47.5
			LZ		$M_S=6.1$		14.0	48.1
KMI	22.8	269	+iP	04 58 45.0		1.0		
			sP	04 58 53.0		−2.6		
			eS	05 02 48.0		1.1		
			sS	05 03 04.0		4.4		
			LN		$M_S=6.2$		10.0	27.0
			LE				10.0	17.1
			LZ		$M_S=5.8$		14.0	24.7
GTA	26.0	303	−iP	04 59 14.5		−0.6		
			PMZ		$m_B=6.3$		7.0	5.11
			sP	04 59 27.0		0.2		
			S	05 03 38.0		−3.0		
			sS	05 03 57.0		1.6		
			SS	05 04 42.0		−5.9		
			LN		$M_S=6.4$		12.0	50.2
			LZ		$M_S=6.3$		14.0	58.6
LSA	32.3	282	P	05 00 11.8		0.3		
			eS	05 05 27.5		4.9		
			LN		$M_S=5.9$		13.0	10.4
			LE				12.0	3.70
WMQ	35.9	307	−iP	05 00 41.7		−0.8		
			PMZ		$m_B=6.3$		6.0	3.11
			S	05 06 21.0		3.6		
			LN		$M_S=6.3$		13.0	24.6
			LZ		$M_S=6.4$		15.0	43.6
KSH	44.3	299	+iP	05 01 52.0		0.1		
			epP	05 02 01.0		0.7		
			PP	05 03 38.0		1.7		
			S	05 08 22.0		−0.6		
			sS	05 08 38.0		0.3		
			LN		$M_S=6.6$		14.0	41.0
			LZ		$M_S=6.3$		12.0	20.1

JUN 16d 09h 24m 37.0 ± 0.06s, SD3.04 / 11
29.16 N ± 0.58km, 105.10 E ± 0.56km, h15 ± 0.22km
Sichuan Province (307)
M_L3.5 / 9,

CD2	2.1	327	Pg	09 25 12.1		−2.0		
			Sg	09 25 38.0		−4.7		
GYA	3.0	152	Pn	09 25 28.8		3.8		
			SMN		$M_L=3.2$		1.2	0.10
			SME				1.2	0.10

JUN 16d 10h 28m 01.5 ± 0.06s, SD2.52 / 25
29.17 N ± 0.62km, 105.07 E ± 0.54km, h7 ± 0.17km
Sichuan Province (307)
M_S3.8 / 3, M_L3.6 / 13,

CD2	2.1	327	Pg	10 28 38.0		−0.3		
			Sg	10 29 04.4		−2.2		
			SMN				2.0	3.59
GYA	3.0	152	Pn	10 28 52.0		1.4		
			Sn	10 29 28.4		−0.7		
			SMN		$M_L=3.4$		1.0	0.20
			SME				1.0	0.10
			LN		$M_S=3.9$		6.0	0.50
			LE				6.0	1.30
KMI	4.5	208	−Pg	10 29 26.0		4.6		
			Sg	10 30 22.0		−0.6		
			SMN		$M_L=3.6$		1.6	0.080

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			SME			1.6	0.10
			LN	$M_S=3.8$		6.0	0.60
			LE			6.0	0.60
XAN	5.9	33	Pn	10 29 29.7	0.4		
			Pg	10 29 51.5	6.5		
			Sn	10 30 36.0	−3.0		
			Sg	10 31 06.5	1.3		
			SMN	$M_L=4.1$		1.0	0.14
			SME			1.0	0.15
LZH	7.0	352	ePg	10 30 10.0	5.0		
			Sg	10 31 39.0	−1.1		
			SMN	$M_L=4.5$		1.6	0.18
			SME			2.0	0.24
WHN	8.2	78	eP	10 30 03.5	−0.1		
			SME			12.0	0.35
TIY	10.5	34	eP	10 30 32.8	−3.2		
			S	10 32 30.0	−4.7		
			LE	$M_S=3.7$		9.0	0.28

JUN 17d 04h 51m 44.9 ± 0.04s, SD1.28 / 451
27.40 N ± 1.10km, 65.68 E ± 0.57km, h14 ± 0.07km
Pakistan (710)
M_S6.5 / 63, m_B6.5 / 42, m_b5.8 / 102

KSH	14.8	33	−iP	04 55 15.0	−1.0		
			eS	04 57 59.0	−1.8		
			LE	$M_S=6.2$		8.0	47.5
			LZ	$M_S=5.9$		16.0	56.2
LSA	22.5	78	+iP	04 56 48.1	2.0		
			S	05 00 49.5	3.0		
			sS	05 01 00.0	3.3		
			LN	$M_S=6.1$		9.5	21.6
			LE			9.0	15.1
WMQ	24.2	42	+iP	04 57 04.0	1.9		
			PMZ	$m_B=7.1$		5.0	32.4
			LE	$M_S=6.5$		16.0	99.2
			LZ	$M_S=6.5$		13.0	90.8
GTA	30.7	58	+iP	04 58 03.8	1.3		
			PMZ	$m_B=6.3$		8.0	4.27
			sP	04 58 12.0	0.7		
			PP	04 59 03.4	0.9		
			PcP	05 01 01.2	1.8		
			S	05 03 06.0	2.9		
			sS	05 03 14.0	0.0		
			ScP	05 04 38.0	−2.4		
			PcS	05 04 44.0	2.0		
			LE	$M_S=6.4$		15.0	46.9
			LZ	$M_S=6.3$		18.0	61.8
KMI	33.2	85	+P	04 58 25.0	0.5		
			PMZ	$m_b=6.2$		2.5	0.93
			pP	04 58 32.0	1.7		
			sP	04 58 35.5	2.3		
			iS	05 03 45.0	1.4		
			SS	05 05 50.0	6.4		
			LN	$M_S=6.3$		10.0	19.2
			LE			10.0	8.60
			LZ	$M_S=6.2$		18.0	40.5
CD2	33.3	75	+iP	04 58 25.3	0.1		
			PMZ	$m_b=6.3$		0.8	0.38
			PMZ	$m_B=6.0$		8.0	2.12
			S	05 03 47.0	3.3		
			LN	$M_S=6.6$		14.0	69.9
			LZ	$M_S=6.0$		16.0	21.2
LZH	33.4	65	+iP	04 58 27.0	0.9		
			PMZ	$m_b=6.8$		2.5	4.13
			PMZ	$m_B=6.7$		5.0	5.83
			pP	04 58 32.5	0.6		
			sP	04 58 35.7	0.9		
			PP	04 59 40.0	2.8		
			eS	05 03 47.0	0.7		
			SME			8.0	3.95
			sS	05 03 56.0	0.1		
			SS	05 05 44.0	−3.8		
			LE	$M_S=6.5$		12.0	38.9
			LZ	$M_S=6.4$		16.0	56.9
GYA	36.4	82	+iP	04 58 51.4	−0.4		
			PMZ	$m_b=5.8$		1.2	0.20
			PMZ	$m_B=6.4$		5.0	3.10
			sP	04 59 00.4	−0.3		
			S	05 04 33.0	1.3		
			SMN			8.0	5.60
			SME			8.0	4.10
XAN	37.5	69	+iP	04 59 01.5	0.4		
			PMZ	$m_B=6.3$		7.0	4.20
			S	05 04 52.0	3.3		
			LN	$M_S=6.4$		14.0	24.7
			LE			12.0	20.5
BTO	38.7	58	+iP	04 59 12.0	1.6		
			sP	04 59 20.5	1.2		
			PP	05 00 41.0	−1.1		
			S	05 05 07.0	1.5		
			sS	05 05 16.0	−0.6		
			LN	$M_S=6.6$		13.0	30.5
			LE			13.0	39.0
HHC	39.8	58	+iP	04 59 22.6	2.2		
			PMZ	$m_b=5.9$		1.6	0.31
			PP	05 00 57.0	1.5		
			S	05 05 20.0	−3.5		
			SMN			8.0	1.70
			SME			8.0	4.10
			LN	$M_S=6.5$		13.0	23.1
			LE			12.0	24.6
			LZ	$M_S=6.3$		20.0	43.9
TIY	40.4	63	+iP	04 59 25.9	1.3		
			PMZ	$m_b=6.1$		1.0	0.33
			PMZ	$m_B=6.6$		6.0	6.52
			PP	05 01 04.5	3.6		
			ScP	05 05 13.0	−2.2		
			S	05 05 36.0	4.7		
			LE	$M_S=6.5$		13.0	32.8
			LZ	$M_S=6.6$		16.0	68.2
QZN	41.3	92	P	04 59 32.4	0.5		
			PMZ	$m_b=5.9$		1.4	0.32
			S	05 05 45.0	0.4		
			LN	$M_S=6.5$		16.0	42.6
WHN	42.4	74	+iP	04 59 42.5	1.0		
			PMZ	$m_b=6.4$		1.0	0.60
			PMZ	$m_B=6.6$		5.0	5.10
			PP	05 01 28.0	5.4		
			iS	05 06 00.0	−2.9		
			LN	$M_S=6.6$		14.0	37.0
			LE			10.0	9.01
			LZ	$M_S=6.1$		20.0	26.9
GZH	43.1	85	eP	04 59 46.0	−1.2		
			PMZ	$m_B=6.4$		6.0	4.20
			S	05 06 12.0	0.0		
			LN	$M_S=6.3$		11.0	13.0
			LE			13.0	12.5
			LZ	$M_S=5.9$		17.0	14.4
BJI	43.3	60	eP	04 59 50.0	1.3		
			PMZ	$m_b=6.2$		1.5	0.65
			PMZ	$m_B=6.5$		6.0	4.90
			ePP	05 01 34.0	2.8		
			eS	05 06 16.0	0.2		
			esS	05 06 26.0	0.0		
			eScS	05 09 50.0	4.6		
			LN	$M_S=6.7$		12.0	21.9

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			LE			12.0	30.5
			LZ	$M_S=6.3$		20.0	35.9
TIA	44.2	65	+P	04 59 56.4	0.8		
			PMZ	$m_b=6.2$		1.0	0.39
			PMZ	$m_B=6.5$		6.0	5.08
			S	05 06 29.5	2.5		
			LN	$M_S=6.3$		12.0	16.2
			LE			12.0	7.90
NJ2	46.0	71	+iP	05 00 11.0	0.5		
			PMZ	$m_b=6.3$		0.8	0.40
			PMZ	$m_B=6.4$		6.0	3.57
			sP	05 00 19.8	0.3		
			S	05 06 54.0	0.1		
			LN	$M_S=6.4$		13.0	19.3
			LE			13.0	7.18
			LZ	$M_S=6.0$		20.0	16.5
QZH	47.3	80	−iP	05 00 20.0	−0.2		
			PMZ	$m_B=6.3$		6.0	2.91
			PP	05 02 13.0	2.9		
			S	05 07 14.0	2.6		
			LN	$M_S=6.5$		16.0	20.0
			LE			16.0	20.2
DL2	47.6	61	+iP	05 00 23.0	0.4		
			PMZ	$m_b=5.9$		1.0	0.20
			PMZ	$m_B=6.3$		7.0	3.50
			S	05 07 16.0	0.3		
			SMN			10.0	2.57
			SME			10.0	2.82
			LN	$M_S=6.7$		14.0	14.6
			LE			16.0	41.8
SSE	48.2	72	+P	05 00 26.5	−0.7		
			PMZ	$m_b=5.8$		1.0	0.14
			PMZ	$m_B=6.5$		6.0	4.27
			pP	05 00 37.0	3.7		
			PP	05 02 20.0	1.9		
			S	05 07 24.0	0.0		
			ScS	05 10 16.0	−0.4		
			SS	05 10 52.0	3.9		
			LN	$M_S=6.4$		11.0	10.4
			LE			12.0	15.5
			LZ	$M_S=6.2$		20.0	28.0
SNY	48.9	57	+iP	05 00 32.5	−0.5		
			PMZ	$m_b=6.1$		1.8	0.48
			PMZ	$m_B=6.5$		5.5	4.39
			PP	05 02 29.0	3.3		
			S	05 07 30.0	−4.6		
			sS	05 07 42.0	−4.0		
			ScS	05 10 21.0	−0.4		
			LN	$M_S=6.7$		13.0	25.1
			LE			17.0	40.0
			LZ	$M_S=6.5$		18.0	50.0
CN2	50.2	54	+iP	05 00 43.0	−0.1		
			PMZ	$m_b=6.3$		2.0	0.90
			PMZ	$m_B=6.7$		5.0	5.00
			pP	05 00 50.5	1.3		
			PP	05 02 40.0	1.4		
			S	05 07 53.0	0.2		
			SS	05 11 24.0	1.0		
			LN	$M_S=6.6$		13.0	11.0
			LE			13.0	23.0
			LZ	$M_S=6.4$		16.0	29.0
MDJ	53.2	53	+P	05 01 04.5	−0.8		
			PMZ	$m_B=6.5$		6.2	4.30
			pP	05 01 14.0	2.6		
			sP	05 01 18.0	3.7		
			iS	05 08 36.0	1.7		
			SME			9.0	2.65
			LE	$M_S=6.9$		15.0	52.1
			LZ	$M_S=6.5$		18.0	42.6

JUN 17d 05h 15m 16.3±0.05s, SD3.64/8
31.91 N±0.43km, 103.63 E±0.52km, h13±0.14km
Sichuan Province (307)
M_L3.9/4,

CD2	1.0	174	Pg	05 15 33.8	−0.4		
			Sg	05 15 47.3	−0.6		
			SMN	$M_L=3.9$		0.6	5.30
			SME			0.6	0.82

JUN 17d 16h 21m 21.2±0.18s, SD4.84/6
24.77 N±2.19km, 99.30 E±0.68km, h5±km
Burma–China border region (297)
M_L3.6/4,

GYA	6.9	74	Pg	16 23 17.6	−4.8		

JUN 17d 16h 46m 03.6±0.05s, SD1.16/75
38.29 S±1.48km, 16.47 W±1.04km, h9±0.13km
South Atlantic Ridge (410)
m_b5.1/27,

BJI	143.6	72	ePKP	17 05 41.0	1.1		
CN2	150.9	67	−PKP	17 05 57.0	4.9		

JUN 17d 17h 17m 42.5±0.04s, SD1.12/260
27.34 N±0.99km, 65.54 E±0.47km, h15±0.02km
Pakistan (710)
M_S5.6/40, m_B5.5/4, m_b5.2/90

KSH	14.9	33	eP	17 21 13.0	−2.1		
			sP	17 21 20.0	−3.7		
			eS	17 23 58.0	−3.0		
			LN	$M_S=5.8$		9.0	22.3
LSA	22.6	78	P	17 22 46.5	1.5		
			LN	$M_S=5.2$		10.0	2.48
			LE			10.0	1.56
WMQ	24.3	42	+iP	17 23 02.3	1.5		
			PMZ	$m_b=5.4$		2.0	0.29
			S	17 27 22.0	6.4		
			LN	$M_S=5.6$		13.0	8.28
			LE			13.0	3.95
			LZ	$M_S=5.6$		16.0	14.6
GTA	30.9	58	+iP	17 24 01.8	0.6		
			PMZ	$m_b=5.6$		1.0	0.11
			PMZ	$m_B=5.4$		8.0	0.57
			S	17 29 05.5	2.9		
			sS	17 29 14.0	0.2		
			LE	$M_S=5.4$		14.0	4.67
			LZ	$M_S=5.4$		17.0	7.08
KMI	33.4	85	eP	17 24 22.5	−0.7		
			PMZ	$m_b=5.5$		1.5	0.12
			S	17 29 43.0	1.4		
			LZ	$M_S=5.2$		16.0	4.10
CD2	33.5	75	P	17 24 23.2	−0.6		
			PMZ	$m_b=5.6$		1.0	0.11
			S	17 29 41.0	−2.2		
			LE	$M_S=5.4$		11.0	3.10
			LZ	$M_S=5.2$		14.0	3.60
LZH	33.6	65	+P	17 24 25.0	0.2		
			PMZ	$m_b=5.6$		1.5	0.15
			PMZ	$m_B=5.6$		4.0	0.40
			pP	17 24 30.0	−0.7		
			PP	17 25 35.0	−1.1		
			eS	17 29 45.0	−0.8		
			SS	17 31 55.0	6.6		
			LN	$M_S=5.5$		12.0	2.20
			LE			12.0	3.26
			LZ	$M_S=5.4$		18.0	7.00
GYA	36.6	82	P	17 24 49.8	−0.6		

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			sP	17 24 55.8	−3.7			
			PP	17 26 11.0	−3.2			
			S	17 30 26.0	−5.1			
			LN	$M_S=5.6$		16.0	6.10
			LE			16.0	2.50
			LZ	$M_S=5.3$		18.0	5.00
XAN	37.7	69	+P	17 24 59.5	−0.2		
			S	17 30 49.0	0.8		
			LN	$M_S=5.5$		14.0	2.74
			LE			12.0	2.07
BTO	38.8	58	P	17 25 10.5	1.4		
			pP	17 25 15.5	0.3		
			PP	17 26 42.0	0.7		
			eS	17 31 08.0	1.8		
			LN	$M_S=5.6$		14.0	3.10
			LE			15.0	3.20
HHC	40.0	58	P	17 25 20.6	1.6		
			PMZ	$m_b=5.9$		1.4	0.31
			pP	17 25 25.0	−0.1		
			PP	17 26 58.5	4.0		
			S	17 31 27.0	4.0		
			LN	$M_S=5.5$		12.0	2.64
			LE			12.0	1.95
			LZ	$M_S=5.3$		18.0	4.23
TIY	40.5	63	+iP	17 25 23.8	0.6		
			PMZ	$m_b=5.3$		1.1	0.060
			S	17 31 27.0	−3.7		
			sS	17 31 37.0	−5.0		
			LE	$M_S=5.4$		13.0	2.83
			LZ	$M_S=5.6$		15.0	5.80
QZN	41.4	92	eP	17 25 31.2	0.8		
WHN	42.6	74	+iP	17 25 40.5	0.4		
			PMZ	$m_b=5.5$		1.0	0.090
			pP	17 25 46.5	0.1		
			sP	17 25 54.5	5.2		
			eS	17 32 02.0	−0.3		
			LE	$M_S=5.6$		14.0	3.67
			LZ	$M_S=5.2$		20.0	2.88
BJI	43.5	60	eP	17 25 48.5	1.2		
			PMZ	$m_b=5.5$		1.0	0.078
			ePP	17 27 34.0	3.9		
			eS	17 32 19.0	3.8		
			eSS	17 35 28.0	6.2		
			LN	$M_S=5.6$		13.0	2.65
			LE			11.0	2.08
			LZ	$M_S=5.5$		16.0	4.70
TIA	44.3	65	+P	17 25 55.1	0.9		
			S	17 32 20.0	−6.4		
			LN	$M_S=5.4$		10.0	0.90
			LE			11.0	1.36
			LZ	$M_S=5.2$		20.0	2.97
NJ2	46.2	71	+P	17 26 09.0	−0.1		
			PMZ	$m_b=5.3$		1.0	0.052
			eS	17 32 53.0	−1.3		
			LZ	$M_S=5.1$		16.0	1.83
DL2	47.7	61	eP	17 26 21.7	0.5		
			PMZ	$m_b=5.5$		1.0	0.080
			eS	17 33 17.0	0.9		
			LN	$M_S=5.4$		14.0	1.82
			LE			14.0	1.35
			LZ	$M_S=5.3$		16.0	2.70
SSE	48.3	72	P	17 26 26.0	0.3		
			PMZ	$m_b=4.9$		1.0	0.019
			sS	17 33 31.0	−3.9		
			SS	17 36 52.0	4.2		
			LE	$M_S=5.4$		12.0	1.70
			LZ	$M_S=5.3$		17.0	2.84
SNY	49.0	57	+P	17 26 30.0	−1.6		
			PMZ	$m_b=5.3$		1.6	0.088
			pP	17 26 35.4	−2.4		
			eS	17 33 30.0	−5.0		
			LN	$M_S=5.7$		13.5	3.14
			LE			15.0	2.91
			LZ	$M_S=5.6$		18.0	5.22
CN2	50.4	54	+P	17 26 42.0	0.3		
			PMZ	$m_b=5.0$		1.0	0.020
			epP	17 26 46.0	−1.8		
			eS	17 33 52.0	−1.2		
			LN	$M_S=5.6$		13.0	1.10
			LE			13.0	2.20
			LZ	$M_S=5.6$		15.0	4.70
MDJ	53.3	53	+P	17 27 02.0	−1.8		
			eS	17 34 32.0	−1.5		
			SS	17 38 12.0	0.6		
			LE	$M_S=5.8$		14.0	3.93
			LZ	$M_S=5.5$		16.0	3.57

JUN 17d 21h 15m 25.6 ± 0.04s, SD1.23 / 146
3.91 N ± 0.56km, 125.72 E ± 0.88km, h167 ± 0.12km
Talaud Islands (263)
m_B5.2 / 2, m_b5.2 / 55,

QZN	21.6	315	+P	21 20 06.2	3.0		
			PMZ	$m_b=5.1$		1.1	0.070
QZH	22.0	343	eP	21 20 08.0	0.8		
			eS	21 23 56.0	1.5		
			sS	21 24 48.0	5.4		
SSE	27.4	352	eP	21 20 58.0	0.4		
			sP	21 21 54.0	2.8		
			S	21 25 24.0	0.8		
			LZ			16.0	0.44
WHN	28.6	339	+eP	21 21 08.5	0.0		
NJ2	28.7	348	+P	21 21 08.0	−1.8		
			LZ			22.0	0.38
GYA	28.9	323	P	21 21 12.0	0.5		
			sP	21 22 04.0	−1.2		
			PcP	21 24 18.0	2.1		
			S	21 25 51.0	3.3		
			ScP	21 27 43.8	3.8		
			ScS	21 31 36.8	4.0		
KMI	30.6	316	eP	21 21 28.0	1.8		
			pP	21 22 02.0	1.5		
			eS	21 26 20.0	5.1		
			LZ			24.0	0.80
TIA	33.1	347	eP	21 21 46.6	−1.5		
XAN	33.8	334	+P	21 21 53.5	−0.7		
CD2	33.9	325	eP	21 21 54.8	−0.2		
TIY	35.8	342	+P	21 22 10.0	−0.8		
			S	21 27 35.0	0.6		
			LZ			20.0	0.63
BJI	37.0	348	eP	21 22 20.0	−0.9		
			PMZ	$m_b=4.9$		1.1	0.035
			eS	21 27 50.0	−3.7		
			eScP	21 28 11.5	3.6		
			eScS	21 32 20.0	5.5		
SNY	37.8	357	+iP	21 22 28.0	0.3		
			PMZ	$m_b=5.7$		1.0	0.21
			pP	21 23 02.0	−1.5		
			iS	21 28 06.0	−0.1		
			SMN			10.0	0.45
			SME			12.0	0.60
LZH	37.8	331	+iP	21 22 29.0	0.7		
			PMZ	$m_b=5.6$		1.5	0.20
			pP	21 23 00.0	−3.8		
			PcP	21 24 43.0	2.1		
			S	21 28 07.0	1.1		
			PcS	21 28 30.0	1.7		

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			ScS	21 32 22.5	3.2			
			LN			10.0	0.50	
			LZ			20.0	0.50	
HHC	38.9	343	eP	21 22 37.0	−0.2			
BTO	39.2	341	eP	21 22 38.0	−1.3			
			eS	21 28 26.0	−0.9			
CN2	39.7	360	+iP	21 22 43.7	0.0			
			PMZ	$m_b = 4.9$		1.0	0.030	
			pP	21 23 20.0	0.4			
			eS	21 28 38.0	3.0			
MDJ	40.7	4	+P	21 22 53.0	1.4			
			PMZ	$m_b = 5.0$		1.2	0.050	
			pP	21 23 22.0	−5.5			
			iS	21 28 53.0	3.8			
			sS	21 29 46.0	−6.1			
			SS	21 31 54.0	3.5			
LSA	41.6	312	P	21 23 00.6	1.3			
GTA	42.4	330	+iP	21 23 06.0	0.0			
			PMZ	$m_b = 5.0$		1.4	0.051	
			PMZ	$m_B = 5.2$		4.0	0.25	
			PcP	21 24 57.0	1.3			
			S	21 29 10.6	−3.2			
			LE			10.0	0.54	
			LZ			12.0	0.72	
WMQ	52.0	326	+iP	21 24 19.6	−0.8			
			PcP	21 25 31.0	1.2			
			S	21 31 30.0	1.7			
			ScS	21 33 51.6	2.5			
			LZ			20.0	0.36	
KSH	57.2	315	eP	21 24 59.0	0.6			
			pP	21 25 33.0	−3.3			
			S	21 32 43.0	4.6			
			sS	21 33 46.0	0.0			

JUN 18d 01h 44m 38.8 ± 0.05s, SD1.40 / 85
21.79 S ± 1.09km, 170.84 E ± 0.73km, h114 ± 0.43km
Loyalty Islands region (189)
m_b4.9 / 7,

CN2	77.4	328	eP	01 56 23.0	−0.7			
BJI	79.8	320	eP	01 56 36.0	−1.1			
			eS	02 06 28.0	−2.0			
			esS	02 07 16.0	−3.3			
TIY	80.7	317	eP	01 56 41.0	−0.8			
XAN	80.9	312	+P	01 56 41.0	−1.9			
LZH	85.5	312	eP	01 57 06.0	−0.4			
			PMZ	$m_b = 5.0$		1.5	0.029	
			pP	01 57 38.5	3.6			
GTA	90.0	313	P	01 57 27.4	−0.1			

JUN 18d 04h 25m 25.3 ± 0.04s, SD1.38 / 92
4.53 N ± 0.61km, 125.78 E ± 0.95km, h207 ± 0.09km
Talaud Islands (263)
m_b5.0 / 32,

QZN	21.2	314	eP	04 29 56.3	0.5			
QZH	21.4	342	P	04 29 58.5	0.5			
			eS	04 33 43.0	4.6			
SSE	26.8	351	eP	04 30 48.0	−0.3			
WHN	28.0	339	eP	04 31 00.0	0.4			
			LE			12.0	0.75	
NJ2	28.1	347	+P	04 30 58.6	−2.0			
XAN	33.3	334	P	04 31 43.5	−2.1			
CD2	33.4	324	P	04 31 45.4	−1.6			
DL2	34.4	354	eP	04 31 55.0	−0.3			
TIY	35.2	341	eP	04 32 00.7	−1.3			
			S	04 37 19.0	0.2			
			LN			13.0	0.32	
			LZ			20.0	0.50	
BJI	36.4	348	eP	04 32 12.0	0.1			
			PMZ	$m_b = 4.9$		1.0	0.036	
SNY	37.2	357	−iP	04 32 18.6	0.1			
			PMZ	$m_b = 5.0$		1.0	0.042	
LZH	37.3	330	P	04 32 20.0	0.0			
			PMZ	$m_b = 4.6$		2.0	0.039	
CN2	39.1	360	P	04 32 34.7	0.2			
MDJ	40.1	4	−P	04 32 43.5	1.1			
			PMZ	$m_b = 5.0$		1.0	0.050	
GTA	41.9	329	eP	04 32 56.0	−1.8			
			PcP	04 34 51.0	2.0			
			ScP	04 38 23.0	4.9			
WMQ	51.5	325	P	04 34 13.0	0.6			

JUN 18d 11h 42m 32.1 ± 0.06s, SD1.95 / 85
24.88 N ± 0.82km, 122.52 E ± 0.86km, h22 ± 0.32km
Taiwan region (243)
M_S4.7 / 31, M_L4.6 / 10, m_B4.9 / 1,

QZH	3.6	272	Pn	11 43 25.5	−1.2			
			Sn	11 44 15.3	5.3			
			SMN	$M_L = 4.4$		0.9	1.59	
			SME			0.9	0.62	
			LN	$M_S = 4.0$		10.0	2.85	
			LZ	$M_S = 4.4$		10.0	5.08	
SSE	6.3	350	−P	11 44 07.0	0.7			
			PMZ	$m_b = 4.9$		0.5	0.052	
			pP	11 44 14.0	1.7			
			SMN	$M_L = 4.7$		1.1	0.46	
			SME			1.1	0.50	
			LN	$M_S = 4.5$		10.0	3.12	
			LE			12.0	3.12	
NJ2	7.8	337	eP	11 44 23.8	−4.1			
			S	11 45 52.5	−4.1			
			SMN	$M_L = 5.2$		1.0	0.80	
			SME			1.0	0.76	
			LN	$M_S = 4.6$		10.0	3.46	
			LE			10.0	2.28	
			LZ	$M_S = 4.2$		12.0	2.01	
WHN	9.2	310	eP	11 44 44.0	−2.4			
			pP	11 44 51.5	−1.1			
			eS	11 46 25.5	−4.5			
			SMN			1.2	0.44	
			SME			1.4	0.49	
			LN	$M_S = 5.2$		8.0	1.62	
			LE			10.0	10.5	
			LZ	$M_S = 4.3$		8.0	1.40	
TIA	12.2	339	eP	11 45 29.9	1.9			
GYA	14.4	280	P	11 46 00.0	3.1			
			S	11 48 38.6	2.4			
			LN	$M_S = 4.7$		10.0	1.70	
			LE			10.0	0.70	
XAN	14.9	311	P	11 46 03.0	−1.1			
			S	11 48 47.0	−2.3			
			LN	$M_S = 4.8$		10.0	2.20	
			LE			10.0	0.87	
BJI	16.0	342	eP	11 46 19.5	1.3			
			PMZ	$m_b = 4.5$		1.0	0.024	
			eS	11 49 20.0	4.7			
			LN	$M_S = 4.4$		10.0	0.82	
			LZ	$M_S = 4.3$		12.0	0.90	
SNY	16.9	3	eP	11 46 30.4	0.9			
			pP	11 46 37.4	1.8			
			LN	$M_S = 4.6$		10.0	1.22	
			LE			10.0	0.54	
			LZ	$M_S = 4.6$		11.0	1.73	
CD2	17.6	294	eP	11 46 37.6	−0.8			
			eS	11 49 55.4	3.1			
			LN	$M_S = 4.8$		9.0	1.54	
			LZ	$M_S = 4.6$		8.0	1.06	

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HHC	18.4	333	eP	11 46 50.0	2.4			
			S	11 50 15.0	6.8			
			sS	11 50 25.0	6.2			
			LN	$M_S=4.7$		9.0	1.15	
			LE			8.0	0.49	
			LZ	$M_S=4.5$		12.0	1.38	
BTO	18.8	329	eP	11 46 55.0	1.5			
			pP	11 47 01.0	1.6			
			eS	11 50 20.0	0.2			
			LN	$M_S=4.9$		9.0	1.50	
			LE			9.0	1.00	
CN2	19.0	7	−P	11 46 56.8	1.2			
			PMZ	$m_b=4.6$		1.0	0.030	
			pP	11 47 06.0	4.3			
			eS	11 50 25.0	1.3			
			LN	$M_S=4.6$		11.0	0.90	
			LE			11.0	0.70	
			LZ	$M_S=4.6$		11.0	1.50	
LZH	19.6	309	P	11 47 01.5	−0.2			
			PMZ	$m_b=4.7$		2.0	0.070	
			PMZ	$m_B=4.9$		5.0	0.32	
			pP	11 47 09.0	1.0			
			eS	11 50 34.5	−1.6			
			LN	$M_S=4.7$		8.0	0.75	
			LE			10.0	0.69	
			LZ	$M_S=4.3$		14.0	0.98	
MDJ	20.5	15	eP	11 47 13.0	1.2			
			S	11 50 56.0	1.2			
			sS	11 51 08.0	1.8			
			LN	$M_S=4.6$		12.0	1.04	
			LZ	$M_S=4.4$		15.0	1.06	
GTA	24.0	313	P	11 47 47.5	1.0			
			sS	11 52 12.0	1.1			
			LE	$M_S=4.5$		11.0	0.72	
			LZ	$M_S=4.4$		12.0	0.75	
WMQ	34.1	312	P	11 49 17.5	0.0			
			LN	$M_S=4.7$		10.0	0.26	
			LE			9.0	0.39	

JUN 18d 16h 52m 55.1±0.04s, SD1.30/76
8.79 S±0.70km, 111.25 E±1.10km, h33±0.08km
South of Java (282)
m_b5.0/19,

GYA	35.3	353	P	16 59 52.0	2.2			
WHN	39.2	4	eP	17 00 25.5	3.1			
CD2	40.1	350	P	17 00 31.2	1.3			
SSE	40.8	13	P	17 00 37.0	1.6			
			PMZ	$m_b=4.7$		0.7	0.0080	
			pP	17 00 47.0	2.4			
NJ2	41.3	10	+P	17 00 41.0	1.7			
XAN	42.7	357	P	17 00 51.5	0.7			
TIA	45.1	7	eP	17 01 09.7	−0.8			
LZH	45.2	352	P	17 01 12.5	1.2			
			PMZ	$m_b=4.9$		1.1	0.018	
			sP	17 01 26.5	2.2			
			PcP	17 02 52.0	1.1			
TIY	46.3	1	eP	17 01 19.9	0.0			
DL2	48.4	11	eP	17 01 36.0	−0.7			
BJI	48.8	5	eP	17 01 39.0	−0.5			
			esP	17 01 57.0	4.3			
GTA	49.1	348	P	17 01 42.8	0.6			
BTO	49.2	359	eP	17 01 43.0	0.6			
SNY	51.6	12	eP	17 02 00.4	−0.7			
CN2	53.9	13	eP	17 02 18.0	−0.2			
WMQ	56.6	340	eP	17 02 37.0	−0.4			

JUN 18d 19h 02m 55.9±0.11s, SD1.48/159
21.75 S±0.80km, 68.54 W±0.59km, h103±1.01km

Northern Chile (123)
m_b5.3/27,

KSH	144.9	52	ePKP	19 22 23.5	1.2		
MDJ	152.7	331	PKP	19 22 34.5	0.0		
CN2	155.1	335	PKP	19 22 38.3	0.6		
			pPKP	19 23 01.0	−3.9		
SNY	157.5	336	ePKP	19 22 39.6	−1.2		
GTA	159.8	27	PKP	19 22 44.6	0.9		
DL2	160.8	335	ePKP	19 22 46.2	1.6		
HHC	161.0	360	+PKP	19 22 47.5	2.6		
BJI	161.3	349	ePKP	19 22 46.0	0.9		
TIY	164.1	357	ePKP	19 22 49.0	1.1		
			PKP2	19 23 42.1	−0.6		
LZH	164.2	23	PKP	19 22 50.0	1.8		
			sPKP	19 23 22.5	−4.0		
SSE	167.3	319	−PKP	19 22 52.5	2.0		
			PKP2	19 23 56.5	0.0		
XAN	167.6	10	PKP	19 22 52.5	1.7		
NJ2	167.8	329	+PKP	19 22 52.0	1.2		
CD2	168.6	36	PKP	19 22 53.0	1.6		
WHN	170.9	344	ePKP	19 22 54.0	1.3		
			pPKP	19 23 20.5	0.5		
			PKP2	19 24 13.5	1.0		
GYA	173.6	42	PKP	19 22 56.0	0.2		

JUN 19d 04h 28m 49.4±0.09s, SD2.71/14
37.18 N±0.52km, 123.65 E±0.83km, h5±km
Yellow Sea (665)
M_L3.5/13,

DL2	2.3	318	Pn	04 29 27.8	−1.1		
			Pg	04 29 30.0	−0.8		
			Sg	04 30 00.0	−2.9		
			SMN	$M_L=3.8$		0.7	0.59
			SME			0.7	0.62
TIA	5.3	261	Pg	04 30 26.2	2.6		
			Sg	04 31 36.0	−0.3		
			SMN	$M_L=3.5$		0.6	0.070
			SME			0.6	0.030
SSE	6.4	199	ePn	04 30 27.3	2.6		
			SMN	$M_L=3.2$		1.0	0.013
			SME			1.0	0.015
NJ2	6.5	219	ePg	04 30 44.0	0.4		
CN2	6.8	11	ePg	04 30 49.5	0.8		

JUN 19d 14h 50m 58.3±0.05s, SD2.40/12
41.87 N±0.06km, 108.77 E±0.36km, h29±0.67km
Northern China (323)
M_L3.3/9,

BTO	1.6	143	Pn	14 51 25.8	0.8		
			Pg	14 51 29.0	2.4		
			Sn	14 51 46.0	0.2		
			Sg	14 51 52.7	4.2		
			SMN	$M_L=3.2$		0.4	0.25
			SME			0.4	0.32
HHC	2.3	115	Pg	14 51 38.7	−1.3		
			Sg	14 52 09.4	−2.5		
			SMN	$M_L=4.1$		0.3	1.25
			SME			0.3	1.27
TIY	5.0	145	+Pg	14 52 26.1	−1.1		
			Sg	14 53 30.3	−5.5		
			SMN	$M_L=3.5$		0.6	0.080
			SME			0.6	0.030
BJI	5.9	106	Pg	14 52 42.5	0.0		
			SMN	$M_L=3.4$		1.0	0.027
			SME			0.8	0.030
GTA	7.2	253	Pn	14 52 42.8	−0.1		
			SMN	$M_L=3.3$		0.6	0.017
			SME			0.6	0.0090

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WHN	12.2	157	eP	14 53 51.5	−1.2			

JUN 19d 17h 20m 07.4 ± 0.03s, SD1.63 / 38
46.12 N ± 0.59km, 83.31 E ± 0.48km, h25 ± km
Kazakhstan–Xinjiang border region (331)
M_S3.8 / 1, M_L4.4 / 5, m_b4.6 / 12

WMQ	3.9	125	Pn	17 21 09.5	3.4			
			Sg	17 22 06.0	−3.1			
			SMN	M_L = 4.6		1.0	1.16	
			SME			1.0	1.65	
GTA	13.8	113	P	17 23 23.2	−1.6			
			S	17 25 55.2	−2.9			
			SMN			1.0	0.023	
			SME			1.0	0.015	
TIY	23.1	101	eP	17 25 12.6	−0.6			
			LZ	M_S = 4.2		12.0	0.48	
GYA	27.0	129	P	17 25 51.8	1.7			

JUN 19d 19h 07m 48.3 ± 0.03s, SD0.90 / 313
20.99 S ± 0.72km, 178.85 W ± 0.60km, h613 ± 0.39km
Fiji region (181)
m_B5.2 / 2, m_b5.3 / 67,

QZH	76.0	304	−P	19 18 36.0	−0.1			
SSE	77.4	310	−P	19 18 43.0	−0.5			
			PMZ	m_b = 4.8		1.0	0.039	
GZH	79.3	300	−P	19 18 54.0	0.6			
NJ2	79.6	310	−P	19 18 54.8	−0.2			
			PMZ	m_b = 5.0		1.2	0.080	
QZN	80.3	295	P	19 18 59.6	0.7			
MDJ	80.5	325	−P	19 18 59.5	−0.1			
			PMZ	m_b = 5.2		1.2	0.12	
DL2	81.5	317	−P	19 19 05.0	−0.1			
			PMZ	m_b = 5.2		1.2	0.098	
			pP	19 21 17.0	3.9			
			eS	19 28 26.0	−2.4			
SNY	82.1	320	−iP	19 19 07.1	−0.7			
			PMZ	m_b = 4.9		0.8	0.034	
WHN	82.1	307	−P	19 19 08.2	0.3			
			PMZ	m_b = 5.0		1.5	0.090	
CN2	82.2	323	−iP	19 19 07.8	−0.7			
			PMZ	m_b = 5.3		1.0	0.10	
			PMZ	m_B = 5.4		4.0	0.60	
			pP	19 21 18.0	1.3			
			eS	19 28 37.0	2.0			
TIA	83.0	313	P	19 19 12.4	−0.2			
BJI	85.7	316	−P	19 19 25.0	−0.5			
			PMZ	m_b = 5.6		2.0	0.28	
			epP	19 21 38.0	3.1			
TIY	87.0	312	−iP	19 19 32.4	0.5			
			PMZ	m_b = 5.5		1.4	0.12	
			SKS	19 29 02.0	2.0			
			S	19 29 20.5	1.8			
XAN	87.8	308	−P	19 19 36.0	0.4			
KMI	88.9	297	−P	19 19 42.0	1.2			
HHC	89.1	315	−P	19 19 42.0	0.1			
BTO	90.0	314	P	19 19 46.5	0.4			
CD2	90.4	303	P	19 19 48.4	0.8			
LZH	92.4	308	−P	19 19 57.5	0.4			
			PMZ	m_b = 5.5		1.5	0.071	
GTA	96.7	310	eP	19 20 15.4	−0.8			
			PMZ	m_b = 5.1		1.2	0.021	

JUN 19d 21h 33m 03.0 ± 0.04s, SD1.37 / 128
5.95 N ± 0.76km, 125.50 E ± 0.93km, h89 ± 0.21km
Mindanao (259)
M_S4.4 / 5, m_b5.0 / 28,

QZH	20.0	341	eP	21 37 32.9	1.8			
QZN	20.0	312	P	21 37 32.0	0.6			
			pP	21 37 49.5	0.8			
			sP	21 38 00.0	−0.6			
			S	21 41 05.5	−0.8			
			SS	21 41 38.0	−2.0			
			LN	M_S = 4.6		12.5	0.76	
			LE			13.0	0.85	
GZH	20.7	327	P	21 37 40.0	2.0			
			S	21 41 24.0	5.6			
SSE	25.3	351	eP	21 38 26.5	3.1			
WHN	26.6	338	eP	21 38 36.0	0.8			
			eS	21 43 04.0	2.2			
			LN	M_S = 4.6		8.0	0.55	
NJ2	26.7	347	eP	21 38 36.6	0.6			
			pP	21 38 57.0	1.3			
			eS	21 43 05.0	1.8			
			LZ	M_S = 3.8		22.0	0.31	
GYA	27.2	321	P	21 38 41.6	1.0			
			pP	21 39 02.0	1.9			
			S	21 43 13.0	2.7			
KMI	29.0	314	+P	21 38 57.0	0.2			
			PMZ	m_b = 5.1		1.5	0.060	
			pP	21 39 19.0	2.6			
			sP	21 39 31.5	4.1			
			S	21 43 42.0	3.0			
			LZ	M_S = 4.2		24.0	0.70	
XAN	31.9	333	P	21 39 21.3	−1.1			
CD2	32.1	323	eP	21 39 23.6	−0.9			
DL2	33.0	354	eP	21 39 31.6	−0.3			
			PMZ	m_b = 5.1		0.8	0.023	
			pP	21 39 53.0	0.9			
BJI	35.0	347	eP	21 39 47.5	−1.2			
			PMZ	m_b = 5.0		1.5	0.039	
			epP	21 40 11.0	1.8			
			PcP	21 42 19.0	−0.1			
SNY	35.8	358	+P	21 39 55.2	−0.4			
			pP	21 40 16.6	0.5			
			eS	21 45 24.2	−1.6			
			LE	M_S = 4.4		26.0	0.66	
LZH	36.0	329	+P	21 39 57.8	0.2			
			PMZ	m_b = 5.2		1.3	0.053	
			pP	21 40 20.0	2.0			
			PP	21 41 20.0	−0.1			
			eS	21 45 27.0	−2.4			
			LZ	M_S = 3.9		30.0	0.30	
HHC	36.9	342	P	21 40 05.0	−0.5			
CN2	37.7	360	eP	21 40 13.8	2.0			
MDJ	38.7	5	−P	21 40 21.4	1.4			
			PcP	21 42 30.2	−0.1			
LSA	40.1	310	P	21 40 33.4	1.4			
GTA	40.6	329	P	21 40 35.5	−0.3			
			pP	21 40 59.4	3.1			
			PcP	21 42 35.5	−0.9			
WMQ	50.2	325	P	21 41 51.7	−0.7			
KSH	55.6	315	eP	21 42 32.0	−0.8			

JUN 20d 00h 40m 20.5 ± 0.05s, SD1.56 / 41
28.07 N ± 0.77km, 127.99 E ± 0.86km, h136 ± 0.34km
Ryukyu Islands (238)
m_b4.5 / 11,

BJI	15.4	324	eP	00 43 55.0	3.0			
			PMZ	m_b = 4.8		0.9	0.037	
CN2	15.8	353	+P	00 43 58.0	0.9			
			PMZ	m_b = 4.8		1.0	0.040	
			pP	00 44 06.0	5.6			
			eS	00 46 42.0	−6.4			
			LN			11.0	0.50	
			LE			11.0	0.20	
			LZ			11.0	0.60	

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TIY	16.2	310	eP	00 43 59.4	−2.4		
			LN			13.0	1.20
			LZ			7.0	2.76
MDJ	16.6	4	eP	00 44 08.0	1.8		
XAN	17.4	295	P	00 44 15.6	−0.5		
HHC	18.6	318	eP	00 44 29.0	−0.6		
GYA	19.0	270	P	00 44 35.0	0.4		
BTO	19.4	315	eP	00 44 36.5	−1.6		
			LN			12.0	0.30
			LE			12.0	0.30
CD2	21.3	284	P	00 44 56.6	−0.9		
LZH	21.9	297	eP	00 45 02.0	−2.1		
			PMZ	$m_b=4.4$		1.5	0.025
			LZ			12.0	0.40
GTA	25.9	303	P	00 45 41.8	−0.3		
WMQ	35.8	307	P	00 47 09.5	0.5		

JUN 20d 08h 30m 25.6 ± 0.04s, SD1.28 / 68
6.90 S ± 0.58km, 155.70 E ± 0.87km, h86 ± 0.21km
Solomon Islands (193)
m_b5.1 / 17,

QZN	52.0	301	P	08 39 30.2	1.4		
WHN	54.4	315	eP	08 39 46.5	0.3		
CN2	57.4	334	eP	08 40 07.4	−0.6		
GYA	58.0	307	P	08 40 13.8	1.8		
BJI	59.2	325	eP	08 40 20.5	−0.2		
XAN	60.1	316	P	08 40 26.6	−0.3		
KMI	60.5	304	eP	08 40 31.0	1.0		
CD2	62.3	310	P	08 40 43.5	2.0		
LZH	64.7	315	eP	08 40 58.0	0.2		
			LZ	$M_S=4.3$		28.0	0.30
GTA	69.1	317	eP	08 41 25.8	0.3		

JUN 20d 12h 45m 15.6 ± 0.05s, SD1.80 / 62
23.70 N ± 0.68km, 121.80 E ± 0.48km, h33 ± 0.71km
Taiwan (244)
M_S4.3 / 17, M_L4.5 / 10, m_b4.1 / 10

QZH	3.2	294	ePn	12 46 03.0	−0.7		
			Sn	12 46 36.4	−5.6		
			SMN	$M_L=4.6$		0.7	1.96
			SME			0.5	1.93
			LE			3.0	8.33
SSE	7.4	356	eP	12 47 04.0	0.0		
			S	12 48 30.0	2.6		
			SMN	$M_L=4.3$		1.0	0.075
			SME			1.1	0.14
			LE	$M_S=4.4$		6.0	1.58
			LZ	$M_S=3.4$		16.0	0.44
GZH	7.8	267	eP	12 47 09.2	−0.4		
			S	12 48 31.0	−6.4		
			SMN	$M_L=4.7$		1.0	0.26
			SME			1.0	0.20
			LZ	$M_S=4.3$		5.0	1.03
NJ2	8.7	343	+P	12 47 20.3	−2.2		
			S	12 48 57.4	−3.1		
			SMN	$M_L=4.9$		1.0	0.28
			SME			1.2	0.19
			LZ	$M_S=3.5$		14.0	0.41
WHN	9.5	317	eP	12 47 30.5	−2.9		
			pP	12 47 36.0	−4.3		
			eS	12 49 13.5	−6.9		
			SMN			1.2	0.30
			SME			1.0	0.14
			LN	$M_S=4.4$		12.0	1.44
			LE			8.0	1.00
QZN	12.1	250	eP	12 48 08.6	0.2		
			eS	12 50 20.8	−2.1		
			LN	$M_S=4.3$		15.0	1.39
GYA	14.0	284	P	12 48 36.6	2.6		
			pP	12 48 42.6	1.6		
			sP	12 48 45.0	−0.9		
			S	12 51 15.0	6.4		
			LN	$M_S=4.4$		10.0	1.00
			LE			10.0	0.30
XAN	15.3	315	+P	12 48 50.0	−0.6		
			S	12 51 40.0	1.4		
			LN	$M_S=4.6$		6.0	0.60
			LE			6.0	0.50
TIY	16.1	332	eP	12 49 05.4	3.9		
			LE	$M_S=4.1$		9.0	0.39
			LZ	$M_S=4.3$		13.0	0.96
BJI	17.0	345	eP	12 49 13.0	0.7		
			PMZ	$m_b=3.9$		1.0	0.0060
			eS	12 52 24.0	5.3		
			LZ	$M_S=3.8$		12.0	0.30
CD2	17.6	298	P	12 49 21.6	1.9		
			LE			3.0	0.85
HHC	19.1	336	eP	12 49 40.8	1.7		
			S	12 53 08.0	0.9		
			sS	12 53 26.0	6.1		
			LN	$M_S=4.3$		10.0	0.51
			LZ	$M_S=3.9$		25.0	0.69
LZH	19.8	313	eP	12 49 47.0	0.2		
			PMZ	$m_b=4.6$		1.4	0.041
			sP	12 49 56.0	−3.4		
			eS	12 53 24.0	0.4		
			LE	$M_S=4.3$		9.0	0.40
			LZ	$M_S=4.4$		17.0	1.20
CN2	20.3	8	eP	12 49 50.0	−1.3		
GTA	24.3	315	P	12 50 33.4	1.6		
			PMZ	$m_b=4.1$		1.2	0.0090

JUN 20d 15h 01m 13.1 ± 0.04s, SD1.77 / 14
24.72 N ± 0.42km, 98.75 E ± 0.45km, h27 ± 0.53km
Burma–China border region (297)
M_S4.1 / 2, M_L4.4 / 3,

GYA	7.4	75	Pn	15 03 00.0	0.7		
TIY	17.4	39	eP	15 05 18.5	2.3		
			LN	$M_S=4.1$		10.0	0.41
			LZ	$M_S=4.1$		14.0	0.71
WMQ	21.1	337	eP	15 05 57.5	−0.5		
BJI	21.2	40	eP	15 06 00.0	1.4		

JUN 20d 15h 17m 27.6 ± 0.04s, SD1.41 / 177
1.08 S ± 0.80km, 126.87 E ± 0.97km, h24 ± 0.02km
Molucca Sea (269)
M_S5.3 / 42, m_B5.7 / 16, m_b5.4 / 48

QZN	26.1	321	eP	15 23 01.6	0.1		
			PP	15 23 41.0	−1.3		
			S	15 27 29.0	0.7		
			LN	$M_S=5.2$		15.5	3.20
			LE			17.5	2.74
QZH	27.1	343	P	15 23 10.5	−0.3		
			sP	15 23 25.0	3.2		
			S	15 27 45.5	0.4		
			sS	15 28 02.0	3.5		
			SS	15 28 59.5	−0.5		
			LE	$M_S=4.8$		10.0	1.01
			LZ	$M_S=5.0$		28.0	5.18
GZH	27.4	332	P	15 23 15.2	1.5		
			PMZ	$m_b=5.3$		1.0	0.070
			LN	$M_S=5.2$		14.0	2.73
			LE			13.0	1.80
SSE	32.5	351	P	15 24 00.0	1.3		
			PMZ	$m_b=4.9$		1.1	0.023
			PMZ	$m_B=5.6$		8.0	0.85

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			S	15 29 11.0	0.8		
			sS	15 29 28.0	4.1		
			ScP	15 30 27.0	1.0		
			SS	15 31 05.0	−1.5		
			LN	$M_S=5.1$		12.0	1.40
			LE			12.0	1.22
			LZ	$M_S=4.9$		20.0	2.30
GYA	33.6	326	P	15 24 11.4	2.5		
			S	15 29 33.0	4.8		
			ScP	15 30 33.4	3.3		
			PcS	15 30 33.8	0.9		
			ScS	15 34 34.6	4.7		
			LN	$M_S=5.2$		16.0	1.80
			LE			16.0	1.80
WHN	33.6	340	−P	15 24 10.5	1.6		
			PMZ	$m_b=5.3$		1.0	0.050
			PMZ	$m_B=5.9$		4.0	0.73
			pP	15 24 20.5	3.9		
			iS	15 29 32.0	2.5		
			LN	$M_S=5.5$		23.0	7.89
			LZ	$M_S=4.9$		24.0	2.72
NJ2	33.8	348	+P	15 24 12.3	1.8		
			iS	15 29 32.0	−0.3		
			ScP	15 30 32.6	1.8		
			LN	$M_S=5.1$		15.0	1.21
			LE			15.0	1.53
			LZ	$M_S=4.8$		20.0	1.95
KMI	35.0	320	−P	15 24 25.0	4.0		
TIA	38.2	347	eP	15 24 47.9	0.2		
			S	15 30 33.0	−5.8		
			LE	$M_S=5.0$		12.0	1.10
CD2	38.7	327	P	15 24 49.4	−2.2		
			sP	15 25 00.0	−2.8		
			PP	15 26 20.0	−3.8		
			S	15 30 44.0	−2.0		
			LZ	$M_S=5.0$		18.0	2.20
XAN	38.8	336	P	15 24 51.0	−1.7		
			PMZ	$m_B=5.4$		6.0	0.41
			pP	15 25 03.8	3.4		
			S	15 30 47.0	−0.9		
			LN	$M_S=5.3$		14.0	1.80
			LE			14.0	1.50
DL2	40.1	354	eP	15 25 04.0	0.7		
			pP	15 25 14.0	2.9		
			eS	15 31 06.0	−2.2		
			SME			15.0	2.34
			LZ	$M_S=5.0$		24.0	2.60
TIY	40.8	342	eP	15 25 10.0	0.2		
			pP	15 25 21.5	4.1		
			S	15 31 18.0	−0.6		
			SS	15 34 09.0	−6.8		
			LN	$M_S=5.1$		17.0	1.85
			LZ	$M_S=5.2$		21.0	3.45
BJI	42.1	348	eP	15 25 18.5	−1.3		
			PMZ	$m_b=5.7$		1.0	0.12
			PMZ	$m_B=5.7$		8.0	1.07
			PP	15 27 00.0	−0.3		
			ScP	15 31 03.0	1.2		
			eS	15 31 36.0	−1.8		
			LE	$M_S=5.3$		14.0	1.99
			LZ	$M_S=5.2$		18.0	2.90
LZH	42.7	332	−P	15 25 26.5	1.0		
			PMZ	$m_b=5.8$		1.4	0.20
			PMZ	$m_B=5.8$		6.0	0.88
			pP	15 25 35.0	1.9		
			sP	15 25 40.5	4.1		
			PP	15 27 08.0	1.1		
			ScP	15 31 04.0	−0.5		
			S	15 31 48.0	1.3		
			SME			8.0	1.70
			ScS	15 35 25.0	3.2		
			LN	$M_S=5.6$		20.0	4.90
			LE			18.0	3.50
			LZ	$M_S=5.1$		25.0	3.40
SNY	42.8	356	+P	15 25 25.5	−0.3		
			PMZ	$m_b=5.4$		0.8	0.050
			PP	15 27 11.0	3.4		
			S	15 31 46.0	−1.6		
			SME			6.0	1.79
			LN	$M_S=5.3$		14.5	1.30
			LE			18.0	2.25
			LZ	$M_S=5.1$		20.0	2.24
HHC	44.0	343	P	15 25 37.0	1.4		
			sP	15 25 49.5	2.9		
			PP	15 27 16.0	−3.4		
			S	15 32 07.0	2.1		
			SME			8.0	1.68
			sS	15 32 20.0	1.2		
			ScS	15 35 33.0	3.4		
			LN	$M_S=5.1$		15.0	1.42
			LZ	$M_S=5.3$		25.0	4.97
BTO	44.2	342	P	15 25 39.0	1.5		
			sP	15 25 51.0	2.5		
			S	15 32 09.0	0.7		
			LN	$M_S=5.4$		17.0	1.90
			LE			17.0	1.70
CN2	44.7	359	+P	15 25 42.0	0.9		
			PMZ	$m_b=5.1$		1.0	0.030
			pP	15 25 45.0	−3.9		
			ScP	15 31 13.0	0.6		
			eS	15 32 10.0	−6.0		
			ScS	15 35 36.0	2.0		
			LN	$M_S=5.3$		16.0	1.00
			LE			16.0	1.60
			LZ	$M_S=5.2$		19.0	3.00
MDJ	45.6	3	eP	15 25 46.7	−1.3		
			S	15 32 27.0	−0.4		
			sS	15 32 40.0	−1.3		
			SS	15 35 41.0	−2.3		
			LN	$M_S=5.3$		18.0	2.02
			LZ	$M_S=5.5$		15.0	4.44
LSA	45.8	315	P	15 25 51.0	0.5		
			S	15 32 35.0	4.0		
			SMN			6.0	0.86
GTA	47.3	331	P	15 26 01.0	−1.0		
			PMZ	$m_b=5.7$		1.0	0.10
			PMZ	$m_B=5.9$		8.0	1.42
			pP	15 26 10.0	0.4		
			PcP	15 27 32.0	−0.2		
			ScP	15 31 24.0	0.8		
			S	15 32 54.0	1.6		
			ScS	15 35 52.0	1.2		
			LN	$M_S=5.4$		20.0	2.94
			LZ	$M_S=5.3$		23.0	3.83
WMQ	56.8	327	P	15 27 12.0	−0.7		
			ScP	15 32 07.5	3.7		
			S	15 35 03.5	2.0		
			SMN			9.0	1.89
			ScS	15 36 57.5	1.6		
			LN	$M_S=5.6$		16.0	1.76
			LE			16.0	2.02
			LZ	$M_S=5.3$		22.0	2.61
KSH	61.6	317	P	15 27 47.5	1.1		
			PP	15 30 05.0	1.5		
			S	15 36 08.0	3.5		
			SMN			9.0	3.10

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			sS	15 36 24.0	5.2		
			LE	$M_S=5.3$		14.0	1.00

JUN 20d 18h 47m 58.6±0.04s, SD1.20/86
5.44 N±0.61km, 31.67 E±0.75km, h15±0.05km
Sudan (557)
m_b4.8/28,

KSH	52.3	43	P	18 57 13.5	0.9		
WMQ	62.1	43	P	18 58 21.0	−1.1		
GTA	69.7	50	P	18 59 10.0	−0.8		
LZH	72.4	54	eP	18 59 26.0	−1.1		
			pP	18 59 31.5	−1.7		
			sP	18 59 37.5	1.4		
			LZ	$M_S=4.4$		20.0	0.20
GYA	74.2	64	P	18 59 40.4	3.1		
HHC	78.8	50	eP	19 00 05.0	1.4		

JUN 20d 21h 00m 10.2±0.07s, SD1.70/423
36.99 N±1.31km, 49.25 E±0.66km, h17±0.14km
North–Western Iran (345)
M_S7.8/52, m_B7.2/35, m_b6.2/60

KSH	21.1	75	−P	21 04 56.0	−0.5		
			sP	21 05 04.0	−1.8		
			eS	21 08 49.0	3.1		
			SMN			9.0	20.7
WMQ	29.9	65	P	21 06 17.5	−2.0		
			PMZ	$m_B=7.6$		4.0	44.8
			S	21 11 11.0	−2.8		
			LN	$M_S=7.9$		12.0	811
			LE			14.0	1342
LSA	35.5	89	−P	21 07 09.0	−0.3		
			LN	$M_S=7.5$		12.0	344
GTA	39.4	71	eP	21 07 40.4	−1.0		
			PMZ	$m_b=6.7$		1.8	2.31
			PMZ	$m_B=7.3$		8.0	38.6
			pP	21 07 46.0	−1.8		
			sP	21 07 48.0	−2.8		
			PP	21 09 12.0	−3.4		
			S	21 13 41.0	−0.1		
			SS	21 16 27.0	−0.4		
			LE	$M_S=7.9$		22.0	1383
			LZ	$M_S=7.7$		24.0	1254
LZH	43.4	74	−P	21 08 15.0	1.0		
			PMZ	$m_B=7.2$		4.0	15.2
			PMZ	$m_B=7.4$		7.0	40.9
			sP	21 08 23.0	−0.4		
			PP	21 09 59.0	2.6		
			PcP	21 10 06.0	3.8		
			S	21 14 41.0	1.2		
			sS	21 14 57.0	5.2		
			LN	$M_S=8.0$		20.0	975
			LE			18.0	691
CD2	45.1	81	P	21 08 28.4	0.4		
			S	21 15 06.0	0.8		
			LE	$M_S=8.0$		14.0	927
BTO	46.7	66	P	21 08 43.0	2.5		
			sP	21 08 50.0	0.0		
			S	21 15 32.0	4.4		
			LN	$M_S=7.3$		13.0	127
			LE			13.0	87.9
KMI	46.8	89	−P	21 08 45.0	3.6		
			PMZ	$m_B=7.5$		6.0	43.7
			sP	21 08 53.0	2.3		
			PP	21 10 34.0	3.7		
			LZ	$M_S=7.6$		18.0	686
HHC	47.7	65	−P	21 08 53.0	4.1		
			PMZ	$m_b=6.8$		1.8	2.90
			PMZ	$m_B=7.1$		8.0	23.5
			S	21 15 46.0	3.4		
			SMN			13.0	72.9
			SME			13.0	31.3
			LN	$M_S=7.8$		17.0	624
XAN	48.0	75	P	21 08 53.5	2.9		
			S	21 15 47.5	1.6		
			LN	$M_S=7.3$		20.0	202
			LE			14.0	78.5
GYA	49.3	85	P	21 09 04.0	3.0		
			SMN			8.0	27.9
			SME			8.0	22.6
			LN	$M_S=7.7$		18.0	338
			LE			18.0	405
			LZ	$M_S=7.2$		20.0	258
TIY	49.4	69	+P	21 09 05.5	4.1		
			sP	21 09 13.0	2.2		
			S	21 16 07.0	1.7		
			sS	21 16 20.0	2.6		
			LE	$M_S=7.2$		11.0	84.1
BJI	51.3	65	eP	21 09 17.0	0.7		
			PMZ	$m_b=6.5$		2.4	1.60
			PMZ	$m_B=7.0$		4.0	8.48
			eS	21 16 36.0	2.3		
			LN	$M_S=7.8$		14.0	257
			LE			14.0	357
TIA	53.4	69	−P	21 09 30.6	−1.2		
			PMZ	$m_B=7.2$		7.5	27.0
			pP	21 09 42.0	3.6		
			LE	$M_S=7.7$		16.0	373
WHN	53.6	77	+P	21 09 35.0	1.9		
			PMZ	$m_B=6.7$		6.0	5.84
			pP	21 09 34.5	−5.3		
			sP	21 09 44.5	1.7		
			iS	21 17 10.0	5.6		
			LN	$M_S=8.0$		20.0	846
QZN	55.5	91	eP	21 09 50.8	3.4		
			PcP	21 10 51.0	4.7		
			PP	21 11 52.0	−0.1		
			S	21 17 31.5	2.0		
			sS	21 17 39.0	−2.6		
			LE	$M_S=7.7$		19.0	457
DL2	55.7	64	eP	21 09 50.5	2.0		
			PMZ	$m_B=7.2$		7.0	25.2
			epP	21 10 00.0	4.9		
			S	21 17 34.5	2.9		
			SMN			12.0	59.8
			SME			12.0	62.3
			LN	$M_S=7.9$		16.0	412
			LE			15.0	318
SNY	56.0	60	−P	21 09 53.0	2.4		
			PMZ	$m_b=6.2$		1.6	0.47
			PMZ	$m_B=7.0$		8.0	17.7
			sP	21 10 00.8	0.6		
			SMN			14.0	42.0
			SME			13.0	34.9
			LN	$M_S=7.9$		15.0	455
			LE			16.0	214
GZH	56.2	85	P	21 09 53.0	0.5		
			LN	$M_S=7.8$		20.0	500
			LE			22.0	331
NJ2	56.4	73	−P	21 09 56.8	3.1		
			sP	21 10 03.0	−0.3		
			S	21 17 44.0	2.8		
			LN	$M_S=7.8$		20.0	471
			LE			20.0	296
CN2	56.5	57	−P	21 09 56.0	1.4		
			PMZ	$m_b=6.3$		1.0	0.40
			PMZ	$m_B=7.2$		6.0	22.0

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			pP	21 10 04.0	2.7		
			eS	21 17 45.0	1.0		
			SMN			12.0	38.0
			SME			12.0	72.0
			LN	$M_S=8.0$		15.0	250
			LE			15.0	506
SSE	58.6	73	−P	21 10 11.0	1.7		
			PMZ	$m_B=7.2$		8.0	27.8
			sP	21 10 18.8	−0.1		
			PcP	21 11 02.0	3.6		
			PP	21 12 23.0	3.1		
			sS	21 18 20.0	−2.4		
			LN	$M_S=7.3$		16.0	104
			LE			12.0	41.8
MDJ	59.0	55	eP	21 10 13.0	1.1		
			pP	21 10 16.0	−2.5		
			sP	21 10 20.0	−1.5		
			LE	$M_S=8.0$		12.0	407
QZH	59.5	80	eP	21 10 18.5	3.1		
			PMZ	$m_B=7.1$		8.0	21.5
			sP	21 10 26.0	1.0		
			PcP	21 10 56.5	−5.4		
			S	21 18 24.0	2.3		
			LN	$M_S=8.2$		31.0	1960

JUN 20d 23h 48m 44.3 ± 0.05s, SD1.29 / 74
36.67 N ± 1.33km, 49.79 E ± 0.52km, h15 ± 0.01km
Western Iran (347)
m_b4.6 / 29,

KSH	20.7	74	P	23 53 29.0	1.4		
WMQ	29.6	64	P	23 54 51.6	−0.2		
CD2	44.7	81	P	23 57 03.2	3.7		
KMI	46.4	89	eP	23 57 13.0	0.4		
XAN	47.6	75	eP	23 57 22.4	−0.1		
GYA	48.9	85	P	23 57 32.0	−0.4		

JUN 21d 02h 08m 50.7 ± 0.05s, SD1.07 / 347
36.83 N ± 0.96km, 49.77 E ± 0.42km, h10 ± 0.10km
Western Iran (347)
M_S5.2 / 27, m_B5.3 / 1, m_b5.3 / 83

KSH	20.7	75	P	02 13 35.0	0.8		
			S	02 17 24.0	4.1		
			sS	02 17 30.0	1.3		
			LN	$M_S=5.4$		13.0	7.10
WMQ	29.6	64	+iP	02 14 58.5	0.2		
			S	02 19 52.0	0.9		
			eSS	02 21 27.5	3.6		
			LN	$M_S=5.1$		13.0	1.34
			LE			12.0	1.72
			LZ	$M_S=4.6$		20.0	1.44
LSA	35.1	89	P	02 15 48.2	1.0		
GTA	39.0	70	+iP	02 16 21.0	0.9		
			PMZ	$m_b=5.3$		1.4	0.070
			S	02 22 18.0	−0.1		
			LN	$M_S=4.9$		12.0	0.88
			LZ	$M_S=4.8$		20.0	1.62
LZH	43.0	74	+P	02 16 52.5	−0.1		
			PMZ	$m_b=5.3$		2.5	0.13
			pP	02 16 56.0	−2.0		
			sP	02 16 58.5	−2.2		
			PP	02 18 33.5	−0.8		
			PcP	02 18 40.5	−2.1		
			eS	02 23 18.0	−0.2		
			LN	$M_S=5.2$		14.0	1.20
			LE			13.0	1.20
			LZ	$M_S=5.0$		25.0	2.40
CD2	44.7	81	P	02 17 05.4	−1.0		
			PMZ	$m_b=5.6$		0.8	0.080
			LN	$M_S=5.0$		12.0	0.78
			LZ	$M_S=4.7$		20.0	0.85
KMI	46.4	89	+P	02 17 20.0	0.3		
			PMZ	$m_b=5.7$		1.5	0.20
			pP	02 17 25.0	0.1		
			sS	02 24 14.0	−1.6		
			LZ	$M_S=4.9$		24.0	1.50
BTO	46.4	66	P	02 17 20.5	0.9		
			ePP	02 19 09.0	1.4		
			eS	02 24 05.0	−1.6		
			LN	$M_S=5.2$		13.0	0.90
			LE			13.0	0.80
HHC	47.4	65	P	02 17 28.8	0.9		
			LN	$M_S=5.3$		16.0	1.68
			LE			13.0	0.89
			LZ	$M_S=5.1$		15.0	1.54
XAN	47.6	75	+P	02 17 29.3	0.0		
			S	02 24 20.0	−3.0		
			LN	$M_S=5.4$		13.0	1.75
			LE			14.0	1.32
GYA	48.9	85	+iP	02 17 39.0	−0.4		
			pP	02 17 44.4	−0.4		
			LN	$M_S=4.9$		16.0	0.40
			LE			16.0	0.60
TIY	49.0	69	+P	02 17 40.8	0.5		
			S	02 24 40.0	−2.9		
			LE	$M_S=5.1$		17.0	1.21
			LZ	$M_S=4.8$		28.0	1.49
BJI	51.0	65	eP	02 17 55.0	−0.5		
			PMZ	$m_b=5.0$		0.9	0.021
			eS	02 25 16.0	4.3		
			LN	$M_S=5.3$		14.0	1.38
			LE			13.0	0.59
			LZ	$M_S=4.8$		22.0	1.05
TIA	53.1	69	P	02 18 10.6	−0.3		
			LE	$M_S=5.2$		15.0	1.11
WHN	53.2	77	eP	02 18 11.0	−0.9		
QZN	55.1	92	eP	02 18 25.3	−0.6		
DL2	55.4	64	eP	02 18 27.4	−0.4		
			eS	02 26 10.0	−0.8		
			LN	$M_S=5.1$		13.0	0.47
			LE			13.0	0.54
			LZ	$M_S=4.7$		20.0	0.62
SNY	55.7	60	eP	02 18 32.8	2.7		
			eS	02 26 15.0	0.0		
			LN	$M_S=5.5$		13.5	1.76
			LZ	$M_S=5.0$		17.0	1.18
NJ2	56.1	73	eP	02 18 31.5	−1.2		
			S	02 26 20.0	1.2		
			LZ	$M_S=4.9$		18.0	0.89
CN2	56.3	58	+P	02 18 33.0	−1.3		
			PMZ	$m_b=5.0$		1.0	0.020
			pP	02 18 40.0	0.2		
			eS	02 26 21.0	−1.8		
			LN	$M_S=5.1$		13.0	0.30
			LE			13.0	0.60
			LZ	$M_S=5.1$		18.0	1.50
SSE	58.3	73	+P	02 18 48.0	−0.4		
			PMZ	$m_b=5.1$		1.0	0.029
MDJ	58.7	55	eP	02 18 54.0	2.3		

JUN 21d 06h 40m 33.1 ± 0.04s, SD1.45 / 93
5.68 S ± 0.56km, 149.39 E ± 1.00km, h167 ± 0.25km
New Britain region (192)
m_b5.0 / 22,

QZH	42.7	317	eP	06 48 19.2	3.6		
SSE	45.4	325	eP	06 48 37.5	0.2		
			PMZ	$m_b=4.4$		1.0	0.010

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			eS	06 55 06.0	0.6		
			sS	06 56 08.0	−1.4		
			LE			12.0	0.24
			LZ			16.0	0.44
QZN	46.0	303	eP	06 48 45.2	3.0		
NJ2	47.5	324	eP	06 48 53.5	0.2		
DL2	51.3	332	eP	06 49 22.8	0.4		
SNY	52.8	336	eP	06 49 33.4	−0.5		
MDJ	53.1	342	eP	06 49 34.0	−2.2		
CN2	53.8	339	eP	06 49 39.6	−1.4		
BJI	54.8	329	eP	06 49 48.0	−0.5		
XAN	55.0	319	eP	06 49 48.0	−1.7		
CD2	56.8	313	eP	06 50 04.1	1.5		
LZH	59.5	318	eP	06 50 21.5	−0.4		
			PMZ	$m_b=4.9$		2.0	0.043
			pP	06 51 00.0	0.0		
			sP	06 51 15.0	−3.4		
WMQ	74.1	318	P	06 51 54.5	1.0		

JUN 21d 09h 02m 14.0 ± 0.04s, SD1.13 / 425
36.68 N ± 0.89km, 49.79 E ± 0.45km, h15 ± 0.10km
Western Iran (347)
M_S5.5 / 55, m_B5.8 / 19, m_b5.7 / 99

KSH	20.7	74	−P	09 06 59.2	2.0		
			S	09 10 46.0	3.3		
			SMN			8.0	18.7
			LN	$M_S=6.0$		9.0	20.4
WMQ	29.6	64	−iP	09 08 22.5	1.1		
			PP	09 09 19.0	2.2		
			SMN			5.0	1.34
			sS	09 13 20.0	−5.3		
			LN	$M_S=5.6$		10.0	2.75
			LE			12.0	4.84
			LZ	$M_S=5.4$		12.0	5.67
LSA	35.1	89	eP	09 09 10.9	1.2		
			PcP	09 11 45.0	4.7		
			S	09 14 45.0	5.2		
			SME			7.0	0.64
			LN	$M_S=5.3$		11.0	1.24
			LE			11.0	2.15
GTA	39.1	70	P	09 09 43.8	0.8		
			PMZ	$m_b=5.9$		1.8	0.40
			PP	09 11 21.0	4.9		
			S	09 15 42.0	1.2		
			SS	09 18 27.0	2.0		
			LE	$M_S=5.3$		12.0	2.13
			LZ	$M_S=5.3$		14.0	3.52
LZH	43.0	74	+P	09 10 15.5	0.0		
			PMZ	$m_b=6.2$		2.0	0.74
			pP	09 10 20.0	−1.6		
			PcP	09 12 04.5	−0.8		
			PcS	09 15 56.0	−0.4		
			eS	09 16 42.0	1.3		
			sS	09 16 48.0	−2.8		
			eSS	09 19 51.0	5.6		
			LN	$M_S=5.6$		14.0	3.50
			LE			14.0	2.50
			LZ	$M_S=5.4$		16.0	3.60
CD2	44.7	81	−iP	09 10 28.6	−0.5		
			PMZ	$m_b=6.2$		2.5	1.09
			LN	$M_S=5.5$		12.0	2.53
			LZ	$M_S=5.3$		16.0	2.77
KMI	46.3	89	−P	09 10 42.5	0.3		
			PMZ	$m_b=6.0$		2.0	0.50
			sP	09 10 49.5	−1.7		
			eS	09 17 24.0	−4.7		
			LN	$M_S=5.4$		12.0	1.70
			LZ	$M_S=5.2$		18.0	2.60
BTO	46.4	66	P	09 10 43.0	0.4		
			pP	09 10 47.5	−1.2		
			ePP	09 12 32.0	1.3		
			S	09 17 30.5	2.4		
			eSS	09 20 50.5	4.1		
			LN	$M_S=5.6$		13.0	1.70
			LE			13.0	3.10
HHC	47.5	65	P	09 10 52.4	1.5		
			LN	$M_S=5.4$		8.0	0.49
			LE			8.0	0.99
XAN	47.6	75	+iP	09 10 52.6	0.5		
			S	09 17 45.6	0.2		
			LN	$M_S=5.5$		14.0	2.33
			LE			14.0	1.39
GYA	48.9	85	P	09 11 02.0	0.0		
			pP	09 11 05.0	−3.2		
			S	09 18 07.0	3.8		
			LN	$M_S=5.3$		16.0	1.50
			LE			16.0	0.80
TIY	49.1	69	+P	09 11 03.5	0.3		
			pP	09 11 07.0	−2.4		
			sP	09 11 16.0	3.6		
			PP	09 12 58.5	2.4		
			S	09 18 08.0	2.5		
			SS	09 21 29.0	−3.2		
			LE	$M_S=5.4$		13.0	1.89
			LZ	$M_S=5.4$		15.0	3.31
BJI	51.1	65	eP	09 11 18.5	0.0		
			PMZ	$m_b=5.6$		2.0	0.19
			PMZ	$m_B=5.5$		8.0	0.57
			ePcP	09 12 32.0	−1.7		
			ePP	09 13 16.0	0.9		
			eS	09 18 40.0	5.5		
			ScS	09 21 08.0	3.3		
			LN	$M_S=5.5$		15.0	2.50
			LZ	$M_S=5.4$		16.0	3.20
TIA	53.1	69	eP	09 11 33.0	−0.8		
			PMZ	$m_b=5.4$		1.8	0.090
			S	09 19 05.0	3.8		
			LN	$M_S=5.5$		16.0	1.89
			LE			16.0	1.50
			LZ	$M_S=5.3$		16.0	2.32
WHN	53.2	77	−eP	09 11 35.5	0.8		
			PMZ	$m_b=5.8$		1.5	0.19
			pP	09 11 45.0	4.0		
			iS	09 19 08.0	4.1		
			LN	$M_S=5.6$		12.0	2.31
			LZ	$M_S=5.2$		12.0	1.20
QZN	55.1	91	eP	09 11 49.0	0.6		
			PP	09 13 52.0	−0.3		
			eS	09 19 30.0	0.9		
			SS	09 23 15.0	3.6		
			LN	$M_S=5.5$		11.0	1.20
			LE			10.0	0.98
DL2	55.4	64	P	09 11 51.0	0.2		
			PMZ	$m_b=5.9$		1.5	0.28
			pP	09 11 55.0	−2.2		
			S	09 19 35.0	2.5		
			LN	$M_S=5.5$		13.0	1.56
			LE			14.0	1.08
			LZ	$M_S=4.9$		14.0	0.79
SNY	55.7	60	+P	09 11 49.5	−3.6		
			PMZ	$m_B=6.2$		10.0	3.20
			S	09 19 33.0	−3.8		
			ScS	09 21 42.0	4.6		
			LN	$M_S=5.6$		13.0	1.21
			LE			12.0	1.95
			LZ	$M_S=5.5$		14.0	2.94

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GZH	55.8	85	P	09 11 54.1	0.3		
			PMZ	$m_b=6.0$		1.5	0.34
			PMZ	$m_B=6.2$		5.0	1.49
			S	09 19 44.0	6.0		
			LN	$M_S=5.3$		11.0	0.84
			LE			12.0	0.66
			LZ	$M_S=5.2$		20.0	2.12
NJ2	56.1	73	+P	09 11 54.0	−1.5		
			PMZ	$m_B=5.8$		6.0	0.77
			S	09 19 47.0	5.7		
			LN	$M_S=5.4$		14.0	1.37
			LE			15.0	0.92
			LZ	$M_S=5.1$		16.0	1.18
CN2	56.3	57	+P	09 11 56.0	−1.4		
			PMZ	$m_b=5.0$		1.3	0.030
			pP	09 12 00.0	−3.7		
			eS	09 19 47.0	1.2		
			eSS	09 23 36.0	4.4		
			LN	$M_S=5.7$		13.0	2.60
			LE			13.0	0.90
			LZ	$M_S=5.6$		16.0	3.80
SSE	58.3	73	−P	09 12 11.5	0.3		
			PMZ	$m_b=5.6$		1.2	0.097
			PMZ	$m_B=5.8$		6.0	0.70
			ePP	09 14 21.0	−0.1		
			eScP	09 16 58.0	−1.4		
			iS	09 20 12.0	0.5		
			sS	09 20 20.0	−2.1		
			ScS	09 21 56.0	0.1		
			SS	09 24 04.0	0.3		
			LN	$M_S=5.4$		14.0	1.12
			LE			14.0	0.97
MDJ	58.8	55	eP	09 12 17.0	2.2		
			eS	09 20 16.0	−2.3		
			ScS	09 22 02.0	2.3		
			SS	09 24 12.0	−0.1		
			LZ	$M_S=5.3$		20.0	2.33
QZH	59.1	80	eP	09 12 16.0	−1.0		
			S	09 20 24.0	2.9		
			LN	$M_S=5.4$		16.0	1.43
			LZ	$M_S=5.3$		18.0	2.18

JUN 21d 12h 17m 27.1±0.05s, SD1.58/106
36.79 N±1.05km, 49.40 E±0.55km, h10±0.13km
North-Western Iran (345)
M_S4.6/3, m_b4.8/28,

KSH	21.0	74	P	12 22 14.8	1.1		
			S	12 26 09.0	6.9		
			LN	$M_S=4.9$		11.0	1.90
WMQ	29.8	64	P	12 23 37.5	0.3		
			S	12 28 36.0	3.9		
			LZ	$M_S=4.1$		16.0	0.35
GTA	39.3	70	eP	12 24 59.6	0.7		
LZH	43.3	74	eP	12 25 32.0	0.5		
			PMZ	$m_b=4.8$		1.5	0.023
			pP	12 25 37.5	0.7		
			PP	12 27 18.5	4.8		
			LZ	$M_S=4.4$		15.0	0.40
CD2	45.0	81	eP	12 25 44.6	−0.7		
KMI	46.7	89	eP	12 26 00.0	1.6		
HHC	47.7	65	P	12 26 07.0	0.4		
XAN	47.9	75	P	12 26 08.0	−0.1		
GYA	49.2	85	P	12 26 22.8	4.7		
TIY	49.3	69	eP	12 26 17.4	−1.6		
			LN	$M_S=4.6$		15.0	0.33
			LZ	$M_S=4.5$		20.0	0.50
WHN	53.5	76	eP	12 26 50.0	−0.5		
CN2	56.5	57	+P	12 27 11.2	−1.4		

JUN 21d 14h 37m 12.0±0.04s, SD1.55/138
17.91 N±0.74km, 122.43 E±0.91km, h32±0.15km
Luzon (249)
M_S5.1/49, M_L4.3/2, m_B5.1/7,

QZH	7.9	334	eP	14 39 04.4	−2.6		
			S	14 40 29.3	−6.3		
			SMN	$M_L=4.5$		0.8	0.089
			SME			0.9	0.17
			LN	$M_S=4.4$		12.0	3.07
			LZ	$M_S=4.6$		20.0	6.97
GZH	10.0	303	eP	14 39 32.8	−3.2		
			LN	$M_S=5.1$		16.0	6.92
			LE			16.0	10.2
			LZ	$M_S=5.0$		15.0	10.7
QZN	12.0	277	P	14 40 01.5	−2.4		
			PMZ	$m_b=4.7$		1.5	0.020
			S	14 42 14.0	−3.3		
			LN	$M_S=4.9$		13.5	3.83
			LE			14.0	3.13
SSE	13.2	355	P	14 40 17.5	−2.2		
			PMZ	$m_b=4.6$		1.0	0.012
			LN	$M_S=4.7$		14.0	2.61
			LE			14.0	0.97
			LZ	$M_S=4.6$		20.0	4.17
NJ2	14.4	348	eP	14 40 34.7	−1.7		
			S	14 43 13.0	−3.1		
			LN	$M_S=5.0$		16.0	4.29
			LE			14.0	4.63
			LZ	$M_S=4.6$		18.0	3.10
WHN	14.6	331	eP	14 40 36.0	−2.0		
			sP	14 40 45.5	−4.2		
			eS	14 43 18.0	−1.4		
			LN	$M_S=4.8$		13.0	1.98
			LE			13.0	2.85
			LZ	$M_S=4.5$		12.0	1.80
GYA	16.9	303	P	14 41 08.6	0.7		
			pP	14 41 19.0	3.9		
			S	14 44 18.0	5.1		
			LN	$M_S=5.1$		12.0	3.40
			LE			12.0	3.30
			LZ	$M_S=4.7$		14.0	2.80
TIA	18.8	347	eP	14 41 32.1	0.2		
			PMZ	$m_b=4.7$		1.0	0.037
			LN	$M_S=4.9$		12.5	1.84
			LE			12.5	2.23
KMI	19.7	295	eP	14 41 43.0	1.4		
			PMZ	$m_b=4.9$		2.5	0.14
			pP	14 41 52.0	2.7		
			sP	14 41 55.0	1.3		
			LN	$M_S=5.4$		13.0	5.30
			LE			15.0	6.90
			LZ	$M_S=5.4$		16.0	11.5
XAN	20.1	326	P	14 41 45.5	−0.7		
			S	14 45 21.5	−3.4		
			LN	$M_S=5.2$		14.0	4.79
			LE			12.0	1.35
DL2	20.9	358	eP	14 41 56.0	1.3		
			PMZ	$m_b=4.8$		1.0	0.050
			S	14 45 42.0	1.1		
			LN	$M_S=5.1$		14.0	2.73
			LE			14.0	2.70
			LZ	$M_S=4.8$		14.0	2.70
CD2	21.3	311	eP	14 41 57.2	−1.6		
TIY	21.6	338	+P	14 42 03.0	1.5		
			LN	$M_S=5.4$		12.0	6.23
			LZ	$M_S=5.3$		15.0	8.28
BJI	22.7	347	eP	14 42 13.5	1.1		

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			PMZ		$m_b=5.1$		1.2	0.10
			PMZ		$m_B=4.7$		10.0	0.32
			eS	14 46 16.0		1.5		
			LN		$M_S=4.8$		15.0	2.00
			LZ		$M_S=4.9$		17.0	3.50
SNY	23.9	2	eP	14 42 24.0		0.3		
			PMZ		$m_b=4.8$		1.0	0.039
			PMZ		$m_B=5.0$		10.0	0.64
			S	14 46 34.5		0.4		
			LE		$M_S=5.3$		15.5	5.56
			LZ		$M_S=5.0$		18.0	4.86
LZH	24.5	321	−P	14 42 31.0		1.3		
			PMZ		$m_b=5.4$		2.0	0.32
			PMZ		$m_B=5.1$		10.0	0.80
			pP	14 42 39.5		1.3		
			PP	14 43 02.5		−2.6		
			S	14 46 46.0		1.6		
			sS	14 46 59.0		−0.3		
			SS	14 47 42.0		2.6		
			LN		$M_S=5.2$		12.0	2.20
			LE				15.0	2.90
			LZ		$M_S=5.0$		18.0	3.90
HHC	24.7	340	P	14 42 31.2		−0.8		
			PMZ		$m_b=5.7$		1.0	0.26
			pP	14 42 42.0		1.4		
			PP	14 43 14.0		5.9		
			S	14 46 50.0		1.5		
			sS	14 47 03.0		−0.4		
			LN		$M_S=5.4$		18.0	8.00
			LE				15.0	1.86
			LZ		$M_S=5.3$		20.0	8.73
BTO	25.0	337	P	14 42 36.0		0.9		
			pP	14 42 45.0		1.4		
			S	14 46 53.0		−0.8		
			LN		$M_S=5.0$		16.0	1.10
			LE				16.0	2.90
CN2	25.9	5	eP	14 42 43.0		−0.6		
			PMZ		$m_b=4.7$		1.0	0.020
			LN		$M_S=5.1$		16.0	2.60
			LE				16.0	2.00
			LZ		$M_S=5.1$		18.0	4.30
MDJ	27.3	11	eP	14 42 58.0		1.9		
			eS	14 47 28.0		−4.0		
			LZ		$M_S=4.8$		20.0	2.33
GTA	29.1	322	P	14 43 12.8		0.8		
			S	14 48 01.5		2.2		
			SS	14 49 27.0		−2.4		
			LE		$M_S=5.0$		12.0	1.60
			LZ		$M_S=5.0$		18.0	3.12
LSA	30.8	298	P	14 43 28.2		0.0		
			LN		$M_S=4.7$		13.0	0.80
WMQ	39.0	319	−iP	14 44 39.4		1.9		
			eS	14 50 33.0		−1.4		
			sS	14 50 51.0		1.7		
			LN		$M_S=5.2$		14.0	0.89
			LE				15.0	1.54
			LZ		$M_S=5.0$		16.0	1.73
KSH	45.5	308	eP	14 45 32.5		1.4		
			eS	14 52 12.0		1.3		
			LE		$M_S=5.4$		12.0	2.00

JUN 21d 15h 15m 53.0±0.05s, SD1.02/270
50.92 N±1.25km, 172.64 W±0.49km, h33±0.02km
Andreanof Islands (7)
M_S4.9/1, m_b5.2/78,

MDJ	38.5	284	eP	15 23 14.0		0.0		
CN2	41.4	285	eP	15 23 37.8		−0.8		
SNY	43.7	284	eP	15 23 56.2		−0.7		
			sP	15 24 13.8		3.6		
DL2	46.6	282	eP	15 24 19.8		−0.4		
BJI	49.3	286	eP	15 24 41.0		0.1		
TIA	51.1	282	eP	15 24 54.0		−0.9		
HHC	51.5	290	+P	15 24 58.8		0.4		
SSE	51.9	274	−iP	15 25 01.5		0.5		
			PMZ		$m_b=5.3$		1.0	0.039
			sP	15 25 14.5		0.2		
BTO	52.6	291	eP	15 25 07.0		0.5		
NJ2	52.7	277	+P	15 25 06.2		−1.0		
			sP	15 25 21.0		0.4		
TIY	53.0	286	eP	15 25 10.0		0.7		
			S	15 32 41.0		6.8		
			LZ		$M_S=4.6$		20.0	0.63
WHN	56.6	279	+P	15 25 35.0		−0.3		
			pP	15 25 44.5		−0.3		
XAN	57.5	285	+P	15 25 41.2		−1.1		
LZH	59.2	290	−P	15 25 53.5		−0.6		
			PMZ		$m_b=5.5$		1.5	0.091
			pP	15 26 01.0		−2.4		
			sP	15 26 08.5		1.1		
			LZ		$M_S=4.8$		20.0	0.70
GTA	59.3	296	−iP	15 25 53.9		−0.9		
			sP	15 26 09.8		1.8		
			S	15 34 00.0		1.8		
			LN		$M_S=4.9$		10.0	0.31
			LZ		$M_S=5.0$		16.0	0.87
WMQ	62.8	307	−iP	15 26 18.0		−0.3		
			eS	15 34 41.5		−2.5		
			LZ		$M_S=4.6$		24.0	0.46
CD2	62.9	286	eP	15 26 15.6		−3.1		
GYA	64.2	281	P	15 26 27.0		−0.7		
			pP	15 26 37.6		0.3		
KMI	67.6	283	eP	15 26 49.5		0.1		
QZN	67.6	273	eP	15 26 50.0		0.5		
KSH	71.8	311	P	15 27 16.5		1.2		
			S	15 36 37.0		5.7		

JUN 21d 22h 46m 30.5±0.03s, SD1.38/133
27.02 N±0.75km, 127.01 E±0.62km, h143±0.44km
Ryukyu Islands (238)
m_B5.2/5, m_b5.1/45,

SSE	6.5	310	+iP	22 48 04.0		−1.1		
			PMZ		$m_b=5.5$		1.0	0.21
			SMN				1.0	0.11
			SME				1.0	0.10
			LN				6.0	0.68
			LE				6.0	0.99
QZH	7.9	257	eP	22 48 23.2		0.1		
NJ2	8.7	307	−P	22 48 32.5		−1.8		
			PMZ		$m_b=5.3$		1.2	0.096
			S	22 50 10.0		−0.8		
			SMN				1.4	0.095
			SME				1.0	0.12
			LN				3.0	0.48
			LE				4.0	0.98
WHN	11.6	291	−iP	22 49 13.2		−0.1		
			PMZ		$m_b=5.3$		1.5	0.090
			sP	22 49 52.0		2.0		
			eS	22 51 20.0		−1.0		
			SMN				2.0	0.41
			SME				1.8	0.20
			LN				6.0	1.63
			LE				5.0	0.82
TIA	12.4	320	eP	22 49 24.0		0.3		
			PMZ		$m_b=5.3$		1.2	0.080
			LN				10.0	0.50
DL2	12.7	341	−P	22 49 27.0		0.2		

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			PMZ		$m_b = 5.7$	1.7	0.25
			PMZ		$m_B = 5.8$	4.0	0.75
			eS	22 51 45.0	−0.3		
SNY	15.0	350	eP	22 49 58.2	1.3		
			PMZ		$m_b = 5.1$	1.2	0.10
			S	22 52 40.0	0.6		
BJI	15.8	328	eP	22 50 07.5	1.1		
			PMZ		$m_b = 5.2$	1.1	0.12
			PMZ		$m_B = 5.1$	5.0	0.40
TIY	16.3	315	−P	22 50 13.5	1.2		
			PMZ		$m_b = 5.0$	1.1	0.070
			sP	22 50 48.0	−3.5		
			S	22 53 08.5	1.3		
			LN			10.0	0.24
CN2	16.8	356	−P	22 50 18.8	0.2		
			PMZ		$m_b = 5.2$	1.0	0.10
			eS	22 53 20.0	0.4		
XAN	17.1	299	−P	22 50 22.0	−0.1		
			S	22 53 28.5	3.4		
			LN			7.0	0.62
QZN	17.7	247	eP	22 50 30.4	1.2		
MDJ	17.7	6	eP	22 50 29.3	0.1		
GYA	18.2	273	P	22 50 36.6	1.5		
			sP	22 51 19.4	3.7		
			S	22 53 56.0	6.4		
			ScS	23 02 00.2	−1.0		
HHC	18.8	321	P	22 50 41.8	0.2		
			PMZ		$m_b = 5.5$	1.2	0.26
			LN			8.0	0.23
			LE			8.0	0.31
BTO	19.5	318	P	22 50 48.5	−0.7		
			eS	22 54 14.0	−3.2		
CD2	20.7	286	eP	22 50 58.2	−3.0		
LZH	21.7	300	−P	22 51 10.0	−1.0		
			PMZ		$m_b = 4.6$	1.5	0.040
			PMZ		$m_B = 4.8$	5.0	0.24
			pP	22 51 38.0	−1.3		
			PP	22 51 42.0	−0.6		
			eS	22 54 58.0	0.7		
			SME			10.0	0.75
			PcP	22 55 08.0	0.5		
			LN			5.0	0.30
			LZ			15.0	0.40
GTA	25.8	306	−iP	22 51 48.8	−1.5		
			pP	22 52 15.0	−4.4		
			eS	22 56 05.0	−2.2		
			LN			8.0	0.21
			LZ			12.0	0.45
WMQ	35.8	308	+iP	22 53 17.0	−0.9		
			S	22 58 38.5	−4.6		

JUN 22d 02h 31m 49.2 ± 0.04s, SD2.63 / 6
41.95 N ± 0.59km, 84.94 E ± 0.39km, h6 ± 0.44km
Southern Xinjiang Province (321)
M_L3.3 / 6,

WMQ	2.8	47	Pn	02 32 37.5	3.2		
			Sg	02 33 12.9	−2.7		
			SMN		$M_L = 3.3$	0.5	0.12
			SME			0.5	0.14

JUN 22d 07h 43m 36.2 ± 0.05s, SD1.20 / 218
14.53 S ± 1.03km, 167.91 E ± 0.86km, h33 ± 0.15km
Vanuatu (New Hebrides) (186)
M_S5.2 / 4, m_B5.8 / 6, m_b5.2 / 37

SSE	63.8	316	+P	07 54 08.0	0.0		
			PMZ		$m_b = 4.9$	1.0	0.014
			LZ		$M_S = 4.6$	20.0	0.46
NJ2	66.0	315	+P	07 54 22.0	0.0		
			pP	07 54 28.3	−3.4		
QZN	66.2	299	eP	07 54 23.0	−0.4		
			PcP	07 54 50.0	−2.6		
WHN	68.3	312	−P	07 54 36.5	0.0		
			pP	07 54 42.5	−3.7		
MDJ	68.4	332	+P	07 54 36.6	−0.7		
			PMZ		$m_b = 5.2$	1.2	0.040
			LZ		$M_S = 4.9$	28.0	1.00
SNY	69.4	326	eP	07 54 39.6	−3.8		
			LZ		$M_S = 4.8$	24.0	0.65
TIA	69.6	318	P	07 54 44.1	−0.7		
CN2	69.8	329	+P	07 54 45.0	−0.9		
			PMZ		$m_b = 5.4$	1.0	0.050
			PMZ		$m_B = 5.7$	4.0	0.40
GYA	72.1	304	−P	07 55 00.6	0.6		
BJI	72.5	321	eP	07 55 02.5	0.3		
			PMZ		$m_b = 4.8$	1.5	0.017
			LZ		$M_S = 5.6$	24.0	3.82
TIY	73.5	317	+P	07 55 09.0	0.6		
			LN		$M_S = 5.3$	16.0	0.78
			LZ		$M_S = 5.2$	24.0	1.63
XAN	74.0	312	P	07 55 11.5	0.3		
KMI	74.7	302	eP	07 55 16.0	0.5		
			LZ		$M_S = 5.1$	26.0	1.30
HHC	75.8	319	P	07 55 22.0	0.2		
			LZ		$M_S = 5.4$	22.0	2.17
CD2	76.4	307	eP	07 55 25.1	0.3		
BTO	76.7	318	P	07 55 25.5	−1.1		
			ePP	07 58 19.0	−0.5		
LZH	78.6	312	+P	07 55 37.0	−0.5		
			PMZ		$m_B = 5.7$	4.0	0.40
			LZ		$M_S = 4.9$	26.0	0.80
GTA	83.0	314	P	07 56 01.0	0.6		
			PMZ		$m_b = 5.5$	1.6	0.082
			PMZ		$m_B = 5.8$	4.0	0.43
			LE		$M_S = 5.0$	10.0	0.22
			LZ		$M_S = 5.0$	18.0	0.59
WMQ	93.0	314	P	07 56 48.3	−0.4		
			LZ		$M_S = 5.1$	20.0	0.65

JUN 22d 07h 44m 23.5 ± 0.07s, SD1.67 / 62
14.50 S ± 1.36km, 167.76 E ± 1.11km, h34 ± 0.16km
Vanuatu (New Hebrides) (186)
m_b5.1 / 2,

SSE	63.7	316	P	07 54 53.5	−0.8
			sS	08 03 45.0	3.5
NJ2	65.8	315	P	07 55 08.0	−0.3
WHN	68.1	312	P	07 55 22.5	−0.3
			pP	07 55 35.5	2.8
MDJ	68.3	332	P	07 55 24.0	0.1
SNY	69.3	326	P	07 55 26.0	−3.9
CN2	69.7	329	P	07 55 29.0	−3.4
GYA	72.0	304	P	07 55 46.8	0.5
BJI	72.4	321	eP	07 55 48.0	−0.6
KMI	74.6	302	eP	07 56 02.5	0.7
			sS	08 05 57.0	6.6
BTO	76.6	319	P	07 56 14.0	1.0
LZH	78.5	312	P	07 56 24.0	0.1
GTA	82.9	314	P	07 56 48.0	1.1
WMQ	92.9	314	P	07 57 35.0	−0.2
			sP	07 57 49.0	−0.1

JUN 22d 11h 48m 45.4 ± 0.06s, SD1.53 / 172
19.62 S ± 0.79km, 69.20 W ± 1.26km, h102 ± 0.40km
Northern Chile (123)
m_b5.3 / 34,

KSH	144.1	49	PKP	12 08 11.0	0.8
			sPKP	12 08 47.0	−1.3

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WMQ	149.1	34	ePKP	12 08 22.0	3.4		
SNY	155.3	337	+iPKP	12 08 30.4	2.9		
GTA	158.1	23	PKP	12 08 32.8	1.5		
HHC	158.8	358	ePKP	12 08 35.0	2.9		
BJI	159.1	348	ePKP	12 08 34.0	1.7		
TIY	161.9	356	−iPKP	12 08 38.3	3.0		
LZH	162.5	19	ePKP	12 08 33.5	−2.5		
TIA	162.6	343	PKP	12 08 37.0	1.1		
CD2	167.1	28	ePKP	12 08 40.0	0.0		
WHN	168.7	344	ePKP	12 08 44.0	3.1		
			sPKP	12 09 20.0	0.9		
			ePKP2	12 09 58.0	5.8		
			PP	12 13 45.0	3.0		
GYA	172.2	28	PKP	12 08 44.2	1.0		
QZN	178.9	123	ePKP	12 08 47.2	2.4		
			PP	12 14 30.5	−1.9		
			SKKS	12 21 06.0	−0.6		

JUN 22d 19h 56m 20.4 ± 0.05s, SD1.16 / 182
14.62 S ± 0.96km, 167.89 E ± 0.87km, h39 ± 0.22km
Vanuatu (New Hebrides) (186)
m_B5.7 / 2, m_b5.3 / 37,

SSE	63.9	316	−P	20 06 51.0	−0.8		
			PMZ	m_b = 5.2		1.0	0.029
NJ2	66.0	315	−P	20 07 06.4	0.6		
			PMZ	m_b = 5.2		1.0	0.030
QZN	66.2	299	eP	20 07 07.8	0.8		
WHN	68.3	312	+eP	20 07 19.5	−0.7		
MDJ	68.5	332	+P	20 07 21.0	−0.2		
			PMZ	m_b = 5.2		1.0	0.030
DL2	68.6	323	eP	20 07 21.0	−0.8		
			PMZ	m_b = 5.3		1.2	0.048
SNY	69.4	326	+P	20 07 26.2	−1.0		
TIA	69.7	318	+P	20 07 27.5	−1.0		
CN2	69.9	329	+iP	20 07 29.5	−0.3		
			PMZ	m_b = 5.4		1.0	0.050
			epP	20 07 45.0	4.4		
			eS	20 16 35.0	−0.6		
GYA	72.2	304	+iP	20 07 44.0	0.3		
BJI	72.6	321	eP	20 07 46.0	0.0		
			PMZ	m_b = 5.3		1.5	0.055
TIY	73.6	317	+iP	20 07 52.2	0.0		
XAN	74.1	312	P	20 07 54.2	−0.7		
KMI	74.8	302	+P	20 08 00.0	0.9		
HHC	75.9	319	P	20 08 06.0	0.5		
CD2	76.4	307	eP	20 08 08.7	0.3		
BTO	76.7	319	eP	20 08 11.0	0.7		
LZH	78.7	312	+P	20 08 21.5	0.3		
			PMZ	m_b = 5.3		2.0	0.089
GTA	83.0	314	+iP	20 08 44.8	0.8		
			PMZ	m_b = 5.4		1.4	0.064
			PMZ	m_B = 5.8		4.0	0.43
WMQ	93.1	314	+iP	20 09 32.0	−0.3		
			PP	20 13 17.5	0.5		
			SKS	20 20 01.5	1.5		

JUN 22d 20h 06m 33.3 ± 0.04s, SD1.23 / 117
14.60 S ± 0.96km, 167.78 E ± 1.11km, h32 ± 0.22km
Vanuatu (New Hebrides) (186)
m_B5.6 / 2, m_b5.1 / 18,

NJ2	65.9	315	+P	20 17 19.8	0.7		
WHN	68.2	312	eP	20 17 33.5	0.0		
MDJ	68.4	332	eP	20 17 34.0	−0.6		
TIA	69.6	318	P	20 17 42.2	0.3		
CN2	69.8	329	−P	20 17 42.6	−0.6		
GYA	72.1	304	P	20 17 57.4	0.4		
BJI	72.5	321	eP	20 17 59.0	−0.4		
			PMZ	m_b = 5.0		1.7	0.035
TIY	73.5	317	eP	20 18 05.0	−0.5		
XAN	74.0	312	P	20 18 08.0	−0.2		
KMI	74.7	302	+P	20 18 14.5	2.0		
HHC	75.8	319	P	20 18 19.4	0.5		
CD2	76.3	307	eP	20 18 22.8	1.0		
BTO	76.7	319	eP	20 18 25.0	1.3		
LZH	78.6	312	−P	20 18 35.0	0.4		
			PMZ	m_b = 5.3		2.5	0.095
			PMZ	m_B = 5.5		8.0	0.54
			pP	20 18 44.5	0.8		
			sP	20 18 49.5	2.0		
GTA	82.9	314	P	20 18 57.0	−0.5		
			PMZ	m_b = 5.3		1.6	0.055
WMQ	93.0	314	P	20 19 45.5	−0.3		
			PP	20 23 34.6	4.3		

JUN 22d 21h 20m 43.5 ± 0.05s, SD1.12 / 229
14.59 S ± 0.92km, 167.93 E ± 0.78km, h19 ± 0.14km
Vanuatu (New Hebrides) (186)
M_S5.2 / 4, m_B5.9 / 11, m_b5.4 / 39

SSE	63.9	316	P	21 31 17.0	−0.7		
			PMZ	m_b = 5.2		1.0	0.029
			LE	M_S = 5.3		14.0	0.97
			LZ	M_S = 5.0		20.0	0.92
NJ2	66.0	315	+P	21 31 31.8	0.1		
QZN	66.2	299	eP	21 31 33.6	0.5		
			eS	21 40 22.5	2.4		
WHN	68.3	312	+P	21 31 46.0	−0.3		
			PMZ	m_b = 5.2		1.0	0.030
MDJ	68.5	332	+P	21 31 46.7	−0.4		
			PMZ	m_b = 5.4		1.4	0.070
			PMZ	m_B = 6.0		6.0	1.24
			sP	21 31 55.0	−2.4		
			eS	21 40 44.0	−2.9		
			sS	21 40 56.0	−2.8		
			SS	21 45 12.0	1.3		
			LZ	M_S = 4.8		28.0	0.77
DL2	68.6	323	+P	21 31 47.0	−0.8		
			PMZ			3.0	0.44
			S	21 40 47.0	0.1		
			LZ	M_S = 4.9		18.0	0.62
SNY	69.4	326	+P	21 31 52.0	−1.2		
			PMZ	m_B = 5.9		5.0	0.66
			sP	21 32 01.0	−2.5		
			S	21 40 53.0	−4.2		
			SS	21 45 22.0	−4.3		
			LZ	M_S = 4.9		22.0	0.87
TIA	69.7	318	P	21 31 53.4	−1.1		
CN2	69.9	329	+P	21 31 55.0	−0.7		
			PMZ	m_b = 5.6		1.0	0.070
			PMZ	m_B = 6.0		4.0	0.70
			pP	21 32 01.0	−1.8		
			eS	21 41 03.0	−0.5		
			LZ	M_S = 4.8		20.0	0.60
GYA	72.2	304	P	21 32 10.0	0.2		
BJI	72.6	321	eP	21 32 11.5	−0.5		
			PMZ	m_b = 5.5		1.8	0.10
			PMZ	m_B = 5.8		4.0	0.48
			eS	21 41 36.0	1.2		
			LZ	M_S = 5.2		24.0	1.59
TIY	73.6	317	+iP	21 32 17.8	−0.4		
			PMZ	m_b = 5.5		1.4	0.080
			PP	21 35 04.0	1.1		
			S	21 41 42.0	−3.0		
			LZ	M_S = 5.0		28.0	1.20
XAN	74.1	312	P	21 32 20.5	−0.4		
KMI	74.8	302	+P	21 32 26.5	1.3		
			PMZ	m_b = 5.6		1.6	0.11

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			PMZ		$m_B=5.6$		4.0	0.30
			pP	21 32 33.5		1.5		
			sP	21 32 36.0		0.8		
			S	21 42 02.0		3.6		
			LZ		$M_S=5.2$		20.0	1.30
HHC	75.9	319	P	21 32 31.6		0.1		
			LZ		$M_S=5.1$		28.0	1.47
CD2	76.4	307	eP	21 32 34.5		0.0		
BTO	76.7	318	P	21 32 36.5		0.2		
LZH	78.7	312	+P	21 32 47.0		−0.2		
			PMZ		$m_b=5.6$		2.0	0.15
			PMZ		$m_B=5.6$		10.0	0.75
			pP	21 32 53.5		−0.6		
			sP	21 32 56.5		−0.7		
			eS	21 42 42.0		−0.9		
			esS	21 42 54.0		−0.3		
			LZ		$M_S=5.0$		20.0	0.80
GTA	83.0	314	+iP	21 33 10.8		0.7		
			PMZ		$m_b=5.7$		1.6	0.13
			PMZ		$m_B=6.0$		4.0	0.60
WMQ	93.1	314	+iP	21 33 58.0		−0.3		
			PP	21 37 43.0		0.0		
			SKS	21 44 29.0		0.6		
			LZ		$M_S=4.8$		26.0	0.49

JUN 22d 21h 49m 08.5 ± 0.04s, SD1.06 / 293
14.57 S ± 0.79km, 167.96 E ± 0.77km, h22 ± 0.12km
Vanuatu (New Hebrides) (186)
M_S5.2 / 8, m_B6.0 / 11, m_b5.6 / 49

QZH	62.1	309	eP	21 59 31.0		0.3		
SSE	63.9	316	+iP	21 59 41.5		−0.7		
			PMZ		$m_b=5.7$		1.1	0.10
			pP	21 59 53.0		3.0		
GZH	65.2	304	−P	21 59 52.2		1.1		
NJ2	66.0	315	−iP	21 59 57.0		0.8		
			PMZ		$m_b=5.6$		1.2	0.10
			pP	22 00 03.5		−0.4		
			S	22 08 42.0		1.5		
			LZ		$M_S=4.9$		20.0	0.73
QZN	66.2	299	eP	21 59 58.1		0.5		
			PcP	22 00 29.0		2.3		
			PP	22 02 29.0		4.1		
			S	22 08 45.0		1.9		
WHN	68.3	312	+P	22 00 10.5		−0.3		
			PMZ		$m_b=5.8$		1.2	0.13
			pP	22 00 17.0		−1.4		
MDJ	68.5	332	+iP	22 00 11.5		−0.1		
			PMZ		$m_b=5.8$		1.2	0.15
			pP	22 00 22.0		2.8		
			PP	22 02 40.0		−3.9		
			SMN				7.0	0.66
			sS	22 09 28.0		4.3		
			SS	22 13 34.0		−0.8		
DL2	68.6	323	+P	22 00 11.0		−1.3		
			PMZ		$m_b=5.8$		1.5	0.16
			PMZ		$m_B=5.8$		4.0	0.50
			eS	22 09 10.0		−2.4		
			LZ		$M_S=4.8$		22.0	0.62
SNY	69.4	326	+iP	22 00 16.0		−1.6		
			PMZ		$m_B=6.1$		5.0	1.08
			pP	22 00 27.0		1.7		
			S	22 09 27.0		5.6		
			LZ		$M_S=5.1$		20.0	1.21
TIA	69.7	318	+P	22 00 17.7		−1.3		
CN2	69.8	329	+iP	22 00 19.2		−1.0		
			PMZ		$m_b=5.7$		1.0	0.10
			PMZ		$m_B=6.1$		4.0	1.00
			pP	22 00 30.0		2.2		
			eS	22 09 32.0		4.4		
GYA	72.2	304	P	22 00 34.8		0.5		
			pP	22 00 45.4		3.7		
BJI	72.6	321	eP	22 00 36.0		−0.5		
			PMZ		$m_b=5.7$		1.4	0.14
			PMZ		$m_B=5.9$		4.0	0.57
			eS	22 10 02.0		3.0		
			LZ		$M_S=5.3$		26.0	2.20
TIY	73.6	317	+iP	22 00 43.0		0.3		
			PMZ		$m_b=5.8$		1.4	0.18
			S	22 10 09.0		−0.2		
			LE		$M_S=5.2$		19.0	0.85
			LZ		$M_S=5.3$		25.0	1.94
XAN	74.1	312	+P	22 00 45.0		−0.4		
KMI	74.8	301	+P	22 00 50.5		0.7		
			pP	22 01 00.0		2.9		
			sP	22 01 04.5		4.1		
			sS	22 10 43.0		6.3		
			SKS	22 10 54.0		3.2		
			LZ		$M_S=5.2$		32.0	1.90
HHC	75.9	319	P	22 00 56.2		0.2		
			PMZ		$m_b=5.7$		1.4	0.12
			SMN				8.0	0.33
			SME				9.0	0.47
			LZ		$M_S=5.4$		28.0	2.96
CD2	76.4	307	P	22 00 58.9		−0.1		
			PMZ		$m_b=5.6$		1.3	0.10
			eS	22 10 43.0		0.6		
BTO	76.7	318	P	22 01 01.0		0.2		
			pP	22 01 11.0		2.8		
			ePP	22 03 56.0		2.3		
			eS	22 10 47.0		1.2		
			LN		$M_S=5.5$		15.0	0.80
			LE				18.0	0.80
LZH	78.7	312	+P	22 01 12.0		0.3		
			PMZ		$m_b=5.9$		1.5	0.20
			PMZ		$m_B=6.0$		5.0	0.85
			pP	22 01 22.0		2.9		
			sP	22 01 27.5		5.1		
			eS	22 11 08.0		0.9		
			LZ		$M_S=5.0$		32.0	1.30
GTA	83.0	314	+iP	22 01 35.0		0.4		
			PMZ		$m_B=6.1$		6.0	1.22
			PP	22 04 44.0		−2.2		
			S	22 11 52.0		2.0		
			LN		$M_S=5.1$		10.0	0.26
			LZ		$M_S=5.1$		22.0	0.93
LSA	86.0	302	P	22 01 51.0		1.0		
WMQ	93.1	314	+iP	22 02 22.2		−0.6		
			PP	22 06 11.3		3.8		
			eSKS	22 12 54.7		2.1		
			LZ		$M_S=5.0$		28.0	0.76

JUN 22d 23h 00m 08.6 ± 0.03s, SD1.04 / 105
1.71 N ± 0.42km, 127.31 E ± 0.75km, h142 ± 0.24km
Molucca Passage (266)
m_b5.1 / 27,

QZN	24.3	316	eP	23 05 14.1		0.0		
QZH	24.6	341	eP	23 05 17.8		0.8		
SSE	29.8	349	P	23 06 04.5		0.0		
WHN	31.2	338	−P	23 06 18.0		1.1		
			PMZ		$m_b=5.1$		0.6	0.020
NJ2	31.2	346	+P	23 06 18.0		1.0		
KMI	33.2	317	+P	23 06 35.5		0.7		
TIA	35.6	346	P	23 06 53.7		−1.0		
XAN	36.5	334	P	23 06 57.2		−4.8		
CD2	36.6	325	eP	23 07 02.8		−0.4		
DL2	37.4	353	eP	23 07 07.4		−2.2		

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TIY	38.4	341	−iP	23 07 18.4	0.6			
BJI	39.5	347	eP	23 07 27.0	0.0			
			PMZ	m_b=4.9		1.2	0.026	
SNY	40.1	356	−P	23 07 32.0	0.0			
LZH	40.5	330	eP	23 07 36.5	0.6			
			PMZ	m_b=4.8		2.0	0.039	
HHC	41.5	342	P	23 07 44.4	0.7			
CN2	41.9	358	eP	23 07 47.4	0.1			
MDJ	42.8	2	eP	23 07 53.5	−0.5			
LSA	44.2	313	eP	23 08 07.4	1.3			
GTA	45.1	330	P	23 08 13.6	0.6			
WMQ	54.7	326	−iP	23 09 25.8	0.0			
			eS	23 16 58.5	4.9			
KSH	59.9	316	P	23 10 03.5	0.9			

JUN 23d 05h 01m 44.2±0.04s, SD1.31/340
0.57 S±0.82km, 146.48 E±0.94km, h23±0.13km
Admiralty Islands region (199)
M_S6.0/60, m_B6.1/23, m_b5.8/81

QZH	37.0	315	P	05 08 56.8	2.2			
			pP	05 09 07.0	4.8			
			S	05 14 38.0	0.0			
			LE	M_S=5.9		18.0	12.4	
			LZ	M_S=5.6		24.0	13.0	
GZH	39.9	308	P	05 09 18.4	−0.1			
			sP	05 09 32.8	3.3			
			S	05 15 25.0	3.8			
			LN	M_S=6.1		16.0	9.23	
			LE			18.0	16.3	
			LZ	M_S=5.9		20.0	19.3	
QZN	40.9	300	eP	05 09 27.6	0.8			
			pP	05 09 36.0	1.6			
			PP	05 11 06.5	2.4			
			S	05 15 39.5	3.4			
			sS	05 15 56.0	6.3			
			SS	05 18 40.0	6.5			
			LN	M_S=6.1		17.0	8.50	
			LE			20.0	14.2	
NJ2	41.7	324	−P	05 09 35.0	2.0			
			S	05 15 52.0	4.6			
			LN	M_S=6.0		17.0	9.71	
			LE			18.0	8.54	
			LZ	M_S=5.7		18.0	10.1	
WHN	43.5	318	+eP	05 09 49.2	1.2			
			PMZ	m_b=5.7		1.0	0.11	
			pP	05 09 56.0	0.4			
			eS	05 16 16.0	0.9			
			ScS	05 19 40.0	−3.2			
			LE	M_S=6.1		20.0	17.9	
			LZ	M_S=5.7		20.0	10.6	
DL2	45.4	333	−P	05 10 03.0	−0.6			
			PMZ	m_b=6.4		1.2	0.66	
			PMZ	m_B=5.9		7.0	1.40	
			sP	05 10 18.0	3.4			
			S	05 16 43.0	0.7			
			SMN			10.0	2.00	
			SME			10.0	1.97	
			LN	M_S=5.8		16.0	6.14	
			LZ	M_S=5.8		20.0	10.3	
TIA	45.6	326	−P	05 10 04.4	−1.0			
			S	05 16 46.0	0.6			
			LN	M_S=6.1		15.0	6.82	
			LE			17.0	10.4	
GYA	46.8	308	P	05 10 15.4	0.6			
			pP	05 10 24.0	1.7			
			sP	05 10 31.0	5.4			
			S	05 17 06.0	3.8			
			sS	05 17 21.0	5.1			
			LN	M_S=6.2		18.0	5.30	
			LE			18.0	14.7	
			LZ	M_S=5.7		20.0	7.80	
SNY	47.0	337	−iP	05 10 15.0	−1.1			
			PMZ	m_b=5.8		1.2	0.15	
			PMZ	m_B=6.3		5.5	2.20	
			pP	05 10 25.7	2.0			
			S	05 17 03.0	−1.8			
			SMN			8.0	2.11	
			SME			9.0	5.93	
			sS	05 17 25.0	6.5			
			LN	M_S=5.9		18.0	6.53	
			LE			17.0	5.30	
MDJ	47.4	344	−P	05 10 19.0	−0.5			
			PMZ	m_b=5.9		1.2	0.20	
			PMZ	m_B=6.2		6.0	1.95	
			sP	05 10 32.0	1.6			
			iS	05 17 13.0	1.1			
			sS	05 17 28.0	3.5			
			SS	05 20 32.0	−0.2			
			LN	M_S=5.6		16.0	3.87	
			LZ	M_S=5.4		40.0	8.97	
CN2	48.0	340	+iP	05 10 23.6	−0.4			
			PMZ	m_b=5.7		1.0	0.10	
			PMZ	m_B=6.0		6.0	1.30	
			pP	05 10 33.0	1.4			
			PcP	05 11 52.0	0.5			
			ePP	05 12 17.0	2.3			
			ScP	05 15 39.0	−4.0			
			S	05 17 17.0	−2.0			
			SMN			9.0	0.70	
			SME			9.0	1.60	
			ScS	05 20 10.0	−2.2			
			SS	05 20 42.0	−0.7			
			LN	M_S=6.1		18.0	10.4	
			LE			18.0	6.00	
			LZ	M_S=6.0		20.0	17.0	
BJI	49.0	329	eP	05 10 31.0	−0.4			
			PMZ	m_b=5.7		1.2	0.12	
			PMZ	m_B=6.0		6.0	1.22	
			ePP	05 12 20.0	−4.2			
			eS	05 17 28.0	−5.4			
			LN	M_S=5.9		20.0	8.05	
			LZ	M_S=5.9		28.0	16.6	
XAN	49.2	318	P	05 10 31.6	−2.0			
			sP	05 10 47.2	2.7			
			PP	05 12 24.0	−3.0			
			S	05 17 36.0	−0.3			
			LN	M_S=6.2		18.0	12.1	
			LE			18.0	6.80	
TIY	49.4	324	eP	05 10 32.5	−2.1			
			S	05 17 39.0	0.9			
			LN	M_S=6.0		19.0	11.3	
			LZ	M_S=6.3		14.0	23.8	
KMI	49.4	304	+P	05 10 35.0	0.0			
			PMZ	m_b=5.6		1.8	0.17	
			PMZ	m_B=6.1		7.0	1.70	
			pP	05 10 42.0	−0.4			
			sP	05 10 49.0	3.3			
			PcP	05 11 56.5	0.0			
			PP	05 12 30.0	1.4			
			S	05 17 40.0	1.5			
			sS	05 17 56.0	3.7			
			LN	M_S=5.4		19.0	2.80	
			LZ	M_S=4.9		20.0	1.30	
CD2	51.2	312	eP	05 10 47.0	−1.7			
			pP	05 10 58.5	2.3			
			S	05 18 05.0	1.5			

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			SS	05 21 37.0	0.2			
			LN	$M_S=6.1$		15.0	8.76	
			LZ	$M_S=5.9$		24.0	13.1	
HHC	52.0	327	P	05 10 54.0	−0.7			
			PMZ	$m_b=5.9$		0.6	0.11	
			pP	05 11 03.0	0.8			
			S	05 18 12.0	−2.4			
			SMN			7.0	2.62	
			SME			9.0	2.21	
			LN	$M_S=6.0$		17.0	8.15	
			LE			16.0	2.94	
			LZ	$M_S=5.1$		20.0	1.87	
BTO	52.7	325	−iP	05 10 59.0	−0.9			
			pP	05 11 13.0	5.6			
			ePP	05 13 03.0	3.5			
			S	05 18 22.0	−1.9			
			eSS	05 22 00.5	−0.7			
			LN	$M_S=6.2$		18.0	10.1	
			LE			18.0	10.7	
LZH	53.8	317	+P	05 11 07.0	−1.4			
			PMZ	$m_b=5.9$		1.5	0.23	
			pP	05 11 17.0	1.1			
			sP	05 11 24.0	4.8			
			PcP	05 12 12.5	−0.4			
			PP	05 13 10.0	0.1			
			S	05 18 38.0	−1.3			
			sS	05 18 56.0	2.8			
			SS	05 22 18.0	−1.5			
			LN	$M_S=5.9$		20.0	6.90	
			LE			16.0	3.30	
			LZ	$M_S=5.6$		30.0	9.00	
GTA	58.3	319	+iP	05 11 39.6	−0.8			
			PMZ	$m_b=5.9$		1.0	0.15	
			PMZ	$m_B=6.1$		6.0	1.46	
			pP	05 11 49.6	1.6			
			sP	05 11 56.0	4.7			
			PP	05 13 48.0	−2.3			
			S	05 19 38.0	−0.7			
			sS	05 19 58.0	5.3			
			ScS	05 21 28.0	4.0			
			SS	05 23 27.0	−5.2			
			LE	$M_S=5.8$		17.0	4.21	
			LZ	$M_S=5.8$		25.0	9.59	
LSA	60.7	305	eP	05 11 56.0	−1.0			
			S	05 20 15.0	5.9			
			LN	$M_S=5.4$		17.0	1.55	
WMQ	68.4	318	P	05 12 46.0	−0.9			
			PMZ	$m_B=6.1$		6.0	1.56	
			S	05 21 49.0	4.6			
			SMN			8.0	2.15	
			SS	05 26 14.0	4.7			
			LN	$M_S=6.0$		19.0	3.84	
			LE			18.0	2.97	
			LZ	$M_S=6.0$		20.0	9.01	
KSH	75.4	311	P	05 13 31.6	2.5			
			PP	05 16 20.0	0.8			
			S	05 23 04.0	−1.5			
			SME			6.0	3.00	
			LN	$M_S=6.0$		14.0	3.20	

JUN 23d 05h 31m 21.0 ± 0.06s, SD1.43 / 82
21.00 S ± 1.20km, 173.93 E ± 1.03km, h33 ± 0.16km
Vanuatu (New Hebrides) region (185)
m_b4.9 / 11,

WHN	76.8	310	eP	05 43 12.0	0.0			
MDJ	76.8	329	eP	05 43 10.5	−1.5			
TIA	78.2	316	P	05 43 17.0	−2.8			
CN2	78.3	326	P	05 43 19.0	−1.2			
BJI	81.1	319	eP	05 43 33.5	−1.9			
TIY	82.1	315	+P	05 43 41.2	0.4			
XAN	82.6	311	P	05 43 43.7	0.7			
KMI	83.0	300	eP	05 43 47.0	1.9			
HHC	84.5	318	P	05 43 53.8	1.2			
CD2	84.8	306	eP	05 43 58.2	3.8			
LZH	87.2	310	eP	05 44 04.0	−2.2			
			PMZ	$m_b=5.3$		1.5	0.037	
			pP	05 44 12.0	−3.7			
			LZ	$M_S=5.5$		20.0	1.70	
GTA	91.6	312	P	05 44 26.8	0.1			

JUN 23d 13h 17m 55.0 ± 0.04s, SD1.34 / 74
0.82 N ± 0.64km, 123.12 E ± 0.95km, h38 ± 0.22km
Minahassa Peninsula (Celebes) (265)
M_S4.5 / 1, m_b5.0 / 12,

QZN	22.3	325	P	13 22 50.4	−0.4			
GYA	30.0	329	eP	13 24 05.0	2.1			
NJ2	31.3	353	+P	13 24 11.5	−2.9			
CD2	35.1	330	eP	13 24 46.7	−0.6			
XAN	35.6	340	P	13 24 50.9	−0.8			
TIY	38.0	346	+P	13 25 11.5	−0.3			
			eS	13 31 02.0	0.7			
			sS	13 31 22.0	3.8			
			LE	$M_S=4.5$		8.0	0.22	
			LZ	$M_S=4.5$		16.0	0.60	
LZH	39.4	335	eP	13 25 24.0	0.6			
			PMZ	$m_b=4.9$		2.5	0.053	
			LZ	$M_S=4.2$		25.0	0.40	
LSA	41.8	316	P	13 25 45.8	1.9			
GTA	43.9	334	P	13 26 00.8	0.3			
			PMZ	$m_b=4.9$		0.8	0.015	
WMQ	53.2	328	eP	13 27 11.5	−0.5			

JUN 23d 13h 57m 21.6 ± 0.03s, SD1.38 / 22
22.29 S ± 1.07km, 175.02 E ± 0.99km, h32 ± 0.38km
Loyalty Islands region (189)
m_b5.0 / 1,

CN2	79.9	326	eP	14 09 30.5	0.7			
TIY	83.8	315	+P	14 09 50.9	1.0			
LZH	88.8	310	eP	14 10 16.0	1.4			
			pP	14 10 24.0	0.1			
GTA	93.2	311	P	14 10 35.4	0.5			

JUN 23d 14h 46m 35.6 ± 0.04s, SD1.19 / 145
14.53 S ± 0.91km, 167.93 E ± 0.94km, h33 ± 0.15km
Vanuatu (New Hebrides) (186)
m_b5.3 / 25,

NJ2	66.0	315	−P	14 57 21.3	−0.2			
WHN	68.3	312	eP	14 57 36.5	0.5			
MDJ	68.4	332	eP	14 57 36.2	−0.6			
DL2	68.5	323	eP	14 57 37.7	0.2			
			PMZ	$m_b=5.4$		1.4	0.063	
SNY	69.4	326	eP	14 57 42.3	−0.6			
TIA	69.6	318	P	14 57 43.8	−0.4			
CN2	69.8	329	+P	14 57 44.0	−1.4			
GYA	72.1	304	P	14 58 00.8	1.3			
BJI	72.5	321	eP	14 58 01.0	−0.7			
			PMZ	$m_b=5.3$		2.0	0.083	
TIY	73.5	317	−P	14 58 08.6	0.7			
			S	15 07 34.0	0.8			
			LZ	$M_S=4.9$		20.0	0.63	
XAN	74.0	312	eP	14 58 11.0	0.3			
KMI	74.8	301	−P	14 58 16.5	1.5			
HHC	75.8	319	eP	14 58 22.8	1.6			
CD2	76.4	307	eP	14 58 25.0	0.7			
BTO	76.7	318	eP	14 58 25.7	−0.4			
LZH	78.7	312	−P	14 58 37.5	0.5			

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		PMZ		$m_b = 5.5$	2.0	0.11
GTA	83.0	314	−iP	14 59 00.6	0.7	
		PMZ		$m_b = 5.5$	1.6	0.084
WMQ	93.0	314	eP	14 59 47.0	−1.1	
		PP		15 03 32.0	−0.8	
KSH	100.6	308	eP	15 00 23.0	0.4	

JUN 23d 21h 38m 18.5 ± 0.04s, SD1.21 / 590
21.51 S ± 1.09km, 176.49 W ± 0.97km, h179 ± 0.27km
South of Fiji (171)
m_B6.4 / 29, m_b6.3 / 75,

QZH	78.1	303	−iP	21 49 59.5	−0.5	
			PMZ	$m_b = 6.4$	1.0	0.87
			PMZ		3.0	6.13
			pP	21 50 45.0	2.2	
			S	21 59 34.0	−2.9	
			LZ		24.0	15.1
SSE	79.4	309	−P	21 50 06.0	−0.9	
			PMZ	$m_b = 5.8$	1.1	0.24
			PMZ	$m_B = 6.0$	8.0	2.70
			PcP	21 50 13.0	−0.8	
			pP	21 50 55.0	5.2	
			PP	21 53 10.0	0.2	
			S	21 59 46.0	−4.4	
			SKS	21 59 56.0	−4.1	
			ScS	22 00 07.0	−2.3	
			LN		16.0	7.80
			LE		16.0	4.98
			LZ		20.0	6.90
GZH	81.4	299	−iP	21 50 18.0	0.4	
			pP	21 51 03.0	2.2	
			sP	21 51 21.0	1.0	
			S	22 00 13.0	1.7	
			LZ		36.0	18.1
NJ2	81.6	309	−P	21 50 17.6	−0.9	
			PMZ	$m_b = 5.8$	1.2	0.21
			pP	21 51 04.0	2.3	
			S	22 00 12.0	−1.0	
MDJ	82.1	324	−iP	21 50 20.8	−0.5	
			PMZ	$m_b = 6.2$	1.0	0.44
			pP	21 51 10.0	5.5	
			iS	22 00 20.0	−0.2	
			SMN		14.0	19.2
QZN	82.5	294	eP	21 50 23.0	−0.4	
			PMZ	$m_B = 6.1$	12.0	3.90
			S	22 00 22.5	−0.1	
DL2	83.4	316	−iP	21 50 26.0	−1.8	
			PMZ	$m_b = 6.1$	1.2	0.42
			PMZ	$m_B = 6.4$	4.0	2.80
			pP	21 51 13.0	1.8	
			S	22 00 28.0	−3.3	
			SMN		10.0	2.86
			SME		12.0	4.02
			sS	22 01 54.0	5.3	
			LN		18.0	8.05
			LE		12.0	4.02
			LZ		30.0	8.10
SNY	83.9	319	−iP	21 50 28.5	−1.6	
			PMZ	$m_b = 6.3$	1.8	1.06
			PMZ	$m_B = 6.4$	12.0	8.41
			PcP	21 50 32.0	−1.1	
			pP	21 51 18.5	5.0	
			PP	21 53 42.5	−4.0	
			SKS	22 00 31.0	−0.2	
			iS	22 00 38.0	0.5	
CN2	84.0	322	−iP	21 50 29.0	−1.5	
			PMZ	$m_b = 6.3$	1.0	0.50
			PMZ	$m_B = 6.7$	5.0	6.50
			pP	21 51 19.0	5.1	
			SMN		8.0	5.60
			SME		8.0	2.40
WHN	84.2	306	−P	21 50 31.0	−0.5	
			PMZ	$m_b = 5.8$	1.5	0.28
			pP	21 51 16.0	1.0	
			S	22 00 36.0	−2.7	
			LZ		22.0	4.56
TIA	85.0	312	−P	21 50 34.2	−1.5	
			pP	21 51 21.0	1.9	
			LZ		38.0	14.0
BJI	87.6	315	−P	21 50 47.0	−1.2	
			PMZ	$m_b = 6.7$	2.0	1.99
			PMZ		17.0	7.60
			epP	21 51 32.0	0.1	
			esP	21 51 52.0	1.0	
			eSKS	22 00 52.0	−3.7	
			eS	22 01 08.0	−5.1	
			esS	22 02 36.0	6.3	
			LN		20.0	6.90
			LZ		30.0	11.2
GYA	88.4	299	−P	21 50 51.6	−0.5	
			PMZ	$m_B = 6.5$	4.0	2.60
			pP	21 51 39.0	3.4	
			PP	21 54 23.0	−0.6	
			SKS	22 01 04.0	3.5	
TIY	89.0	311	−P	21 50 54.5	−0.5	
			PMZ	$m_b = 6.6$	1.6	1.11
			PMZ	$m_B = 6.6$	6.0	5.00
			pP	21 51 40.0	1.3	
			sP	21 52 02.0	4.4	
			SKS	22 01 04.5	0.1	
			S	22 01 26.0	1.6	
			SME		12.0	5.38
XAN	89.9	307	−iP	21 50 58.6	−0.4	
			PMZ	$m_B = 6.5$	7.0	3.87
			pP	21 51 48.0	5.2	
			S	22 01 29.0	−3.2	
			LN		12.0	16.4
			LE		10.0	8.04
HHC	91.1	314	−P	21 51 04.0	−0.7	
			PMZ	$m_b = 6.5$	0.6	0.28
			PMZ	$m_B = 6.3$	7.0	2.30
			pP	21 51 52.5	4.0	
			PP	21 54 42.0	−2.1	
			SKS	22 01 17.0	0.3	
			S	22 01 40.0	−2.9	
			SMN		11.0	12.1
			SME		11.0	5.97
			LZ		40.0	20.1
KMI	91.1	297	−P	21 51 05.0	0.2	
			PP	21 54 44.0	−0.1	
			SKS	22 01 18.0	1.3	
			LN		18.0	6.30
			LZ		18.0	9.20
BTO	92.0	313	−iP	21 51 08.0	−1.0	
			PMZ	$m_B = 6.3$	10.0	2.90
			pP	21 51 57.0	4.2	
			PP	21 54 50.0	−2.5	
			S	22 01 47.0	−4.1	
			LN		17.0	5.10
			LE		17.0	3.30
CD2	92.5	302	P	21 51 10.5	−0.8	
			pP	21 52 00.0	4.8	
			SKS	22 01 24.0	−0.9	
LZH	94.5	307	−P	21 51 20.0	−0.5	
			PMZ	$m_b = 6.6$	2.0	0.82
			PMZ	$m_B = 6.3$	8.0	1.76

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			PP	21 55 09.0	−3.2		
			LN			17.0	4.60
			LE			15.0	2.10
			LZ			50.0	40.4
GTA	98.7	309	P	21 51 38.0	−1.6		
			PMZ	$m_b = 5.9$		0.8	0.049
			pP	21 52 26.0	2.4		
			SKS	22 01 56.0	−2.0		
			LE			15.0	2.51
			LZ			55.0	48.6
LSA	102.3	297	P	21 51 56.4	0.4		
WMQ	108.6	311	PKP	21 56 27.2	0.5		
KSH	116.7	304	PKP	21 56 43.0	0.6		
			PP	21 57 53.0	−3.0		
			eSKKS	22 04 23.0	−6.5		
			LE			18.0	5.90
			LZ			60.0	29.5

JUN 24d 00h 29m 11.1 ± 0.04s, SD1.55 / 106
2.43 S ± 0.73km, 139.78 E ± 1.16km, h25 ± 0.16km
Near north coast of West Irian (197)
m_b4.9 / 22,

QZN	36.3	307	eP	00 36 16.0	0.5		
SSE	37.8	333	eP	00 36 24.5	−2.7		
NJ2	39.6	332	eP	00 36 41.8	−1.1		
GYA	43.0	314	P	00 37 12.6	1.9		
			pP	00 37 20.0	1.4		
TIA	43.9	333	P	00 37 17.5	−0.3		
KMI	45.2	310	−P	00 37 30.0	1.6		
XAN	46.5	324	P	00 37 38.8	0.2		
TIY	47.3	330	eP	00 37 41.4	−3.7		
			LZ	$M_S = 4.6$		20.0	0.75
BJI	47.5	335	eP	00 37 46.0	−0.4		
			PMZ	$m_b = 4.9$		2.0	0.039
CD2	47.7	317	eP	00 37 48.5	0.3		
MDJ	47.7	350	eP	00 37 48.0	−0.3		
CN2	47.8	346	P	00 37 48.6	−0.3		
BTO	50.7	331	eP	00 38 11.0	−0.6		
LZH	50.9	322	+P	00 38 12.5	−0.6		
			PMZ	$m_b = 4.9$		2.0	0.032
			pP	00 38 21.0	0.2		
GTA	55.5	323	P	00 38 47.0	0.0		
WMQ	65.5	321	+iP	00 39 55.0	0.1		
KSH	71.7	313	eP	00 40 35.5	1.7		

JUN 24d 01h 33m 24.7 ± 0.06s, SD2.91 / 10
25.94 N ± 0.51km, 100.18 E ± 0.48km, h18 ± 0.32km
Yunnan Province (318)
M_L4.1 / 5,

GYA	5.9	84	Pg	01 35 11.2	2.9		
CD2	5.9	32	ePg	01 35 08.6	0.1		
			Sg	01 36 24.1	−4.6		
			SMN	$M_L = 4.1$		1.4	0.13
			SME			1.4	0.15

JUN 24d 05h 29m 26.5 ± 0.03s, SD1.14 / 79
0.49 N ± 0.47km, 122.41 E ± 0.70km, h153 ± 0.15km
Minahassa Peninsula (Celebes) (265)
m_b5.2 / 19,

QZN	22.2	327	eP	05 34 09.6	−1.2		
			S	05 38 05.0	5.5		
WHN	30.9	346	eP	05 35 31.0	0.2		
CD2	35.0	331	eP	05 36 06.8	−0.1		
XAN	35.7	341	+P	05 36 12.5	0.2		
TIY	38.2	347	+P	05 36 32.8	−0.3		
DL2	38.2	359	eP	05 36 32.8	−0.8		
LZH	39.4	336	eP	05 36 44.5	1.1		
BJI	39.8	353	eP	05 36 46.0	−0.3		
			LZ			16.0	0.29
BTO	41.5	346	eP	05 37 01.6	1.2		
CN2	43.2	3	eP	05 37 16.0	1.6		
GTA	43.9	335	P	05 37 21.2	1.1		
			PMZ	$m_b = 4.7$		1.0	0.016
MDJ	44.4	7	eP	05 37 23.8	−0.1		
WMQ	53.1	329	eP	05 38 31.2	0.5		

JUN 24d 08h 35m 24.6 ± 0.04s, SD1.19 / 344
21.56 S ± 0.92km, 176.50 W ± 0.79km, h193 ± 0.29km
South of Fiji (171)
m_B5.6 / 5, m_b5.6 / 76,

QZH	78.2	303	+iP	08 47 04.5	−0.3		
			PMZ	$m_b = 5.5$		0.9	0.095
			sP	08 48 10.0	−1.1		
SSE	79.4	309	−P	08 47 11.0	−0.7		
			PMZ	$m_b = 5.0$		1.0	0.032
			PMZ	$m_B = 5.6$		8.0	1.06
			S	08 56 54.0	−0.3		
			sS	08 58 15.0	−1.0		
			LZ			20.0	0.46
GZH	81.5	299	P	08 47 21.6	−0.8		
NJ2	81.6	309	+P	08 47 22.5	−0.8		
MDJ	82.2	324	eP	08 47 25.8	−0.4		
			pP	08 48 10.0	−2.4		
			S	08 57 27.0	4.5		
			LN			14.0	1.04
QZN	82.6	294	eP	08 47 28.5	0.4		
			sP	08 48 33.0	−1.7		
			PP	08 50 44.5	3.6		
			eS	08 57 30.0	2.0		
			sS	08 58 54.0	5.4		
DL2	83.5	316	−P	08 47 32.0	−0.7		
			PMZ	$m_b = 5.4$		1.0	0.068
			PMZ	$m_B = 5.4$		6.0	0.42
			pP	08 48 18.0	−1.0		
			eS	08 57 34.0	−3.0		
			sS	08 59 00.0	2.2		
SNY	83.9	319	−iP	08 47 33.0	−2.0		
			PMZ	$m_B = 5.4$		7.0	0.48
			pP	08 48 23.0	1.7		
			sP	08 48 44.0	2.4		
			S	08 57 40.0	0.2		
			sS	08 59 00.0	−2.4		
CN2	84.0	322	−iP	08 47 34.2	−1.2		
			PMZ	$m_b = 5.6$		1.0	0.10
			PMZ	$m_B = 5.9$		4.0	0.80
			pP	08 48 21.0	−0.7		
			sP	08 48 41.0	−0.9		
			eS	08 57 42.0	−0.2		
			sS	08 59 00.0	−3.2		
WHN	84.2	306	+eP	08 47 36.0	−0.4		
			PMZ	$m_b = 5.2$		1.0	0.040
			pP	08 48 27.5	4.8		
TIA	85.0	312	eP	08 47 39.4	−1.1		
BJI	87.6	315	eP	08 47 52.5	−0.6		
			PMZ	$m_b = 5.2$		1.0	0.036
			epP	08 48 39.0	−0.7		
			eS	08 58 18.0	1.0		
GYA	88.4	299	P	08 47 57.0	0.2		
TIY	89.0	311	−P	08 47 59.4	−0.4		
			PMZ	$m_b = 5.5$		1.2	0.070
			SKS	08 58 10.0	2.1		
XAN	89.9	307	−P	08 48 03.5	−0.3		
HHC	91.1	314	−P	08 48 09.0	−0.5		
			pP	08 48 57.0	0.8		
			PP	08 51 46.0	−3.3		
			SMN			9.0	0.53

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BTO	92.0	313	eP	08 48 13.0	−0.8			
CD2	92.5	302	eP	08 48 16.1	0.0			
LZH	94.5	307	eP	08 48 25.5	0.2			
			PMZ	$m_b=5.5$		2.5	0.090	
			PMZ	$m_B=5.6$		8.0	0.36	
			sP	08 49 33.0	0.8			
			PP	08 52 13.0	−3.9			
			eSKS	08 58 40.5	1.2			
			eS	08 59 18.0	−0.6			
			LZ			20.0	0.63	
GTA	98.7	309	P	08 48 42.4	−2.0			
			LE			10.0	0.31	
			LZ			14.0	0.41	
WMQ	108.7	311	Pdif	08 49 31.6	3.2			
KSH	116.7	304	PKP	08 53 48.7	1.7			
			PP	08 55 06.0	5.2			

JUN 24d 09h 45m 56.6±0.06s, SD1.11/268
36.92 N±1.28km, 49.40 E±0.45km, h10±0.16km
North–Western Iran (345)
M_S5.1/19, m_B5.4/1, m_b5.0/70

KSH	21.0	75	P	09 50 44.0	1.1			
			S	09 54 36.0	5.0			
			LN	$M_S=5.4$		9.0	5.10	
WMQ	29.8	65	−iP	09 52 03.7	−2.5			
			S	09 57 06.0	5.3			
			LN	$M_S=4.9$		10.0	0.72	
			LE			11.0	0.97	
			LZ	$M_S=4.7$		14.0	1.11	
LSA	35.4	89	eP	09 52 56.4	0.7			
GTA	39.3	70	P	09 53 28.8	0.7			
			S	09 59 34.0	6.2			
			SS	10 02 16.0	2.8			
			LN	$M_S=4.9$		10.0	0.66	
			LZ	$M_S=5.0$		14.0	1.47	
LZH	43.3	74	eP	09 54 01.0	0.3			
			PMZ	$m_b=4.9$		2.0	0.043	
			PMZ	$m_B=5.4$		5.0	0.32	
			pP	09 54 04.5	−1.6			
			PP	09 55 42.0	−0.8			
			LN	$M_S=5.1$		15.0	0.90	
			LE			14.0	0.80	
			LZ	$M_S=4.7$		18.0	0.80	
CD2	45.0	81	eP	09 54 15.1	0.5			
BTO	46.6	66	eP	09 54 28.0	0.7			
			eS	10 01 17.0	−1.2			
			LN	$M_S=5.1$		14.0	0.70	
			LE			14.0	0.70	
HHC	47.7	65	P	09 54 35.5	−0.2			
			S	10 01 34.0	4.4			
			LN	$M_S=4.9$		12.0	0.47	
			LE			10.0	0.33	
			LZ	$M_S=4.8$		20.0	1.00	
XAN	47.9	75	P	09 54 36.0	−1.3			
			S	10 01 39.0	6.4			
			LN	$M_S=5.1$		10.0	0.73	
GYA	49.2	85	P	09 54 48.4	0.8			
TIY	49.3	69	eP	09 54 48.4	0.3			
			eS	10 01 59.0	5.6			
			LE	$M_S=5.0$		13.0	0.71	
			LZ	$M_S=5.0$		17.0	1.20	
BJI	51.3	65	eP	09 55 03.5	0.3			
			eS	10 02 24.0	3.3			
			LZ	$M_S=4.4$		20.0	0.36	
TIA	53.3	69	eP	09 55 20.5	1.8			
WHN	53.5	77	eP	09 55 24.0	4.2			
QZN	55.4	91	eP	09 55 34.2	0.2			
			eS	10 03 17.5	0.4			
			LE	$M_S=5.5$		6.9	0.83	
DL2	55.6	64	eP	09 55 37.0	1.6			
			PMZ	$m_b=5.1$		1.0	0.020	
			eS	10 03 24.0	4.2			
CN2	56.5	57	eP	09 55 41.6	0.0			
			pP	09 55 47.0	−0.2			
			eS	10 03 30.0	−1.3			
			LN	$M_S=5.2$		12.0	0.70	
			LE			12.0	0.50	
			LZ	$M_S=5.0$		20.0	1.40	

JUN 24d 21h 22m 01.0±0.02s, SD1.36/6
45.64 N±0.15km, 132.88 E±0.14km, h29±0.22km
E. Russia–N.E. China border region (657)
M_L3.2/5,

MDJ	2.5	247	Pg	21 22 45.2	−1.0			
			Sg	21 23 18.8	−2.3			
			SMN	$M_L=3.0$		0.3	0.090	

JUN 24d 21h 31m 23.1±0.06s, SD2.29/19
38.32 N±0.68km, 100.21 E±0.51km, h5±km
Qinghai Province (325)
M_S4.5/5, M_L4.3/6, m_b4.5/2

GTA	1.1	344	Pg	21 31 43.0	−0.4			
			SMN	$M_L=3.4$		1.4	0.44	
			SME			1.4	0.93	
			LN			8.0	1.73	
			LE			8.0	3.41	
LZH	3.7	126	ePg	21 32 27.5	−0.4			
			Sn	21 33 05.5	−0.8			
			SMN	$M_L=4.7$		1.0	1.65	
			SME			1.0	1.90	
			LN	$M_S=4.6$		8.0	8.10	
BTO	7.9	70	eP	21 33 20.0	−2.1			
			LN	$M_S=4.6$		9.0	3.20	
			LZ	$M_S=4.4$		9.0	2.30	
XAN	8.2	119	eP	21 33 28.3	1.9			
HHC	9.1	70	eP	21 33 35.6	−3.2			
			LN	$M_S=4.1$		8.0	0.72	
			LZ	$M_S=4.0$		14.0	1.18	
TIY	9.7	90	eP	21 33 45.5	−0.8			
			LN	$M_S=4.4$		10.0	1.60	
			LZ	$M_S=4.0$		12.0	0.96	
WMQ	10.9	304	eP	21 34 07.0	3.6			
			LN	$M_S=4.5$		10.0	1.08	
			LE			9.0	1.52	
			LZ	$M_S=4.3$		11.0	1.38	
WHN	14.0	119	eP	21 34 47.5	2.8			
CN2	19.8	66	eP	21 35 58.2	1.0			
			eS	21 39 31.0	−3.9			
			LZ	$M_S=4.1$		16.0	0.70	

JUN 25d 07h 19m 03.9±0.06s, SD1.51/144
56.12 N±1.30km, 164.49 E±0.74km, h30±0.16km
Off east coast of Kamchatka (219)
M_S5.3/27, m_b5.0/29,

MDJ	24.8	257	eP	07 24 22.5	−2.3			
			pP	07 24 31.0	−2.2			
			S	07 28 40.0	−2.0			
			LN	$M_S=5.1$		16.0	2.90	
			LE			16.0	2.44	
			LZ	$M_S=5.3$		12.0	5.43	
CN2	27.6	260	eP	07 24 49.5	−1.3			
			PMZ	$m_b=4.8$		1.0	0.020	
			pP	07 24 59.0	−0.3			
			eS	07 29 30.0	1.2			
			LN	$M_S=5.2$		14.0	3.00	
			LE			14.0	1.00	

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			LZ		$M_S=4.9$		14.0	2.10
SNY	29.9	259	eP	07 25 12.0		0.3		
			S	07 30 10.0		4.7		
			LE		$M_S=5.1$		13.0	2.10
			LZ		$M_S=5.1$		14.0	3.06
BJI	35.2	264	eP	07 25 56.5		−1.6		
			PP	07 27 18.0		0.8		
			eS	07 31 28.0		−1.1		
			SS	07 33 48.0		2.1		
			LN		$M_S=5.1$		14.0	1.46
			LE				14.0	0.99
			LZ		$M_S=5.4$		13.0	4.10
HHC	37.3	269	P	07 26 17.0		1.7		
			pP	07 26 26.0		2.1		
			S	07 32 03.0		3.6		
			SS	07 34 28.0		−3.3		
			LN		$M_S=5.4$		15.0	2.57
			LE				16.0	2.72
BTO	38.3	270	eP	07 26 24.0		0.0		
			pP	07 26 32.0		−0.7		
			eS	07 32 17.0		0.7		
			LN		$M_S=5.5$		16.0	3.70
			LE				16.0	3.00
TIY	38.9	264	eP	07 26 30.9		1.5		
			sS	07 32 46.0		5.5		
			LN		$M_S=5.4$		13.0	2.60
			LZ		$M_S=5.3$		14.0	3.10
SSE	39.2	249	eP	07 26 30.0		−1.0		
			S	07 32 26.0		−2.3		
			sS	07 32 43.0		−0.7		
			LN		$M_S=4.9$		14.0	0.75
			LE				14.0	0.71
NJ2	39.6	252	+P	07 26 33.5		−1.5		
			LZ		$M_S=4.7$		16.0	0.94
WHN	43.2	255	eP	07 27 01.0		−3.6		
			pP	07 27 12.0		−1.5		
			LN		$M_S=5.3$		17.0	2.56
			LZ		$M_S=4.9$		16.0	1.19
XAN	43.6	264	eP	07 27 07.5		0.1		
			S	07 33 33.0		−0.5		
			LN		$M_S=5.5$		14.0	2.40
			LE				14.0	2.15
GTA	44.8	276	+iP	07 27 17.2		−0.3		
			LE		$M_S=5.3$		13.0	1.80
			LZ		$M_S=5.3$		14.0	2.34
LZH	44.9	270	eP	07 27 18.5		0.2		
			PMZ		$m_b=5.5$		1.5	0.11
			pP	07 27 28.0		1.0		
			PP	07 29 05.0		1.1		
			eS	07 33 53.0		−1.3		
			LN		$M_S=5.5$		14.0	2.20
			LE				14.0	2.20
			LZ		$M_S=5.4$		15.0	3.50
WMQ	48.4	289	P	07 27 46.0		0.4		
			eS	07 34 46.0		2.6		
			LN		$M_S=5.6$		17.0	3.30
			LE				17.0	2.52
			LZ		$M_S=5.0$		18.0	1.41
CD2	48.8	265	eP	07 27 48.3		−0.4		
			eS	07 34 51.0		1.8		
			LN		$M_S=5.4$		15.0	2.20
			LZ		$M_S=5.1$		16.0	1.50
GYA	50.6	259	P	07 28 05.4		2.6		
KMI	53.8	262	eP	07 28 30.0		3.1		
			eS	07 36 02.0		3.4		
			LN		$M_S=5.3$		15.0	1.30
			LE				15.0	0.80
			LZ		$M_S=5.0$		20.0	1.30
QZN	54.9	251	eP	07 28 34.8		0.2		
			eS	07 36 11.5		−1.3		
			LN		$M_S=5.3$		15.0	0.99
			LE				15.0	0.59
LSA	56.8	275	eP	07 28 49.5		1.0		
KSH	57.6	294	eP	07 28 55.5		1.4		
			eS	07 36 52.0		3.1		
			LE		$M_S=5.6$		12.0	2.00

JUN 25d 18h 00m 27.1 ± 0.03s, SD2.31 / 11
31.54 N ± 0.26km, 102.49 E ± 0.30km, h11 ± 0.12km
Sichuan Province (307)
M_L3.4 / 8,

CD2	1.3	120	−iPg	18 00 49.7		0.2		
			Sg	18 01 10.0		3.4		
			SMN		$M_L=3.3$		0.4	0.60
			SME				0.4	0.50

JUN 25d 19h 53m 39.1 ± 0.04s, SD1.21 / 134
3.42 S ± 0.56km, 131.02 E ± 0.82km, h33 ± 0.05km
Seram (272)
M_S5.1 / 33, m_B5.5 / 2, m_b5.2 / 40

QZN	30.5	318	eP	19 59 50.0		−2.0		
			eS	20 04 45.5		−4.9		
			SS	20 06 26.0		−5.1		
			LN		$M_S=5.0$		12.0	0.93
			LE				12.0	1.28
QZH	30.7	337	eP	19 59 53.0		−0.2		
			eS	20 04 49.0		−3.6		
			LZ		$M_S=4.8$		24.0	2.70
GZH	31.5	328	eP	20 00 01.0		0.5		
			eS	20 05 04.0		−1.5		
			LN		$M_S=5.1$		14.0	1.10
			LE				28.0	3.36
SSE	35.6	345	P	20 00 35.0		−0.9		
			pP	20 00 45.0		−0.1		
			sP	20 00 49.0		0.0		
			S	20 06 08.0		−0.2		
			SS	20 08 27.0		−1.8		
			LN		$M_S=5.1$		14.0	0.75
			LE				18.0	1.89
			LZ		$M_S=4.5$		20.0	0.92
NJ2	37.1	343	eP	20 00 48.0		−0.9		
			S	20 06 30.0		−1.9		
			LZ		$M_S=4.6$		22.0	1.01
WHN	37.3	336	eP	20 00 51.5		0.8		
			PMZ		$m_b=5.0$		0.7	0.020
			pP	20 00 57.5		−2.4		
			S	20 06 33.0		−2.2		
			LE		$M_S=4.9$		14.0	1.00
			LZ		$M_S=4.7$		20.0	1.25
GYA	37.9	323	P	20 00 56.0		0.4		
			pP	20 01 05.0		0.2		
			S	20 06 46.0		2.1		
			LN		$M_S=5.1$		16.0	1.50
			LE				16.0	0.80
			LZ		$M_S=4.9$		16.0	1.40
KMI	39.5	318	+P	20 01 09.0		0.1		
			PMZ		$m_b=5.3$		2.0	0.11
			pP	20 01 20.0		2.1		
			S	20 07 12.0		4.2		
			LN		$M_S=5.0$		13.0	0.80
			LE				13.0	0.70
			LZ		$M_S=5.0$		20.0	2.30
TIA	41.5	343	eP	20 01 24.4		−1.0		
			S	20 07 34.0		−3.9		
			LN		$M_S=5.0$		16.0	0.80
			LE				16.0	0.90

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XAN	42.7	333	eP	20 01 34.5	−0.6		
			S	20 07 54.5	−0.7		
			LN	$M_S=5.0$		16.0	1.15
CD2	42.9	325	eP	20 01 36.4	−0.5		
			S	20 07 57.0	−1.5		
			LZ	$M_S=5.1$		13.0	1.50
DL2	43.0	349	eP	20 01 38.3	0.7		
			PMZ	$m_b=5.5$		1.2	0.081
			S	20 08 00.0	0.2		
			LE	$M_S=5.2$		15.0	1.60
			LZ	$M_S=4.8$		24.0	1.38
TIY	44.4	339	−P	20 01 48.8	−0.3		
			S	20 08 19.0	−1.4		
			sS	20 08 40.0	3.2		
			LN	$M_S=5.1$		19.0	1.70
			LZ	$M_S=5.1$		20.0	2.40
			LZ	$M_S=4.8$		28.0	1.79
BJI	45.3	344	eP	20 01 56.0	−0.5		
			PMZ	$m_b=4.9$		1.0	0.018
			PP	20 03 39.0	−3.9		
			eS	20 08 32.0	−2.7		
			SS	20 11 46.0	−3.1		
			LZ	$M_S=4.8$		21.0	1.27
SNY	45.5	352	+P	20 01 57.4	−0.6		
			S	20 08 38.0	1.5		
			SME			16.0	1.98
			LZ	$M_S=5.0$		28.0	2.39
LZH	46.8	330	+P	20 02 08.5	0.4		
			PMZ	$m_b=5.5$		2.0	0.13
			PMZ	$m_B=5.4$		8.0	0.48
			pP	20 02 18.0	0.7		
			sP	20 02 21.0	−0.2		
			PP	20 03 58.5	1.1		
			S	20 08 56.0	1.6		
			sS	20 09 16.0	5.1		
			SS	20 12 20.0	6.0		
			LN	$M_S=5.1$		14.0	0.80
			LE			14.0	0.70
			LZ	$M_S=4.8$		25.0	1.50
CN2	47.3	355	eP	20 02 11.7	0.0		
			PMZ	$m_b=4.7$		1.0	0.010
			eS	20 09 00.0	−2.2		
			ScS	20 12 03.0	3.3		
			LN	$M_S=5.1$		13.0	0.90
			LE			13.0	0.60
			LZ	$M_S=5.0$		22.0	1.70
HHC	47.5	340	P	20 02 14.0	0.3		
			S	20 09 06.0	1.4		
			LN	$M_S=5.3$		21.0	1.18
			LE			20.0	2.10
MDJ	47.8	359	eP	20 02 16.2	0.1		
			pP	20 02 24.0	−1.5		
			S	20 09 09.0	−0.2		
			LN	$M_S=5.2$		10.0	0.87
BTO	47.8	338	eP	20 02 17.0	0.7		
			eS	20 09 10.0	−0.5		
			LN	$M_S=5.1$		14.0	0.70
			LE			14.0	0.70
LSA	50.4	314	P	20 02 37.5	1.1		
GTA	51.4	329	P	20 02 43.4	−0.2		
			S	20 10 00.0	1.4		
			LN	$M_S=4.9$		15.0	0.61
			LZ	$M_S=5.1$		24.0	2.05
WMQ	61.0	325	+iP	20 03 51.8	−0.6		
			S	20 12 09.0	3.0		
			LZ	$M_S=4.9$		28.0	1.35
KSH	66.2	316	P	20 04 27.2	0.9		
			eS	20 13 10.0	−1.7		

JUN 25d 22h 46m 28.5 ± 0.03s, SD0.77 / 31
4.47 N ± 0.28km, 127.44 E ± 0.51km, h138 ± 0.33km
Talaud Islands (263)
m_b5.3 / 5,

QZN	22.5	312	eP	22 51 18.0	1.1		
CD2	34.5	322	eP	22 53 05.0	−0.5		
BJI	36.8	346	eP	22 53 25.5	0.2		
LZH	38.2	328	eP	22 53 37.5	0.3		
			PMZ	$m_b=5.8$		0.2	0.036
GTA	42.8	328	P	22 54 15.3	0.3		
WMQ	52.5	324	P	22 55 30.4	0.2		

JUN 26d 00h 53m 55.0 ± 0.03s, SD1.05 / 124
3.40 S ± 0.71km, 100.77 E ± 0.77km, h58 ± 0.37km
Southern Sumatera (274)
M_S5.1 / 25, m_B5.7 / 2, m_b5.3 / 39

QZN	24.0	22	P	00 59 06.9	1.3		
			pP	00 59 15.0	−3.8		
			LN	$M_S=4.9$		13.5	1.30
			LE			13.0	1.36
GYA	30.2	11	P	01 00 02.8	0.0		
			S	01 05 01.0	5.5		
			LN	$M_S=5.0$		16.0	1.00
			LE			16.0	2.10
QZH	33.1	31	eP	01 00 25.0	−2.6		
			LZ	$M_S=4.7$		18.0	1.21
CD2	34.2	5	eP	01 00 36.5	−1.2		
			eS	01 06 02.0	2.9		
			LN	$M_S=5.1$		10.0	1.30
			LZ	$M_S=4.6$		16.0	0.98
WHN	36.2	20	eP	01 00 54.0	0.0		
			PMZ	$m_b=5.0$		1.0	0.024
			PMZ	$m_B=5.6$		5.0	0.50
			LN	$M_S=5.3$		14.0	2.31
			LE			14.0	1.00
			LZ	$M_S=4.8$		16.0	1.19
XAN	38.0	11	P	01 01 08.4	−1.3		
			PMZ	$m_b=5.9$		1.0	0.20
			LN	$M_S=5.1$		12.0	0.80
			LE			13.0	1.20
NJ2	39.2	25	+P	01 01 20.7	1.1		
			LZ	$M_S=4.8$		18.0	1.19
LZH	39.4	4	+iP	01 01 22.0	0.8		
			PMZ	$m_b=5.6$		2.0	0.18
			pP	01 01 35.0	0.1		
			eS	01 07 25.0	6.9		
			ScS	01 11 26.0	5.3		
			LN	$M_S=5.0$		14.0	1.10
			LZ	$M_S=5.0$		19.0	1.94
SSE	39.4	28	−P	01 01 21.0	−0.4		
			PMZ	$m_b=5.2$		1.0	0.039
			pP	01 01 31.0	−4.4		
			eS	01 07 23.0	4.4		
			sS	01 07 37.0	−5.8		
			LN	$M_S=5.1$		14.0	1.12
			LE			14.0	0.97
			LZ	$M_S=4.6$		20.0	0.92
TIA	42.3	20	eP	01 01 45.0	0.2		
TIY	42.3	14	+P	01 01 45.0	−0.2		
			PMZ	$m_b=5.4$		1.0	0.060
			S	01 08 07.0	6.7		
			sS	01 08 21.0	−4.4		
			LN	$M_S=5.0$		16.0	1.30
			LZ	$M_S=4.9$		16.0	1.43
GTA	42.6	359	+iP	01 01 48.0	0.3		
			PMZ	$m_b=5.3$		1.2	0.055
			LE	$M_S=4.9$		16.0	0.99

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			LZ		$M_S=4.7$		16.0	0.87
BTO	44.6	10	P	01 02 04.0		0.2		
			eS	01 08 38.5		3.8		
			LN		$M_S=5.3$		13.0	1.50
			LE				13.0	0.50
			LZ		$M_S=5.0$		13.0	1.30
HHC	45.1	12	+P	01 02 09.4		1.4		
			PMZ		$m_b=5.8$		1.2	0.16
			LZ		$M_S=5.3$		7.0	1.42
BJI	45.5	17	eP	01 02 11.5		0.8		
			PMZ		$m_b=5.6$		1.2	0.091
			LN		$M_S=5.2$		14.0	1.29
			LZ		$M_S=5.1$		16.0	2.00
DL2	46.3	23	+P	01 02 17.0		−0.1		
			PMZ		$m_b=5.6$		1.2	0.090
			PMZ		$m_B=5.7$		4.0	0.44
			eS	01 09 02.0		3.3		
			LN		$M_S=5.1$		13.0	0.78
			LE				12.0	0.40
			LZ		$M_S=4.9$		16.0	1.04
KSH	48.4	334	P	01 02 34.5		0.4		
			S	01 09 35.0		6.9		
			sS	01 09 48.0		−5.6		
WMQ	48.4	347	+iP	01 02 34.6		0.5		
			S	01 09 34.0		5.9		
			LZ		$M_S=4.3$		24.0	0.39
SNY	49.6	22	+P	01 02 41.5		−1.1		
			LZ		$M_S=4.8$		20.0	0.91
CN2	52.0	23	+P	01 03 00.0		−0.8		
			PMZ		$m_b=5.7$		1.0	0.10
			eS	01 10 21.0		3.0		
			LN		$M_S=5.2$		14.0	1.10
			LE				14.0	0.40
			LZ		$M_S=5.1$		14.0	1.30
MDJ	54.3	25	eP	01 03 18.0		−0.2		

JUN 26d 02h 36m 21.5 ± 0.05s, SD1.65 / 87
1.14 N ± 0.84km, 123.02 E ± 1.12km, h30 ± 0.04km
Minahassa Peninsula (Celebes) (265)
M_S4.7 / 13, m_b5.1 / 17,

QZN	22.0	325	eP	02 41 17.2		2.3		
			eS	02 45 14.5		3.6		
			LN		$M_S=4.7$		15.0	1.56
QZH	24.0	350	eP	02 41 36.0		0.8		
			eS	02 45 52.0		4.2		
			LZ		$M_S=4.7$		20.0	2.24
GYA	29.7	329	P	02 42 28.6		1.3		
			pP	02 42 37.0		1.1		
			sP	02 42 42.0		2.2		
			PP	02 43 28.8		5.2		
			S	02 47 23.0		3.8		
SSE	29.8	357	P	02 42 31.0		2.4		
			PMZ		$m_b=5.1$		1.5	0.049
			S	02 47 27.0		5.3		
			LN		$M_S=4.2$		14.0	0.30
			LZ		$M_S=4.2$		20.0	0.55
WHN	30.4	345	eP	02 42 34.0		0.7		
			pP	02 42 43.0		0.9		
			eS	02 47 33.0		2.1		
			LN		$M_S=4.8$		14.0	1.16
			LZ		$M_S=4.4$		18.0	0.73
KMI	30.9	322	eP	02 42 41.5		3.5		
NJ2	31.0	353	eP	02 42 37.4		−1.4		
			LZ		$M_S=4.1$		20.0	0.37
CD2	34.8	330	eP	02 43 11.0		−0.8		
			S	02 48 38.4		−0.4		
			sS	02 48 59.5		5.3		
XAN	35.3	340	P	02 43 16.0		−0.2		
			S	02 48 47.0		0.4		
			LE		$M_S=4.7$		14.0	0.69
DL2	37.6	358	eP	02 43 35.4		−0.2		
TIY	37.7	346	eP	02 43 34.5		−1.8		
			S	02 49 23.0		−0.3		
			LN		$M_S=4.7$		16.0	0.78
			LZ		$M_S=4.6$		20.0	1.00
LZH	39.1	335	eP	02 43 50.0		2.1		
			PMZ		$m_b=5.2$		2.5	0.090
			PP	02 45 21.5		0.1		
			S	02 49 47.0		2.8		
			SME				7.0	0.31
			sS	02 50 05.0		5.1		
			LE		$M_S=4.6$		12.0	0.38
			LZ		$M_S=4.5$		23.0	0.87
BJI	39.2	352	eP	02 43 49.0		0.0		
			PMZ		$m_b=5.1$		1.7	0.053
			eS	02 49 44.0		−3.5		
			LZ		$M_S=4.4$		20.0	0.60
SNY	40.5	1	eP	02 43 56.5		−3.3		
BTO	41.0	345	eP	02 44 07.0		2.9		
			eS	02 50 21.0		6.4		
			LN		$M_S=4.9$		15.0	0.80
			LE				15.0	0.60
CN2	42.5	3	eP	02 44 16.5		0.1		
			PMZ		$m_b=4.6$		1.0	0.010
			pP	02 44 24.0		−1.4		
			eS	02 50 36.0		−0.8		
			LZ		$M_S=4.3$		25.0	0.50
GTA	43.6	334	P	02 44 26.0		0.8		
			S	02 50 54.0		2.8		
			LE		$M_S=4.6$		14.0	0.35
			LZ		$M_S=4.4$		24.0	0.64
MDJ	43.7	7	eP	02 44 27.0		1.2		
WMQ	52.8	328	eP	02 45 37.5		0.5		
			S	02 53 04.0		2.9		
			LZ		$M_S=4.4$		24.0	0.46
KSH	57.4	318	eP	02 46 09.5		−0.6		
			S	02 54 06.0		3.9		

JUN 26d 07h 14m 19.8 ± 0.03s, SD1.04 / 154
4.56 N ± 0.62km, 95.20 E ± 0.52km, h61 ± 0.25km
Off west coast of Northern Sumatera (705)
M_S4.4 / 4, m_b5.1 / 57,

QZN	20.3	44	P	07 18 53.6		0.5		
			PP	07 19 14.5		0.4		
			eS	07 22 30.0		−2.0		
			sS	07 22 49.0		−2.3		
			SS	07 23 06.0		3.3		
			LN		$M_S=4.3$		14.0	0.67
KMI	21.7	19	+P	07 19 09.0		1.0		
			PMZ		$m_b=5.3$		1.0	0.14
			pP	07 19 22.5		1.4		
			eS	07 23 03.0		3.8		
			LZ		$M_S=4.3$		14.0	0.80
GYA	24.4	26	P	07 19 34.6		0.7		
			sP	07 19 53.0		−1.1		
			S	07 23 40.2		−5.0		
LSA	25.3	352	P	07 19 44.2		1.2		
GZH	25.4	42	P	07 19 44.2		0.5		
CD2	27.4	16	+iP	07 20 01.0		−1.2		
QZH	30.3	46	−P	07 20 28.0		0.4		
WHN	31.5	33	+eP	07 20 39.2		0.5		
			PMZ		$m_b=5.1$		1.0	0.030
LZH	32.4	13	+P	07 20 43.6		−2.7		
			PMZ		$m_b=5.0$		1.5	0.042
			pP	07 21 02.0		1.8		
			LZ		$M_S=4.2$		20.0	0.44

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GTA	34.9	6	+P	07 21 06.9	−1.5			
NJ2	35.2	36	+P	07 21 10.4	−0.1			
SSE	36.0	40	P	07 21 17.0	0.0			
			PMZ	m_b=4.9		1.0	0.023	
TIY	36.6	23	+P	07 21 21.8	−0.3			
			S	07 26 57.0	−1.3			
			LN	M_S=4.5		16.0	0.52	
			LZ	M_S=4.5		18.0	0.73	
TIA	37.4	30	P	07 21 28.6	−0.5			
BTO	38.3	18	eP	07 21 35.5	−1.0			
			eS	07 27 20.4	−5.2			
			LN	M_S=4.6		13.0	0.30	
			LE			13.0	0.30	
KSH	38.9	336	P	07 21 42.8	0.9			
			S	07 27 36.0	1.7			
HHC	39.0	20	P	07 21 43.2	0.7			
			PMZ	m_b=5.6		1.4	0.15	
WMQ	39.6	351	−iP	07 21 48.5	0.7			
			eS	07 27 47.0	0.8			
BJI	40.1	25	eP	07 21 52.5	1.3			
			PMZ	m_b=5.8		1.0	0.16	
DL2	41.8	31	P	07 22 05.2	0.1			
			PMZ	m_b=5.9		1.0	0.18	
SNY	44.9	30	+P	07 22 30.0	−0.8			
			PMZ	m_b=5.7		0.7	0.082	
CN2	47.3	30	+iP	07 22 49.0	−0.7			
			PMZ	m_b=5.8		0.8	0.10	
			epP	07 23 08.0	3.7			
			ScP	07 28 06.0	−0.2			
			eS	07 29 34.0	−3.5			
MDJ	50.0	32	+P	07 23 10.5	0.0			

JUN 26d 09h 18m 08.9±0.05s, SD2.13/28
43.83 N±0.74km, 87.07 E±0.55km, h31±0.09km
Northern Xinjiang Province (332)
M_L4.4/9, m_b4.7/4,

WMQ	0.5	92	+iPg	09 18 18.7	0.2			
			Sg	09 18 26.2	0.5			
			SMN	M_L=4.2		1.0	15.4	
GTA	10.5	110	eP	09 20 38.6	−2.2			
			SMN			1.0	0.075	
			SME			1.0	0.046	
LZH	15.0	115	+P	09 21 40.0	−0.7			
			PMZ	m_b=4.7		2.0	0.029	
TIY	20.1	99	eP	09 22 43.2	−0.1			
WHN	25.3	112	eP	09 23 38.5	3.7			

JUN 26d 12h 08m 29.3±0.04s, SD0.96/461
21.95 S±0.79km, 179.45 W±0.76km, h588±0.28km
South of Fiji (171)
m_B6.0/34, m_b6.0/83,

QZH	76.1	304	−iP	12 19 19.5	0.0			
			PMZ	m_b=6.1		1.1	0.96	
			pP	12 21 22.0	0.5			
			sP	12 22 17.0	−2.9			
			S	12 28 16.0	0.3			
SSE	77.6	311	−iP	12 19 27.0	−0.6			
			PMZ	m_b=5.6		1.2	0.29	
			PMZ	m_B=5.6		6.0	1.55	
			sP	12 22 28.0	−0.4			
			PP	12 22 33.0	−1.2			
			S	12 28 31.0	−0.5			
			ScS	12 28 49.0	−1.0			
GZH	79.3	300	−P	12 19 37.5	1.1			
			PMZ	m_b=6.0		1.0	0.71	
			PMZ	m_B=6.1		5.0	4.14	
			pP	12 21 38.0	−1.6			
			S	12 28 51.0	2.3			
NJ2	79.8	311	−iP	12 19 39.7	0.6			
			PMZ	m_b=5.8		1.1	0.45	
			pP	12 21 40.0	−2.5			
			PP	12 22 50.0	−1.5			
			S	12 28 55.0	1.2			
			SS	12 34 20.0	−3.7			
QZN	80.2	295	−P	12 19 42.1	0.6			
			PMZ	m_b=5.4		1.2	0.20	
			PMZ	m_B=5.6		6.0	1.68	
			pP	12 21 48.0	3.0			
			S	12 29 00.0	1.6			
MDJ	80.9	326	−iP	12 19 45.2	0.1			
			PMZ	m_B=6.1		5.0	3.61	
			pP	12 21 51.0	2.1			
			sP	12 22 42.0	−4.8			
			S	12 29 03.0	−2.5			
			SME			8.0	4.40	
			sS	12 32 44.0	−2.0			
			SS	12 34 35.0	−5.9			
DL2	81.9	318	−iP	12 19 49.0	−0.9			
			PMZ	m_b=6.2		1.8	1.76	
			PMZ	m_B=5.9		5.0	2.12	
			pP	12 21 54.0	0.1			
			sP	12 22 54.0	2.1			
			PP	12 23 07.0	−2.0			
			iS	12 29 10.0	−6.3			
			SMN			8.0	1.20	
			SME			8.0	1.62	
WHN	82.2	307	−iP	12 19 52.5	0.8			
			PMZ	m_b=5.9		1.5	0.66	
			PMZ	m_B=5.7		6.0	1.75	
			pP	12 21 56.0	0.2			
			SKS	12 29 12.0	−1.5			
SNY	82.5	321	−iP	12 19 52.0	−0.8			
			PMZ	m_b=5.7		1.2	0.33	
			PMZ	m_B=5.9		5.5	2.52	
			pP	12 21 57.0	−0.1			
			sP	12 22 55.0	0.0			
			SMN			7.0	1.44	
			SME			10.0	1.67	
			sS	12 33 00.0	−1.8			
CN2	82.6	323	−iP	12 19 53.0	−0.7			
			PMZ	m_b=6.0		1.0	0.50	
			PMZ	m_B=6.3		4.0	4.00	
			pP	12 21 57.0	−1.1			
			sP	12 22 56.0	0.2			
			S	12 29 19.0	−3.2			
			eSS	12 35 01.0	−4.9			
TIA	83.3	313	−P	12 19 56.8	−0.1			
			PMZ	m_B=6.0		5.5	2.80	
			pP	12 22 01.0	−0.4			
			SMN			9.0	0.80	
			SME			9.0	1.50	
BJI	86.0	316	eP	12 20 10.0	−0.1			
			PMZ	m_b=6.2		1.7	0.85	
			PMZ	m_B=6.2		5.0	2.40	
			epP	12 22 16.0	0.5			
			esP	12 23 12.0	−1.0			
			eSKS	12 29 36.0	−2.5			
			eS	12 29 58.0	2.4			
GYA	86.2	300	−P	12 20 11.6	0.3			
			PMZ	m_b=6.1		1.4	0.50	
			pP	12 22 16.0	−0.6			
			SKS	12 29 41.0	1.1			
TIY	87.2	313	−iP	12 20 16.0	−0.1			
			PMZ	m_b=6.4		1.4	0.94	
			PMZ	m_B=5.8		10.0	1.79	
			pP	12 22 24.0	2.2			

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			sP	12 23 19.0	−0.3		
			SKS	12 29 46.0	−0.6		
			S	12 30 05.0	−0.6		
			ScS	12 30 12.5	2.7		
XAN	87.9	308	−iP	12 20 19.0	−0.4		
			PMZ	$m_b = 6.2$		1.0	0.36
			PMZ	$m_B = 6.1$		6.0	2.11
			S	12 30 10.0	−1.9		
KMI	88.8	298	−iP	12 20 24.5	0.8		
			PMZ	$m_b = 6.4$		2.0	1.20
			pP	12 22 30.0	0.3		
			sP	12 23 32.0	5.0		
			SKS	12 29 57.0	0.9		
			S	12 30 20.0	0.3		
			LZ			22.0	1.70
HHC	89.4	315	−P	12 20 26.4	0.1		
			pP	12 22 35.0	2.4		
			PP	12 24 05.0	−4.6		
			SKS	12 30 00.0	0.4		
			S	12 30 30.0	5.0		
			SMN			8.0	1.63
			SME			8.0	1.25
BTO	90.3	314	−iP	12 20 30.0	−0.4		
			pP	12 22 39.0	2.1		
			sP	12 23 37.0	2.8		
			S	12 30 33.0	0.0		
CD2	90.4	303	eP	12 20 31.6	0.6		
			PMZ	$m_B = 6.2$		4.0	1.20
			pP	12 22 37.0	−0.6		
			sP	12 23 38.0	3.2		
			PP	12 24 15.0	−2.5		
			SKS	12 30 04.0	−1.6		
			S	12 30 40.0	5.9		
LZH	92.6	308	−iP	12 20 41.5	0.6		
			PMZ	$m_b = 6.3$		1.5	0.41
			PMZ	$m_B = 6.2$		5.0	1.09
			pP	12 22 46.0	−1.6		
			sP	12 23 42.0	−2.8		
			PP	12 24 30.0	−4.8		
			SKS	12 30 16.0	−1.5		
			eS	12 30 52.0	−2.7		
			SMN			7.0	1.33
GTA	96.8	310	−iP	12 20 59.8	−0.4		
			PMZ	$m_b = 6.0$		1.6	0.21
			SKS	12 30 37.4	−2.4		
			S	12 31 32.0	3.4		
			sS	12 35 21.0	4.0		
LSA	100.1	298	P	12 21 15.8	0.8		
			S	12 31 54.0	−1.5		
WMQ	106.8	311	Pdif	12 21 44.0	−0.7		
			PP	12 26 19.0	−2.9		
			SKS	12 31 27.0	0.3		
KSH	114.6	305	PKP	12 26 05.5	0.7		
			sPKP	12 29 10.0	−4.5		
			SKKS	12 33 12.0	2.9		

JUN 26d 17h 59m 59.3 ± 0.03s, SD1.07 / 162
22.03 S ± 1.10km, 138.87 W ± 1.30km, h5 ± km
Tuamotu Archipelago region (631)
m_b5.3 / 26,

BJI	115.0	305	ePKP	18 18 43.0	0.4		
TIY	117.6	302	ePKP	18 18 47.9	0.2		
GYA	120.6	288	PKP	18 18 54.8	1.1		
LZH	124.3	299	PKP	18 19 01.5	0.7		
GTA	127.5	303	+PKP	18 19 07.5	0.4		
WMQ	136.0	311	PKP	18 19 23.0	0.0		
KSH	145.7	308	PKP	18 19 42.2	2.0		

JUN 26d 21h 24m 37.3 ± 0.03s, SD1.36 / 15
4.14 S ± 0.39km, 135.96 E ± 0.95km, h32 ± 0.22km
West Irian region (196)
m_b5.0 / 3,

LZH	50.0	326	P	21 33 32.0	0.4		
			PMZ	$m_b = 5.0$		1.0	0.020
GTA	54.6	326	eP	21 34 05.2	−0.8		
WMQ	64.5	323	eP	21 35 12.9	−0.7		

JUN 26d 21h 54m 44.5 ± 0.05s, SD1.18 / 337
34.88 N ± 0.67km, 138.99 E ± 0.56km, h147 ± 0.55km
Near south coast of Honshu (230)
m_B5.6 / 12, m_b5.2 / 112,

MDJ	12.1	326	−P	21 57 35.0	1.6		
			sP	21 58 16.0	4.7		
			S	21 59 48.0	2.5		
			ScS	22 09 59.0	0.5		
			LN			14.0	1.38
			LZ			12.0	1.81
CN2	13.7	314	−P	21 57 54.0	−0.4		
			PMZ	$m_b = 5.5$		1.0	0.10
			PMZ	$m_B = 5.7$		4.0	0.60
			sP	21 58 36.0	2.7		
			S	22 00 24.0	0.5		
			ScP	22 06 23.0	−3.3		
			ScS	22 09 59.0	−3.1		
SNY	13.9	304	−iP	21 57 58.0	1.2		
			PMZ	$m_b = 5.1$		1.2	0.046
			PMZ	$m_B = 5.8$		6.0	1.13
			sP	21 58 40.0	4.2		
			S	22 00 34.0	6.1		
			SMN			13.0	1.39
DL2	14.5	291	−iP	21 58 06.0	2.5		
			PMZ	$m_b = 5.3$		1.8	0.13
			PMZ	$m_B = 6.1$		5.0	2.05
			SMN			8.0	1.31
			ScS	22 10 04.0	0.1		
			LN			10.0	0.86
			LE			12.0	0.88
			LZ			16.0	1.26
SSE	15.4	261	−iP	21 58 16.0	0.6		
			PMZ	$m_b = 5.3$		1.2	0.17
			sP	21 58 56.0	0.8		
			S	22 01 05.0	3.4		
			LN			7.0	1.35
			LE			6.0	0.79
			LZ			18.0	0.90
NJ2	17.0	266	−P	21 58 36.8	1.3		
			S	22 01 38.0	−0.2		
TIA	17.8	281	P	21 58 43.3	−1.7		
			PMZ	$m_B = 5.2$		8.0	0.90
			LN			13.0	0.50
			LE			13.5	0.70
BJI	18.8	293	eP	21 58 53.0	−2.5		
			PMZ	$m_b = 5.1$		1.5	0.13
			epP	21 59 14.0	−4.0		
			eS	22 02 16.0	−1.0		
			eScP	22 06 37.0	0.9		
			LN			11.0	0.34
			LZ			16.0	0.87
QZH	20.2	246	+P	21 59 08.0	−2.1		
			PMZ	$m_b = 5.2$		1.0	0.12
			eS	22 02 44.0	0.0		
WHN	21.2	265	+P	21 59 20.5	1.0		
			PMZ	$m_b = 5.1$		1.0	0.090
			PP	21 59 50.0	−0.4		
			S	22 03 02.0	1.4		
			SS	22 03 44.0	−2.1		

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		LN			12.0	0.87
		LE			12.0	0.25
TIY	21.6	285	+iP	21 59 21.7	−1.9	
			PP	21 59 52.0	−3.3	
			S	22 03 13.0	5.1	
			LE		13.0	0.63
			LZ		17.0	1.32
HHC	22.4	294	eP	21 59 29.0	−2.8	
			LN		12.0	0.45
			LE		12.0	0.78
			LZ		15.0	1.18
BTO	23.6	293	eP	21 59 43.0	0.1	
			eS	22 03 43.0	−0.2	
			LN		13.0	0.60
			LE		13.0	0.80
XAN	24.8	277	P	21 59 52.5	−1.9	
GZH	25.2	249	P	21 59 59.4	0.6	
			PMZ	$m_b = 5.4$	1.0	0.10
			eS	22 04 13.5	2.1	
LZH	28.6	283	−P	22 00 27.5	−1.7	
			PMZ	$m_b = 5.3$	2.0	0.12
			PMZ	$m_B = 5.0$	10.0	0.37
			pP	22 01 00.0	0.4	
			sP	22 01 17.5	0.5	
			PP	22 01 25.0	−1.9	
			ScP	22 07 03.0	0.8	
			eS	22 05 04.0	−1.5	
			sS	22 06 04.0	5.0	
			ScS	22 10 54.0	−0.4	
			LE		11.0	0.64
			LZ		14.0	0.92
GYA	28.9	262	−P	22 00 31.0	−1.6	
			PMZ	$m_b = 5.4$	1.2	0.10
			pP	22 01 02.0	−1.1	
			PcP	22 03 39.0	1.7	
			S	22 05 10.0	−0.5	
			ScP	22 07 06.0	2.6	
			PcS	22 07 20.0	1.4	
CD2	29.8	272	eP	22 00 38.0	−1.7	
			S	22 05 25.0	1.8	
			LN		10.0	1.10
QZN	30.3	246	P	22 00 44.8	0.7	
			PP	22 01 49.0	0.7	
			eS	22 05 29.5	−2.4	
GTA	31.4	290	−P	22 00 52.8	−1.4	
			S	22 05 47.0	−1.8	
			LN		10.0	0.44
KMI	32.7	263	−P	22 01 04.5	−1.1	
			PMZ	$m_b = 5.6$	1.8	0.20
			pP	22 01 39.0	2.4	
			PP	22 02 24.5	5.4	
			eS	22 06 08.0	−2.6	
			LZ		16.0	0.90
WMQ	40.1	299	−iP	22 02 08.2	0.5	
			ScP	22 07 45.0	1.9	
			S	22 08 04.0	2.1	
			SME		6.0	0.65
			ScS	22 11 56.0	0.4	
LSA	40.5	276	P	22 02 13.0	1.9	
			eS	22 08 09.0	−0.3	
			SME		4.0	0.31
KSH	49.6	295	P	22 03 24.0	1.0	
			eS	22 10 20.0	1.3	
			esS	22 11 12.0	−4.3	

JUN 27d 02h 00m 45.0 ± 0.04s, SD1.38 / 146
52.41 N ± 1.22km, 173.93 W ± 0.57km, h32 ± 0.09km
Andreanof Islands (7)

M_S5.4 / 20, m_b4.7 / 46,

CN2	40.3	283	P	02 08 26.0	4.7		
			LN	$M_S = 5.3$		17.0	2.20
			LE			17.0	1.80
SNY	42.6	281	eP	02 08 40.0	0.1		
			sP	02 08 56.0	2.9		
			PP	02 10 17.0	−4.5		
			S	02 15 00.0	0.6		
			SS	02 18 09.0	4.5		
			LN	$M_S = 5.0$		13.0	0.73
			LE			13.0	0.74
			LZ	$M_S = 5.1$		18.0	2.02
BJI	48.1	284	eP	02 09 25.5	1.5		
			PMZ	$m_b = 4.6$		1.0	0.0080
			eS	02 16 16.0	−3.7		
			LZ	$M_S = 6.0$		19.0	17.4
HHC	50.3	288	eP	02 09 42.0	0.9		
			eS	02 16 54.0	3.4		
			LN	$M_S = 5.3$		14.0	1.09
			LE			14.0	1.05
			LZ	$M_S = 4.9$		24.0	1.38
SSE	51.0	272	P	02 09 47.0	0.6		
			PMZ	$m_b = 4.7$		0.8	0.0080
			sP	02 10 01.0	1.4		
			eS	02 17 03.0	2.6		
			sS	02 17 20.0	4.2		
			LN	$M_S = 5.0$		14.0	0.75
			LZ	$M_S = 4.8$		20.0	0.92
BTO	51.3	289	P	02 09 50.0	0.9		
			sP	02 10 05.0	2.9		
			eS	02 17 09.0	3.8		
			LN	$M_S = 5.5$		16.0	2.00
			LE			16.0	1.50
NJ2	51.8	275	eP	02 09 54.0	1.8		
WHN	55.6	277	eP	02 10 20.5	0.3		
			pP	02 10 30.5	0.9		
XAN	56.4	284	P	02 10 26.5	0.2		
			S	02 18 15.5	3.3		
			LN	$M_S = 5.4$		14.0	0.68
			LE			15.0	1.23
GTA	57.9	294	eP	02 10 38.6	1.2		
			LE	$M_S = 5.4$		14.0	1.42
			LZ	$M_S = 5.3$		16.0	2.04
LZH	58.0	289	eP	02 10 37.5	0.0		
			PMZ	$m_b = 5.0$		2.5	0.053
			eS	02 18 36.5	2.2		
			esS	02 18 53.0	3.6		
			LN	$M_S = 5.6$		17.0	1.83
			LE			17.0	1.92
			LZ	$M_S = 5.2$		20.0	1.94
WMQ	61.3	305	eP	02 10 58.0	−2.2		
			PP	02 13 16.0	−0.5		
			eS	02 19 19.0	2.1		
			LN	$M_S = 5.4$		15.0	0.93
			LE			16.0	1.01
			LZ	$M_S = 5.2$		18.0	1.55
CD2	61.7	285	eP	02 11 04.0	1.1		
			eS	02 19 19.0	−3.1		
			LZ	$M_S = 5.0$		18.0	0.91
GYA	63.2	279	P	02 11 14.2	1.2		
			sP	02 11 28.4	2.2		
KMI	66.5	281	eP	02 11 36.0	1.4		
			sP	02 11 51.5	3.8		
			eS	02 20 22.0	−0.3		
			LZ	$M_S = 4.9$		20.0	0.80
QZN	66.8	271	eP	02 11 36.8	0.7		
			eS	02 20 27.0	1.8		
			LN	$M_S = 5.4$		17.0	1.29

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JUN 27d 03h 03m 41.4 ± 0.09s, SD3.76 / 7
40.53 N ± 0.82km, 122.40 E ± 0.71km, h9 ± 0.10km
North–Eastern China (658)
M_L3.2 / 7,

SNY	1.6	34	+iPg	03 04 10.1	1.0		
			Sg	03 04 28.2	−2.4		
			SMN	M_L = 3.3		0.4	0.45
			SME			0.6	0.25
DL2	1.7	200	Pg	03 04 11.8	−0.2		
			Sg	03 04 35.7	0.0		
			SMN	M_L = 3.1		0.5	0.15
			SME			0.5	0.26
CN2	4.0	34	ePg	03 04 54.8	3.2		
			Sg	03 05 46.4	0.6		
			SMN	M_L = 3.2		0.7	0.059
			SME			0.7	0.044

JUN 27d 05h 10m 12.9 ± 0.04s, SD1.36 / 126
21.69 S ± 0.83km, 176.44 W ± 0.82km, h189 ± 0.14km
South of Fiji (171)
m_b5.1 / 35,

NJ2	81.8	309	+P	05 22 12.0	−0.6		
			S	05 32 04.0	−3.0		
MDJ	82.3	324	eP	05 22 17.5	1.9		
QZN	82.7	294	eP	05 22 17.5	0.2		
SNY	84.1	319	+P	05 22 20.8	−3.5		
CN2	84.1	322	−P	05 22 23.6	−1.1		
			pP	05 23 12.0	1.7		
WHN	84.3	306	eP	05 22 25.5	−0.1		
			pP	05 23 13.5	2.2		
TIA	85.1	312	eP	05 22 28.4	−1.4		
BJI	87.8	315	eP	05 22 42.0	−0.3		
			PMZ	m_b = 5.2		1.8	0.057
			epP	05 23 30.5	2.2		
			eSKS	05 32 52.0	2.9		
			eS	05 33 04.0	−3.1		
			esS	05 34 28.0	0.2		
GYA	88.5	299	P	05 22 47.0	1.0		
XAN	90.0	307	P	05 22 52.5	−0.5		
LZH	94.6	307	eP	05 23 13.5	−1.0		
			PMZ	m_b = 5.1		2.0	0.029
			pP	05 24 03.5	3.0		

JUN 27d 13h 07m 11.9 ± 0.14s, SD3.07 / 8
36.54 N ± 0.22km, 93.78 E ± 0.55km, h11 ± 1.27km
Qinghai Province (325)
M_L4.0 / 7,

WMQ	8.6	329	eP	13 09 16.7	−3.2		
			SMN	M_L = 4.0		0.8	0.031
			SME			0.8	0.036

JUN 27d 22h 18m 52.4 ± 0.07s, SD1.31 / 123
14.87 S ± 0.99km, 167.25 E ± 1.16km, h130 ± 0.68km
Vanuatu (New Hebrides) (186)
m_b4.8 / 17,

WHN	68.0	312	eP	22 29 39.0	−1.4		
MDJ	68.4	332	eP	22 29 38.7	−4.0		
CN2	69.8	329	eP	22 29 50.0	−1.0		
GYA	71.8	305	P	22 30 03.0	−0.3		
BJI	72.4	321	eP	22 30 06.0	−0.6		
			PMZ	m_b = 4.6		1.3	0.013
TIY	73.3	317	eP	22 30 11.0	−1.5		
KMI	74.4	302	eP	22 30 19.0	0.4		
CD2	76.1	308	eP	22 30 28.0	−0.1		
LZH	78.4	312	+P	22 30 41.5	0.4		
			PMZ	m_b = 4.9		1.8	0.038
GTA	82.7	314	P	22 31 04.4	0.3		
WMQ	92.8	315	−iP	22 31 52.2	+0.1		

JUN 27d 23h 57m 17.1 ± 0.05s, SD2.15 / 16
41.51 N ± 0.47km, 120.93 E ± 0.42km, h18 ± 0.19km
North–Eastern China (658)
M_L3.7 / 16,

SNY	2.0	80	+Pn	23 57 54.6	4.0		
			Pg	23 57 58.4	5.8		
			SMN	M_L = 3.5		1.0	0.57
			SME			0.8	0.22
DL2	2.7	168	ePn	23 53 00.0	0.5		
			ePg	23 58 07.0	3.0		
			eSg	23 58 41.5	1.1		
			SMN	M_L = 3.4		1.0	0.12
			SME			1.0	0.29
BJI	3.9	249	ePn	23 58 15.0	−1.5		
			ePg	23 58 24.0	−1.9		
			SMN	M_L = 3.4		0.5	0.066
			SME			0.5	0.11
CN2	4.0	54	ePn	23 58 18.6	0.1		
			Sn	23 59 09.6	2.2		
			Sg	23 59 30.2	6.4		
			SMN	M_L = 3.9		1.0	0.25
			SME			1.0	0.24
TIY	7.6	243	ePg	23 59 35.0	4.0		
			SMN	M_L = 3.8		0.7	0.040
			SME			0.8	0.030

JUN 28d 12h 14m 09.9 ± 0.07s, SD1.53 / 98
56.17 N ± 1.21km, 164.57 E ± 0.67km, h29 ± 0.24km
Komandorsky Islands region (4)
M_S5.8 / 25, m_B5.3 / 2, m_b4.6 / 16

CN2	27.6	260	eP	12 19 58.0	0.6		
			eS	12 24 36.0	0.2		
			LN	M_S = 5.5		12.0	5.80
			LE			12.0	2.40
			LZ	M_S = 5.5		14.0	8.30
BJI	35.3	264	eP	12 21 09.0	4.4		
			esP	12 21 20.0	3.1		
			eS	12 26 42.0	6.0		
			LN	M_S = 5.7		14.0	7.74
			LZ	M_S = 5.8		16.0	12.2
HHC	37.3	269	eP	12 21 23.0	1.2		
			LN	M_S = 5.8		15.0	6.43
			LE			15.0	6.19
			LZ	M_S = 5.5		20.0	7.97
BTO	38.3	270	eP	12 21 32.0	1.5		
			eS	12 27 27.0	3.9		
			LN	M_S = 6.0		14.0	7.10
			LE			14.0	8.40
SSE	39.2	249	eP	12 21 37.0	−0.6		
			S	12 27 37.0	1.7		
			sS	12 27 53.0	2.4		
			ScS	12 31 42.0	0.3		
			LN	M_S = 5.4		13.0	2.24
			LE			12.0	1.70
			LZ	M_S = 5.2		20.0	3.22
NJ2	39.7	252	−P	12 21 41.0	−0.6		
			LN	M_S = 5.5		12.0	2.05
			LE			13.0	2.55
WHN	43.3	255	eP	12 22 13.0	1.8		
			pP	12 22 18.0	−2.0		
			eS	12 28 36.0	−0.5		
			LN	M_S = 5.9		18.0	8.31
			LE			12.0	2.24
			LZ	M_S = 5.4		20.0	4.39
GTA	44.8	276	P	12 22 23.5	−0.4		
			sP	12 22 41.0	4.8		

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			sS	12 29 15.0	1.3			
			LN	$M_S=5.8$		13.0	5.38	
			LZ	$M_S=5.7$		18.0	7.65	
LZH	45.0	270	eP	12 22 26.5	1.7			
			PMZ	$m_B=5.2$		3.5	0.14	
			PMZ	$m_B=5.3$		6.0	0.30	
			pP	12 22 36.5	3.1			
			sP	12 22 41.0	3.9			
			ePP	12 24 15.0	4.5			
			sS	12 29 21.0	5.8			
			LN	$M_S=6.0$		14.0	6.99	
			LE			14.0	7.02	
			LZ	$M_S=5.8$		15.0	9.38	
WMQ	48.4	289	eP	12 22 52.5	0.6			
			sS	12 30 11.0	6.7			
			LN	$M_S=6.3$		18.0	13.5	
			LE			10.0	9.90	
			LZ	$M_S=5.7$		18.0	6.68	
CD2	48.8	265	eP	12 22 56.4	1.2			
			S	12 30 01.0	6.2			
			LN	$M_S=5.8$		15.0	5.53	
			LZ	$M_S=5.5$		16.0	4.28	
KSH	57.6	294	eP	12 24 04.0	3.6			
			LE	$M_S=6.0$		13.0	5.60	

JUN 29d 02h 06m 04.3±0.03s, SD2.11/7
31.70 N±0.24km, 104.52 E±0.30km, h17±0.16km
Sichuan Province (307)
M_L3.6/5,

CD2	1.0	220	Pg	02 06 24.5	1.9			
			Sg	02 06 37.7	1.1			
			SMN	$M_L=3.3$		0.5	0.57	
			SME			0.4	0.84	
LZH	4.4	353	ePg	02 07 23.0	0.4			
			Sg	02 08 19.5	−3.2			
			SMN	$M_L=3.6$		1.0	0.073	
			SME			1.8	0.11	

JUN 29d 03h 28m 50.8±0.07s, SD2.73/13
36.08 N±0.66km, 100.30 E±0.58km, h15±0.26km
Qinghai Province (325)
M_S3.6/1, M_L3.3/7,

LZH	2.9	89	ePn	03 29 39.0	2.3			
			Pg	03 29 43.0	1.4			
			Sn	03 30 14.5	1.8			
			Sg	03 30 21.0	0.1			
			SMN	$M_L=4.0$		1.5	0.60	
			SME			1.2	0.83	
GTA	3.3	354	Pn	03 29 45.0	1.7			
			Pg	03 29 50.4	0.4			
			Sn	03 30 26.2	1.7			
			Sg	03 30 38.0	2.2			
			SMN	$M_L=3.0$		0.8	0.027	
			SME			0.6	0.061	
CD2	5.9	150	ePn	03 30 16.0	−2.4			
XAN	7.4	104	Pn	03 30 37.0	−1.3			
TIY	9.9	77	+P	03 31 17.0	1.6			
			S	03 33 05.5	−1.1			
			LN	$M_S=3.6$		9.0	0.23	

JUN 29d 03h 53m 28.4±0.05s, SD1.05/315
21.55 S±0.70km, 179.32 W±0.79km, h616±0.48km
South of Fiji (171)
m_B5.4/6, m_b5.7/76,

QZH	76.0	304	−P	04 04 15.5	−0.1			
			PMZ	$m_b=5.7$		0.7	0.25	
SSE	77.4	311	+iP	04 04 22.5	−0.9			
			PMZ	$m_b=5.3$		1.0	0.14	
			eS	04 13 24.0	−2.3			
			ScS	04 13 42.0	−1.5			
GZH	79.2	300	−P	04 04 34.0	1.3			
NJ2	79.6	310	−P	04 04 35.0	0.0			
			PMZ	$m_b=5.6$		1.0	0.22	
QZN	80.2	295	P	04 04 38.3	0.4			
MDJ	80.7	326	−P	04 04 40.3	−0.2			
			PMZ	$m_b=5.5$		1.2	0.24	
			pP	04 06 47.0	−1.7			
			sP	04 07 47.0	−2.1			
			S	04 14 00.0	2.2			
			SME			8.0	0.80	
DL2	81.6	317	−iP	04 04 45.0	−0.5			
			PMZ	$m_b=5.6$		1.0	0.21	
			PMZ	$m_B=5.4$		4.0	0.52	
			S	04 14 05.0	−2.4			
WHN	82.1	307	−iP	04 04 48.3	0.7			
			PMZ	$m_b=5.2$		1.0	0.080	
			pP	04 07 02.0	5.6			
			S	04 14 12.0	0.4			
SNY	82.2	321	−iP	04 04 47.4	−1.0			
			PMZ	$m_b=5.5$		0.8	0.13	
			pP	04 06 52.0	−5.1			
			S	04 14 08.0	−5.0			
CN2	82.4	323	−iP	04 04 48.6	−0.6			
			PMZ	$m_b=5.9$		1.0	0.40	
			PMZ	$m_B=5.7$		4.0	1.00	
			pP	04 06 59.0	1.0			
			sP	04 07 59.0	0.7			
			S	04 14 12.0	−2.6			
TIA	83.1	313	−P	04 04 52.2	−0.4			
BJI	85.8	316	eP	04 05 05.5	−0.2			
			PMZ	$m_b=5.8$		1.5	0.31	
			PMZ	$m_B=5.5$		4.0	0.40	
			epP	04 07 14.0	−1.8			
			eSKS	04 14 31.5	0.0			
			eS	04 14 48.0	−0.5			
GYA	86.1	300	−P	04 05 08.0	0.5			
			PMZ	$m_b=5.5$		1.0	0.10	
			pP	04 07 21.6	4.2			
			PP	04 08 39.6	−0.4			
			SKS	04 14 36.0	2.3			
TIY	87.1	312	−iP	04 05 12.0	0.1			
			PMZ	$m_b=5.8$		1.2	0.21	
			pP	04 07 20.0	−2.2			
			SKS	04 14 39.5	−0.3			
			S	04 15 05.0	6.3			
XAN	87.8	308	−iP	04 05 15.0	−0.3			
KMI	88.7	298	−P	04 05 21.0	1.1			
HHC	89.2	315	P	04 05 21.6	−0.4			
			PMZ	$m_b=6.0$		1.0	0.25	
BTO	90.1	314	P	04 05 26.0	−0.2			
			epP	04 07 35.0	−2.4			
			SKS	04 14 57.0	−1.1			
			S	04 15 27.0	1.1			
LZH	92.4	308	−iP	04 05 37.5	0.7			
			PMZ	$m_b=6.0$		1.2	0.17	
			pP	04 07 50.0	1.8			
			sP	04 08 50.0	2.2			
			PP	04 09 30.0	−1.1			
			SKS	04 15 10.0	−1.0			
			S	04 15 48.0	2.0			
			SMN			5.0	0.45	
			SME			6.0	0.67	
GTA	96.7	310	−iP	04 05 55.6	−0.4			
			PMZ	$m_b=5.3$		1.2	0.030	
			SKS	04 15 33.5	0.3			
			SKKS	04 16 01.8	−4.6			

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			S	04 16 28.0	6.1		
WMQ	106.7	311	ePdif	04 06 40.5	−0.1		

JUN 29d 06h 06m 26.7 ± 0.04s, SD1.23 / 13
24.00 N ± 0.41km, 122.79 E ± 0.49km, h33 ± 0.15km
Taiwan region (243)
M_L3.6 / 5, m_b4.2 / 2,

QZH	3.9	285	ePn	06 07 25.0	−0.4		
			eSn	06 08 08.5	−3.6		
			SMN	M_L = 3.6		1.0	0.19
			SME			0.7	0.075
SSE	7.2	349	P	06 08 11.6	−1.0		
			SME	M_L = 3.2		1.0	0.0090

JUN 29d 06h 31m 25.0 ± 0.09s, SD1.44 / 164
28.55 S ± 0.67km, 68.90 W ± 1.22km, h118 ± 0.70km
Chile–Argentina border region (127)
m_b5.2 / 30,

KSH	149.0	60	ePKP	06 50 59.0	2.8		
WMQ	155.9	45	ePKP	06 51 08.0	2.1		
			PKP2	06 51 36.0	1.6		
GTA	165.7	38	+iPKP	06 51 18.8	2.0		
			PKP2	06 52 17.5	0.5		
BJI	167.8	341	ePKP	06 51 20.0	2.0		
LZH	170.3	37	+PKP	06 51 22.0	2.2		
QZN	170.5	173	ePKP	06 51 22.4	2.7		
TIY	170.8	353	ePKP	06 51 21.0	1.0		
TIA	170.8	328	+PKP	06 51 21.4	1.5		
XAN	174.2	18	PKP	06 51 22.5	−0.7		
WHN	176.5	306	ePKP	06 51 24.0	1.9		

JUN 29d 23h 25m 34.1 ± 0.04s, SD1.33 / 102
15.78 N ± 0.83km, 147.84 E ± 0.87km, h30 ± 0.17km
Marianas region (215)
M_S4.6 / 9, m_B5.6 / 1, m_b5.0 / 33

SSE	28.7	307	P	23 31 29.5	−1.7		
			PMZ	m_b = 4.6		0.8	0.010
			pP	23 31 38.0	−1.8		
			sP	23 31 45.0	1.4		
			eS	23 36 18.0	0.9		
			sS	23 36 33.0	1.4		
			LE	M_S = 4.5		16.0	0.72
			LE	M_S = 4.2		20.0	0.46
MDJ	32.6	335	eP	23 32 05.7	−0.1		
SNY	33.3	326	eP	23 32 10.0	−1.9		
			eS	23 37 28.0	−1.8		
			LZ	M_S = 4.3		26.0	0.74
CN2	33.8	330	eP	23 32 15.5	−0.5		
			epP	23 32 24.0	−0.8		
			eS	23 37 38.0	0.8		
			LZ	M_S = 4.3		20.0	0.60
WHN	34.0	302	eP	23 32 17.0	−0.4		
QZN	36.4	281	eP	23 32 38.2	0.4		
BJI	36.7	318	eP	23 32 39.5	−0.8		
			PMZ	m_b = 5.3		2.0	0.11
			LZ	M_S = 4.1		24.0	0.38
TIY	38.1	312	+P	23 32 53.0	0.5		
			S	23 38 40.0	−2.3		
XAN	39.4	305	P	23 33 02.3	−1.1		
GYA	39.7	292	P	23 33 07.2	1.3		
BTO	41.0	315	eP	23 33 17.0	0.0		
CD2	42.9	299	eP	23 33 30.8	−1.4		
KMI	43.1	290	+P	23 33 36.0	2.0		
			PMZ	m_b = 5.5		2.0	0.14
			pP	23 33 46.0	3.4		
			LZ	M_S = 4.6		20.0	0.80
LZH	44.0	306	−iP	23 33 41.5	0.4		
			PMZ	m_b = 5.6		1.8	0.17
			PMZ	m_B = 5.6		6.0	0.57
			pP	23 33 46.0	−3.9		
			sP	23 33 55.0	1.4		
			ePP	23 35 24.0	−1.0		
			eS	23 40 12.0	0.9		
			esS	23 40 28.0	2.6		
			LE	M_S = 4.6		15.0	0.43
			LZ	M_S = 4.6		17.0	0.66
GTA	48.0	309	P	23 34 12.5	−0.1		
			PMZ	m_b = 5.1		1.0	0.027
			LE	M_S = 4.8		17.0	0.58
			LZ	M_S = 4.6		20.0	0.60
LSA	53.6	295	P	23 34 57.0	1.2		
WMQ	57.8	312	eP	23 35 25.0	−0.4		
			S	23 43 18.5	−1.2		
			LZ	M_S = 4.3		22.0	0.30
KSH	66.3	307	eP	23 36 25.0	2.6		

JUN 30d 03h 28m 54.4 ± 0.05s, SD2.70 / 13
34.92 N ± 0.48km, 115.68 E ± 0.47km, h29 ± 0.19km
Eastern China (664)
M_L3.3 / 13,

TIA	1.7	42	Pg	03 29 24.0	−1.7		
			Sg	03 29 47.4	−2.4		
			SMN	M_L = 3.1		0.3	0.25
			SME			0.3	0.18
			LN			18.0	2.22
			LZ			20.0	1.48
NJ2	3.9	136	ePg	03 30 02.8	−0.7		
			Sg	03 30 50.9	−6.0		
			SMN	M_L = 3.6		0.4	0.16
			SME			0.4	0.14
WHN	4.5	195	ePg	03 30 13.5	−0.6		
			Sg	03 31 09.0	−6.7		
			SMN	M_L = 3.6		0.5	0.080
			SME			0.5	0.10
SSE	6.0	128	ePg	03 30 41.7	1.3		
			SMN	M_L = 3.0		0.8	0.011
			SME			0.8	0.0090

JUN 30d 07h 44m 56.6 ± 0.05s, SD1.60 / 42
24.31 N ± 0.70km, 123.39 E ± 0.71km, h33 ± 0.22km
Taiwan region (243)
M_S4.1 / 1, M_L4.1 / 12, m_b4.5 / 8

QZH	4.4	279	Pn	07 46 01.4	−0.3		
			SMN	M_L = 4.1		1.0	0.51
			SME			0.9	0.18
SSE	7.0	344	P	07 46 41.0	1.1		
			PMZ	m_b = 5.0		0.8	0.064
			pP	07 46 47.5	1.0		
			SMN	M_L = 3.7		1.0	0.021
			SME			1.0	0.045
			LE	M_S = 4.1		6.0	0.79
NJ2	8.7	334	+P	07 47 02.0	−0.9		
WHN	10.1	310	eP	07 47 22.5	−0.7		
			pP	07 47 29.7	−0.4		
			SMN			1.0	0.040
QZN	13.6	250	eP	07 48 10.9	0.6		
DL2	14.6	355	eP	07 48 23.0	−0.1		
GYA	15.3	282	P	07 48 32.0	0.3		
XAN	15.9	311	P	07 48 40.5	0.6		
CD2	18.6	295	eP	07 49 11.5	−1.9		
LZH	20.5	309	eP	07 49 33.5	−1.6		
			sP	07 49 49.0	1.3		
GTA	25.0	313	eP	07 50 18.8	−0.1		

JUN 30d 14h 51m 06.3 ± 0.16s, SD1.69 / 181
9.80 N ± 0.99km, 84.41 W ± 0.88km, h3 ± 0.81km

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Costa Rica (78)
M_S5.8 / 1, m_b5.1 / 49,

WMQ	126.2	7	ePKP	15 10 15.5	3.9		
TIY	130.2	342	ePKP	15 10 24.0	4.6		
			LE	M_S=5.8		20.0	0.98
			LZ	M_S=5.4		25.0	0.97
GTA	130.9	356	ePKP	15 10 23.5	2.7		
			LZ	M_S=5.6		22.0	1.24

JUN 30d 18h 49m 17.3±0.04s, SD1.05 / 185
44.37 N±1.20km, 149.25 E±0.77km, h9±0.17km
Kurile Islands region (222)
M_S5.0 / 31, m_B5.3 / 5, m_b5.1 / 73

MDJ	14.0	278	eP	18 52 39.5	0.6		
			PMZ	m_b=5.0		1.0	0.034
			sP	18 52 42.0	−4.7		
			S	18 55 16.0	0.6		
			SS	18 55 35.0	3.6		
			LE	M_S=4.9		16.0	4.88
CN2	17.1	276	+P	18 53 18.0	−0.5		
			PMZ	m_b=4.9		1.0	0.060
			pP	18 53 23.0	0.2		
			eS	18 56 27.0	−0.7		
			LN	M_S=4.9		13.0	2.20
			LE			13.0	1.90
			LZ	M_S=4.9		16.0	5.30
SNY	18.9	271	+iP	18 53 39.5	−1.2		
			PMZ	m_b=4.8		1.0	0.048
			sP	18 53 48.2	−0.4		
			S	18 57 02.0	−5.8		
			LN	M_S=4.9		12.5	1.47
			LE			14.0	2.54
			LZ	M_S=4.8		20.0	4.42
DL2	21.3	265	+P	18 54 07.0	0.2		
			PMZ	m_b=4.9		1.0	0.050
			eS	18 58 00.0	1.2		
			LN	M_S=4.7		13.0	1.17
			LE			15.0	1.07
			LZ	M_S=4.5		20.0	1.81
BJI	24.8	272	eP	18 54 41.5	0.5		
			PMZ	m_b=4.8		1.1	0.035
			PMZ	m_B=5.3		4.0	0.40
			eS	18 59 04.0	3.1		
			LE	M_S=4.8		14.0	1.49
			LZ	M_S=5.0		20.0	4.49
TIA	25.7	263	P	18 54 49.9	0.1		
			LE	M_S=4.9		18.0	2.22
			LZ	M_S=4.5		20.0	1.48
SSE	25.7	249	P	18 54 50.0	0.2		
			eS	18 59 17.0	0.7		
			sS	18 59 24.0	−0.9		
			LE	M_S=5.0		18.0	3.16
			LZ	M_S=4.8		20.0	2.76
NJ2	26.7	253	+P	18 55 02.8	3.7		
			LN	M_S=5.2		15.0	2.18
			LE			13.0	2.76
			LZ	M_S=4.9		17.0	2.96
HHC	27.8	276	eP	18 55 09.8	0.6		
			pP	18 55 13.0	−1.3		
			S	18 59 52.0	2.2		
			LN	M_S=5.1		14.0	1.30
			LE			14.5	2.32
			LZ	M_S=5.2		16.0	4.63
TIY	28.4	269	eP	18 55 14.7	0.3		
			S	19 00 05.0	5.9		
			LN	M_S=4.7		15.0	1.10
			LZ	M_S=4.7		21.0	2.04
BTO	29.0	276	eP	18 55 21.0	1.1		
			sP	18 55 28.0	0.1		
			eS	19 00 14.0	4.0		
			LN	M_S=5.2		13.0	2.20
			LE			15.0	2.20
WHN	30.7	255	eP	18 55 35.0	−0.1		
			LN	M_S=5.2		16.0	1.95
			LE			16.0	2.34
			LZ	M_S=4.9		18.0	2.43
XAN	32.6	266	P	18 55 50.5	−1.5		
LZH	35.3	272	+iP	18 56 15.5	0.6		
			PMZ	m_b=5.5		1.5	0.13
			PMZ	m_B=5.2		8.0	0.36
			pP	18 56 19.0	−1.0		
			sP	18 56 22.0	−0.8		
			eS	19 01 49.0	0.7		
			sS	19 01 56.0	−0.7		
			LN	M_S=5.1		15.0	1.56
			LE			15.0	1.20
			LZ	M_S=5.0		20.0	2.43
GTA	36.7	280	+P	18 56 27.2	0.3		
			PMZ	m_b=5.1		1.2	0.038
			S	19 02 08.0	−1.0		
			LN	M_S=5.0		12.0	1.03
			LZ	M_S=5.1		16.0	2.74
CD2	38.0	265	P	18 56 37.8	0.1		
			PMZ	m_b=5.4		0.8	0.060
			eS	19 02 30.0	0.3		
			LZ	M_S=4.7		15.0	0.80
GYA	38.5	257	P	18 56 42.4	−0.1		
QZN	41.4	245	eP	18 57 04.0	−2.1		
			eS	19 03 18.0	−3.1		
			LN	M_S=5.3		18.0	1.78
			LE			18.0	1.86
KMI	42.1	259	+P	18 57 12.5	0.4		
			PMZ	m_b=5.2		1.5	0.070
			sP	18 57 20.5	0.6		
			S	19 03 34.0	3.5		
			LZ	M_S=5.3		16.0	3.50
WMQ	43.3	292	+iP	18 57 22.1	0.6		
			eS	19 03 46.0	−2.8		
			LN	M_S=5.4		15.0	1.98
			LE			16.0	2.23
			LZ	M_S=5.3		18.0	3.80
KSH	53.1	292	P	18 58 39.0	1.1		
			S	19 06 08.0	2.5		
			LE	M_S=5.5		14.0	2.20

JUN 30d 20h 51m 44.6±0.03s, SD0.99 / 131
44.29 N±1.18km, 149.25 E±0.59km, h46±0.55km
Kurile Islands region (222)
M_S4.5 / 3, m_b4.9 / 35,

MDJ	14.0	278	eP	20 55 03.0	0.0		
CN2	17.1	277	eP	20 55 43.0	0.8		
			PMZ	m_b=4.6		1.0	0.030
			pP	20 55 52.0	0.7		
			eS	20 58 51.0	1.9		
			LZ	M_S=4.1		16.0	0.70
SNY	18.9	271	eP	20 56 03.0	−1.1		
			PMZ	m_b=4.4		1.2	0.025
			pP	20 56 12.8	−0.7		
			LZ	M_S=4.1		20.0	0.85
DL2	21.3	265	eP	20 56 28.8	−0.8		
BJI	24.8	272	eP	20 57 03.5	−0.3		
			PMZ	m_b=4.8		1.5	0.055
			LZ	M_S=4.1		20.0	0.60
TIA	25.7	263	P	20 57 12.4	0.0		
NJ2	26.7	253	eP	20 57 25.0	3.4		
HHC	27.8	276	eP	20 57 32.0	0.0		

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TIY	28.4	269	eP	20 57 37.3	0.2		
			eS	21 02 17.5	−1.6		
			LZ	$M_S=4.1$		24.0	0.54
BTO	29.0	277	eP	20 57 43.0	0.4		
			eS	21 02 29.5	0.5		
			LN	$M_S=4.4$		14.0	0.40
			LE			14.0	0.30
WHN	30.7	255	eP	20 57 57.5	0.0		
XAN	32.6	266	P	20 58 13.0	−1.5		
LZH	35.3	273	+iP	20 58 38.0	0.5		
			PMZ	$m_b=5.3$		1.5	0.074
			pP	20 58 50.5	1.6		
			LZ	$M_S=4.2$		20.0	0.44
GTA	36.7	280	+P	20 58 50.0	0.5		
			PMZ	$m_b=4.8$		1.0	0.017
CD2	38.0	265	P	20 59 00.0	−0.1		
GYA	38.5	257	P	20 59 04.6	−0.2		
WMQ	43.3	292	+iP	20 59 44.5	0.3		

JUN 30d 23h 49m 29.1 ± 0.03s, SD1.12 / 73
1.35 N ± 0.48km, 122.96 E ± 0.72km, h32 ± 0.03km
Minahassa Peninsula (Celebes) (265)
M_S4.8 / 10, m_b4.9 / 18,

GZH	23.5	337	P	23 54 38.0	0.5		
			S	23 58 52.0	6.6		
			LN	$M_S=4.8$		16.0	1.73
QZH	23.8	350	eP	23 54 41.5	1.1		
			S	23 58 54.0	3.5		
			LZ	$M_S=4.5$		17.0	1.44
WHN	30.2	345	eP	23 55 40.5	1.8		
			pP	23 55 50.5	2.7		
			S	24 00 38.0	4.2		
			LN	$M_S=5.1$		18.0	3.03
			LZ	$M_S=4.6$		20.0	1.25
KMI	30.7	322	eP	23 55 44.5	1.0		
			PMZ	$m_b=5.0$		2.0	0.060
			sP	23 55 57.0	0.8		
			S	24 00 44.0	2.3		
			LN	$M_S=4.3$		13.0	0.30
			LZ	$M_S=4.5$		12.0	0.60
CD2	34.6	330	eP	23 56 16.4	−0.9		
XAN	35.1	339	P	23 56 20.0	−1.6		
DL2	37.4	358	eP	23 56 40.2	−0.9		
			PMZ	$m_b=5.3$		1.2	0.067
TIY	37.5	346	eP	23 56 42.3	0.5		
			S	24 02 31.5	4.4		
			LN	$M_S=5.1$		19.0	2.13
LZH	38.8	335	+P	23 56 55.5	2.1		
			PMZ	$m_b=4.8$		1.5	0.025
			pP	23 57 04.0	1.5		
			sP	23 57 06.0	−0.4		
			PP	23 58 25.0	−1.3		
			eS	24 02 50.0	0.6		
			sS	24 03 05.0	0.7		
			LN	$M_S=4.9$		14.0	0.66
			LE			14.0	0.72
			LZ	$M_S=4.7$		18.0	0.97
BJI	39.0	352	eP	23 56 54.0	−0.5		
			PMZ	$m_b=4.7$		1.0	0.012
SNY	40.3	1	eP	23 57 03.8	−1.5		
GTA	43.4	334	P	23 57 31.3	0.6		
			LN	$M_S=4.8$		13.0	0.59
			LZ	$M_S=4.7$		18.0	0.94
MDJ	43.5	7	eP	23 57 30.5	−1.0		
WMQ	52.6	328	eP	23 58 41.5	−1.2		