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中国地震台网观测报告

BULLETIN OF SEISMOLOGICAL
OBSERVATIONS OF CHINESE STATIONS

1988

（7—12月）

国家地震局地球物理研究所编
地震出版社出版

International Seismological Centre

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前　言

1.“中国地震台网观测报告”是我国地震台网对发生在全世界、特别是发生在中国和邻近地区的地震观测数据的汇编。自 1979 年起,本报告采用协调世界时(UTC)。为方便中国读者在目录部分也给出北京时。采用汉语拼音拼写中国地名和人名,外国地名和人名沿用英文。

2.本报告列出的震源参数是用 VAX／780 计算机进行计算修定的。使用的走时表是 J-B 表[1]。使用的震相数据除报告中列出的 24 个一类台以外,还有许多国内台和部分国外台的数据。到时残差、总体标准误差和震源参数的标准误差都分别列出。震中位置,除给出经纬度外,还按 Flinn、Engdahl 和 Hill[2,3]划定的地震分区给出了大致的地理位置。应该强调指出,所有地震的地理区域名称仅作位置的参考,不包含任何政治意义。

3.面波震级 Ms 的测定,从 1966 到 1982 年的地震报告都采用北京台 1965 年的面波震级公式:

$$Ms = \log(A / T) + \sigma_{PEK}(\triangle)$$

$$\sigma_{PEK}(\triangle) = 1.66\log(\triangle) + 3.5 \qquad (1^\circ < \triangle < 130^\circ)$$

$\sigma_{PEK}(\triangle)$比 1967 年 IASPEI(国际地震学与地球内部物理学联合会)推荐的,现已被国际上广泛采用的量规函数

$$\sigma_{IASPEI}(\triangle) = 1.66\log(\triangle) + 3.3 \qquad (20^\circ < \triangle < 160^\circ)$$

在$\triangle = 20^\circ$—130°的范围内偏高 0.2 级。世界上两个最有权威的地震机构:国际地震中心(ISC,它使用全球台网资料)和美国地震情报中心(NEIC,它使用世界标准台网资料)都采用 $\sigma_{IASPEI}(\triangle)$测定面波震级 Ms,故此我国测定的 Ms 比国际上系统地偏高 0.2 级。此外,量规函数 $\sigma_{PEK}(\triangle)$ 代表的面波衰减 $\triangle^{-1.66}$ 在近距离处($\triangle = 1^\circ$—20°)过大,使得近距离测得的 Ms 偏小,尽管如此,为使资料连续,仍给出用它测定的震级。

4.体波震级 m_B 和 m_b 采用古登堡—李克特公式测定:

$$m_B \text{ 或 } m_b = \log(A / T) + Q(\triangle, h)$$

m_B 是用宽频带中周期 SK 仪或长周期 763 仪测定,m_b 是用短周期地震仪测定。

5.为便于使用和对比,报告中还给出了 NEIC 测定的面波震级 Msz 和短周期地震仪测定的体波震级 m_b。

6.为避免混乱,各种震级之间一律不换算。

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[1] Jeffreys, H. and Bullen, K. E.,1940. Seismological tables, British Association, London (Reprinted, with additions, 1967).

[2] Flinn, E. A. and Engdahl, E. R.,1965. A proposed basis for geographical and seismic regionalization, Rev. Geophys., 3, 123–149.

[3] Flinn, E. A. Engdahl, E. R. and Hill, A. R., 1974. Seismic and geographical regionalization, Bull. Seism. Soc. Am., 64, 771–992.

[4] Willmore, P. L., 1979. Manual of seimological observatory practice, World Data Center A for Solid Earth Geophysics, Report SE–20.

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Preface

1. The " Bulletin of Seismological Observations of Chinese Stations" is a summary of the observed data of earthquakes occurring all over the globe, especially those in China and its surrounding regions. Beginning from 1979, observational time and origin time are given in UTC. The names of Chinses places and persons are spelt with Chines phonetic alphabets while foreign names are all given in English.

2. All focal parameters are processed with a VAX / 780 computer. Jeffreys–Bullen travel time tables are used in this Bulletin[1]. In addition to the data listed in this Bulletin the observational data used include that of many other stations inside and outside China for computer revision of earthquake parameters. Arrival time residuals, gross standard deviations and standard errors of focal parameters are all listed. The location of every earthquake is expressed by its latitude and longitude, at the same time, is given by the corresponding geographical region proposed by Flinn, Engdahl and Hill[2.3]. It should be noted that the names used to classify seismic and geographic regions are only references to their locations and does not imply any political significance.

3. The surface wave magnitude Ms given in the Bulletin of Seismological Observations of Chinese Stations from 1966 to 1982 have all adopted the calibration function of the Beijing Station (BJI).

$$Ms = \log(A / T) + \sigma_{PEK}(\triangle)$$

$$\sigma_{PEK}(\triangle) = 1.66\log(\triangle) + 3.5 \qquad (1^\circ < \triangle < 130^\circ)$$

This calibration function in the range $\triangle = 20^\circ - 130^\circ$ is larger by 0.2 than $\sigma_{IASPEI}(\triangle)$ recommended by IASPEI in 1967 which has already been adopted by many nations and seismological institutions in the world.

$$\sigma_{IASPEI}(\triangle) = 1.66\log(\triangle) + 3.3 \qquad (20^\circ < \triangle < 160^\circ)$$

Both the most authoritative seismological institution in the world: ISC and NEIC have been adopting the $\sigma_{IASPEI}(\triangle)$ to determine magnitade Ms. Therefore, the magnitude Ms calculated by $\sigma_{PEK}(\triangle)$ is systematically 0.2 units larger than that determined by ISC and NEIC which possess the largest aperture seismic network. The rate of attenuation of surface wave amplitude $\triangle^{-1.66}$ in the range $\triangle = 1^\circ - 20^\circ$ characterized by $\sigma_{PEK}(\triangle)$ is so large that the Ms measured for smaller epicentral distance is too small. In spite of this, in order to maintain continuity of data, the values of Ms computed by $\sigma_{PEK}(\triangle)$ are still given.

4. Body–wave magnitudes m_B and m_b are computed by the Gutenberg–Richter formula

$$m_B \text{ or } m_b = \log(A / T) + Q(\triangle, h)$$

m_B being measured by broad–band intermediate (SK) or 763 long period seismographs and m_b measured by short period ones.

5. For convenience of use and comparison, the surface wave magnitude Msz (NEIC) and body wave magnitude m_b(NEIC) measured by NEIC recorded on short period seismograph, are also listed in this Bulletin.

6. In order to avoid confusion, no conversion is made among the various magnitudes.

References

[1] Jeffreys, H. and Bullen, K. E.,1940. Seismological tables, British Association, London (Reprinted, with additions, 1967).

[2] Flinn, E. A. and Engdahl, E. R.1965. A proposed basis for geographical and seismic regionalization, Rev. Geophys.,3, 123–149.

[3] Flinn, E. A. Engdahl, E. R. and Hill, A. R., 1974. Seismic and geographical regionalization, Bull. Seism. Soc. Am., 64, 771–992.

[4] Willmore, P. L., 1979. Manual of seimological observatory practice, World Data Center A for Solid Earth Geophysics, Report SE–20.

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台 站 目 录

List of seismological observatories

Station name	Code	Geographic coordinates Lat N	Long E	Altitude (m)	Foundation	Instruments
Baotou	BTO	40° 36′ 20″	110° 01′ 15″	1114	Granite gneiss	SK,64,763
Beijing	BJI	40 02 25	116 10 30	43	Gravel soil	SK,62,JD2,DK−1,763
Changchun	CN2	43 48 05	125 26 54	230	Slate	SK,DK−1,473,763
Chengdu	CD2	30 54 36	103 45 28	628	Conglomerate	SK,DD−1,763
Dalian	DL2	38 54 22	121 37 42	62	Silicilith	SK,DD−1,763
Gaotai	GTA	39 24 38	99 48 52	1341	Granite	SK,62,DD−1,763
Guangzhou	GZH	23 05 13	113 20 38	11	Sandstone	SK,DD−1,513,763
Guiyang	GYA	26 27 31	106 39 50	1162	Dolomite	SK,DD−1,763
Hohhot	HHC	40 50 58	111 33 49	1154	Rhyolite	SK,DD−1,763
Kashi	KSH	39 31 00	75 55 23	1314	Alluvial clay	SK,DD−1
Kunming	KMI	25 07 24	102 44 24	1945	Sandstone	SK,DD−1,763
Lanzhou	LZH	36 05 12	103 50 48	1550	Lehm	SK,64,513,763
Lhasa	LSA	29 42 00	91 09 00	3789	Granite	SK,VGK
Mudanjiang	MDJ	44 36 59	129 35 31	250	Granite	SK,DD−1,513,763
Nanjing	NJ2	32 03 06	118 51 16	45	Silicarenite	SK,DD−1,513,763
Quanzhou	QZH	24 56 35	118 35 30	21	Granite	SK,64,763
Qiongzhong	QZN	19 01 46	109 50 36	230	Granite	DD−1,763
Shenyang	SNY	41 49 40	123 34 41	54	Granite	SK,DD−1,763
Sheshan	SSE	31 05 44	121 11 12	10	Andesite	SK,DD−1,763
Tai'an	TIA	36 12 41	117 07 28	300	Amphibole granite	SK,64,513,763
Taiyuan	TIY	37 42 47	112 26 03	850	Limestone	SK,DD−1,64,763
Urumqi	WMQ	43 48 49	87 42 17	901	Sandstone	SK,62,763
Wuhan	WHN	30 32 37	114 21 01	26	Silicarenite	SK,DD−1,763
Xi'an	XAN	34 02 22	108 55 17	630	Granite	SK,DD−1,513

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仪 器 常 数

Constants of seismograph

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T_1	T_2	D_1	D_2	σ^2	V_0	测定日期 Date determined	记录纸速 R_V (mm / min)	记录方式 Recorder type
BTO	SK	N–S	12.5	1.2	0.45	5.0	0.101	2.66E3	1987.5.9	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.101	2.41E3			
		U–D	12.6	1.2	0.58	5.0	0.302	1.37E3			
		N–S	12.5	1.2	0.45	5.07	0.102	2.46E3	1988.5.24		
		E–W	12.5	1.2	0.45	5.00	0.103	2.39E3			
		U–D	12.5	1.2	0.58	5.05	0.302	1.31E3			
	DD1	N–S	1.0		0.45			4.96E4	1988.9.20	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.05E4			
		U–D	1.0		0.45			5.45E4			
BJI	SK	N–S	12.5	1.1	0.45	5.5	0.090	1.77E3	1987.8.1	30	照像纸 Photo paper
		E–W	12.5	1.1	0.45	5.4	0.070	1.30E3			
		U–D	12.5	1.1	0.59	5.0	0.280	.905E3			
		N–S	12.5	1.1	0.45	5.47	0.091	1.74E3	1988.10.1		
		E–W	12.5	1.1	0.45	5.18	0.069	1.63E3			
		U–D	12.5	1.1	0.59	4.07	0.278	1.20E3			
	DD–2	N–S	1.0		0.60			1.02E5	1988.5.1	120	墨水笔 Pen and ink
		E–W	1.0		0.60			1.17E5			
		U–D	1.0		0.60			7.68E4			
CN2	SK	N–S	12.5	1.2	0.45	4.99	0.079	2.17E3	1988.1.12	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.97	0.075	2.01E3			
		U–D	12.5	1.2	0.65	4.98	0.349	1.50E3			
	DD1	N–S	1.0		0.45			7.92E4	1987.12.2	120	墨水笔 Pen and ink
		E–W	1.0		0.45			7.26E4			
		U–D	1.0		0.45			9.29E4			
		N–S	1.0		0.45			9.46E4	1988.6.23		
		E–W	1.0		0.45			7.74E4			
		U–D	1.0		0.45			10.3E4			
CD2	SK	N–S	12.5	1.2	0.45	5.0	0.038	1.40E3	1987.12.26	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.039	1.40E3			
		U–D	12.5	1.2	0.53	5.0	0.161	1.40E3			
	DD2	N–S	1.0		0.45			7.16E4	1988.3.15	120	墨水笔 Pen and ink
		E–W	1.0		0.45			7.22E4			
		U–D	1.0		0.45			7.26E4			
DL2	SK	N–S	12.5	1.2	0.45	4.90	0.109	1.70E3	1987.10.27	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.00	0.100	1.70E3			
		U–D	12.5	1.2	0.58	4.90	0.241	1.70E3			
		N–S	12.5	1.2	0.45	4.95	0.104	1.70E3	1988.10.27		
		E–W	12.5	1.2	0.45	5.08	0.102	1.70E3			
		U–D	12.5	1.2	0.58	4.99	0.251	1.33E3			
	DD1	N–S	1.0		0.45			3.14E4	1987.10.17	120	墨水笔 Pen and ink
		E–W	1.0		0.45			2.28E4			
		U–D	1.0		0.45			1.42E4			
		N–S	1.0		0.45			2.70E4	1988.10.14		
		E–W	1.0		0.45			2.35E4			
		U–D	1.0		0.45			1.54E4			

续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T_1	T_2	D_1	D_2	σ^2	V_0	测定日期 Date determined	记录纸速 R_V (mm / min)	记录方式 Recorder type
GTA	SK	N–S	12.5	1.2	0.45	5.00	0.084	2.14E3	1987.11.7	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.00	0.076	2.00E3			
		U–D	12.5	1.2	0.45	5.00	0.349	1.14E3			
		N–S	12.5	1.2	0.45	5.01	0.082	2.26E3	1988.11.7		
		E–W	12.5	1.2	0.45	4.98	0.073	1.95E3			
		U–D	12.5	1.2	0.53	4.94	0.296	1.08E3			
	DD1	N–S	1.0		0.45			1.46E5	1987.9.26	120	墨水笔 Pen and ink
		E–W	1.0		0.45			1.54E5			
		U–D	1.0		0.45			1.30E5			
		N–S	1.0		0.45			1.73E5	1988.9.26		
		E–W	1.0		0.45			1.37E5			
		U–D	1.0		0.45			1.13E5			
	62	N–S	1.0	0.5	0.6	1.5	0.25	2.38E5	1987.3.8	120	照像纸 Photo paper
		E–W	1.0	0.5	0.6	1.5	0.25	2.25E5			
		U–D	1.0	0.5	0.6	1.5	0.25	1.97E5			
		N–S	1.0	0.6	0.659	1.5	0.25	1.83E5	1988.5.31		
		E–W	1.0	0.6	0.460	1.5	0.25	2.34E5			
		U–D	1.0	0.6	0.420	1.5	0.25	1.82E5			
GZH	SK	N–S	12.5	1.2	0.45	5.00	0.068	1.78E3	1987.3.7	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.00	0.065	1.96E3			
		U–D	12.5	1.2	0.56	5.10	0.025	1.23E3			
		N–S	12.5	1.2	0.45	4.99	0.068	1.84E3	1988.3.11		
		E–W	12.5	1.2	0.45	5.04	0.063	1.80E3			
		U–D	12.5	1.2	0.56	5.01	0.240	1.26E3			
	DD1	N–S	1.0		0.45			3.59E4	1987.8.10	120	墨水笔 Pen and ink
		E–W	1.0		0.45			2.14E4			
		U–D	1.0		0.45			2.46E4			
		N–S	1.0		0.45			3.70E4	1988.5.19		
		E–W	1.0		0.45			2.66E4			
		U–D	1.0		0.45			3.34E4			
GYA	SK	N–S	12.5	1.2	0.45	5.00	0.089	1.24E3	1987.7.9	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.90	0.069	1.29E3			
		U–D	12.5	1.2	0.56	5.10	0.297	.924E3			
		N–S	12.5	1.2	0.45	4.92	0.088	1.45E3	1988.7.12		
		E–W	12.5	1.2	0.45	4.95	0.070	1.45E3			
		U–D	12.5	1.2	0.56	5.03	0.286	.783E3			
	DD1	N–S	1.0		0.45			6.87E4	1987.7.12	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.88E4			
		U–D	1.0		0.45			5.92E4			
		N–S	1.0		0.45			6.09E4	1988.7.15		
		E–W	1.0		0.45			5.67E4			
		U–D	1.0		0.45			5.51E4			
HHC	SK	N–S	12.5	1.2	0.45	4.4	0.112	3.44E3	1987.7.8	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.7	0.119	3.40E3			
		U–D	12.5	1.2	0.58	4.9	0.290	1.49E3			

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台站代号 Station code	仪器型号 Type of instruments	分向 Comp.	T_1	T_2	D_1	D_2	σ^2	V_0	测定日期 Date determined	记录纸速 R_V (mm / min)	记录方式 Recorder type
HHC	SK	N–S	12.5	1.2	0.45	5.1	0.10	2.81E3	1988.7.7	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.9	0.10	2.73E3			
		U–D	12.5	1.2	0.60	5.1	0.31	1.33E3			
	DD1	N–S	1.0		0.45			5.77E4	1987.7.3	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.65E4			
		U–D	1.0		0.45			6.57E4			
		N–S	1.0		0.45			5.26E4	1988.7.3		
		E–W	1.0		0.45			5.75E4			
		U–D	1.0		0.45			7.14E4			
KSH	SK	N–S	12.5	1.2	0.45	5.00	0.038	1.58E3	1987.8.27	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.00	0.041	1.63E3			
		U–D	12.5	1.2	0.56	5.00	0.272	1.23E3			
		N–S	12.5	1.2	0.45	5.03	0.041	1.76E3	1988.10.16		
		E–W	12.5	1.2	0.45	4.91	0.044	1.53E3			
		U–D	12.5	1.2	0.59	5.06	0.300	1.28E3			
KMI	SK	N–S	12.5	1.1	0.45	5.53	0.090	1.54E3	1988.1.1	30	照像纸 Photo paper
		E–W	12.5	1.1	0.45	5.53	0.080	1.45E3			
		U–D	12.5	1.1	0.60	5.50	0.314	.910E3			
	62	N–S	3.1	0.1	0.60	5.0	0.11	3.07E4	1988.1.8	60	照像纸 Photo paper
		E–W	3.0	0.1	0.60	5.0	0.11	2.98E4			
		U–D	2.0	0.1	0.30	4.0	0.20	4.35E4			
LZH	SK	N–S	12.5	1.2	0.45	5.0	0.076	1.74E3	1987.10.14	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.079	2.13E3			
		U–D	12.5	1.2	0.49	4.9	0.337	1.29E3			
		N–S	12.5	1.2	0.45	4.96	0.077	2.12E3	1988.10.14		
		E–W	12.5	1.2	0.45	4.99	0.080	2.12E3			
		U–D	12.5	1.2	0.59	4.95	0.338	1.25E3			
	64	N–S	2.5	0.1	0.50	6.0	0.25	2.17E4	1987.7.9	60	照像纸 Photo paper
		E–W	2.5	0.1	0.50	6.0	0.25	2.55E4			
		U–D	2.5	0.1	0.50	6.0	0.25	2.81E4			
		N–S	2.5	0.1	0.50	6.0	0.25	2.43E4	1988.6.18		
		E–W	2.5	0.1	0.50	6.0	0.25	2.76E4			
		U–D	2.5	0.1	0.50	6.0	0.25	3.04E4			
LSA	SK	N–S	12.5	1.2	0.45	5.0	0.096	2.09E3	1987.8.22	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.091	1.49E3			
		U–D	12.5	1.2	0.56	5.0	0.275	.910E3			
		N–S	12.5	1.2	0.45	4.98	0.092	1.79E3	1988.8.30		
		E–W	12.5	1.2	0.45	5.0	0.110	1.96E3			
		U–D	12.5	1.2	0.56	5.0	0.305	1.02E3			
MDJ	SK	N–S	12.5	1.2	0.45	4.9	0.042	2.39E3	1987.2.20	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.8	0.059	2.05E3			
		U–D	12.6	1.2	0.45	5.1	0.249	1.33E3			
		N–S	12.4	1.2	0.45	4.97	0.068	2.44E3	1988.8.10		
		E–W	12.4	1.2	0.45	5.00	0.056	2.15E3			
		U–D	12.5	1.2	0.57	4.93	0.235	1.47E3			

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续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T_1	T_2	D_1	D_2	σ^2	V_0	测定日期 Date determined	记录纸速 R_V (mm / min)	记录方式 Recorder type
MDJ	DD1	N–S	1.0		0.45			4.97E4	1987.1.26	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.08E4			
		U–D	1.0		0.45			5.18E4			
		N–S	1.0		0.45			5.69E4	1988.4.17		
		E–W	1.0		0.45			5.78E4			
		U–D	1.0		0.45			4.56E4			
NJ2	SK	N–S	12.5	1.2	0.45	5.0	0.082	2.27E3	1988.6.3	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.091	2.42E3			
		U–D	12.5	1.2	0.45	5.0	0.285	1.75E3			
		N–S	12.5	1.2	0.45	5.04	0.076	2.27E3	1988.7.1		
		E–W	12.5	1.2	0.45	5.05	0.086	2.38E3			
		U–D	12.5	1.2	0.61	5.02	0.275	1.33E3			
	DD1	N–S	1.0		0.45			3.61E4	1987.6.28	120	墨水笔 Pen and ink
		E–W	1.0		0.45			3.41E4			
		U–D	1.0		0.45			3.69E4			
		N–S	1.0		0.45			2.94E4	1988.6.22		
		E–W	1.0		0.45			2.96E4			
		U–D	1.0		0.45			4.13E4			
QZH	SK	N–S	12.5	1.2	0.45	4.90	0.092	2.14E3	1987.11.20	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.99	0.076	2.07E3			
		U–D	12.5	1.2	0.61	4.96	0.100	1.12E3			
	473	N–S	1.5		0.45			.440E4	1988.3.25	120	熏烟纸 Smoked paper
		E–W	1.5		0.45			.650E4			
		U–D	1.5		0.45			.380E4			
QZN	SK	N–S	12.5	1.2	0.45	5.0	0.038	1.58E3	1987.12.16	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.9	0.040	1.62E3			
		U–D	12.5	1.2	0.62	4.9	0.310	1.22E3			
	DD1	N–S	1.0		0.45			3.18E4	1987.12.11	120	墨水笔 Pen and ink
		E–W	1.0		0.45			4.48E4			
		U–D	1.0		0.45			3.47E4			
		N–S	0.7		0.45			8.69E4	1988.6.11		
		E–W	0.7		0.45			1.11E4			
		U–D	0.7		0.45			8.60E4			
SNY	SK	N–S	12.5	1.2	0.45	5.1	0.085	2.30E3	1987.3.31	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.095	2.39E3			
		U–D	12.5	1.2	0.61	5.0	0.314	1.24E3			
		N–S	12.5	1.2	0.45	5.08	0.086	2.29E3	1988.3.31		
		E–W	12.5	1.2	0.45	4.99	0.095	2.35E3			
		U–D	12.5	1.2	0.61	4.97	0.317	1.26E3			
	DD1	N–S	1.0		0.45			5.25E4	1987.6.22	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.75E4			
		U–D	1.0		0.45			4.10E4			
		N–S	1.0		0.45			5.21E4	1988.5.30		
		E–W	1.0		0.45			6.03E4			
		U–D	1.0		0.45			4.78E4			

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SSE	SK	N–S	12.5	1.2	0.45	5.0	0.078	2.01E3	1987.12.24	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.9	0.086	2.00E3			
		U–D	12.5	1.2	0.54	5.0	0.242	1.08E3			
	DD1	N–S	1.0		0.45			5.53E4	1987.12.22	120	墨水笔 Pen and ink
		E–W	1.0		0.45			5.32E4			
		U–D	1.0		0.45			3.96E4			
		N–S	1.0		0.45			5.59E4	1988.7.1		
		E–W	1.0		0.45			6.26E4			
		U–D	1.0		0.45			4.33E4			
TIA	SK	N–S	12.5	1.2	0.45	5.0	0.083	2.26E3	1987.10.24	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	4.9	0.086	2.09E3			
		U–D	12.5	1.2	0.53	4.9	0.251	.807E3			
		N–S	12.5	1.2	0.45	5.10	0.084	2.22E3	1988.10.15		
		E–W	12.5	1.2	0.45	4.9	0.086	2.35E3			
		U–D	12.5	1.2	0.53	5.0	0.230	1.76E3			
	473	N–S	1.5		0.45			4.55E4	1987.10.30	120	熏烟纸 Smoked paper
		E–W	1.5		0.45			2.75E4			
		U–D	1.5		0.45			5.60E4			
		N–S	1.5		0.45			4.85E4	1988.10.26		
		E–W	1.5		0.45			4.40E4			
		U–D	1.5		0.45			3.65E4			
TIY	SK	N–S	12.5	1.2	0.45	5.10	0.085	1.67E3	1987.4.2	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.01	0.082	1.72E3			
		U–D	12.5	1.2	0.59	4.94	0.307	.832E3			
		N–S	12.5	1.2	0.45	4.96	0.087	1.66E3	1988.3.6		
		E–W	12.5	1.2	0.45	5.00	0.083	1.70E3			
		U–D	12.5	1.2	0.59	5.02	0.309	.866E3			
	DD1	N–S	1.0		0.45			1.35E4	1987.9.14	120	墨水笔 Pen and ink
		E–W	1.0		0.45			1.23E4			
		U–D	1.0		0.45			3.44E4			
		N–S	1.0		0.45			1.42E4	1988.3.13		
		E–W	1.0		0.45			1.17E4			
		U–D	1.0		0.45			3.63E4			
WHN	SK	N–S	12.5	1.2	0.45	5.10	0.085	2.36E3	1988.1.1	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.09	0.100	2.36E3			
		U–D	12.5	1.2	0.62	4.94	0.201	2.61E3			
	DD1	N–S	1.0		0.45			2.60E4	1988.1.1	120	墨水笔 Pen and ink
		E–W	1.0		0.45			2.29E4			
		U–D	1.0		0.45			4.15E4			
WMQ	SK	N–S	12.5	1.2	0.45	5.0	0.098	1.74E3	1987.12.2	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.094	1.37E3			
		U–D	12.5	1.2	0.57	5.0	0.329	.926E3			
		N–S	12.5	1.2	0.45	5.0	0.089	2.11E3	1988.9.23		
		E–W	12.5	1.2	0.45	4.95	0.093	2.09E3			
		U–D	12.5	1.2	0.59	5.0	0.302	1.20E3			

续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T_1	T_2	D_1	D_2	σ^2	V_0	测定日期 Date determined	记录纸速 R_V (mm / min)	记录方式 Recorder type
WMQ	DD1	N–S	1.0		0.45			1.21E5	1988.9.21	120	墨水笔 Pen and ink
		E–W	1.0		0.45			9.42E4			
		U–D	1.0		0.45			1.34E5			
XAN	SK	N–S	12.5	1.2	0.45	5.0	0.091	2.26E3	1987.5.23	30	照像纸 Photo paper
		E–W	12.5	1.2	0.45	5.0	0.092	2.27E3			
		U–D	12.5	1.2	0.62	5.0	0.326	1.39E3			
		N–S	12.5	1.2	0.45	5.05	0.088	2.20E3	1988.8.9		
		E–W	12.5	1.2	0.45	5.04	0.089	2.23E3			
		U–D	12.5	1.2	0.62	4.98	0.308	1.32E3			
	DD1	N–S	1.0		0.45			8.15E4	1987.10.4	120	墨水笔 Pen and ink
		E–W	1.0		0.45			8.45E4			
		U–D	1.0		0.45			1.23E5			
		N–S	1.0		0.45			8.05E4	1988.7.7		
		E–W	1.0		0.45			8.30E4			
		U–D	1.0		0.45			1.20E5			

62 : Type 62 seismograph with galvanometer recording

64 : Type 64 seismograph with galvanometer recording or with electronic amplifier and pen recorder

SK : Type SK (Kirnos) seismograph with galvanometer recording

DD–1 : Type DD–1 seismograph with electronic amplifier and pen recorder

T_1 : Seismometer period in sec.

T_2 : Galvanometer period in sec.

D_1 : Damping coefficient of Seismometer

D_2 : Damping coefficient of galvanometer

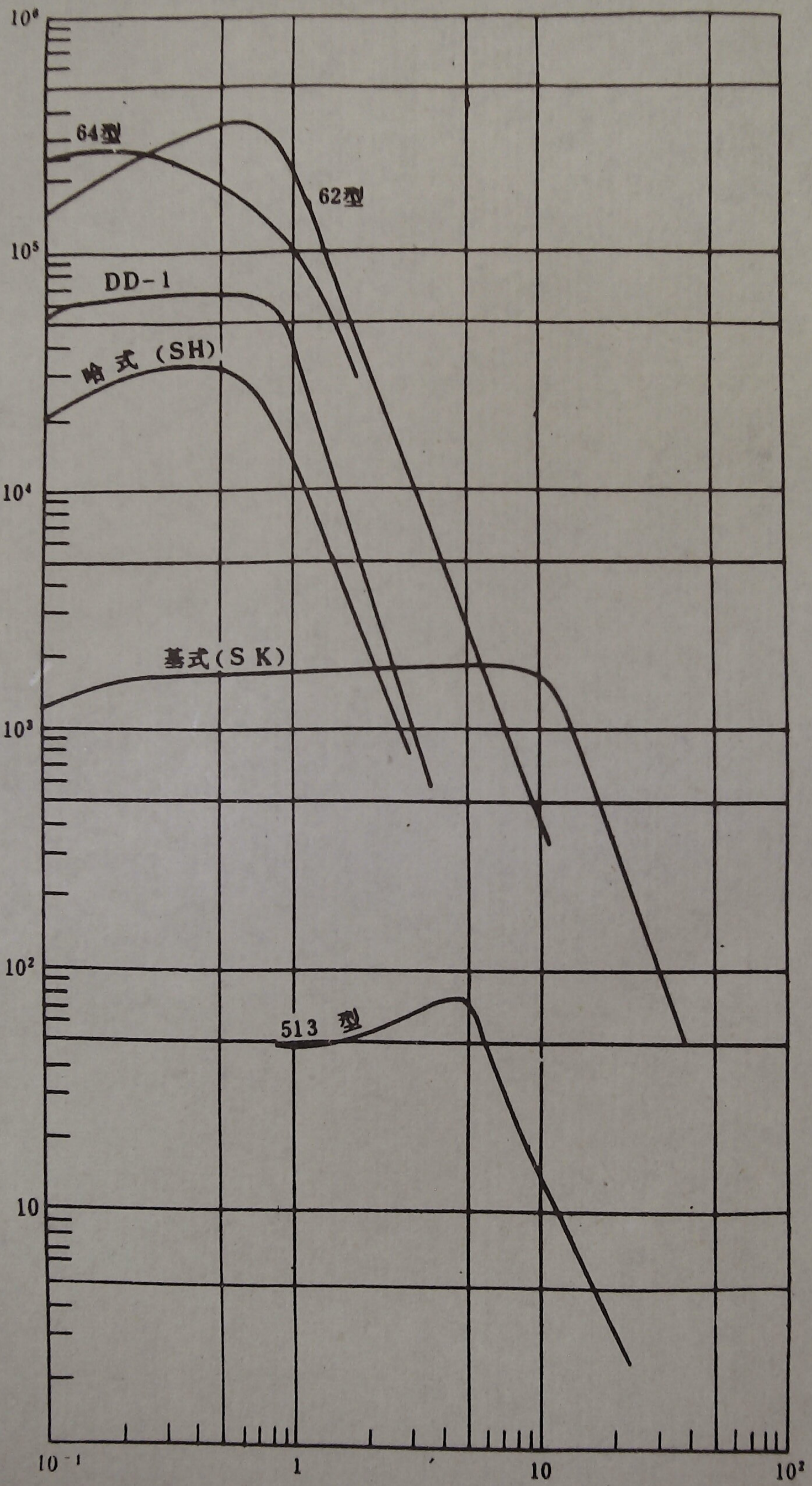
σ^2 : Coupling coefficient

V_0 : Static magnification, asterisk indicates magnification at T_1

R_V : Paper speed in mm / min

仪器放大倍率曲线

Response Curves of Instruments



International Seismological Centre

1988 年 地 震 目 录
(7–12 月)

Catalogue of earthquakes of 1988
(July to December)

1. 世界地震目录 Catalogue of earthquakes all over the world

No.	Origin time UTC d	h	min	s	Geographic coordinates Lat	Long	Depth (km)	Magnitudes Ms China	M_L China	m_B China	Msz NEIC	m_b NEIC	SD	No. Sta. used	Region and comments
	July 1988														
1	1	02	07	01.5	16.13S	177.71W	34	5.3		5.4	5.2	5.4	1.2	63	斐济地区
	1	10	(BTC)												Fiji region
2	1	02	55	32.0	16.31S	177.51W	29	5.6		5.9	5.5	5.5	1.5	67	斐济地区
	1	10													Fiji region
3	1	12	48	06.5	53.16N	166.86W	31	5.3			4.9	5.0	1.4	70	福克斯群岛
	1	20													Fox Islands
4	1	15	13	52.0	40.29N	142.59E	58				3.8	4.6	1.6	37	本州东海岸近海
	1	23													Near east coast of Honshu
5	2	00	22	40.0	8.30S	156.35E	54	5.2		5.7	5.1	5.5	1.6	68	所罗门群岛
	2	08													Solomon Islands
6	2	02	46	32.0	44.55N	125.88E	14		3.1				1.8	6	中国东北部
	2	10													North-Eastern China
7	2	10	01	28.3	14.27S	167.25E	143			6.4		5.9	0.9	103	瓦努阿图(新赫布里底)
	2	18													Vanuatu (New Hebrides)
8	2	10	54	51.8	26.06N	128.52E	30	5.5		5.5		5.4	1.2	84	琉球群岛
	2	18													Ryukyu Islands
9	2	17	32	38.1	18.68S	174.42W	111					5.5	1.2	44	汤加
	3	01													Tonga
10	3	05	09	41.8	24.75S	179.40E	527			5.8		5.5	0.9	71	斐济以南地区
	3	13													South of Fiji
11	3	05	20	39.8	25.16N	121.53E	20	5.0	4.6	5.2		4.7	1.8	36	台湾岛
	3	13													Taiwan
12	3	08	19	18.3	22.04N	94.20E	86	4.7		5.5		5.2	1.5	89	缅甸
	3	16													Burma
13	3	11	43	11.4	8.96N	138.06E	13	6.5		6.5	6.3	5.9	1.2	98	加罗林群岛西部
	3	19													Western Caroline Islands
14	4	00	54	34.3	43.68N	87.99E	10		4.4				2.4	13	新疆自治区北部
	4	08													Northern Xinjiang Province
15	4	01	01	23.8	43.78N	88.11E	16		3.5				2.5	6	新疆自治区北部
	4	09													Northern Xinjiang Province
16	4	05	38	09.9	19.73N	155.67W	8					5.1	1.0	31	夏威夷群岛
	4	13													Hawaiian Islands
17	4	07	13	20.5	8.74N	138.25E	32	4.3			4.4	4.0	1.6	33	加罗林群岛西部
	4	15													Western Caroline Islands
18	4	08	28	18.4	21.70S	179.43W	606					5.3	0.8	71	斐济以南地区
	4	16													South of Fiji
19	4	13	54	14.5	17.59S	71.65W	18	5.8			5.4	5.8	1.4	80	智利北部海岸远海
	4	21													Off coast of Northern Chile
20	4	13	59	45.3	28.00N	130.64E	62	4.4				4.7	1.7	26	琉球群岛
	4	21													Ryukyu Islands
21	4	14	38	58.8	2.91N	128.29E	37	5.0		5.8	5.2	5.5	1.2	98	马鲁古海峡
	4	22													Molucca Passage
22	4	21	36	15.7	6.81S	154.74E	62					4.8	1.4	37	所罗门群岛
	5	05													Solomon Islands
23	5	07	36	20.8	28.08N	91.21E	11	4.4				4.9	2.2	65	不丹
	5	15													Bhutan

24	5	08–06–42.9	6.52N	125.72E	186				5.4	1.2	75	棉兰老岛	
	5	16										Mindanao	
25	5	10–20–36.6	4.37S	135.08E	31				4.6	1.4	14	西伊里安地区	
	5	18										West Irian region	
26	5	12–42–46.5	4.27S	135.05E	21				4.9	1.5	34	西伊里安地区	
	5	20										West Irian region	
27	5	14–59–25.9	29.43N	104.19E	11		3.2			2.2	12	四川省	
	5	22										Sichuan Province	
28	5	20–32–01.2	6.06S	148.84E	60	6.6		6.5	5.1	1.2	102	新不列颠地区	
	6	04										New Britain region	
29	5	20–32–07.0	5.86S	148.79E	54				6.0	1.3	15	新不列颠地区	
	6	04										New Britain region	
30	6	01–10–52.4	17.74S	178.74W	549			5.7	5.6	1.0	85	斐济地区	
	6	09										Fiji region	
31	6	01–48–41.9	6.02S	148.85E	68	5.3		5.8	5.5	1.4	70	新不列颠地区	
	6	09										New Britain region	
32	6	03–00–14.1	25.32N	128.38E	30	3.8			4.6	1.3	44	琉球群岛地区	
	6	11										Ryukyu Islands region	
33	6	03–40–04.1	22.61N	117.71E	5		3.7			2.9	14	台湾地区	
	6	11										Taiwan region	
34	6	15–54–18.2	41.85N	144.08E	27	6.6		6.2 6.3	5.9	1.3	108	北海道地区	
	6	23										Hokkaido region	
35	6	16–31–31.1	41.80N	144.06E	32				5.3	1.4	79	北海道地区	
	7	00										Hokkaido region	
36	6	16–55–19.6	41.85N	144.07E	28	5.6		5.7	5.6	1.3	90	北海道地区	
	7	00										Hokkaido region	
37	6	19–48–49.1	11.48N	62.56W	99				5.1	2.1	16	委内瑞拉海岸近海	
	7	03										Near coast of Venezuela	
38	6	21–35–34.4	36.60N	72.21E	5		4.7			3.5	6	阿富汗——苏联边境地区	
	7	05										Afghanistan–USSR border region	
39	6	23–05–17.3	35.44S	15.04W	5				5.3 5.3	1.9	37	特里斯坦–达库尼亚地区	
	7	07										Tristan da Cunha region	
40	7	01–09–57.8	46.70N	116.33E	15	4.4	5.0		4.4	2.3	45	蒙古	
	7	09										Mongolia	
41	7	02–09–02.9	5.99S	146.72E	44	4.6			4.9 5.1	1.3	64	新几内亚东部地区	
	7	10										Eastern New Guinea region	
42	7	04–09–45.3	22.35N	118.52E	15		3.0			4.2	6	台湾地区	
	7	12										Taiwan region	
43	7	15–05–27.8	37.18N	116.25W	2				4.3 5.6	0.9	60	加利福尼亚州——内华达州边境地区	
	7	23										California–Nevada border region	
44	7	21–45–22.9	16.55S	73.03W	64				5.1	2.2	27	秘鲁海岸远海	
	8	05										Off coast of Peru	
45	8	04–25–27.9	36.54N	70.97E	211				4.5	1.3	21	兴都库什地区	
	8	12										Hindu Kush region	
46	8	11–03–28.1	5.61S	150.38E	118				5.0	1.0	45	新不列颠地区	
	8	19										New Britain region	
47	8	13–12–52.1	2.97S	147.87E	33	5.1		5.9 4.9	4.9	1.5	44	俾斯麦海	
	8	21										Bismarck Sea	
48	8	14–01–18.7	4.28S	131.09E	37			4.9	4.9	1.3	24	班达海	
	8	22										Banda Sea	
49	8	15–16–47.2	5.98S	148.76E	67					1.4	36	新不列颠地区	
	8	23										New Britain region	

50	8 9 00	16-35-35.2	6.21S	154.79E	79	4.8	5.3	5.8	0.9	93	所罗门群岛 Solomon Islands
51	8 9 00	16-56-32.8	36.94N	43.96E	67			4.7	1.3	39	伊拉克 Iraq
52	8 9 07	23-47-13.0	15.90N	145.70E	172			4.8	1.1	50	马里亚纳群岛 Marianas
53	9 9 08	00-09-41.2	60.31N	170.58E	10			4.6	1.2	28	西伯利亚东部 Eastern Siberia
54	9 9 08	00-57-34.2	41.77N	82.76E	17	3.2			2.9	8	新疆自治区南部 Southern Xinjiang Province
55	9 9 11	03-40-07.2	4.87S	151.93E	106			5.7	1.0	84	新不列颠地区 New Britain region
56	9 9 23	15-10-55.7	30.03S	178.77W	255		5.6	5.5	1.1	72	克马德克群岛地区 Kermadec Islands region
57	9 9 23	15-14-17.3	39.88N	74.94E	5	4.0			3.0	7	新疆自治区南部 Southern Xinjiang Province
58	9 10 02	18-50-34.0	37.11N	114.68E	11	3.0			1.8	7	中国东部 Eastern China
59	9 10 02	18-59-33.9	31.79N	99.73E	13	3.1			4.1	5	四川省 Sichuan Province
60	10 10 08	00-54-43.4	40.46N	122.39E	9	3.0			2.0	7	中国东北部 North-Eastern China
61	10 10 10	02-42-54.9	13.06N	57.56E	9			4.1 5.0	1.7	33	阿拉伯海 Arabian Sea
62	10 10 11	03-31-30.3	25.10N	95.33E	128			4.8	1.4	72	缅甸——印度边境地区 Burma-India border region
63	10 10 12	04-31-34.7	13.45N	120.20E	56	4.1		4.9	2.2	35	菲律宾群岛地区 Philippine Islands region
64	10 10 21	13-22-51.6	30.69N	137.82E	508			4.5	1.1	42	本州以南地区 South of Honshu
65	10 11 00	16-47-09.4	21.43S	113.49W	5			5.1 5.3	1.9	39	复活节岛海山 Easter Island Cordillera
66	10 11 01	17-36-00.7	19.91S	168.71E	46	5.2	5.4	5.1 5.0	1.3	48	洛亚尔提群岛 Loyalty Islands
67	10 11 03	19-51-03.6	56.39S	26.53W	26			5.4	2.3	27	南桑德韦奇群岛地区 South Sandwich Islands region
68	11 11 08	00-12-34.4	5.33N	126.70E	68	5.4	6.0	5.9	1.0	99	塔劳群岛 Talaud Islands
69	11 11 13	05-16-41.7	41.73N	80.07E	5	3.5			4.9	9	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
70	11 12 04	20-30-32.2	12.87N	125.32E	35			4.6	1.0	16	萨马岛 Samar
71	11 12 07	23-22-40.2	26.25N	96.23E	11	4.2		4.8	2.5	16	缅甸——印度边境地区 Burma-India border region
72	12 12 08	00-52-11.0	6.12N	126.22E	163			5.4	1.6	21	棉兰老岛 Mindanao
73	12 12 10	02-26-53.1	38.82N	23.37E	20			4.7 4.5	1.5	21	希腊 Greece
74	12 12 16	08-41-46.0	26.54N	142.04E	58	4.1		4.1 5.2	1.5	72	小笠原群岛地区 Bonin Islands region
75	12 12 17	09-55-24.8	31.26S	179.95W	415		5.5	5.2	1.1	56	克马德克群岛地区 Kermadec Islands region

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76	12	09–55–52.4	9.80N	71.39W	28				4.4	5.5	1.7	27	马拉开波湖 Lake Maracaibo
	12	17											
77	12	17–00–08.2	6.87N	124.04E	50	5.0		5.5	4.7	5.2	1.2	82	棉兰老岛 Mindanao
	13	01											
78	12	17–59–11.6	9.99N	62.55W	4				4.7	5.2	1.9	34	委内瑞拉 Venezuela
	13	01											
79	12	19–27–00.6	29.72N	107.00E	7		3.1				1.8	6	四川省 Sichuan Province
	13	03											
80	12	21–12–47.8	24.89N	125.46E	62		3.5			4.6	1.8	45	琉球群岛西南部 South–western Ryukyu Islands
	13	05											
81	12	23–23–01.5	24.84N	123.13E	144					4.5	1.7	61	台湾地区 Taiwan region
	13	07											
82	13	04–18–45.2	31.73N	99.68E	5		3.0				4.3	7	四川省 Sichuan Province
	13	12											
83	13	06–49–45.4	40.47N	122.13E	9	3.0					0.9	5	中国东北部 North–Eastern China
	13	14											
84	13	14–41–33.6	41.94N	141.50E	104					4.8	1.3	53	北海道地区 Hokkaido region
	13	22											
85	13	17–29–34.4	41.78S	16.09W	11				5.1	5.6	2.7	29	南大西洋海岭 South Atlantic Ridge
	14	01											
86	14	05–28–16.9	4.82S	130.66E	95					5.1	1.5	50	班达海 Banda Sea
	14	13											
87	14	08–09–07.0	25.22N	123.53E	182				5.2	4.8	1.4	72	琉球群岛西南部 South–western Ryukyu Islands
	14	16											
88	14	10–33–58.0	3.95S	143.98E	57					4.9	2.0	43	新几内亚 New Guinea
	14	18											
89	14	18–28–37.2	9.48S	161.40E	4					5.1	0.7	28	所罗门群岛 Solomon Islands
	15	02											
90	14	23–18–06.6	8.62S	112.64E	31					5.3	1.5	46	爪哇以南地区 South of Java
	15	07											
91	15	02–00–28.4	16.30S	175.91W	381					4.8	0.9	36	斐济地区 Fiji region
	15	10											
92	15	13–24–08.1	35.06N	109.98E	4		3.1				1.7	8	中国东部 Eastern China
	15	21											
93	16	06–05–01.0	3.24N	126.93E	29	5.4		5.6	5.4	5.4	1.3	87	马鲁古海峡 Molucca Passage
	16	14											
94	16	08–34–16.6	7.37S	120.28E	421			5.7		5.5	1.3	92	佛罗勒斯海 Flores Sea
	16	16											
95	16	08–42–01.7	13.94N	51.70E	10	5.1			5.1	5.5	1.2	56	亚丁湾东部 Eastern Gulf of Aden
	16	16											
96	16	16–54–60.0	27.34S	176.56W	34	5.4		5.9	5.3	5.4	0.9	69	克马德克群岛地区 Kermadec Islands region
	17	00											
97	16	19–53–26.7	19.91N	121.78E	28	5.4	5.0	5.6	5.2	5.3	1.7	105	菲律宾群岛地区 Philippine Islands region
	17	03											
98	16	20–46–51.6	52.07N	170.62W	33	5.0			4.6	5.4	1.0	82	福克斯群岛 Fox Islands
	17	04											
99	16	21–15–11.3	13.92S	167.45E	167					5.1	1.1	53	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	17	05											
100	17	03–23–04.1	20.08N	121.95E	8	5.9	5.4	5.9	5.6	5.4	1.8	100	菲律宾群岛地区 Philippine Islands region
	17	11											
101	17	13–12–10.4	17.98S	167.79E	27				4.8	5.1	2.1	47	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	17	21											

102	17	15–05–56.4	37.08N	142.03E	24	5.5		5.2	5.4	5.1	1.5	93	本州东海岸近海
	17	23											Near east coast of Honshu
103	17	18–46–12.6	46.22N	143.04E	345					4.4	1.1	50	北海道地区
	18	02											Hokkaido region
104	17	21–13–26.9	2.49N	128.46E	150					5.0	1.2	67	查伊洛洛贾洛洛(哈马黑拉)岛
	18	05											Djailolo Gilolo (Halmahera)
105	18	02–08–55.8	9.00S	156.47E	35				4.8	5.2	1.7	60	当特尔卡斯托群岛地区
	18	10											D'Entrecasteaux Islands region
106	18	02–30–26.9	22.05S	69.92W	5				4.8	5.3	1.2	31	智利北部海岸近海
	18	10											Near coast of Northern Chile
107	18	03–05–10.0	31.66N	104.11E	12	4.2	4.6				2.4	50	四川省
	18	11											Sichuan Province
108	18	04–45–02.9	31.61N	104.17E	16		3.7				2.5	16	四川省
	18	12											Sichuan Province
109	18	08–41–11.5	4.81S	103.08E	87	5.0				5.4	1.3	67	苏门答腊南部
	18	16											Southern Sumatera
110	18	13–22–10.2	54.71N	168.54E	24	6.1		6.0	5.4	4.9	1.5	68	科曼多尔群岛地区
	18	21											Komandorsky Islands region
111	18	14–45–58.9	19.97N	122.13E	5	5.0				4.3	1.9	52	菲律宾群岛地区
	18	22											Philippine Islands region
112	18	14–48–52.0	20.00N	122.28E	17	5.2			5.4	4.6	1.9	59	菲律宾群岛地区
	18	22											Philippine Islands region
113	18	17–17–16.5	20.13N	122.29E	28	4.6	3.7			4.2	1.8	41	菲律宾群岛地区
	19	01											Philippine Islands region
114	19	01–00–21.0	19.64S	174.77W	158			6.4		6.1	1.1	89	汤加
	19	09											Tonga
115	19	04–47–47.9	37.60N	114.95E	18		3.1				3.4	8	中国东北部
	19	12											North–Eastern China
116	19	06–00–38.7	51.35N	175.17W	34					4.7	1.4	31	安德烈亚诺夫群岛
	19	14											Andreanof Islands
117	19	06–03–38.1	51.16N	174.97W	46					4.7	1.8	13	安德烈亚诺夫群岛
	19	14											Andreanof Islands
118	19	08–11–18.9	25.87N	101.12E	6		3.1				2.3	6	云南省
	19	16											Yunnan Province
119	19	10–54–40.0	50.45N	130.26W	14	5.7			5.4	5.4	1.6	59	温哥华岛地区
	19	18											Vancouver Island region
120	19	13–58–49.2	22.95N	118.81E	15		3.4				2.6	5	台湾地区
	19	21											Taiwan region
121	19	14–58–56.6	3.00S	101.39E	90					5.0	0.8	37	苏门答腊南部
	19	22											Southern Sumatera
122	19	16–30–56.8	60.45S	26.78W	19					5.4	2.5	24	南桑德韦奇群岛地区
	20	00											South Sandwich Islands region
123	20	05–13–46.0	1.74N	126.38E	68					5.2	1.0	69	马鲁古海峡
	20	13											Molucca Passage
124	20	06–20–51.0	37.19N	72.85E	39	5.3	5.3	5.4	5.0	5.5	1.4	82	阿富汗——苏联边境地区
	20	14											Afghanistan–USSR border region
125	20	14–51–07.7	51.97N	170.07W	31	5.0			4.7	4.9	1.1	58	福克斯群岛
	20	22											Fox Islands
126	20	18–19–57.8	13.17N	143.90E	132					5.1	1.0	66	马里亚纳群岛以南地区
	21	02											South of the Marianas
127	20	19–56–52.2	25.83N	101.11E	10		3.7			4.6	2.9	29	云南省
	21	03											Yunnan Province

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128	20	20–35–41.2	36.07N	141.45E	48				4.5	1.8	17	本州东海岸近海		
	21	04										Near east coast of Honshu		
129	20	23–15–35.5	23.99N	121.61E	47	6.0		6.1	5.8	1.9	104	台湾岛		
	21	07										Taiwan		
130	21	06–22–39.1	3.22S	129.81E	100				4.7	1.9	43	斯兰岛		
	21	14										Seram		
131	21	11–44–07.3	22.85S	111.76W	5			4.7	5.0	2.4	16	复活节岛地区		
	21	19										Easter Island region		
132	21	12–26–41.4	43.81N	87.29E	12		3.3			2.3	5	新疆自治区北部		
	21	20										Northern Xinjiang Province		
133	21	17–51–17.1	4.44N	96.52E	43			4.0	4.9	1.8	18	苏门答腊北部		
	22	01										Northern Sumatera		
134	21	18–39–31.5	22.62N	121.61E	39	5.0	5.1	5.6	4.9	1.7	93	台湾地区		
	22	02										Taiwan region		
135	22	00–56–11.7	46.08N	149.87E	134				4.8	1.1	39	千岛群岛		
	22	08										Kurile Islands		
136	22	04–39–21.1	19.44S	169.45E	224				4.6	1.1	25	瓦努阿图(新赫布里底)		
	22	12										Vanuatu (New Hebrides)		
137	22	06–31–43.1	43.09N	83.94E	4		3.5			4.0	8	新疆自治区北部		
	22	14										Northern Xinjiang Province		
138	22	07–52–35.3	61.86N	149.94W	56				4.8	1.0	37	阿拉斯加州南部		
	22	15										Southern Alaska		
139	22	10–23–19.7	24.49S	179.48W	455				4.7	1.0	22	斐济以南地区		
	22	18										South of Fiji		
140	22	18–11–31.4	22.23S	179.52W	588				5.2	0.9	56	斐济以南地区		
	23	02										South of Fiji		
141	22	21–16–02.2	40.02N	29.66W	3	5.6		5.3	5.0	1.4	39	亚速尔群岛		
	23	05										Azores		
142	23	03–31–04.4	39.17N	71.58E	34		4.6		4.6	1.8	28	阿富汗——苏联边境地区		
	23	11										Afghanistan–USSR border region		
143	23	04–10–14.4	51.16N	175.75W	29	5.0		4.5	4.9	1.1	73	安德烈亚诺夫群岛		
	23	12										Andreanof Islands		
144	23	05–51–43.1	40.12N	113.99E	10	4.3	4.7		4.3	2.1	63	中国东北部		
	23	13										North–Eastern China		
145	23	07–38–09.0	48.68N	90.64E	17	6.4		6.1	5.8	5.5	1.8	98	蒙古	
	23	15										Mongolia		
146	23	14–25–35.4	22.17S	175.18E	19	6.0		6.4	6.4	5.9	1.6	89	洛亚尔提群岛地区	
	23	22										Loyalty Islands region		
147	23	14–39–45.1	22.02S	175.11E	28	5.8				5.4	2.1	31	洛亚尔提群岛地区	
	23	22										Loyalty Islands region		
148	23	15–17–07.6	6.46S	152.86E	16	6.6		6.9	6.7	6.7	0.9	101	新不列颠地区	
	23	23										New Britain region		
149	23	16–02–19.5	37.68N	112.29E	10		3.7				2.4	23	中国东北部	
	24	00										North–Eastern China		
150	23	16–19–55.3	6.48S	152.99E	51					4.7	1.9	28	新不列颠地区	
	24	00										New Britain region		
151	23	16–48–59.5	6.38S	152.89E	47					4.7	0.9	35	新不列颠地区	
	24	00										New Britain region		
152	23	17–11–37.1	6.34S	153.06E	28	5.4		6.3	5.5	5.6	0.9	101	新不列颠地区	
	24	01										New Britain region		
153	23	19–05–00.2	6.36S	152.90E	26			5.6	4.5	5.4	0.9	65	新不列颠地区	
	24	03										New Britain region		

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154	23	19–10–03.0	30.91N	50.08E	44				4.6	2.0	33	伊朗西部	
	24	03										Western Iran	
155	23	19–55–56.1	6.50S	152.93E	22				5.2	1.1	66	新不列颠地区	
	24	03										New Britain region	
156	23	22–32–37.6	6.40S	152.94E	36	5.0	5.6	4.7	5.2	1.1	67	新不列颠地区	
	24	06										New Britain region	
157	24	00–29–54.3	22.32S	176.92W	239				5.0	1.1	29	斐济以南地区	
	24	08										South of Fiji	
158	24	05–04–37.7	11.57N	141.47E	32	4.8		4.5	5.4	0.9	80	加罗林群岛西部	
	24	13										Western Caroline Islands	
159	24	08–58–26.2	21.97S	175.10E	25			5.0	5.4	1.0	63	洛亚尔提群岛地区	
	24	16										Loyalty Islands region	
160	24	14–47–50.6	6.41S	152.97E	30	5.0		4.8	5.2	1.2	72	新不列颠地区	
	24	22										New Britain region	
161	24	15–47–56.0	12.93N	143.35E	181				5.0	0.8	39	马里亚纳群岛以南地区	
	24	23										South of the Marianas	
162	24	17–47–40.0	39.58N	118.12E	11		4.1			2.3	30	中国东北部	
	25	01										North–Eastern China	
163	24	18–46–08.8	19.99N	122.05E	47	4.3	4.0		4.5	2.0	49	菲律宾群岛地区	
	25	02										Philippine Islands region	
164	24	21–28–48.2	35.87N	80.98E	22	3.6	4.6			2.5	10	克什米尔——西藏边境地区	
	25	05										Kashmir–Tibet border region	
165	24	21–51–32.6	19.05N	100.09E	10	4.7	5.7		4.2	2.1	44	印度支那半岛	
	25	05										Indo–Pacific Peninsula	
166	24	22–16–37.8	6.61S	152.80E	35				5.3	1.2	29	新不列颠地区	
	25	06										New Britain region	
167	24	22–22–50.7	18.29N	146.64E	93				4.9	1.7	31	马里亚纳群岛	
	25	06										Marianas	
168	24	23–41–12.8	1.48N	127.48E	157				5.2	1.2	58	马鲁古海峡	
	25	07										Molucca Passage	
169	25	06–46–05.4	6.11S	133.79E	27	6.6	6.9	6.7	6.5	1.0	100	阿鲁群岛地区	
	25	14										Aroe Islands region	
170	25	07–28–30.9	3.50S	149.52E	83				4.7	1.5	26	俾斯麦海	
	25	15										Bismarck Sea	
171	25	09–45–22.6	46.64N	153.25E	35				5.0	1.6	51	千岛群岛	
	25	17										Kurile Islands	
172	25	10–20–42.3	39.40N	142.74E	26				4.6	1.9	38	本州东海岸近海	
	25	18										Near east coast of Honshu	
173	25	10–28–36.1	52.38N	156.86E	172				5.1	1.2	61	堪察加半岛	
	25	18										Kamchatka	
174	25	12–00–18.9	36.42N	82.88E	10		4.1			2.4	10	西藏自治区	
	25	20										Tibet	
175	25	13–11–32.1	31.26N	103.90E	12	3.2				3.8	10	四川省	
	25	21										Sichuan Province	
176	25	14–27–11.9	50.94N	179.16W	45				4.8	1.7	30	安德烈亚诺夫群岛	
	25	22										Andreanof Islands	
177	25	16–41–05.6	34.85N	79.64E	51	3.8			4.2	2.3	21	克什米尔——西藏边境地区	
	26	00										Kashmir–Tibet border region	
178	25	18–19–21.3	30.29N	141.96E	34				4.6	1.4	13	本州以南地区	
	26	02										South of Honshu	
179	25	19–24–30.9	51.21N	176.16W	46				4.9	1.1	70	安德烈亚诺夫群岛	
	26	03										Andreanof Islands	

180	25	20–23–04.7	30.17N	138.01E	508				4.4	1.2	32	本州以南地区	South of Honshu
	26	04											
181	25	20–52–53.4	11.35S	164.24E	35	5.2		4.8	5.3	2.2	62	所罗门群岛	Solomon Islands
	26	04											
182	25	23–42–34.4	51.05N	157.67E	88	4.4			5.6	0.9	76	千岛群岛	Kurile Islands
	26	07											
183	26	00–31–33.0	55.63N	166.65E	35	5.5	5.5	4.8	4.9	1.7	76	科曼多尔群岛地区	Komandorsky Islands region
	26	08											
184	26	01–16–30.0	55.80N	166.25E	34				4.7	1.3	29	科曼多尔群岛地区	Komandorsky Islands region
	26	09											
185	26	05–53–39.3	9.47N	93.53E	36				5.0	1.7	22	尼科巴群岛地区	Nicobar Islands region
	26	13											
186	26	11–11–30.2	0.73S	120.84E	60				4.7	1.6	35	苏拉威西(西里伯斯)岛	Sulawesi (Celebes)
	26	19											
187	26	11–39–40.4	8.24N	123.40E	48	4.8		5.5	4.6	5.1	1.6	76	棉兰老岛	Mindanao
	26	19											
188	26	13–49–41.9	6.60S	152.85E	31				4.3	4.9	1.8	39	新不列颠地区	New Britain region
	26	21											
189	26	14–46–38.4	39.44N	118.20E	11		4.2				2.1	40	中国东北部	North–Eastern China
	26	22											
190	26	16–13–15.6	34.25N	141.38E	38	4.7			4.4	5.1	1.9	75	本州以南地区	South of Honshu
	27	00											
191	26	16–35–35.9	24.03S	179.78E	538					5.1	1.1	36	斐济以南地区	South of Fiji
	27	00											
192	26	19–12–06.7	6.37S	152.75E	31	5.0		5.8	5.3	5.4	1.2	85	新不列颠地区	New Britain region
	27	03											
193	26	19–46–59.3	6.54S	152.72E	47					4.6	1.2	20	新不列颠地区	New Britain region
	27	03											
194	26	21–30–46.7	13.97N	93.21E	34	4.3			4.3	5.1	1.3	75	安达曼群岛地区	Andaman Islands region
	27	05											
195	26	22–55–20.9	35.28N	118.57E	12		3.7				3.3	22	中国东部	Eastern China
	27	06											
196	27	04–36–11.8	19.28S	177.37W	368					4.9	1.2	35	斐济地区	Fiji region
	27	12											
197	27	05–00–06.0	35.29N	24.72E	41					4.6	1.4	42	克里特岛	Crete
	27	13											
198	27	07–07–44.1	31.74N	78.55E	47	4.4			3.7	4.4	2.4	27	西藏——印度边境地区	Tibet–India border region
	27	15											
199	27	12–17–18.0	3.28S	68.07E	10	5.1			4.8	5.1	1.3	51	卡尔斯伯格海岭	Carlsberg Ridge
	27	20											
200	27	16–50–11.3	51.18N	176.25W	45	5.3				4.6	1.3	26	安德烈亚诺夫群岛	Andreanof Islands
	28	00											
201	27	16–58–16.2	18.75N	145.79E	222			5.4		5.4	1.1	89	马里亚纳群岛	Marianas
	28	00											
202	27	20–18–01.6	13.93N	92.99W	31				4.5	5.2	0.9	23	墨西哥恰帕斯海岸远海	Off coast of Chiapas, Mexico
	28	04											
203	27	20–50–52.7	28.71N	105.84E	7		3.0				2.3	13	四川省	Sichuan Province
	28	04											
204	27	21–55–11.0	12.94S	167.11E	182			6.3		5.9	1.1	103	瓦努阿图(新赫布里底)	Vanuatu (New Hebrides)
	28	05											
205	27	22–44–35.0	13.05S	167.19E	186			5.8		5.8	1.0	86	瓦努阿图(新赫布里底)	Vanuatu (New Hebrides)
	28	06											

206	27	23-44-47.5	34.63N	122.30E	10		3.4			2.7	8	黄海	
	28	07										Yellow Sea	
207	28	03-58-17.7	51.15N	156.78E	121			5.7	5.0	1.2	76	千岛群岛	
	28	11										Kurile Islands	
208	28	04-04-56.9	51.08N	176.06W	51				4.8	1.5	60	安德烈亚诺夫群岛	
	28	12										Andreanof Islands	
209	28	13-15-31.3	18.33N	146.77E	81				4.9	1.4	41	马里亚纳群岛	
	28	21										Marianas	
210	28	14-38-10.4	3.16N	97.46E	32				4.7	2.0	23	苏门答腊北部	
	28	22										Northern Sumatera	
211	28	17-12-30.8	22.18S	65.86W	252			6.0	5.8	1.3	79	阿根廷胡胡伊省	
	29	01										Jujuy Province, Argentina	
212	28	22-22-30.7	41.97N	142.45E	79					1.5	44	北海道地区	
	29	06										Hokkaido region	
213	28	22-36-24.5	29.45N	142.16E	39		4.9	5.3	4.8 5.0	1.1	82	小笠原群岛地区	
	29	06										Bonin Islands region	
214	28	23-28-12.7	40.21N	77.83E	14		4.4			2.0	16	新疆自治区南部	
	29	07										Southern Xinjiang Province	
215	29	03-37-20.2	4.47N	97.80E	32				4.6	1.5	22	苏门答腊北部	
	29	11										Northern Sumatera	
216	29	04-06-27.7	25.34N	99.99E	10		3.3			1.0	5	云南省	
	29	12										Yunnan Province	
217	29	07-35-59.2	37.61N	80.69E	9		3.6			2.8	5	新疆自治区南部	
	29	15										Southern Xinjiang Province	
218	29	08-31-38.6	7.08S	153.68E	49				4.1 5.0	1.5	40	新不列颠地区	
	29	16										New Britain region	
219	29	09-59-31.5	33.41N	132.65E	66		4.4		4.2 4.9	1.6	55	四国岛	
	29	17										Shikoku	
220	29	14-10-56.6	5.54S	80.69W	16				5.4	1.6	31	秘鲁北部海岸近海	
	29	22										Near coast of Northern Peru	
221	29	19-08-59.5	0.34N	126.35E	44				4.7	1.5	33	马鲁古海	
	30	03										Molucca Sea	
222	30	01-33-40.5	13.73N	124.53E	33		4.6		4.3 4.8	1.4	62	吕宋岛	
	30	09										Luzon	
223	30	02-45-16.8	23.51S	116.72W	11				5.1 5.2	2.4	31	复活节岛海山	
	30	10										Easter Island Cordillera	
224	30	10-44-30.7	39.60N	118.87E	10		3.8			2.1	28	中国东北部	
	30	18										North-Eastern China	
225	30	11-19-38.7	21.27S	174.17W	79				4.9	1.5	33	汤加	
	30	19										Tonga	
226	30	16-26-22.7	33.15S	83.92E	10				5.1 5.3	1.4	45	阿姆斯特丹——博物学家海岭	
	31	00										Amsterdam-Naturaliste Ridge	
227	30	21-07-20.1	44.93N	149.68E	53		5.1	5.9	6.3	1.1	91	千岛群岛	
	31	05										Kurile Islands	
228	30	22-01-21.8	60.03N	153.72W	164				4.0	1.0	25	阿拉斯加州南部	
	31	06										Southern Alaska	
229	30	23-40-41.1	35.04N	139.46E	10		4.7	5.1	4.5 5.2	2.3	61	本州南海岸近海	
	31	07										Near south coast of Honshu	
230	31	01-28-52.5	6.40S	153.08E	33		4.9	5.7	5.0 5.2	1.1	79	新不列颠地区	
	31	09										New Britain region	
231	31	03-42-36.8	34.72N	139.72E	34		4.3		4.3	2.0	20	本州南海岸近海	
	31	11										Near south coast of Honshu	

232	31	03–45–09.9	6.38S	153.19E	30			4.1	4.7	1.5	43	新不列颠地区	
	31	11										New Britain region	
233	31	08–27–23.9	39.83N	113.64E	10		3.1			4.0	8	中国东北部	
	31	16										North–Eastern China	
234	31	11–59–20.1	20.02N	147.37E	33				4.7	1.1	34	马里亚纳群岛地区	
	31	19										Marianas region	
235	31	12–50–07.4	22.17S	171.18E	58	6.2		6.3	5.8	1.4	87	洛亚尔提群岛地区	
	31	20										Loyalty Islands region	
236	31	14–19–08.2	27.25N	100.85E	9		3.8			2.9	15	云南省	
	31	22										Yunnan Province	
237	31	15–22–47.2	31.91S	57.38E	9	6.0		6.1	5.9	5.8	1.1	71	大西洋——印度洋海岭
	31	23										Atlantic–Indian Ridge	
238	31	16–10–16.7	34.83N	139.78E	30	4.6				4.6	1.7	31	本州南海岸近海
	1	00										Near south coast of Honshu	
239	31	20–57–14.8	51.46N	176.26W	27	4.9			4.6	5.0	1.0	71	安德烈亚诺夫群岛
	1	04										Andreanof Islands	
240	31	21–06–19.4	51.06N	176.02W	55	5.2			4.7	4.9	1.6	60	安德烈亚诺夫群岛
	1	05										Andreanof Islands	
241	31	22–33–28.5	36.68N	71.17E	66		4.5			4.5	1.9	26	兴都库什地区
	1	06										Hindu Kush region	
	August	1988											
242	1	01–39–21.2	34.86N	139.51E	14	4.6			4.5	4.9	1.8	56	本州南海岸近海
	1	09										Near south coast of Honshu	
243	1	02–59–07.7	35.96N	80.83E	27		4.0			2.2	9	克什米尔——西藏边境地区	
	1	10										Kashmir–Tibet border region	
244	1	04–39–52.2	18.03S	176.94W	388					4.8	0.9	39	斐济地区
	1	12										Fiji region	
245	1	06–28–47.1	51.63N	176.30W	28					4.5	1.1	19	安德烈亚诺夫群岛
	1	14										Andreanof Islands	
246	1	06–47–56.4	53.87N	163.79W	35					4.8	1.1	44	乌尼马克岛地区
	1	14										Unimak Island region	
247	1	13–01–23.6	40.23N	76.36E	12		3.5				2.2	8	新疆自治区南部
	1	21										Southern Xinjiang Province	
248	1	16–53–24.4	40.15N	77.50E	13		3.5				2.9	8	新疆自治区南部
	2	00										Southern Xinjiang Province	
249	2	08–26–08.8	25.27N	102.22E	15		3.5				3.2	8	云南省
	2	16										Yunnan Province	
250	2	08–31–00.7	18.11S	178.25W	608					5.1	1.1	34	斐济地区
	2	16										Fiji region	
251	2	11–16–01.7	34.81N	139.60E	19	4.7			4.7	5.0	1.7	64	本州南海岸近海
	2	19										Near south coast of Honshu	
252	2	14–51–06.1	20.11N	147.46E	36	4.4			4.2	5.0	1.0	62	马里亚纳群岛地区
	2	22										Marianas region	
253	2	22–08–28.8	58.17S	25.86W	11	5.7			5.3	5.5	2.6	43	南桑德韦奇群岛地区
	3	06										South Sandwich Islands region	
254	3	01–05–27.6	39.55N	118.85E	4		3.3				2.1	13	中国东北部
	3	09										North–Eastern China	
255	3	05–43–13.9	36.63N	70.93E	193			5.4		5.5	0.9	97	兴都库什地区
	3	13										Hindu Kush region	
256	3	09–44–13.6	39.65N	118.90E	10	4.3	4.3			4.9	2.1	51	中国东北部
	3	17										North–Eastern China	

257	3 3	12–04–15.8	36.60N	70.86E	194				4.8	1.2	52	兴都库什地区 Hindu Kush region
258	3 4	19–18–30.3	7.47S	69.41E	11	4.9		4.6	4.9	0.9	48	查戈斯群岛地区 Chagos Archipelago region
259	4 4	02–22–29.5	24.26N	118.02E	5		3.1			2.0	10	中国东南沿海 Near south–eastern coast of China
260	4 4	06–18–42.1	42.81S	86.07W	8			4.9	5.9	1.4	53	太平洋南部 Southern Pacific Ocean
261	4 4	10–12–52.9	8.35N	91.70E	32	4.3			4.8	1.1	62	尼科巴群岛地区 Nicobar Islands region
262	4 4	11–37–37.0	2.97N	97.68E	82	4.5			4.9	1.3	42	苏门答腊北部 Northern Sumatera
263	4 5	17–16–44.4	33.71S	179.67W	11	5.1		5.0	5.5	1.5	34	克马德克群岛以南地区 South of Kermadec Islands
264	5 5	05–00–49.6	18.73S	65.49E	9					1.2	20	马斯卡林群岛地区 Mascarene Islands region
265	5 5	10–07–44.3	38.94S	15.97W	10			4.9	5.4	1.6	41	南大西洋海岭 South Atlantic Ridge
266	5 6	16–13–32.1	5.75S	147.87E	113				5.5	1.2	55	新几内亚东部地区 Eastern New Guinea region
267	5 6	17–34–36.6	11.99N	93.10E	42	4.6		4.3	4.9	1.0	79	安达曼群岛地区 Andaman Islands region
268	5 6	21–46–13.2	41.83S	17.40W	5			5.0	5.3	2.3	15	南大西洋海岭 South Atlantic Ridge
269	6 6	00–36–24.1	25.15N	95.05E	93		7.0		6.8	1.7	106	缅甸——印度边境地区 Burma–India border region
270	6 6	05–51–50.4	39.24N	89.41E	5	4.3				3.3	11	新疆自治区南部 Southern Xinjiang Province
271	6 6	06–21–42.4	25.44N	94.99E	85	4.3			4.5	1.5	52	缅甸——印度边境地区 Burma–India border region
272	6 6	06–26–55.2	7.10S	151.22E	28	5.7	6.1	5.7	5.9	1.0	99	新不列颠地区 New Britain region
273	6 6	08–06–23.9	24.32N	143.06E	34	4.2			4.8	1.4	39	硫黄列岛地区 Volcano Islands region
274	6 6	09–03–21.2	36.58N	71.02E	190		6.4		6.1	1.1	113	兴都库什地区 Hindu Kush region
275	6 6	09–32–38.1	13.68N	51.68E	10				5.1	1.8	25	亚丁湾东部 Eastern Gulf of Aden
276	6 6	10–08–49.3	42.94N	145.61E	38				4.9	1.8	31	北海道地区 Hokkaido region
277	6 6	10–56–01.7	13.78N	52.12E	6					1.8	24	亚丁湾东部 Eastern Gulf of Aden
278	6 7	18–13–41.5	31.80N	99.52E	6	3.8				2.5	11	四川省 Sichuan Province
279	7 7	02–54–45.2	48.68N	90.73E	30	4.3				3.5	7	蒙古 Mongolia
280	7 7	04–12–53.3	40.40N	76.63E	23	4.2				3.0	19	新疆自治区南部 Southern Xinjiang Province
281	7 7	05–34–20.5	39.68N	71.93E	35	4.8	4.4		4.6	2.2	28	塔吉克 Tadzhikistan
282	7 7	06–23–55.5	14.91N	119.90E	39	4.6		5.2	5.0	1.5	52	吕宋岛 Luzon

283	7 7	12–48–11.9	24.81N	127.83E	33	4.5		4.2	4.9	1.5	64	琉球群岛地区 Ryukyu Islands region
284	7 7	15–15–49.3	30.99N	50.17E	38				4.6	1.6	37	伊朗西部 Western Iran
285	7 7	15–34–06.2	7.12S	129.36E	170				5.4	1.1	73	班达海 Banda Sea
286	7 8	19–24–40.9	33.38N	89.48E	34	4.8			4.6	1.9	40	西藏自治区 Tibet
287	7 8	19–24–48.3	10.18N	125.59E	160					1.2	59	棉兰老岛 Mindanao
288	7 8	22–26–42.3	30.43N	138.56E	427			4.8	5.2	0.8	91	本州以南地区 South of Honshu
289	8 8	01–10–37.7	3.14N	96.38E	52				4.9	1.5	28	北苏门答腊西海岸远海 Off west coast of Northern Sumatera
290	8 8	05–04–27.8	13.81N	120.78E	96			5.7	5.4	1.2	98	民都洛岛 Mindoro
291	8 8	08–34–59.1	48.11N	153.55E	83				4.6	1.5	37	千岛群岛 Kurile Islands
292	8 8	09–09–41.9	33.82N	137.17E	356				4.8	0.9	71	本州南部南海岸近海 Near south coast of Southern Honshu
293	8 8	13–37–30.6	56.26N	153.62W	15	5.3		4.8	4.8	1.1	56	阿拉斯加以南地区 South of Alaska
294	8 8	14–31–57.2	21.08N	103.06E	13	4.7	4.9			2.4	37	印度支那半岛 Indo–Pacific Peninsula
295	8 9	16–12–13.3	39.62N	118.69E	12		3.3			2.1	16	中国东北部 North–Eastern China
296	8 9	16–14–22.8	25.40N	94.96E	95				4.8	1.6	41	缅甸——印度边境地区 Burma–India border region
297	8 9	17–15–04.3	7.87S	128.60E	80				5.3	1.4	68	帝汶海 Timor Sea
298	8 9	19–59–30.7	63.64N	2.46E	9	5.7		5.9	5.3 5.7	1.1	94	挪威海 Norwegian Sea
299	9 9	02–51–26.3	43.93N	86.57E	13		3.4			1.3	6	新疆自治区北部 Northern Xinjiang Province
300	9 9	14–34–44.0	1.38S	100.72E	106				5.0	1.2	83	苏门答腊南部 Southern Sumatera
301	9 10	16–51–36.1	24.26N	122.32E	51	4.9	4.7	5.5	4.5 5.3	1.5	96	台湾岛 Taiwan
302	10 10	02–04–24.4	47.72N	152.91E	116				5.2	1.0	67	千岛群岛 Kurile Islands
303	10 10	04–38–26.0	10.19S	160.94E	39	7.3		6.9	7.4 6.1	1.9	92	所罗门群岛 Solomon Islands
304	10 10	04–56–39.2	10.08S	160.82E	31				5.9	1.5	73	所罗门群岛 Solomon Islands
305	10 10	05–16–12.4	47.49N	130.07E	17		4.1			1.8	9	中国东北部 North–Eastern China
306	10 10	06–38–42.3	10.13S	160.95E	40	6.3		6.2	6.6 5.8	1.7	85	所罗门群岛 Solomon Islands
307	10 10	07–18–32.4	9.82S	161.02E	38				5.2	2.1	37	所罗门群岛 Solomon Islands
308	10 10	08–29–35.2	10.18S	160.98E	37				4.8	1.7	45	所罗门群岛 Solomon Islands

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309	10	10–34–32.7	10.08S	160.48E	36	5.4	5.9	5.3	5.6	1.7	74	所罗门群岛	
	10	18										Solomon Islands	
310	10	10–59–04.9	37.14N	71.59E	125				4.9	1.4	85	阿富汗——苏联边境地区	
	10	18										Afghanistan–USSR border region	
311	10	11–46–46.4	28.19S	112.70W	10	5.8		5.9	5.9	1.6	49	复活节岛地区	
	10	19										Easter Island region	
312	10	12–34–23.5	10.43S	161.01E	5				4.9	0.9	21	所罗门群岛	
	10	20										Solomon Islands	
313	10	13–11–19.8	14.73S	167.35E	128		6.5		6.2	1.2	100	瓦努阿图(新赫布里底)	
	10	21										Vanuatu (New Hebrides)	
314	10	15–34–33.8	10.41S	160.96E	35			5.4	4.9	2.1	66	所罗门群岛	
	10	23										Solomon Islands	
315	10	19–24–04.4	10.49S	160.92E	62			5.0	4.7	2.5	29	所罗门群岛	
	11	03										Solomon Islands	
316	10	20–29–51.0	36.54N	71.14E	100				4.7	1.5	44	兴都库什地区	
	11	04										Hindu Kush region	
317	10	21–19–12.1	10.24S	160.61E	41	5.5	5.8	5.3	5.2	1.3	83	所罗门群岛	
	11	05										Solomon Islands	
318	10	22–41–24.9	10.60S	161.37E	44			5.0	4.8	1.6	23	所罗门群岛	
	11	06										Solomon Islands	
319	11	01–32–24.9	29.94N	103.16E	11		3.1			2.8	7	四川省	
	11	09										Sichuan Province	
320	11	02–30–38.2	47.92N	130.80E	27		3.6			2.3	10	俄罗斯东部——中国东北边境地区	
	11	10										E. Russia–N.E. China border region	
321	11	03–05–39.4	49.10N	28.41W	9	5.5		5.2	5.4	1.3	59	北大西洋海岭	
	11	11										North Atlantic Ridge	
322	11	03–28–37.7	15.23S	167.63E	173				5.2	1.1	21	瓦努阿图(新赫布里底)	
	11	11										Vanuatu (New Hebrides)	
323	11	03–40–53.8	21.87N	121.41E	17	5.1	4.9	5.3	4.9	5.4	1.4	100	台湾地区
	11	11										Taiwan region	
324	11	05–00–13.3	37.69N	70.26E	72	4.7		5.5		5.1	2.0	57	阿富汗——苏联边境地区
	11	13										Afghanistan–USSR border region	
325	11	12–56–16.4	39.69N	118.77E	14		3.2				2.7	10	中国东北部
	11	20										North–Eastern China	
326	11	13–29–20.0	17.95S	65.37E	9	5.8		6.0	5.6	5.5	1.7	89	马斯卡林群岛地区
	11	21										Mascarene Islands region	
327	11	14–09–04.7	42.84S	85.51W	9				5.5	5.4	1.9	22	太平洋南部
	11	22										Southern Pacific Ocean	
328	11	16–00–06.8	30.05N	51.53E	32	6.1		5.6	5.6	5.3	1.5	81	伊朗南部
	12	00										Southern Iran	
329	11	16–04–44.3	29.71N	51.52E	35	6.2		5.5	6.1	5.7	1.5	73	伊朗南部
	12	00										Southern Iran	
330	11	16–39–59.2	30.19N	51.54E	29					4.7	1.5	26	伊朗南部
	12	00										Southern Iran	
331	11	21–52–18.9	30.21N	51.55E	32					4.5	1.4	27	伊朗南部
	12	05										Southern Iran	
332	12	02–17–41.6	7.08S	131.41E	57				4.3	4.4	1.3	31	塔宁巴尔群岛地区
	12	10										Tanimbar Islands region	
333	12	04–05–29.0	54.12N	164.40W	44				4.0	4.6	0.9	24	乌尼马克岛地区
	12	12										Unimak Island region	
334	12	05–14–52.6	35.11N	139.93E	72	4.5		5.4		5.2	1.6	77	本州南海岸近海
	12	13										Near south coast of Honshu	

335	12	06–57–09.7	13.86N	124.55E	34				4.7	1.3	24	吕宋岛	
	12	14										Luzon	
336	12	07–56–52.2	2.00N	127.49E	117				5.2	1.1	74	马鲁古海峡	
	12	15										Molucca Passage	
337	12	10–14–27.8	9.96S	160.80E	47			3.9	4.7	1.1	22	所罗门群岛	
	12	18										Solomon Islands	
338	12	18–58–29.3	39.68N	74.38E	17	5.4	5.4	5.0	5.0	1.5	64	塔吉克——新疆边境地区	
	13	02										Tadzhikistan–Xinjiang border region	
339	12	18–58–47.2	39.85N	74.59E	33	5.4	5.5		5.7	1.7	49	新疆自治区南部	
	13	02										Southern Xinjiang Province	
340	12	19–42–59.6	52.69N	160.41E	32	5.0		4.7	4.8	1.6	39	堪察加东海岸远海	
	13	03										Off east coast of Kamchatka	
341	12	21–56–54.2	42.82N	145.52E	56				4.7	0.8	19	北海道地区	
	13	05										Hokkaido region	
342	12	22–53–58.4	10.08S	161.07E	47				4.7	1.4	26	所罗门群岛	
	13	06										Solomon Islands	
343	13	01–35–30.2	27.89N	102.75E	11		3.0			3.1	9	四川省	
	13	09										Sichuan Province	
344	13	05–46–14.0	4.74N	125.77E	142			5.7	5.6	1.3	88	塔劳群岛	
	13	13										Talaud Islands	
345	13	12–36–21.4	16.48S	167.31E	35				5.3	1.9	32	瓦努阿图(新赫布里底)	
	13	20										Vanuatu (New Hebrides)	
346	13	14–16–19.9	18.67S	175.56W	32	5.3		5.3	4.9	1.8	40	斐济地区	
	13	22										Fiji region	
347	13	14–28–27.7	5.65S	146.89E	105				5.1	1.2	26	新几内亚东部地区	
	13	22										Eastern New Guinea region	
348	13	16–20–26.0	10.07S	160.19E	35	5.1		4.8	5.2	2.1	54	所罗门群岛	
	14	00										Solomon Islands	
349	13	16–46–23.6	29.97N	51.62E	19	4.5		4.4	4.6	1.2	44	伊朗南部	
	14	00										Southern Iran	
350	13	18–43–48.1	60.13N	146.86W	16	4.9		4.5	4.9	0.8	49	阿拉斯加湾	
	14	02										Gulf of Alaska	
351	13	19–59–50.8	25.33N	95.06E	94		5.2		5.0	1.6	86	缅甸——印度边境地区	
	14	03										Burma–India border region	
352	14	10–56–56.8	54.58N	152.65E	643		5.8		5.4	1.0	100	鄂霍次克海	
	14	18										Sea of Okhotsk	
353	14	13–11–43.6	21.82S	70.02W	71				5.1	2.4	25	智利北部海岸近海	
	14	21										Near coast of Northern Chile	
354	14	17–50–49.6	22.83N	99.86E	15	5.0	5.0		4.7	1.9	64	缅甸——中国边境地区	
	15	01										Burma–China border region	
355	14	17–53–08.0	27.32S	70.97W	23	6.8		6.6	6.5	5.7	1.3	88	智利北部海岸近海
	15	01										Near coast of Northern Chile	
356	14	18–55–26.7	5.18S	153.68E	79	6.2			5.3	1.3	56	新爱尔兰地区	
	15	02										New Ireland region	
357	14	20–03–01.6	39.17N	110.52W	13	5.3			5.5	0.8	51	犹他州	
	15	04										Utah	
358	15	05–53–22.3	39.83N	118.40E	8		3.1			2.1	8	中国东北部	
	15	13										North–Eastern China	
359	15	09–59–23.6	8.82N	126.30E	51	5.5		5.8		5.6	1.4	104	棉兰老岛
	15	17										Mindanao	
360	15	13–23–32.8	23.10N	119.98E	5		4.1			2.2	18	台湾地区	
	15	21										Taiwan region	

361	15	14–25–23.9	9.48S	117.48E	66	5.3	5.4	5.1	1.6	81	松巴哇地区
	15	22									Sumbawa region
362	15	15–52–03.8	26.45N	103.05E	6	3.2			2.3	8	云南省
	15	23									Yunnan Province
363	15	17–32–26.9	7.55N	136.89E	34	4.7	5.7	4.4 4.7	1.1	67	加罗林群岛西部
	16	01									Western Caroline Islands
364	15	19–48–45.4	10.29S	160.99E	43			4.7 4.9	1.5	47	所罗门群岛
	16	03									Solomon Islands
365	16	03–49–40.5	10.22S	160.99E	43			4.8 4.8	2.0	44	所罗门群岛
	16	11									Solomon Islands
366	16	08–46–17.2	36.76S	78.38E	9	5.4	5.7	5.6 5.3	1.8	48	中印度洋海丘
	16	16									Mid–Indian Rise
367	16	10–01–07.5	51.28N	178.10W	31	4.6		4.8 5.4	1.0	62	安德烈亚诺夫群岛
	16	18									Andreanof Islands
368	16	21–55–28.1	16.52S	167.32E	35			4.9	1.7	26	瓦努阿图(新赫布里底)
	17	05									Vanuatu (New Hebrides)
369	16	21–55–57.2	13.25N	144.72E	53			4.9	1.3	18	马里亚纳群岛以南地区
	17	05									South of the Marianas
370	16	22–32–23.2	41.45N	79.63E	5	3.4			2.9	10	新疆自治区南部
	17	06									Southern Xinjiang Province
371	17	01–59–06.7	7.78S	106.92E	30	6.0	6.1	5.8 6.1	1.3	102	爪哇以南地区
	17	09									South of Java
372	17	08–16–21.6	27.26S	71.35W	23			5.4	1.6	34	智利北部海岸近海
	17	16									Near coast of Northern Chile
373	17	08–53–17.0	21.24S	168.99E	49			4.8	1.5	24	洛亚尔提群岛
	17	16									Loyalty Islands
374	17	11–34–51.2	27.13S	70.87W	31	6.1	5.9	5.7 5.5	1.5	74	智利北部海岸近海
	17	19									Near coast of Northern Chile
375	17	12–31–29.3	21.47S	178.79W	533			4.8	1.1	43	斐济地区
	17	20									Fiji region
376	17	12–38–14.1	26.73S	70.95W	23			5.5 5.4	1.6	31	智利北部海岸近海
	17	20									Near coast of Northern Chile
377	17	14–26–02.3	27.04S	70.83W	26			4.7 5.2	2.0	18	智利北部海岸近海
	17	22									Near coast of Northern Chile
378	17	14–56–34.2	39.37N	72.32E	57	4.7	5.2		4.9	2.0	53	阿富汗——苏联边境地区
	17	22									Afghanistan–USSR border region
379	17	16–50–52.5	36.31N	80.87E	4		3.1		6.0	3.0	5	克什米尔——西藏边境地区
	18	00									Kashmir–Tibet border region
380	17	16–59–58.3	37.20N	116.35W	4			4.2 5.5	0.8	44	加利福尼亚州——内华达州边境地区
	18	00									California–Nevada border region
381	17	19–45–24.2	19.21N	121.08E	29	4.6	4.6	5.5 4.5	5.0	1.7	87	吕宋岛
	18	03									Luzon
382	17	23–09–40.5	1.60N	124.89E	33	5.0		4.5	5.3	1.5	66	米那哈沙半岛(西里伯斯)
	18	07									Minahassa Peninsula (Celebes)
383	18	06–32–18.8	4.10S	153.73E	267				5.4	1.0	55	新爱尔兰地区
	18	14									New Ireland region
384	18	21–34–21.8	46.67N	153.73E	32				5.0	1.1	42	千岛群岛
	19	05									Kurile Islands
385	19	08–58–59.2	18.59N	145.42E	475				4.8	0.9	57	马里亚纳群岛
	19	16									Marianas
386	19	09–23–25.8	8.00N	123.89E	567				4.6	1.6	35	棉兰老岛
	19	17									Mindanao

387	19	10–34–21.2	39.77N	74.06E	7	4.1	4.6				2.6	12	塔吉克——新疆边境地区
	19	18											Tadzhikistan–Xinjiang border region
388	19	18–10–08.8	24.64N	122.58E	104			5.7		5.2	1.3	108	台湾地区
	20	02											Taiwan region
389	19	18–28–17.4	61.06S	23.04W	13	5.6			5.4	5.6	1.3	41	南桑德韦奇群岛地区
	20	02											South Sandwich Islands region
390	19	20–08–31.3	44.03N	84.50E	7		3.4				3.7	5	新疆自治区北部
	20	04											Northern Xinjiang Province
391	20	08–19–36.8	16.45S	167.18E	21	5.8		6.2	5.8	5.3	1.5	81	瓦努阿图(新赫布里底)
	20	16											Vanuatu (New Hebrides)
392	20	09–45–16.0	16.50S	167.18E	33	5.0				4.9	1.7	37	瓦努阿图(新赫布里底)
	20	17											Vanuatu (New Hebrides)
393	20	12–57–01.7	6.57S	153.07E	30	4.7		5.9	4.5	5.2	1.3	73	新不列颠地区
	20	20											New Britain region
394	20	19–52–43.1	15.33S	173.09W	38				5.2	5.2	2.2	23	汤加
	21	03											Tonga
395	20	20–30–36.6	39.78N	74.18E	15		4.5				2.9	13	塔吉克——新疆边境地区
	21	04											Tadzhikistan–Xinjiang border region
396	20	23–09–08.5	26.84N	86.63E	55	6.8		7.0		6.4	1.4	105	尼泊尔——印度边境地区
	21	07											Nepal–India border region
397	21	03–50–44.3	37.52N	81.87E	5		3.5				3.0	5	新疆自治区南部
	21	11											Southern Xinjiang Province
398	21	11–44–23.6	44.65N	149.43E	50	4.8				5.0	1.2	70	千岛群岛
	21	19											Kurile Islands
399	21	12–18–55.0	26.39S	112.54W	6				5.3	5.1	2.3	26	复活节岛地区
	21	20											Easter Island region
400	21	13–16–29.0	25.32N	95.02E	82	4.3				4.9	1.9	73	缅甸——印度边境地区
	21	21											Burma–India border region
401	21	13–51–42.9	42.73S	86.10W	18				5.4	5.9	1.4	61	太平洋南部
	21	21											Southern Pacific Ocean
402	21	15–02–10.2	12.23N	125.59E	34					4.8	1.1	43	萨马岛
	21	23											Samar
403	21	15–27–10.7	13.34S	166.24E	13						1.0	8	瓦努阿图(新赫布里底)
	21	23											Vanuatu (New Hebrides)
404	21	23–24–52.5	8.39N	126.66E	30				3.9	5.0	1.1	46	棉兰老岛
	22	07											Mindanao
405	22	02–35–37.9	16.70S	167.20E	10				4.7	5.1	1.8	34	瓦努阿图(新赫布里底)
	22	10											Vanuatu (New Hebrides)
406	22	05–26–18.4	52.36N	170.66W	34				4.2	4.9	1.1	61	福克斯群岛
	22	13											Fox Islands
407	22	11–12–43.5	24.07S	176.53W	111					5.6	1.0	72	斐济以南地区
	22	19											South of Fiji
408	22	13–54–06.3	16.30S	172.54W	30				4.9	4.9	2.0	27	汤加
	22	21											Tonga
409	22	16–19–58.0	66.32N	78.46E	4					5.3	0.7	75	西伯利亚西部
	23	00											Western Siberia
410	22	18–25–00.3	4.54N	95.95E	46	5.0			4.5	5.0	2.0	70	苏门答腊北部
	23	02											Northern Sumatera
411	23	04–11–04.2	49.09N	155.31E	44	4.8			4.5	5.1	1.2	65	千岛群岛
	23	12											Kurile Islands
412	23	05–30–46.8	35.33N	52.17E	10	5.2			4.7	5.0	1.0	73	伊朗
	23	13											Iran

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413	23	07–58–53.5	2.69N	128.14E	97				5.1	1.1	53	马鲁古海峡	
	23	15										Molucca Passage	
414	23	10–58–07.0	35.10N	52.12E	10	5.0		4.1	4.6	1.8	31	伊朗	
	23	18										Iran	
415	23	14–37–23.4	17.92S	178.21W	589				5.0	1.0	40	斐济地区	
	23	22										Fiji region	
416	23	19–53–39.2	2.54S	138.94E	52	5.5	5.7		5.4	1.1	90	西伊里安	
	24	03										West Irian	
417	23	20–57–58.6	42.98N	136.11E	365				4.2	1.0	47	日本海	
	24	04										Sea of Japan	
418	24	03–35–12.1	41.57N	81.48E	15	4.2	4.0		4.2	2.3	31	新疆自治区南部	
	24	11										Southern Xinjiang Province	
419	24	05–19–10.0	2.51S	138.95E	33	5.0	5.4	4.8	5.1	1.1	71	西伊里安	
	24	13										West Irian	
420	24	09–45–11.7	6.08S	151.02E	36			4.4	5.0	1.3	32	新不列颠地区	
	24	17										New Britain region	
421	24	10–37–49.6	16.54S	167.23E	17	4.7		4.7	4.8	1.6	30	瓦努阿图(新赫布里底)	
	24	18										Vanuatu (New Hebrides)	
422	24	23–34–36.9	48.28N	123.60E	14		3.4			2.7	9	中国东北部	
	25	07										North–Eastern China	
423	24	23–43–48.6	7.25S	154.34E	42				4.9	1.2	34	新不列颠地区	
	25	07										New Britain region	
424	25	06–39–58.7	24.23N	102.43E	9		3.6			3.0	11	云南省	
	25	14										Yunnan Province	
425	26	00–01–11.8	5.35N	125.71E	32				4.8	1.8	31	塔劳群岛	
	26	08										Talaud Islands	
426	26	00–18–09.3	10.21S	161.10E	97				5.2	1.2	56	所罗门群岛	
	26	08										Solomon Islands	
427	26	03–20–28.5	27.00N	99.90E	2		3.0			4.9	5	云南省	
	26	11										Yunnan Province	
428	26	07–33–29.7	14.98S	172.76W	87	5.3	5.5		5.1	1.3	45	汤加	
	26	15										Tonga	
429	26	08–42–35.9	11.31N	122.31E	53	4.6	5.2	4.5	5.0	1.1	77	班乃岛	
	26	16										Panay	
430	26	09–26–30.7	7.36S	128.63E	121				5.3	1.0	82	班达海	
	26	17										Banda Sea	
431	26	09–49–31.5	30.05N	51.60E	11			3.9	4.5	2.1	33	伊朗南部	
	26	17										Southern Iran	
432	27	01–25–16.8	11.45N	141.57E	35	5.7	5.7	5.6	5.3	1.2	87	加罗林群岛西部	
	27	09										Western Caroline Islands	
433	27	03–03–25.6	34.78N	141.58E	44	5.1		4.4	5.0	1.8	64	本州东海岸远海	
	27	11										Off east coast of Honshu	
434	27	06–19–35.7	38.25N	106.24E	17		3.7			3.4	6	中国北部	
	27	14										Northern China	
435	27	10–01–57.5	20.66S	169.68E	65				5.2	0.9	44	洛亚尔提群岛地区	
	27	18										Loyalty Islands region	
436	27	10–14–57.6	19.77S	176.23W	5			5.4	5.3	1.6	22	斐济地区	
	27	18										Fiji region	
437	27	15–15–56.6	39.61N	74.17E	12		3.9			2.4	6	塔吉克——新疆边境地区	
	27	23										Tadzhikistan–Xinjiang border region	
438	27	16–30–16.0	15.97S	171.91W	27	5.3	5.6	5.4	6.0	1.0	75	萨摩亚地区	
	28	00										Samoa region	

439	27	19–50–56.8	22.18N	120.49E	51	4.5					2.5	10	台湾地区
	28	03											Taiwan region
440	27	21–00–33.5	25.21N	122.36E	34	4.7				4.6	2.8	24	台湾岛
	28	05											Taiwan
441	28	15–34–53.4	24.17N	122.44E	42	5.0	4.9	5.2	5.2	5.2	1.5	92	台湾岛
	28	23											Taiwan
442	28	17–16–28.6	19.95S	178.61W	614					4.9	0.6	45	斐济地区
	29	01											Fiji region
443	28	19–51–14.1	26.89N	55.85E	33	4.8			3.9	4.8	1.0	51	伊朗南部
	29	03											Southern Iran
444	29	02–52–06.9	9.66N	57.92E	11	4.9			4.4	5.0	1.3	48	卡尔斯伯格海岭
	29	10											Carlsberg Ridge
445	29	21–33–15.1	6.09S	80.26W	5					5.1	2.9	32	秘鲁北部海岸近海
	30	05											Near coast of Northern Peru
446	30	06–54–43.2	19.12N	120.84E	48	4.3	3.9		4.0	4.3	2.4	42	吕宋岛
	30	14											Luzon
447	30	10–30–21.9	19.14N	120.93E	58	4.0					2.1	20	吕宋岛
	30	18											Luzon
448	30	12–46–24.1	7.66N	126.76E	83	4.6				5.1	1.4	82	棉兰老岛
	30	20											Mindanao
449	30	14–26–58.6	23.90N	107.94E	17		3.3				2.3	7	中国东部
	30	22											Eastern China
450	30	14–48–39.7	28.46N	56.29E	75					4.1	1.9	17	伊朗南部
	30	22											Southern Iran
451	30	17–30–20.5	30.00N	51.63E	10	5.1			4.6	4.9	1.3	71	伊朗南部
	31	01											Southern Iran
452	31	05–09–01.4	22.71N	99.95E	15	4.1	4.3	4.3			2.4	23	缅甸——中国边境地区
	31	13											Burma–China border region
453	31	08–00–50.3	36.11N	82.47E	14		3.8				4.0	7	新疆自治区南部
	31	16											Southern Xinjiang Province
454	31	13–08–46.0	8.05S	158.18E	94					4.9	1.2	30	所罗门群岛
	31	21											Solomon Islands
	September	1988											
455	2	07–29–00.1	3.72N	126.40E	32					4.9	1.2	48	塔劳群岛
	2	15											Talaud Islands
456	2	08–12–17.3	31.69N	102.20E	20		3.3				2.3	7	四川省
	2	16											Sichuan Province
457	2	10–27–47.5	54.17N	161.35E	46	5.3			4.9	5.1	1.5	69	堪察加东海岸近海
	2	18											Near east coast of Kamchatka
458	2	19–47–34.4	40.79N	122.43E	9	4.0	4.6			4.3	1.9	44	中国东北部
	3	03											North–Eastern China
459	2	20–02–21.8	40.79N	122.41E	20		3.0				2.1	7	中国东北部
	3	04											North–Eastern China
460	2	20–48–35.5	27.62N	140.78E	194				5.1	5.1	1.1	79	小笠原群岛地区
	3	04											Bonin Islands region
461	2	22–32–43.7	3.39S	138.57E	75					5.3	1.1	71	西伊里安
	3	06											West Irian
462	2	23–08–47.7	8.40S	120.87E	32					4.4	1.5	22	佛罗勒斯地区
	3	07											Flores region
463	2	23–27–29.7	35.67N	81.13E	15		4.2				4.6	8	克什米尔——西藏边境地区
	3	07											Kashmir–Tibet border region

464	3	00–29–42.8	23.43S	179.97W	532					5.1	0.8	17	斐济以南地区
	3	08											South of Fiji
465	3	08–11–50.0	35.17N	52.44E	8	4.7				4.7	1.9	31	伊朗
	3	16											Iran
466	3	08–38–34.5	2.98S	127.73E	50			5.1	4.3	4.8	1.6	43	斯兰岛
	3	16											Seram
467	3	09–09–37.4	18.29S	178.11W	596					5.2	0.7	23	斐济地区
	3	17											Fiji region
468	3	12–52–47.0	29.99N	97.39E	30	5.0	5.5	4.9		5.1	1.8	87	印度——中国边境地区
	3	20											India–China border region
469	3	15–23–38.5	38.91N	103.01E	24		3.2				2.4	6	甘肃省
	3	23											Gansu Province
470	3	15–25–08.7	39.82N	113.80E	10		3.3				2.2	11	中国东北部
	3	23											North–Eastern China
471	3	16–57–44.6	16.40S	171.91W	32				4.6	5.0	1.0	27	萨摩亚地区
	4	00											Samoa region
472	3	17–33–22.8	48.19N	85.38E	21		3.3				3.9	6	哈萨克——新疆边境地区
	4	01											Kazakhstan–Xinjiang border region
473	4	00–32–17.7	21.93N	143.15E	249					5.0	1.0	64	马里亚纳群岛地区
	4	08											Marianas region
474	4	01–32–01.5	8.09S	158.60E	32					4.7	0.9	23	所罗门群岛
	4	09											Solomon Islands
475	4	02–49–58.0	21.89S	179.36W	600					5.3	0.9	36	斐济以南地区
	4	10											South of Fiji
476	4	04–34–00.8	32.42N	93.88E	32	3.4					3.7	11	西藏自治区
	4	12											Tibet
477	4	06–33–05.8	57.88S	25.38W	33					5.1	2.2	10	南桑德韦奇群岛地区
	4	14											South Sandwich Islands region
478	4	07–33–32.8	7.43S	128.25E	123					5.3	1.0	84	班达海
	4	15											Banda Sea
479	4	07–55–17.6	14.65S	168.00E	65					5.2	1.5	28	瓦努阿图(新赫布里底)
	4	15											Vanuatu (New Hebrides)
480	4	08–02–00.2	26.14N	91.85E	32	4.1	3.9			4.0	2.3	30	印度——孟加拉边境地区
	4	16											India–Bangladesh border region
481	4	15–49–20.2	35.52N	139.33E	54	4.8		5.4	4.9	5.3	1.9	74	本州岛
	4	23											Honshu
482	5	06–13–15.4	18.31N	70.58W	2				5.0	5.5	2.3	18	多米尼加共和国地区
	5	14											Dominican Republic region
483	5	09–14–49.7	22.19S	176.11W	145					5.3	1.4	14	斐济以南地区
	5	17											South of Fiji
484	5	11–38–07.3	8.98N	122.61E	38	4.3				4.7	1.3	38	棉兰老岛
	5	19											Mindanao
485	5	19–11–34.9	10.66N	92.76E	35					4.6	1.3	21	安达曼群岛地区
	6	03											Andaman Islands region
486	5	20–03–25.2	34.50N	26.62E	10	5.2			5.0	5.0	1.1	68	克里特岛
	6	04											Crete
487	6	01–18–19.1	42.05N	83.74E	13		4.0				1.9	13	新疆自治区南部
	6	09											Southern Xinjiang Province
488	6	03–19–21.6	26.71N	102.55E	5		3.1				4.4	6	四川省
	6	11											Sichuan Province
489	6	07–09–34.9	47.37N	152.44E	110					4.5	1.3	45	千岛群岛
	6	15											Kurile Islands

490	6	15–47–34.4	42.78S	86.09W	17					5.2	1.2	15	太平洋南部 Southern Pacific Ocean
	6	23											
491	6	16–19–57.0	61.49N	47.94E	8	4.7				4.8	0.9	43	俄罗斯西部 Western Russia
	7	00											
492	6	16–34–23.3	24.75N	122.15E	12	3.8	3.6			4.4	3.3	21	台湾岛 Taiwan
	7	00											
493	6	16–42–04.6	24.72N	121.91E	10	3.9	3.9			4.7	2.7	27	台湾岛 Taiwan
	7	00											
494	6	19–16–40.5	42.16N	41.71E	29	5.2			4.1	5.0	1.3	49	土耳其——苏联边境地区 Turkey–USSR border region
	7	03											
495	6	19–35–51.9	42.04N	83.75E	17		3.8				2.4	10	新疆自治区南部 Southern Xinjiang Province
	7	03											
496	7	04–18–21.3	41.86N	142.33E	85					5.0	1.3	62	北海道地区 Hokkaido region
	7	12											
497	7	07–14–48.9	6.77S	130.16E	107					5.2	0.8	68	班达海 Banda Sea
	7	15											
498	7	09–15–56.7	19.03N	120.97E	43	3.8	4.0			4.2	1.9	46	吕宋岛 Luzon
	7	17											
499	7	11–53–25.3	30.36N	137.35E	497			6.5		6.1	0.8	87	四国东南以远地区 South–east of Shikoku
	7	19											
500	7	18–10–24.3	18.82S	169.02E	38					4.7	1.9	25	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	8	02											
501	7	18–58–21.0	9.47S	160.58E	137					4.8	1.7	16	所罗门群岛 Solomon Islands
	8	02											
502	7	21–47–14.6	42.12N	83.58E	15		3.2				1.7	7	新疆自治区南部 Southern Xinjiang Province
	8	05											
503	8	00–32–33.3	30.23N	137.45E	500					4.1	1.2	25	四国东南以远地区 South–east of Shikoku
	8	08											
504	8	06–12–56.7	42.07N	83.69E	14		3.8				1.9	10	新疆自治区南部 Southern Xinjiang Province
	8	14											
505	8	06–26–00.1	12.67S	166.43E	90					4.8	1.1	62	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	8	14											
506	8	07–37–19.5	42.21N	83.61E	8		3.6				3.0	7	新疆自治区南部 Southern Xinjiang Province
	8	15											
507	8	10–36–55.4	24.96N	122.06E	5	3.9	3.7			4.6	2.3	28	台湾岛 Taiwan
	8	18											
508	8	12–03–51.0	24.88N	122.07E	12	3.6	3.5			4.1	2.2	22	台湾岛 Taiwan
	8	20											
509	8	12–45–23.7	40.13N	122.45E	19		3.0				2.6	6	中国东北部 North–Eastern China
	8	20											
510	8	12–48–36.7	26.22S	176.03W	32			5.5		5.4	1.3	51	斐济以南地区 South of Fiji
	8	20											
511	8	15–42–08.2	24.76N	121.96E	8	4.3	4.0			3.1	2.2	51	台湾岛 Taiwan
	8	23											
512	8	18–54–42.1	24.09N	122.36E	36	4.3	4.2			4.4	1.5	60	台湾岛 Taiwan
	9	02											
513	8	21–10–22.5	42.13N	83.63E	13		3.1				1.7	6	新疆自治区南部 Southern Xinjiang Province
	9	05											
514	8	21–42–34.0	24.77N	121.97E	14	3.7	3.5			4.1	2.7	20	台湾岛 Taiwan
	9	05											
515	8	23–45–43.1	24.53N	65.87E	10	4.5			3.9	5.0	0.8	43	巴基斯坦海岸近海 Near coast of Pakistan
	9	07											

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516	9	09-31-25.5	19.29N	121.12E	18	4.6	4.2	5.4	4.8	4.9	1.9	78	吕宋岛
	9	17											Luzon
517	9	18-25-15.2	4.60S	152.93E	75	4.7				5.1	1.0	77	新不列颠地区
	10	02											New Britain region
518	9	21-12-34.9	36.67N	71.37E	90			5.0		5.4	1.4	71	兴都库什地区
	10	05											Hindu Kush region
519	9	23-07-47.4	7.08S	81.40W	28			5.8	4.8	5.6	1.6	67	秘鲁北部海岸远海
	10	07											Off coast of Northern Peru
520	10	10-09-32.7	3.59S	145.73E	81	4.8				5.1	2.2	39	新几内亚北海岸近海
	10	18											Near north coast of New Guinea
521	10	15-19-15.4	36.13N	70.60E	104					4.6	1.6	21	兴都库什地区
	10	23											Hindu Kush region
522	10	21-23-56.4	6.58S	147.46E	38	4.8			4.9	4.9	1.0	29	新几内亚东部地区
	11	05											Eastern New Guinea region
523	10	21-38-10.5	54.25S	133.56W	4	5.6			5.5	5.3	3.1	20	南太平洋海山
	11	05											South Pacific Cordillera
524	11	01-05-35.5	14.75N	92.51W	68					5.3	1.9	41	墨西哥恰帕斯海岸近海
	11	09											Near coast of Chiapas, Mexico
525	11	04-21-12.8	36.57N	70.59E	199					4.6	1.5	19	兴都库什地区
	11	12											Hindu Kush region
526	11	06-17-42.1	25.39S	179.73E	511			5.4		5.1	0.7	54	斐济以南地区
	11	14											South of Fiji
527	11	11-33-11.6	50.37N	155.30E	120			5.4		5.0	1.1	70	千岛群岛
	11	19											Kurile Islands
528	11	11-36-51.3	19.02N	145.75E	178			5.2		5.3	1.2	49	马里亚纳群岛
	11	19											Marianas
529	11	16-14-54.0	40.61N	77.77E	21		4.0				2.5	13	吉尔吉斯——新疆边境地区
	12	00											Kirgiziya-Xinjiang border region
530	11	17-56-30.6	30.24N	130.93E	57					4.3	3.4	13	琉球群岛
	12	01											Ryukyu Islands
531	11	21-45-22.1	38.10N	23.17E	22					4.5	1.1	21	希腊南部
	12	05											Southern Greece
532	11	21-54-09.8	24.14N	121.56E	17		3.4				2.0	15	台湾岛
	12	05											Taiwan
533	12	03-45-59.7	20.76N	93.95E	34	4.4	5.1			4.6	2.2	61	缅甸
	12	11											Burma
534	12	11-44-50.8	1.02S	127.12E	41	5.0		5.7	4.8	5.4	1.3	77	马鲁古海
	12	19											Molucca Sea
535	12	13-06-53.3	16.58S	172.96E	37				4.2	4.9	1.6	32	瓦努阿图(新赫布里底)地区
	12	21											Vanuatu (New Hebrides) region
536	12	18-16-55.6	30.42N	103.15E	9		3.4				3.2	14	四川省
	13	02											Sichuan Province
537	12	20-19-14.8	66.60N	18.04W	10	5.0			4.6	4.8	1.6	28	冰岛地区
	13	04											Iceland region
538	13	00-58-46.6	29.96N	138.48E	448			5.7		5.5	0.8	89	本州以南地区
	13	08											South of Honshu
539	13	19-45-28.9	13.70N	90.87W	52					5.1	0.9	28	危地马拉海岸近海
	14	03											Near coast of Guatemala
540	13	20-09-23.0	54.36N	161.93W	31					4.8	0.8	21	阿拉斯加以南地区
	14	04											South of Alaska
541	14	03-59-58.9	49.85N	78.87E	13	5.0		5.5	4.5	6.1	1.2	82	哈萨克东部
	14	11											Eastern Kazakhstan

542	14	05-04-25.9	44.59N	148.67E	35				4.7	1.7	15	千岛群岛
	14	13										Kurile Islands
543	14	05-48-54.3	29.03N	111.02E	13		3.1			4.4	7	中国东部
	14	13										Eastern China
544	14	10-03-41.4	22.09S	170.14E	69				5.0	1.0	48	洛亚尔提群岛地区
	14	18										Loyalty Islands region
545	14	11-23-53.2	22.12S	170.09E	53			4.7	4.7	1.0	32	洛亚尔提群岛地区
	14	19										Loyalty Islands region
546	14	13-13-50.9	51.77N	167.98W	48			4.1	5.2	0.9	60	福克斯群岛
	14	21										Fox Islands
547	14	14-54-54.0	22.13S	169.39E	26				4.4	4.4	6	新喀里多尼亚
	14	22										New Caledonia
548	14	18-27-44.1	39.98N	75.40E	31		3.8			3.2	7	新疆自治区南部
	15	02										Southern Xinjiang Province
549	14	20-11-31.9	42.26N	143.02E	73	4.6		5.5	4.9	1.2	70	北海道地区
	15	04										Hokkaido region
550	14	22-14-10.4	23.23S	68.60W	141			5.8	5.7	1.1	77	智利北部
	15	06										Northern Chile
551	15	08-58-00.6	16.69S	172.72W	32			5.5	5.0 4.8	1.5	29	汤加
	15	16										Tonga
552	15	15-24-31.6	24.24N	123.85E	36		3.4			3.0	12	琉球群岛西南部
	15	23										South-western Ryukyu Islands
553	15	18-18-55.1	36.06N	140.02E	71				4.3	1.4	14	本州南海岸近海
	16	02										Near south coast of Honshu
554	15	18-48-01.1	1.41S	78.07W	174			5.9	5.8	2.2	66	厄瓜多尔
	16	02										Ecuador
555	15	21-46-52.4	35.42N	141.00E	66				4.7	2.1	18	本州东海岸近海
	16	05										Near east coast of Honshu
556	16	00-06-52.1	23.10S	175.00W	33			4.9	4.8	1.0	24	汤加地区
	16	08										Tonga region
557	16	02-16-18.6	20.51S	178.37W	549				5.1	0.7	39	斐济地区
	16	10										Fiji region
558	16	03-09-50.1	1.08S	126.81E	36				5.0	2.0	30	马鲁古海
	16	11										Molucca Sea
559	16	06-27-29.4	17.98S	169.20E	29	5.5		6.0	5.4 5.2	2.4	62	瓦努阿图(新赫布里底)
	16	14										Vanuatu (New Hebrides)
560	16	06-30-28.6	37.45N	102.64E	10		3.2			3.4	8	青海省
	16	14										Qinghai Province
561	16	11-39-19.9	30.85N	103.79E	17		3.1			3.2	8	四川省
	16	19										Sichuan Province
562	16	20-33-53.2	12.49S	166.58E	353				4.8	0.9	24	圣克鲁斯群岛
	17	04										Santa Cruz Islands
563	17	01-58-27.0	31.39N	104.16E	27	4.1	3.8			3.2	18	四川省
	17	09										Sichuan Province
564	17	02-45-37.5	51.08N	179.26W	34	5.0			4.6 5.2	1.2	51	安德烈亚诺夫群岛
	17	10										Andreanof Islands
565	17	04-14-48.7	24.33N	120.97E	19	3.3	3.6			2.2	20	台湾岛
	17	12										Taiwan
566	17	10-09-28.6	40.05N	77.55E	20		3.5			4.7	6	新疆自治区南部
	17	18										Southern Xinjiang Province
567	17	10-53-11.1	39.95N	77.43E	22		4.0			4.7	9	新疆自治区南部
	17	18										Southern Xinjiang Province

568	17	14–26–37.2	26.22N	128.74E	42	4.4			4.3	1.7	15	琉球群岛
	17	22										Ryukyu Islands
569	17	15–23–49.4	45.25N	152.53E	4	5.0		5.4	4.7	5.4	1.8	70	千岛群岛地区
	17	23										Kurile Islands region
570	17	16–45–07.0	25.19N	95.11E	118					4.6	2.0	44	缅甸——印度边境地区
	18	00										Burma–India border region
571	17	21–01–49.8	38.65N	77.01E	24	3.7	3.8				3.5	9	新疆自治区南部
	18	05										Southern Xinjiang Province
572	17	23–34–24.8	25.88N	116.27E	20	3.8	4.0				2.2	22	中国东部
	18	07										Eastern China
573	18	01–43–01.3	22.08S	179.43W	583					4.6	1.0	20	斐济以南地区
	18	09										South of Fiji
574	18	06–39–11.0	41.82N	88.79E	11		3.6				2.7	8	新疆自治区南部
	18	14										Southern Xinjiang Province
575	18	10–33–09.2	27.09N	104.40E	14	3.9	3.3				2.6	11	云南省
	18	18										Yunnan Province
576	18	11–18–06.0	2.42S	140.13E	33			4.3	4.7	1.1	42	西伊里安北海岸近海
	18	19										Near north coast of West Irian
577	18	13–06–10.2	29.75N	141.53E	70					4.8	2.0	30	本州以南地区
	18	21										South of Honshu
578	18	15–38–26.3	24.58N	122.23E	80	4.7		5.5		5.3	1.5	92	台湾岛
	18	23										Taiwan
579	18	19–24–41.7	27.24N	104.43E	17		3.5				2.7	15	云南省
	19	03										Yunnan Province
580	18	19–58–56.9	27.04N	104.32E	17		3.0				3.2	9	云南省
	19	03										Yunnan Province
581	18	20–14–00.8	27.04N	104.48E	17		3.0				2.7	9	云南省
	19	04										Yunnan Province
582	19	00–18–34.4	31.69N	141.71E	33	4.3			4.8	4.9	1.2	39	本州以南地区
	19	08										South of Honshu
583	19	01–03–11.2	14.63N	119.94E	42	4.6			4.5	5.0	1.8	46	吕宋岛
	19	09										Luzon
584	19	03–04–09.1	21.91N	94.26E	93					4.6	1.9	28	缅甸
	19	11										Burma
585	19	07–02–57.1	31.06N	99.56E	18		3.4				2.3	11	四川省
	19	15										Sichuan Province
586	19	12–52–16.0	51.51N	179.58E	69					4.7	1.0	24	拉特群岛
	19	20										Rat Islands
587	19	18–08–16.1	15.04S	178.94W	412					4.7	1.6	13	斐济地区
	20	02										Fiji region
588	19	18–58–38.9	23.25S	175.09W	49	5.4		5.8	5.4	5.3	0.9	58	汤加地区
	20	02										Tonga region
589	19	19–50–18.8	6.92S	129.44E	152					5.2	1.2	57	班达海
	20	03										Banda Sea
590	20	00–25–51.2	53.13N	154.12E	481					4.3	0.9	52	千岛群岛西北以远地区
	20	08										North–west of Kurile Islands
591	20	00–57–48.6	23.35S	175.29W	32					4.8	0.8	18	汤加地区
	20	08										Tonga region
592	20	04–02–47.6	4.20S	132.91E	26					5.1	0.9	51	西伊里安地区
	20	12										West Irian region
593	20	11–58–10.8	15.91N	120.24E	11	4.4			4.1	5.0	1.6	55	吕宋岛
	20	19										Luzon

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594	20	14-44-21.1	31.47S	179.55W	188				5.4	0.9	41	克马德克群岛地区		
	20	22										Kermadec Islands region		
595	20	16-26-18.6	7.92S	123.11E	224				4.7	1.2	53	佛罗勒斯地区		
	21	00										Flores region		
596	20	17-56-15.9	4.76N	77.46W	16	5.8		5.5	5.6	2.0	60	哥伦比亚西海岸近海		
	21	01										Near west coast of Colombia		
597	20	19-16-09.2	6.23S	129.09E	250				5.1	0.6	28	班达海		
	21	03										Banda Sea		
598	20	21-11-21.0	40.69N	82.11E	11		3.1			3.8	7	新疆自治区南部		
	21	05										Southern Xinjiang Province		
599	20	22-43-26.7	42.34N	144.71E	34	4.5		4.5	5.3	1.1	77	北海道地区		
	21	06										Hokkaido region		
600	21	01-53-00.6	42.29N	82.33E	5		3.3			3.5	8	新疆自治区南部		
	21	09										Southern Xinjiang Province		
601	21	09-58-52.8	46.19N	152.33E	52	4.9			5.9	1.0	81	千岛群岛		
	21	17										Kurile Islands		
602	21	11-04-50.5	22.21S	170.93E	80				5.4	1.2	40	洛亚尔提群岛地区		
	21	19										Loyalty Islands region		
603	21	13-51-14.2	28.62N	85.64E	55		4.1		4.7	1.4	40	尼泊尔		
	21	21										Nepal		
604	21	13-57-44.4	1.50S	77.91W	154				4.9	1.9	26	厄瓜多尔		
	21	21										Ecuador		
605	21	16-12-24.9	38.00N	106.24E	5		3.5			2.8	14	中国北部		
	22	00										Northern China		
606	21	16-42-51.0	30.21N	51.60E	10	4.9		4.5	4.9	1.6	54	伊朗南部		
	22	00										Southern Iran		
607	21	22-51-38.0	14.89N	123.33E	48			4.0	4.8	1.2	30	吕宋岛		
	22	06										Luzon		
608	21	23-59-29.7	16.56S	172.16W	32			5.5	5.3	5.4	0.8	34	汤加地区	
	22	07										Tonga region		
609	22	02-00-37.8	29.35N	68.21E	32	4.6			4.2	4.6	1.1	41	巴基斯坦	
	22	10										Pakistan		
610	22	09-24-51.2	45.25N	117.15E	14		3.9				2.9	15	中国东北部	
	22	17										North-Eastern China		
611	22	12-05-36.7	37.97N	21.07E	16				4.2	5.0	1.5	59	爱奥尼亚海	
	22	20										Ionian Sea		
612	22	20-32-03.2	2.81N	130.12E	21					4.1	2.8	13	查伊洛洛贾洛洛(哈马黑拉)岛	
	23	04										Djailolo Gilolo (Halmahera)		
613	22	22-28-44.0	23.89N	167.02W	18				4.6	5.5	1.5	45	夏威夷群岛地区	
	23	06										Hawaiian Islands region		
614	23	03-39-35.5	4.89S	101.89E	72	5.4		5.6		5.1	1.2	74	苏门答腊西南以远地区	
	23	11										South-west of Sumatera		
615	23	04-46-39.1	39.61N	74.48E	24	5.0			4.8	5.3	1.6	64	塔吉克——新疆边境地区	
	23	12										Tadzhikistan-Xinjiang border region		
616	23	06-07-21.3	40.02N	74.19E	8		4.3				2.6	10	塔吉克——新疆边境地区	
	23	14										Tadzhikistan-Xinjiang border region		
617	23	07-46-21.3	11.46N	124.58E	53	4.7			4.5	5.0	1.5	42	莱特岛	
	23	15										Leyte		
618	23	18-04-35.7	24.20N	122.16E	67	4.2	4.1			4.2	2.3	45	台湾岛	
	24	02										Taiwan		
619	24	08-10-45.3	52.11N	168.02W	34					5.2	0.9	60	福克斯群岛	
	24	16										Fox Islands		

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620	24	11–12–40.3	43.44N	88.80E	15		3.8			1.8	7	新疆自治区北部
	24	19										Northern Xinjiang Province
621	24	11–29–00.8	6.72S	147.44E	29	5.1		4.9	5.3	2.8	46	新几内亚东部地区
	24	19										Eastern New Guinea region
622	25	01–04–22.4	42.80S	86.12W	18				5.4	1.5	22	太平洋南部
	25	09										Southern Pacific Ocean
623	25	07–01–14.4	7.48S	109.41E	152				5.3	1.9	27	爪哇岛
	25	15										Java
624	25	09–58–26.0	23.14N	117.43E	31		3.2			1.5	7	中国东南沿海
	25	17										Near south–eastern coast of China
625	25	19–41–09.8	36.39N	70.65E	144			5.1	4.9	1.4	49	兴都库什地区
	26	03										Hindu Kush region
626	25	20–05–32.5	30.62N	137.69E	483				4.4	0.7	46	本州以南地区
	26	04										South of Honshu
627	25	20–52–15.2	37.19N	71.88E	13	5.5		5.4	5.0 5.5	1.3	78	阿富汗——苏联边境地区
	26	04										Afghanistan–USSR border region
628	25	21–28–04.7	36.51N	70.72E	211			5.9	5.6	0.9	88	兴都库什地区
	26	05										Hindu Kush region
629	26	01–29–26.9	24.03N	126.68E	14	4.9	4.9	5.5	5.1 5.4	1.5	89	琉球群岛地区
	26	09										Ryukyu Islands region
630	26	07–16–59.3	36.52N	71.47E	90			5.5	5.6	1.2	88	兴都库什地区
	26	15										Hindu Kush region
631	26	08–23–18.3	35.44N	140.91E	32	5.4		5.6	5.5 5.9	1.7	88	本州东海岸近海
	26	16										Near east coast of Honshu
632	26	13–31–06.8	0.30S	125.16E	55	5.0		5.4	5.5	1.2	81	马鲁古海
	26	21										Molucca Sea
633	26	14–03–56.5	10.14N	126.04E	75	4.8		5.4	5.5	0.9	77	棉兰老岛
	26	22										Mindanao
634	26	18–31–27.5	26.50S	177.40W	33				4.6 4.8	1.5	13	克马德克群岛地区
	27	02										Kermadec Islands region
635	26	21–07–18.8	26.57S	177.45W	32	5.2			5.4 5.4	1.2	30	克马德克群岛地区
	27	05										Kermadec Islands region
636	27	19–10–09.3	27.19N	88.35E	32	4.6			5.0 5.0	1.9	63	尼泊尔——印度边境地区
	28	03										Nepal–India border region
637	28	04–49–11.5	20.55S	178.80W	638				4.8	0.9	31	斐济地区
	28	12										Fiji region
638	29	06–59–59.0	41.80N	88.45E	8	3.6	4.4			2.3	36	新疆自治区南部
	29	14										Southern Xinjiang Province
639	29	08–23–33.8	35.84N	139.38E	24	4.5			3.9 4.8	1.8	49	本州岛
	29	16										Honshu
640	29	17–38–54.6	35.83N	139.28E	47	4.0			3.8 4.6	2.5	26	本州岛
	30	01										Honshu
641	30	00–34–04.1	5.83N	61.41E	3	5.2			4.7	2.0	29	卡尔斯伯格海岭
	30	08										Carlsberg Ridge
642	30	03–15–50.6	4.64N	126.86E	105				5.0	1.2	54	塔劳群岛
	30	11										Talaud Islands
643	30	03–23–47.5	19.69S	68.78W	107				5.3	1.5	48	智利北部
	30	11										Northern Chile
644	30	04–50–02.9	61.28N	151.68W	113				4.7	0.9	44	阿拉斯加州南部
	30	12										Southern Alaska
645	30	05–45–55.9	4.83S	144.69E	95			5.9	5.5	1.2	75	新几内亚
	30	13										New Guinea

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646	30	08–27–52.5	7.38S	128.49E	141			5.9	5.5	0.9	82	班达海	Banda Sea
	30	16											
647	30	10–40–50.6	6.98S	155.59E	79				4.8	1.7	17	所罗门群岛	Solomon Islands
	30	18											
648	30	12–23–32.8	29.95N	99.12E	10		3.5			2.4	16	西藏自治区	Tibet
	30	20											
649	30	18–29–57.7	4.86S	144.66E	95				5.1	1.3	52	新几内亚	New Guinea
	1	02											
650	30	20–42–57.9	19.87S	134.14E	5				5.3	1.1	43	澳北区	Northern Territory, Australia
	1	04											
651	30	21–45–00.9	19.39S	177.34W	554			5.6	5.8	0.7	65	斐济地区	Fiji region
	1	05											
652	30	23–14–09.3	38.74N	99.54E	16	4.4	4.5		4.2	2.4	48	青海省	Qinghai Province
	1	07											
	October 1988												
653	1	09–43–26.0	35.28S	105.90W	18	6.0			5.7	5.6	2.9	63	复活节岛海山
	1	17											Easter Island Cordillera
654	1	10–17–25.2	35.42N	82.82E	18		4.4				2.6	6	西藏自治区
	1	18											Tibet
655	1	10–35–38.1	29.31N	104.14E	5		3.6		3.8		2.5	19	四川省
	1	18											Sichuan Province
656	1	23–32–15.8	38.65N	99.65E	13	3.9	4.7		3.5	2.7	27	青海省	Qinghai Province
	2	07											
657	2	06–47–07.9	40.54N	123.29E	4	3.6	4.1			2.3	16	中国东北部	North–Eastern China
	2	14											
658	2	11–52–46.2	7.27S	128.55E	146				5.1	1.1	46	班达海	Banda Sea
	2	19											
659	2	19–25–29.4	3.20S	130.66E	32				3.5	4.6	1.1	27	斯兰岛
	3	03											Seram
660	2	20–43–35.7	24.30N	127.13E	61	4.2	3.8		4.9	2.4	25	琉球群岛地区	Ryukyu Islands region
	3	04											
661	3	00–24–50.5	38.73N	70.79E	41	4.7	4.8		4.4	4.8	1.2	44	阿富汗——苏联边境地区
	3	08											Afghanistan–USSR border region
662	3	00–45–49.7	10.20S	161.60E	72	5.0			5.5	1.3	71	所罗门群岛	Solomon Islands
	3	08											
663	3	06–30–57.7	38.41N	106.23E	11		3.8			3.2	9	中国北部	Northern China
	3	14											
664	3	12–40–14.1	36.13N	27.43E	23				4.3	1.4	27	克里特岛	Crete
	3	20											
665	3	13–24–51.1	12.18N	93.63E	42				4.6	2.0	17	安达曼群岛地区	Andaman Islands region
	3	21											
666	3	19–24–38.2	36.42S	52.97E	8				5.1	0.8	22	大西洋——印度洋海岭	Atlantic–Indian Ridge
	4	03											
667	4	08–38–25.5	40.79N	122.97E	13	3.9	4.1			2.5	18	中国东北部	North–Eastern China
	4	16											
668	4	15–13–04.2	55.85S	27.70W	31			5.0	5.4	2.3	21	南桑德韦奇群岛地区	South Sandwich Islands region
	4	23											
669	4	15–37–53.7	3.45S	150.59E	12	5.9		6.1	6.0	5.5	1.4	83	新爱尔兰地区
	4	23											New Ireland region
670	4	21–20–11.2	39.91N	143.16E	43				4.4	2.2	23	本州东海岸近海	Near east coast of Honshu
	5	05											

671	5 5	01–00–07.3 09	14.73S	167.53E	162				5.4	0.8	48	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
672	5 5	02–30–53.7 10	31.10N	104.52E	10		3.6			3.6	14	四川省 Sichuan Province
673	5 5	09–20–17.5 17	3.37S	150.91E	32	5.1		5.5	5.0 5.0	1.4	60	新爱尔兰地区 New Ireland region
674	5 5	09–44–41.6 17	1.94S	128.07E	53	4.8			4.8 5.1	1.0	54	斯兰海 Ceram Sea
675	5 6	17–10–24.1 01	42.37N	85.80E	17		3.3			2.6	8	新疆自治区南部 Southern Xinjiang Province
676	5 6	17–37–56.7 01	4.23S	141.73E	46				4.9	1.6	33	新几内亚 New Guinea
677	5 6	18–47–39.7 02	12.10N	125.59E	47	4.6			4.5 4.8	1.1	53	萨马岛 Samar
678	5 6	23–10–29.8 07	3.15N	126.78E	32				5.1	0.9	65	马鲁古海峡 Molucca Passage
679	6 6	05–32–18.1 13	12.30N	141.93E	25	4.7			4.4 5.2	0.7	29	加罗林群岛西部 Western Caroline Islands
680	6 6	09–05–53.6 17	25.66N	99.15E	5		3.4			3.0	8	缅甸——中国边境地区 Burma–China border region
681	6 6	11–59–21.6 19	6.05S	105.45E	89	4.9			5.0	1.9	31	巽他海峡 Sunda Strait
682	6 6	13–10–54.1 21	39.69N	74.47E	38	4.4	4.4		4.7 5.0	2.3	33	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
683	6 7	18–22–55.1 02	39.65N	74.41E	35	4.2	4.7		4.2 4.9	2.0	42	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
684	6 7	22–30–08.3 06	10.55S	123.41E	32					1.4	29	帝汶以南地区 South of Timor
685	7 7	00–48–18.8 08	41.86N	84.90E	10		3.2			2.8	7	新疆自治区南部 Southern Xinjiang Province
686	7 7	02–55–38.3 10	3.14S	137.31E	33				4.5 5.3	0.8	26	西伊里安 West Irian
687	7 7	13–17–32.3 21	41.65N	81.08E	8		3.4			2.3	9	新疆自治区南部 Southern Xinjiang Province
688	7 7	14–16–51.4 22	31.13N	99.23E	6		3.0			2.6	5	西藏自治区 Tibet
689	7 8	18–10–37.5 02	17.74S	178.48W	534				5.3	0.9	28	斐济地区 Fiji region
690	7 8	18–41–36.0 02	10.79S	165.99E	204				4.7	1.8	14	圣克鲁斯群岛 Santa Cruz Islands
691	7 8	23–43–46.0 07	4.09N	126.53E	33				4.4 4.7	1.4	38	塔劳群岛 Talaud Islands
692	8 8	00–39–27.7 08	39.04N	74.11E	16		4.0			3.5	7	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
693	8 8	02–06–59.7 10	25.75N	99.21E	15		3.6			3.0	10	缅甸——中国边境地区 Burma–China border region
694	8 8	02–19–35.8 10	53.73N	163.10W	32	4.9			4.5 5.0	0.8	68	乌尼马克岛地区 Unimak Island region
695	8 8	04–46–27.6 12	18.58S	172.32W	61	6.9		7.1	6.8 6.6	1.3	100	汤加地区 Tonga region
696	8 8	06–20–04.1 14	35.15N	23.43E	34				4.4	1.4	38	地中海 Mediterranean Sea

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697	8 8 15	07–34–17.8	18.95S	172.23W	31					5.4	1.4	27	汤加地区 Tonga region
698	8 8 22	14–39–49.0	28.80N	130.34E	38	5.2		5.4	4.9	5.2	1.7	84	琉球群岛 Ryukyu Islands
699	8 8 23	15–10–06.7	34.91N	103.78E	5		3.6				2.9	16	甘肃省 Gansu Province
700	8 9 00	16–56–07.3	4.06N	126.48E	33					5.0	1.2	39	塔劳群岛 Talaud Islands
701	8 9 01	17–32–10.0	23.74S	179.92E	563					4.8	1.4	19	斐济以南地区 South of Fiji
702	8 9 05	21–16–51.2	4.11N	126.58E	31					4.6	1.4	11	塔劳群岛 Talaud Islands
703	8 9 05	21–32–02.0	4.17N	126.58E	30	5.6		6.0	5.4	5.6	1.1	95	塔劳群岛 Talaud Islands
704	8 9 06	22–06–26.5	33.43N	139.24E	224						1.5	50	本州以南地区 South of Honshu
705	9 9 08	00–30–00.2	30.55N	137.76E	494			5.1		5.1	0.7	87	本州以南地区 South of Honshu
706	9 9 09	01–08–46.1	4.20N	126.75E	33				3.7	4.8	1.0	15	塔劳群岛 Talaud Islands
707	9 9 12	04–16–55.0	4.24N	126.64E	49	4.8			4.6	5.4	1.0	75	塔劳群岛 Talaud Islands
708	9 9 13	05–35–44.1	4.03N	126.47E	83					4.1	2.0	14	塔劳群岛 Talaud Islands
709	9 9 16	08–02–54.1	44.87N	150.23E	34					4.9	0.9	68	千岛群岛 Kurile Islands
710	9 9 20	12–03–23.7	38.67N	76.92E	25		3.9				3.0	11	新疆自治区南部 Southern Xinjiang Province
711	9 10 00	16–14–16.1	7.31S	146.62E	142					5.1	1.2	71	新几内亚东部地区 Eastern New Guinea region
712	9 10 01	17–03–54.9	35.24S	103.41W	5				4.7	5.3	2.4	34	太平洋南部 Southern Pacific Ocean
713	9 10 06	22–05–03.5	24.92N	94.71E	63					4.5	2.3	37	缅甸——印度边境地区 Burma–India border region
714	9 10 06	22–41–07.0	9.66S	108.84E	24	5.3		5.7	5.2	5.1	1.5	70	爪哇以南地区 South of Java
715	10 10 12	04–41–10.7	38.68N	116.14E	12		3.1				1.5	7	中国东北部 North–Eastern China
716	10 10 13	05–52–09.5	42.69N	144.49E	56	5.2		5.9		5.8	1.2	92	北海道地区 Hokkaido region
717	10 10 14	06–31–27.2	13.65S	166.52E	34	5.1		5.7	5.2	5.3	1.2	70	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
718	10 10 14	06–56–28.6	44.85N	147.69E	134					4.9	1.3	66	千岛群岛 Kurile Islands
719	10 10 15	07–19–21.6	22.66S	171.93E	39	5.3			5.4	5.7	1.1	70	洛亚尔提群岛地区 Loyalty Islands region
720	10 10 18	10–27–16.4	23.79N	121.82E	33	3.9	4.0			3.8	2.0	25	台湾岛 Taiwan
721	10 10 18	10–31–14.8	13.62S	166.15E	74					5.8	1.9	18	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
722	10 11 02	18–13–41.8	10.04S	123.14E	77					5.2	1.2	45	萨武海 Savu Sea

723	10	18–20–30.2	28.47S	177.39W	68	5.9		6.6	6.0	6.5	1.0	94	克马德克群岛地区
	11	02											Kermadec Islands region
724	10	19–26–40.7	5.84S	103.16E	36	5.4		5.6	5.2	5.5	1.0	83	苏门答腊西南以远地区
	11	03											South–west of Sumatera
725	11	00–39–04.4	35.44N	101.97E	14		3.3				3.5	10	青海省
	11	08											Qinghai Province
726	11	01–53–18.8	25.69S	179.63E	581					5.3	1.1	27	斐济以南地区
	11	09											South of Fiji
727	11	14–08–16.1	36.44N	71.02E	230					4.3	1.5	18	兴都库什地区
	11	22											Hindu Kush region
728	11	20–33–47.0	42.22N	84.84E	10		3.3				2.7	8	新疆自治区南部
	12	04											Southern Xinjiang Province
729	12	03–27–00.5	44.40N	148.46E	56					5.4	1.6	81	千岛群岛
	12	11											Kurile Islands
730	12	08–20–12.4	39.36N	142.59E	56	4.4				4.6	1.8	39	本州东海岸近海
	12	16											Near east coast of Honshu
731	12	10–46–05.6	24.83N	121.77E	106					4.9	1.4	62	台湾岛
	12	18											Taiwan
732	12	18–04–38.5	54.00N	160.84E	29	4.5			4.3	5.2	1.2	53	堪察加东海岸近海
	13	02											Near east coast of Kamchatka
733	12	23–11–31.2	39.67N	74.29E	18		3.9				3.9	7	塔吉克——新疆边境地区
	13	07											Tadzhikistan–Xinjiang border region
734	12	23–49–40.4	36.33N	103.26E	11	3.3	4.0				2.8	23	青海省
	13	07											Qinghai Province
735	13	00–32–11.7	61.90N	169.62E	33	6.2		6.1	5.5	5.5	1.1	86	西伯利亚东部
	13	08											Eastern Siberia
736	13	04–16–16.8	32.59N	100.00E	8		3.8				1.5	8	四川省
	13	12											Sichuan Province
737	13	12–55–24.1	45.67N	85.37E	11	4.2	4.1				2.2	13	新疆自治区北部
	13	20											Northern Xinjiang Province
738	13	13–08–16.8	4.09N	126.38E	155					4.7	1.3	40	塔劳群岛
	13	21											Talaud Islands
739	13	13–59–58.2	37.00N	116.07W	4				4.4	5.9	0.9	51	加利福尼亚州——内华达州边境地区
	13	21											California–Nevada border region
740	13	19–01–39.1	22.64S	171.39E	34					4.6	1.0	19	洛亚尔提群岛地区
	14	03											Loyalty Islands region
741	14	03–15–26.2	40.25N	104.70E	5		3.5				1.6	11	中国北部
	14	11											Northern China
742	14	03–26–17.3	7.12S	129.27E	123					5.0	1.2	16	班达海
	14	11											Banda Sea
743	14	16–12–21.8	40.14N	19.68E	49				3.5	4.7	1.2	41	希腊——阿尔巴尼亚边境地区
	15	00											Greece–Albania border region
744	14	19–11–39.9	23.08S	68.47W	85					5.3	1.2	35	智利北部
	15	03											Northern Chile
745	15	08–26–22.4	38.31N	126.34E	11		4.0			4.8	3.1	23	南朝鲜
	15	16											South Korea
746	15	16–39–01.8	12.65N	124.00E	49					4.6	2.7	14	吕宋岛
	16	00											Luzon
747	15	18–03–53.4	5.92S	130.53E	74					5.0	1.2	56	班达海
	16	02											Banda Sea
748	15	20–44–15.0	30.66N	138.80E	394					4.5	1.4	29	本州以南地区
	16	04											South of Honshu

749	16	04-37-39.1	39.74N	72.03E	33	4.1	4.3		4.0	4.6	1.9	22	塔吉克
	16	12											Tadzhikistan
750	16	06-15-29.1	37.66N	25.45W	9	5.5			5.0	5.1	2.0	33	亚速尔群岛
	16	14											Azores
751	16	09-40-19.3	12.08N	143.67E	17	4.7			4.6	5.4	1.4	58	马里亚纳群岛以南地区
	16	17											South of the Marianas
752	16	12-09-27.3	21.91N	121.71E	31	6.2	5.3	6.2	5.8	5.3	1.7	105	台湾地区
	16	20											Taiwan region
753	16	12-14-20.2	21.83N	121.72E	33	5.8	5.1			5.2	1.8	41	台湾地区
	16	20											Taiwan region
754	16	12-34-05.9	37.97N	20.98E	38	5.7			5.8	5.5	1.8	45	爱奥尼亚海
	16	20											Ionian Sea
755	16	12-36-57.7	21.75N	121.66E	27	4.8	4.8			5.2	1.9	72	台湾地区
	16	20											Taiwan region
756	16	16-23-28.8	5.86N	125.39E	89					5.1	1.3	57	棉兰老岛
	17	00											Mindanao
757	17	04-13-47.5	41.00N	113.31E	11		3.1				1.1	6	中国东北部
	17	12											North-Eastern China
758	17	05-07-22.0	21.89N	121.67E	21		3.7			4.8	2.0	39	台湾地区
	17	13											Taiwan region
759	17	05-56-53.3	51.39N	159.24E	36	5.7		5.7	5.1	5.5	1.1	96	千岛群岛地区
	17	13											Kurile Islands region
760	17	06-07-12.9	51.61N	158.90E	30	5.3			5.1	5.2	1.1	71	堪察加东海岸近海
	17	14											Near east coast of Kamchatka
761	17	10-53-54.2	23.06S	171.27E	33				4.6	4.8	1.3	24	洛亚尔提群岛地区
	17	18											Loyalty Islands region
762	17	21-09-19.7	38.66N	80.10E	37		3.6				2.7	7	新疆自治区南部
	18	05											Southern Xinjiang Province
763	17	22-06-47.9	30.14N	99.58E	30	3.8	3.4				2.7	14	四川省
	18	06											Sichuan Province
764	17	23-57-46.7	45.56N	150.07E	46					5.2	1.9	59	千岛群岛
	18	07											Kurile Islands
765	18	03-40-07.7	49.92N	78.12E	11		4.6			4.9	1.4	33	哈萨克东部
	18	11											Eastern Kazakhstan
766	18	09-40-20.9	12.18N	124.87E	138					5.0	1.1	70	莱特岛
	18	17											Leyte
767	18	13-05-07.6	18.33S	178.14W	447					4.9	1.0	22	斐济地区
	18	21											Fiji region
768	18	16-35-33.6	23.97S	69.64E	10					5.3	1.0	28	中印度洋海丘
	19	00											Mid-Indian Rise
769	18	18-01-48.3	52.32N	173.96W	90					4.7	1.1	29	安德烈亚诺夫群岛
	19	02											Andreanof Islands
770	19	00-08-39.7	37.04N	141.58E	41	5.4		5.7	5.4	5.8	1.5	101	本州东海岸近海
	19	08											Near east coast of Honshu
771	19	10-22-11.9	8.76S	121.51E	40					4.8	1.7	16	萨武海
	19	18											Savu Sea
772	19	14-19-30.1	30.10N	94.86E	33	4.6				4.8	2.2	58	印度——中国边境地区
	19	22											India-China border region
773	19	19-51-37.0	47.80N	151.38E	184			5.5		5.2	1.1	80	千岛群岛
	20	03											Kurile Islands
774	20	02-30-54.4	4.67S	153.27E	69	5.1				5.4	1.2	72	新不列颠地区
	20	10											New Britain region

775	20	14–00–58.9	40.58N	22.94E	32				4.7	4.4	0.9	27	希腊
	20	22											Greece
776	20	14–26–09.9	43.89N	83.60E	26		3.6				1.9	8	新疆自治区北部
	20	22											Northern Xinjiang Province
777	20	19–31–39.2	18.82N	144.83E	34	4.8		5.3	4.6	5.0	1.0	64	马里亚纳群岛
	21	03											Marianas
778	21	06–45–23.4	51.98N	174.83W	79					4.6	1.0	25	安德烈亚诺夫群岛
	21	14											Andreanof Islands
779	21	08–51–40.5	15.21S	168.30E	27					5.3	0.9	58	瓦努阿图(新赫布里底)
	21	16											Vanuatu (New Hebrides)
780	21	12–50–32.0	34.12N	122.21E	15		3.1				2.4	8	黄海
	21	20											Yellow Sea
781	21	13–56–11.9	37.30N	112.21E	11		3.0				1.7	13	中国东部
	21	21											Eastern China
782	21	18–10–47.2	36.81N	71.25E	189					4.3	1.3	17	兴都库什地区
	22	02											Hindu Kush region
783	21	18–19–37.1	36.04N	81.26E	5		4.1				2.0	8	克什米尔——西藏边境地区
	22	02											Kashmir–Tibet border region
784	21	18–34–12.7	35.97N	81.06E	5		3.9				3.8	6	克什米尔——西藏边境地区
	22	02											Kashmir–Tibet border region
785	22	00–11–07.4	20.74N	102.69E	14	4.5	4.8			4.0	2.3	33	印度支那半岛
	22	08											Indo–Pacific Peninsula
786	22	03–37–45.9	43.08N	83.25E	5		3.0				2.2	6	新疆自治区北部
	22	11											Northern Xinjiang Province
787	22	12–16–19.0	49.13N	155.98E	35				4.1	4.8	1.4	22	千岛群岛
	22	20											Kurile Islands
788	22	13–41–19.2	3.44N	96.39E	64					4.9	1.7	16	北苏门答腊西海岸远海
	22	21											Off west coast of Northern Sumatera
789	22	16–04–12.1	49.18N	155.96E	46	5.4			5.3	5.6	1.3	88	千岛群岛
	23	00											Kurile Islands
790	22	20–17–27.5	33.30N	96.45E	15	4.1	3.9			4.8	2.6	25	西藏自治区
	23	04											Tibet
791	23	00–23–27.2	20.09S	176.03W	210			5.8		5.6	0.7	62	斐济地区
	23	08											Fiji region
792	23	03–41–21.2	32.58N	93.83E	16	4.5	4.9			4.8	2.3	58	西藏自治区
	23	11											Tibet
793	23	06–37–43.7	49.29N	155.88E	26	5.9		5.7	5.6	5.6	1.0	95	千岛群岛
	23	14											Kurile Islands
794	23	11–43–09.4	20.23N	94.36E	74	4.7				5.2	1.6	89	缅甸
	23	19											Burma
795	23	13–31–52.1	49.73N	155.57E	21	5.1			5.3	5.1	1.4	67	千岛群岛
	23	21											Kurile Islands
796	23	13–38–09.1	49.54N	155.91E	20	5.5			5.2	5.4	1.4	77	千岛群岛
	23	21											Kurile Islands
797	23	13–48–34.5	44.52N	129.59W	13				5.5	5.3	2.6	35	俄勒冈海岸远海
	23	21											Off coast of Oregon
798	23	15–31–51.7	34.37N	92.01E	32	4.5				4.1	2.6	34	青海省
	23	23											Qinghai Province
799	24	11–04–28.5	39.56N	95.42E	3	4.1	4.6				3.2	16	甘肃省
	24	19											Gansu Province
800	24	11–48–48.9	49.35N	155.95E	41	5.4		5.6	5.3	5.6	1.3	89	千岛群岛
	24	19											Kurile Islands

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801	24	16-07-22.9	31.56N	85.09E	31	4.5			4.3	3.5	11	西藏自治区	
	25	00										Tibet	
802	24	17-01-58.1	35.31N	52.13E	34	4.9		4.3	4.9	1.3	47	伊朗	
	25	01										Iran	
803	25	03-42-34.8	20.83S	169.53E	57			4.2	5.2	1.1	36	洛亚尔提群岛地区	
	25	11										Loyalty Islands region	
804	25	17-29-48.8	39.85N	118.56E	19		3.2			1.8	15	中国东北部	
	26	01										North-Eastern China	
805	25	21-41-21.4	2.46S	68.26E	10				5.0	1.7	33	卡尔斯伯格海岭	
	26	05										Carlsberg Ridge	
806	26	02-15-12.1	36.63N	70.83E	219			5.8	5.1	1.1	89	兴都库什地区	
	26	10										Hindu Kush region	
807	26	03-20-57.7	27.03N	102.92E	15		3.4			2.5	9	四川省	
	26	11										Sichuan Province	
808	26	07-38-02.2	20.12N	122.10E	20	4.7	3.9		4.8	1.7	57	菲律宾群岛地区	
	26	15										Philippine Islands region	
809	26	11-16-12.5	49.32N	156.09E	32	4.9		4.7	4.8	1.2	38	千岛群岛	
	26	19										Kurile Islands	
810	26	19-16-59.2	43.25N	84.35E	28		3.4			1.9	9	新疆自治区北部	
	27	03										Northern Xinjiang Province	
811	27	07-23-49.7	34.29N	91.91E	30	5.0				2.4	40	青海省	
	27	15										Qinghai Province	
812	27	09-50-53.8	7.53S	128.96E	126				5.0	1.4	28	帝汶海	
	27	17										Timor Sea	
813	27	10-56-11.6	46.85S	10.92W	9			4.9	5.2	2.2	17	南大西洋海岭	
	27	18										South Atlantic Ridge	
814	27	15-07-16.9	7.39S	120.36E	593			5.9	5.5	1.2	86	佛罗勒斯海	
	27	23										Flores Sea	
815	27	15-11-26.1	42.96N	84.42E	23		3.5			1.8	8	新疆自治区北部	
	27	23										Northern Xinjiang Province	
816	27	18-12-02.9	34.43N	91.77E	33	4.4				3.1	24	青海省	
	28	02										Qinghai Province	
817	28	05-15-03.0	51.20N	176.81W	46				5.0	1.0	48	安德烈亚诺夫群岛	
	28	13										Andreanof Islands	
818	28	06-13-44.8	35.08N	140.22E	79	4.1			5.1	1.9	68	本州南海岸近海	
	28	14										Near south coast of Honshu	
819	28	10-37-52.0	0.39S	122.33E	14	5.1		5.8	4.9 5.7	1.3	87	米那哈沙半岛(西里伯斯)	
	28	18										Minahassa Peninsula (Celebes)	
820	28	13-14-20.8	42.42N	91.95E	9		3.1			2.6	5	新疆自治区南部	
	28	21										Southern Xinjiang Province	
821	28	14-49-29.6	16.35S	174.10W	138			5.8	5.5	1.1	62	汤加	
	28	22										Tonga	
822	28	17-45-06.5	16.34S	166.92E	33			4.1	4.6	1.7	13	瓦努阿图(新赫布里底)	
	29	01										Vanuatu (New Hebrides)	
823	28	19-54-41.6	10.09S	118.67E	54				4.8	1.5	20	松巴哇以南地区	
	29	03										South of Sumbawa	
824	28	22-20-27.8	42.00N	82.09E	15		3.2			1.9	6	新疆自治区南部	
	29	06										Southern Xinjiang Province	
825	28	23-03-44.1	14.09N	146.78E	36	5.0		5.5	4.8 5.1	1.0	72	马里亚纳群岛以南地区	
	29	07										South of the Marianas	
826	29	02-56-45.9	4.61S	101.88E	31				4.7 5.0	0.8	41	苏门答腊西南以远地区	
	29	10										South-west of Sumatera	

827	29	09–10–50.9	27.82N	85.61E	17	5.3		5.2	4.8	5.4	1.7	87	尼泊尔
	29	17											Nepal
828	29	09–39–53.2	35.12N	103.92E	12	4.1	4.1				2.5	20	甘肃省
	29	17											Gansu Province
829	29	15–37–01.9	5.15N	126.82E	35					4.6	1.7	12	塔劳群岛
	29	23											Talaud Islands
830	30	07–58–54.9	7.58S	115.12E	250					5.0	1.0	26	巴厘地区
	30	15											Bali region
831	30	09–32–41.6	60.57N	152.47W	86					4.8	0.7	59	阿拉斯加州南部
	30	17											Southern Alaska
832	30	16–39–26.6	52.03N	170.82W	38					4.6	0.7	32	福克斯群岛
	31	00											Fox Islands
833	30	22–12–16.0	25.53N	119.70E	10		4.1				2.1	14	中国东南沿海
	31	06											Near south–eastern coast of China
834	30	23–17–51.8	46.07N	149.47E	172			5.5		5.3	1.4	72	千岛群岛
	31	07											Kurile Islands
835	31	10–12–58.9	36.46N	2.80E	20	5.8		5.6	5.6	5.4	1.4	59	阿尔及利亚
	31	18											Algeria
	November	1988											
836	1	01–53–45.1	14.72S	166.78E	35					4.9	1.1	35	瓦努阿图(新赫布里底)
	1	09											Vanuatu (New Hebrides)
837	1	09–43–60.0	43.51N	146.34E	87					4.8	1.5	56	北海道地区
	1	17											Hokkaido region
838	1	10–24–12.4	14.55S	166.78E	34					4.4	1.6	16	瓦努阿图(新赫布里底)
	1	18											Vanuatu (New Hebrides)
839	1	12–34–19.5	23.71N	103.31E	30		3.7				4.6	7	云南省
	1	20											Yunnan Province
840	1	13–36–43.4	9.64N	126.31E	69	4.7		5.1		5.1	1.4	71	棉兰老岛
	1	21											Mindanao
841	1	13–45–16.0	27.73N	141.07E	13	4.5		5.2			1.1	32	小笠原群岛地区
	1	21											Bonin Islands region
842	1	13–52–57.4	27.62N	140.76E	33	4.5			4.2	5.1	1.2	31	小笠原群岛地区
	1	21											Bonin Islands region
843	1	15–38–05.4	28.27N	139.63E	496			4.1		4.8	1.0	69	小笠原群岛地区
	1	23											Bonin Islands region
844	1	15–43–07.2	7.44S	128.25E	125					5.1	1.0	34	班达海
	1	23											Banda Sea
845	1	16–51–13.3	2.92S	129.45E	34				3.8	5.1	1.4	16	斯兰岛
	2	00											Seram
846	1	20–24–18.7	42.94N	87.92E	26		3.6				4.0	9	新疆自治区北部
	2	04											Northern Xinjiang Province
847	1	22–31–07.5	57.28S	25.04W	34	6.2		6.1	6.1	5.9	2.4	70	南桑德韦奇群岛地区
	2	06											South Sandwich Islands region
848	2	00–19–15.3	56.93S	147.70E	8	5.7			5.7	5.5	1.8	24	麦阔里岛以西地区
	2	08											West of Macquarie Island
849	3	05–25–39.2	13.55N	121.01E	137			5.3		5.1	1.1	79	民都洛岛
	3	13											Mindoro
850	3	12–42–43.3	2.32N	126.66E	70					5.3	1.2	87	马鲁古海峡
	3	20											Molucca Passage
851	3	14–47–10.3	14.09N	90.34W	59	6.7		6.0		5.6	1.5	78	危地马拉海岸近海
	3	22											Near coast of Guatemala

852	3	18–34–45.5	12.43N	92.69E	33			4.8	1.7	23	安达曼群岛地区		
	4	02									Andaman Islands region		
853	3	19–42–17.5	18.96N	67.34W	29	6.1		5.7	5.4	1.8	45	莫纳海峡	
	4	03									Mona Passage		
854	3	21–42–43.4	35.44N	115.60E	14		3.2			2.0	13	中国东部	
	4	05									Eastern China		
855	3	22–10–26.8	2.99N	127.89E	117				5.1	1.0	35	马鲁古海峡	
	4	06									Molucca Passage		
856	4	02–43–12.0	14.41N	89.99W	66				5.2	1.2	38	危地马拉海岸近海	
	4	10									Near coast of Guatemala		
857	4	02–55–09.3	55.13S	29.29W	27			5.4	5.8	2.3	29	南桑德韦奇群岛地区	
	4	10									South Sandwich Islands region		
858	4	11–37–37.3	5.35S	146.76E	218				4.9	0.9	27	新几内亚东部地区	
	4	19									Eastern New Guinea region		
859	4	18–03–52.9	20.40N	108.09E	7	4.6	5.0		4.4	2.6	37	印度支那半岛	
	5	02									Indo–Pacific Peninsula		
860	4	18–31–21.5	44.31N	149.01E	57			4.0	5.1	1.2	64	千岛群岛地区	
	5	02									Kurile Islands region		
861	4	19–34–03.6	5.44S	102.60E	51					1.4	14	苏门答腊南部	
	5	03									Southern Sumatera		
862	4	21–56–36.0	25.11N	128.15E	33				4.6	1.5	20	琉球群岛地区	
	5	05									Ryukyu Islands region		
863	5	02–14–29.6	34.27N	91.87E	7	6.8	6.3	6.3	5.9	1.9	86	青海省	
	5	10									Qinghai Province		
864	5	02–51–35.9	37.06N	135.83E	340		5.8		5.2	1.1	84	日本海	
	5	10									Sea of Japan		
865	5	03–04–41.5	21.44S	174.27W	35			5.9	5.1	0.9	35	汤加	
	5	11									Tonga		
866	5	04–58–06.1	34.13N	91.62E	28	4.3				2.5	22	青海省	
	5	12									Qinghai Province		
867	5	06–29–55.9	34.20N	91.32E	32	4.1				3.9	6	青海省	
	5	14									Qinghai Province		
868	5	06–49–03.3	34.40N	91.76E	30	4.3				3.3	16	青海省	
	5	14									Qinghai Province		
869	5	08–04–26.0	39.66N	95.49E	18		3.5			2.6	7	甘肃省	
	5	16									Gansu Province		
870	5	12–15–51.0	21.92S	170.09E	40	5.8	6.2	5.8	5.5	1.2	89	洛亚尔提群岛地区	
	5	20									Loyalty Islands region		
871	5	13–39–20.5	7.43N	126.75E	83				5.2	1.4	66	棉兰老岛	
	5	21									Mindanao		
872	5	20–24–45.3	22.16S	170.22E	39				4.6	1.1	21	洛亚尔提群岛地区	
	6	04									Loyalty Islands region		
873	5	20–30–40.0	0.77S	124.88E	35			9.0		1.3	12	马鲁古海	
	6	04									Molucca Sea		
874	5	21–29–32.3	22.30S	169.65E	25				4.8	1.8	23	洛亚尔提群岛地区	
	6	05									Loyalty Islands region		
875	5	21–46–33.6	37.53N	112.51E	9		3.5		4.2	3.2	22	中国东北部	
	6	05									North–Eastern China		
876	5	21–49–36.0	22.04S	169.96E	31				5.0	1.6	25	洛亚尔提群岛地区	
	6	05									Loyalty Islands region		
877	6	02–17–59.6	31.80N	137.12E	66	4.5			4.9	1.6	67	四国东南以远地区	
	6	10									South–east of Shikoku		

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878	6 6	04–34–39.7	21.94S	170.25E	39	5.4		5.7	5.3	5.7	1.0	66	洛亚尔提群岛地区 Loyalty Islands region
879	6 6	08–20–56.0	51.37N	178.17W	32	5.0		5.5	4.8	5.5	1.2	85	安德烈亚诺夫群岛 Andreanof Islands
880	6 6	10–10–40.2	38.99N	90.68E	5		3.2				4.8	6	新疆自治区南部 Southern Xinjiang Province
881	6 6	13–03–16.8	22.92N	99.79E	13	7.4		6.7	7.3	6.1	1.9	103	缅甸——中国边境地区 Burma–China border region
882	6 6	13–15–44.3	23.16N	99.55E	16	7.2				6.4	2.1	60	缅甸——中国边境地区 Burma–China border region
883	6 6	13–39–48.5	22.87N	99.67E	18	5.7	4.8			5.0	1.8	31	缅甸——中国边境地区 Burma–China border region
884	6 6	13–44–57.2	23.58N	99.28E	10		4.8			4.9	2.6	18	缅甸——中国边境地区 Burma–China border region
885	6 6	14–13–24.3	23.24N	99.64E	7	5.5	5.4			5.1	2.2	72	缅甸——中国边境地区 Burma–China border region
886	6 6	14–29–45.5	23.29N	99.55E	9	5.2	4.7			4.9	1.5	43	缅甸——中国边境地区 Burma–China border region
887	6 6	14–45–58.5	22.91N	99.46E	23	4.7	4.2				2.7	18	缅甸——中国边境地区 Burma–China border region
888	6 6	15–12–03.4	23.20N	100.32E	16	5.0	4.2				1.8	19	缅甸——中国边境地区 Burma–China border region
889	6 6	15–29–20.7	10.95N	144.03E	31					5.1	1.1	39	马里亚纳群岛以南地区 South of the Marianas
890	6 6	15–49–18.2	22.40N	99.77E	35	4.7	4.4				2.0	15	缅甸——中国边境地区 Burma–China border region
891	6 7	16–00–30.8	23.37N	99.52E	11	5.4	5.1	5.4		5.1	1.7	84	缅甸——中国边境地区 Burma–China border region
892	6 7	16–19–05.6	22.66N	99.55E	2	4.2	4.4			4.4	2.2	8	缅甸——中国边境地区 Burma–China border region
893	6 7	16–34–38.2	18.27N	146.59E	87					5.1	1.0	36	马里亚纳群岛 Marianas
894	6 7	19–10–29.4	23.07N	99.57E	3	4.1	4.2				3.3	10	缅甸——中国边境地区 Burma–China border region
895	6 7	19–14–15.4	2.72N	125.21E	31					5.1	1.8	21	西里伯斯海 Celebes Sea
896	6 7	20–01–18.3	23.47N	99.58E	26	4.3	4.5			3.8	2.7	17	缅甸——中国边境地区 Burma–China border region
897	6 7	20–24–24.0	23.03N	99.81E	10	5.6	5.1	5.5	4.9	5.4	1.7	88	缅甸——中国边境地区 Burma–China border region
898	6 7	20–35–27.8	23.36N	99.37E	10	5.0	4.8			4.9	2.1	48	缅甸——中国边境地区 Burma–China border region
899	6 7	21–19–04.6	23.22N	99.58E	9	4.8	4.7			4.2	2.1	46	缅甸——中国边境地区 Burma–China border region
900	6 7	21–47–51.3	22.86N	99.07E	5	4.3	4.3				4.1	10	缅甸——中国边境地区 Burma–China border region
901	6 7	22–40–22.4	22.88N	99.25E	5	4.5	4.7			4.6	2.9	24	缅甸——中国边境地区 Burma–China border region
902	7 7	02–21–51.6	33.19N	91.96E	8	5.1	5.1			4.8	2.3	62	西藏自治区 Tibet
903	7 7	02–39–55.4	23.46N	99.54E	7	5.3	4.9			4.9	2.2	69	缅甸——中国边境地区 Burma–China border region

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904	7 7 11	03–24–28.4	26.54N	126.64E	114			6.1		5.7	1.5	98	琉球群岛 Ryukyu Islands
905	7 7 11	03–50–03.4	22.17S	175.08E	48	6.4		6.3	6.7	5.7	1.6	75	洛亚尔提群岛地区 Loyalty Islands region
906	7 7 12	04–40–23.9	25.06N	123.47E	161					4.9	1.4	76	台湾地区 Taiwan region
907	7 7 12	04–42–01.8	8.50N	137.73E	32	6.0				5.0	0.7	42	加罗林群岛西部 Western Caroline Islands
908	7 7 15	07–39–28.3	11.39N	122.16E	27	5.2		5.6	5.0	5.1	1.3	78	班乃岛 Panay
909	7 7 16	08–08–25.8	34.24N	91.84E	33	3.7					2.2	20	青海省 Qinghai Province
910	7 7 18	10–21–33.9	23.82N	99.49E	5	3.8	3.8				4.3	11	缅甸——中国边境地区 Burma–China border region
911	7 7 21	13–17–36.5	45.67N	85.34E	22		3.0				4.2	7	新疆自治区北部 Northern Xinjiang Province
912	7 8 01	17–08–07.1	21.57S	179.07W	591					5.2	0.6	55	斐济以南地区 South of Fiji
913	7 8 01	17–24–56.7	29.21S	177.52W	71			4.7	5.0		1.7	18	克马德克群岛 Kermadec Islands
914	7 8 03	19–24–28.0	19.71N	122.03E	8	4.2	4.2			4.4	2.3	29	菲律宾群岛地区 Philippine Islands region
915	7 8 03	19–32–35.6	23.00N	99.31E	5	4.1	4.1				2.9	16	缅甸——中国边境地区 Burma–China border region
916	7 8 04	20–50–31.1	23.48N	99.57E	21	4.0	4.2			4.4	3.0	23	缅甸——中国边境地区 Burma–China border region
917	7 8 06	22–00–25.2	23.30N	99.60E	9	4.3	3.9			4.2	2.7	31	缅甸——中国边境地区 Burma–China border region
918	7 8 07	23–15–40.9	1.60N	126.42E	64	5.5		6.0		6.2	0.9	101	马鲁古海峡 Molucca Passage
919	8 8 09	01–51–06.6	22.83N	99.69E	34	3.7	4.2				1.9	13	缅甸——中国边境地区 Burma–China border region
920	8 8 15	07–01–07.1	23.04N	99.73E	5	4.2	4.2			4.8	2.2	37	缅甸——中国边境地区 Burma–China border region
921	8 8 16	08–17–54.7	36.81N	22.82E	53			3.6	4.9		1.2	51	希腊南部 Southern Greece
922	8 8 17	09–53–08.7	22.89N	99.69E	5	4.0	4.0				2.6	15	缅甸——中国边境地区 Burma–China border region
923	9 9 09	01–14–05.7	23.02N	99.89E	5		4.1				2.2	12	缅甸——中国边境地区 Burma–China border region
924	9 9 20	12–32–15.5	23.39N	99.28E	5	4.2	4.2				2.2	21	缅甸——中国边境地区 Burma–China border region
925	9 10 02	18–08–44.1	26.94N	129.48E	26	4.6		4.4	4.9		1.8	47	琉球群岛 Ryukyu Islands
926	9 10 03	19–34–32.0	28.52N	128.65E	37	4.0	4.3			4.9	2.0	27	琉球群岛 Ryukyu Islands
927	9 10 07	23–21–01.2	25.06N	142.78E	38	4.5				4.9	1.7	47	硫黄列岛地区 Volcano Islands region
928	9 10 07	23–29–54.6	44.42N	148.23E	32	4.2		4.5	5.7	4.6	1.4	75	千岛群岛 Kurile Islands
929	10 10 09	01–17–49.0	21.28N	108.55E	9	4.8	5.3			4.6	2.4	50	中国东部 Eastern China

930	10	05–18–33.0	34.24N	91.82E	13	4.3	4.7				2.8	19	青海省	
	10	13											Qinghai Province	
931	10	09–43–34.5	23.38N	99.36E	10	4.6	4.4			4.6	2.4	39	缅甸——中国边境地区	
	10	17											Burma–China border region	
932	10	13–07–09.6	12.30N	144.16E	35				4.4	5.0	1.2	36	马里亚纳群岛以南地区	
	10	21											South of the Marianas	
933	10	17–11–29.3	10.35S	66.44E	12	5.0			4.8	5.3	1.4	53	中印度洋海丘	
	11	01											Mid–Indian Rise	
934	10	17–45–04.8	35.33N	141.02E	13	4.5			4.6	5.0	1.9	66	本州东海岸近海	
	11	01											Near east coast of Honshu	
935	10	19–01–37.4	23.52N	121.94E	10		4.1			4.3	2.1	36	台湾岛	
	11	03											Taiwan	
936	10	22–49–38.1	22.86N	99.80E	8		4.1				2.1	19	缅甸——中国边境地区	
	11	06											Burma–China border region	
937	11	05–48–56.8	2.36S	138.85E	24	5.5		5.7	5.3	5.3	1.2	79	西伊里安	
	11	13											West Irian	
938	11	07–41–15.5	22.95N	99.65E	9	4.4	4.3			4.7	2.2	30	缅甸——中国边境地区	
	11	15											Burma–China border region	
939	11	10–18–11.7	23.28N	99.50E	7	4.4	4.0				2.8	26	缅甸——中国边境地区	
	11	18											Burma–China border region	
940	11	19–16–41.0	23.58N	99.60E	5		4.0				3.2	16	缅甸——中国边境地区	
	12	03											Burma–China border region	
941	11	20–11–20.9	49.63S	117.64E	12					5.3	1.1	15	澳大利亚以南地区	
	12	04											South of Australia	
942	12	03–30–04.4	50.09N	78.93E	10	5.1	5.6			5.3	1.0	84	哈萨克东部	
	12	11											Eastern Kazakhstan	
943	12	03–34–48.3	18.23N	76.61W	14				4.7	5.4	0.9	38	牙买加地区	
	12	11											Jamaica region	
944	12	07–10–43.6	24.27N	98.93E	34		3.8				1.3	6	缅甸——中国边境地区	
	12	15											Burma–China border region	
945	12	09–20–15.2	23.42N	99.33E	26	4.1	4.0			4.5	2.8	18	缅甸——中国边境地区	
	12	17											Burma–China border region	
946	12	15–19–39.8	48.21N	84.63E	19		3.4				2.4	5	哈萨克——新疆边境地区	
	12	23											Kazakhstan–Xinjiang border region	
947	13	02–37–15.2	0.26S	122.93E	103			5.7		5.5	1.4	95	米那哈沙半岛(西里伯斯)	
	13	10											Minahassa Peninsula (Celebes)	
948	13	06–26–55.7	51.41N	178.40W	50				4.6	5.1	0.9	55	安德烈亚诺夫群岛	
	13	14											Andreanof Islands	
949	13	09–12–32.9	1.99N	126.37E	84					4.9	1.2	37	马鲁古海峡	
	13	17											Molucca Passage	
950	13	12–04–20.4	5.32S	152.80E	67	4.8				4.8	1.2	44	新不列颠地区	
	13	20											New Britain region	
951	14	01–30–45.0	22.73N	99.60E	14	4.3	4.6				2.4	12	缅甸——中国边境地区	
	14	09											Burma–China border region	
952	14	02–15–36.9	3.22S	150.70E	36	6.4		6.3	6.6	5.9	2.0	93	新爱尔兰地区	
	14	10											New Ireland region	
953	14	04–29–07.9	7.35S	125.87E	8	5.1		5.6	4.9	5.5	1.5	75	班达海	
	14	12											Banda Sea	
954	14	10–48–19.4	52.28N	171.20W	34	4.9			4.6	5.0	1.3	54	福克斯群岛	
	14	18											Fox Islands	
955	14	16–55–34.5	32.56S	71.69W	53				4.8	5.3	1.4	18	中智利海岸远海	
	15	00											Off coast of Central Chile	

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956	14	23–16–12.2	6.78N	126.82E	233				4.7	1.2	49	棉兰老岛	
	15	07										Mindanao	
957	15	02–30–37.0	33.87N	123.31E	29		3.5			0.8	5	黄海	
	15	10										Yellow Sea	
958	15	03–26–24.2	27.68N	54.22E	50				4.5	1.4	21	伊朗南部	
	15	11										Southern Iran	
959	15	08–41–41.2	52.21N	171.21W	21	5.7		6.1	5.4	5.9	1.1	98	福克斯群岛
	15	16										Fox Islands	
960	15	10–28–13.7	23.18N	99.71E	16	5.6	4.9	5.4	4.8	5.2	1.6	89	缅甸——中国边境地区
	15	18										Burma–China border region	
961	15	16–56–45.7	41.99N	89.39E	32	4.6	5.4		4.3	5.0	1.7	59	新疆自治区南部
	16	00										Southern Xinjiang Province	
962	15	20–08–47.3	39.46N	74.64E	32		3.8				3.5	7	塔吉克——新疆边境地区
	16	04										Tadzhikistan–Xinjiang border region	
963	15	22–45–13.3	12.34N	142.04E	130			5.5	4.6	5.0	1.3	54	加罗林群岛西部
	16	06										Western Caroline Islands	
964	15	23–41–40.9	12.61N	142.05E	60	5.1				4.8	1.6	33	马里亚纳群岛以南地区
	16	07										South of the Marianas	
965	16	05–10–35.0	31.42S	179.65W	216					5.3	1.3	52	克马德克群岛地区
	16	13										Kermadec Islands region	
966	16	05–28–19.7	14.27N	90.96W	76					4.9	1.6	27	危地马拉海岸近海
	16	13										Near coast of Guatemala	
967	16	05–53–22.2	21.57S	179.38W	608			5.6		5.8	0.9	81	斐济以南地区
	16	13										South of Fiji	
968	16	10–49–48.3	2.17N	125.77E	32	4.8			4.7	5.4	1.6	74	马鲁古海峡
	16	18										Molucca Passage	
969	16	19–03–52.6	5.41S	133.90E	32						1.2	40	阿鲁群岛地区
	17	03										Aroe Islands region	
970	16	20–15–53.4	3.58S	68.41E	12	5.1		5.6	5.1	5.2	1.3	71	卡尔斯伯格海岭
	17	04										Carlsberg Ridge	
971	17	00–59–49.0	55.56N	161.70E	32	4.6			4.5	5.6	1.0	65	堪察加东海岸近海
	17	08										Near east coast of Kamchatka	
972	17	03–57–19.4	38.73N	99.68E	18		3.8				2.2	8	青海省
	17	11										Qinghai Province	
973	17	04–57–20.9	39.35N	105.30E	2		3.1				2.4	7	中国北部
	17	12										Northern China	
974	17	05–27–52.7	44.37N	84.71E	26		3.0				3.3	6	新疆自治区北部
	17	13										Northern Xinjiang Province	
975	17	06–55–44.5	12.48N	124.73E	20	6.7		6.5	6.6	6.0	1.2	107	莱特岛
	17	14										Leyte	
976	17	10–11–07.5	20.20S	177.96W	487					5.0	0.7	37	斐济地区
	17	18										Fiji region	
977	17	13–14–46.6	23.23N	99.46E	11	4.6	4.7			4.9	2.3	56	缅甸——中国边境地区
	17	21										Burma–China border region	
978	17	20–28–05.5	14.43S	167.25E	191					4.9	0.6	31	瓦努阿图(新赫布里底)
	18	04										Vanuatu (New Hebrides)	
979	17	22–43–56.9	8.44N	126.53E	100				5.3	5.3	1.1	91	棉兰老岛
	18	06										Mindanao	
980	17	23–24–03.4	35.94N	81.06E	16		3.7				2.8	5	克什米尔——西藏边境地区
	18	07										Kashmir–Tibet border region	
981	18	00–53–43.9	43.30N	101.41E	5		4.3				3.4	8	蒙古
	18	08										Mongolia	

982	18	13–15–04.7	40.89N	122.46E	9		3.0			2.0	6	中国东北部	
	18	21										North–Eastern China	
983	18	14–29–19.8	23.71N	99.33E	5	4.2	3.9		4.9	2.9	22	缅甸——中国边境地区	
	18	22										Burma–China border region	
984	18	15–09–41.6	44.62N	84.63E	19		3.0			2.1	5	新疆自治区北部	
	18	23										Northern Xinjiang Province	
985	18	18–21–43.7	23.24N	99.61E	10	4.7	4.7	5.5	5.0	2.1	65	缅甸——中国边境地区	
	19	02										Burma–China border region	
986	18	19–38–53.6	6.11S	149.88E	60	6.5		6.0	5.8	1.5	91	新不列颠地区	
	19	03										New Britain region	
987	18	22–18–48.9	23.04N	99.75E	7	4.3	4.4		4.4	2.8	28	缅甸——中国边境地区	
	19	06										Burma–China border region	
988	19	01–37–12.0	23.09N	99.79E	12	4.9	4.8		5.0	1.9	78	缅甸——中国边境地区	
	19	09										Burma–China border region	
989	19	08–14–07.5	22.41N	120.78E	18	4.0	3.8		4.3	3.3	20	台湾地区	
	19	16										Taiwan region	
990	19	11–25–11.9	25.87N	100.49E	8	4.2	4.1			2.3	30	云南省	
	19	19										Yunnan Province	
991	19	13–33–05.0	26.05N	100.27E	25		3.5			4.3	13	云南省	
	19	21										Yunnan Province	
992	19	14–47–33.6	33.04N	103.95E	8		3.8			2.9	12	四川省	
	19	22										Sichuan Province	
993	19	14–52–20.7	27.71N	140.13E	346				4.9	1.0	59	小笠原群岛地区	
	19	22										Bonin Islands region	
994	19	22–13–32.9	6.00S	125.21E	27				4.8	0.7	19	班达海	
	20	06										Banda Sea	
995	20	01–35–33.7	23.45N	99.48E	33	4.2	4.3		4.7	2.2	32	缅甸——中国边境地区	
	20	09										Burma–China border region	
996	20	08–27–54.2	47.46N	152.13E	36				4.8	2.0	26	千岛群岛	
	20	16										Kurile Islands	
997	20	09–11–08.8	47.73S	99.81E	9	5.9		6.0 5.9	5.6	1.4	72	东南印度洋海岭	
	20	17										South–East Indian Ridge	
998	20	13–13–19.2	42.19N	83.48E	26		3.0			2.3	5	新疆自治区南部	
	20	21										Southern Xinjiang Province	
999	20	13–53–18.9	28.46N	130.12E	60	4.2			5.0	1.5	57	琉球群岛	
	20	21										Ryukyu Islands	
1000	20	15–19–20.1	5.15S	153.90E	96			5.9	5.6	1.3	90	新爱尔兰地区	
	20	23										New Ireland region	
1001	20	18–25–52.9	9.70N	127.37E	52				4.8	1.0	41	棉兰老岛	
	21	02										Mindanao	
1002	20	19–48–09.0	58.09S	26.22W	33	5.6			5.5	2.0	13	南桑德韦奇群岛地区	
	21	03										South Sandwich Islands region	
1003	20	20–15–45.4	12.78N	124.71E	52	4.5			4.4	1.3	38	萨马岛	
	21	04										Samar	
1004	20	21–01–05.3	35.41N	28.65E	8	4.7		4.9	5.2	1.3	72	地中海东部	
	21	05										Eastern Mediterranean Sea	
1005	20	23–08–22.0	30.88N	50.31E	45				4.8	1.1	54	伊朗西部	
	21	07										Western Iran	
1006	21	15–32–38.2	1.96N	126.75E	53	5.2		5.8	5.5	1.3	94	马鲁古海峡	
	21	23										Molucca Passage	
1007	21	16–41–04.2	20.12N	121.89E	3	4.5	3.9		4.7	2.0	41	菲律宾群岛地区	
	22	00										Philippine Islands region	

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1008	21	16–55–51.7	38.00N	26.20W	10	5.7		5.3	5.8	1.2	47	亚速尔群岛	
	22	00										Azores	
1009	21	17–27–05.8	29.84N	51.29E	34				4.7	1.5	19	伊朗南部	
	22	01										Southern Iran	
1010	21	17–46–02.0	38.57N	99.60E	24	5.2	5.4	5.0	4.8	1.9	87	青海省	
	22	01										Qinghai Province	
1011	21	17–50–33.1	24.60S	175.69W	33	5.3			5.1	0.7	24	斐济以南地区	
	22	01										South of Fiji	
1012	21	18–22–41.6	38.75N	99.70E	25		3.9		3.9	2.8	11	青海省	
	22	02										Qinghai Province	
1013	21	21–40–10.7	46.45N	153.01E	28	4.9		5.5	5.2	1.2	71	千岛群岛地区	
	22	05										Kurile Islands region	
1014	22	04–35–38.3	12.87N	125.19E	37	4.4			4.9	1.8	27	萨马岛	
	22	12										Samar	
1015	22	10–05–07.5	22.69S	174.74W	34			4.5	5.0	1.0	29	汤加地区	
	22	18										Tonga region	
1016	22	12–17–46.7	52.08N	152.71E	439				4.4	0.7	33	千岛群岛西北以远地区	
	22	20										North–west of Kurile Islands	
1017	22	15–20–43.5	41.74N	74.96E	31	4.4	4.6		4.9	1.9	25	吉尔吉斯	
	22	23										Kirgiziya	
1018	22	16–10–26.5	52.37N	168.85W	29	4.8		4.6	4.9	1.3	48	福克斯群岛	
	23	00										Fox Islands	
1019	23	03–04–13.7	31.10N	141.74E	42	5.3		5.3	5.2	1.4	81	本州以南地区	
	23	11										South of Honshu	
1020	23	03–57–10.3	49.75N	78.62E	5	4.4	5.1		5.3	1.2	50	哈萨克东部	
	23	11										Eastern Kazakhstan	
1021	23	04–08–49.9	37.08N	141.12E	67	4.3			4.9	1.4	50	本州东海岸近海	
	23	12										Near east coast of Honshu	
1022	23	05–22–26.3	8.14S	115.99E	33			4.0	5.1	1.3	44	巴厘地区	
	23	13										Bali region	
1023	23	09–27–07.3	19.68S	177.90W	598			5.5	5.6	0.7	74	斐济地区	
	23	17										Fiji region	
1024	23	17–48–27.2	1.53N	120.93E	40				4.8	0.8	16	米那哈沙半岛(西里伯斯)	
	24	01										Minahassa Peninsula (Celebes)	
1025	23	22–55–51.5	35.83N	80.81E	34		3.5			4.9	5	克什米尔——西藏边境地区	
	24	06										Kashmir–Tibet border region	
1026	23	23–06–10.0	17.82S	178.48W	572				4.9	0.6	41	斐济地区	
	24	07										Fiji region	
1027	24	00–18–01.4	11.62S	166.93E	271				5.0	1.1	42	圣克鲁斯群岛	
	24	08										Santa Cruz Islands	
1028	24	04–25–56.8	12.65N	125.24E	32	4.8		4.6	5.4	1.3	77	萨马岛	
	24	12										Samar	
1029	25	08–35–41.6	47.71S	99.51E	11	6.3		6.2	6.2	5.5	1.1	72	东南印度洋海岭
	25	16										South–East Indian Ridge	
1030	25	13–57–20.1	21.83N	121.54E	47		4.4				1.4	49	台湾地区
	25	21										Taiwan region	
1031	25	21–26–39.8	34.66N	70.62E	34	4.4	4.2		4.7	2.2	32	阿富汗	
	26	05										Afghanistan	
1032	25	22–29–39.1	34.42N	91.93E	23	6.0		5.6	5.6	5.1	2.0	81	青海省
	26	06										Qinghai Province	
1033	25	23–46–03.0	48.10N	71.24W	27	6.1		6.3	5.8	5.9	1.0	70	魁北克省南部
	26	07										Southern Quebec Province	

1034	26	00–39–13.7	34.36N	91.89E	32	4.0	4.4				2.6	24	青海省	
	26	08											Qinghai Province	
1035	26	10–18–12.8	5.57S	102.69E	50	5.2			4.7	5.0	1.1	44	苏门答腊西南以远地区	
	26	18											South–west of Sumatera	
1036	26	18–40–13.1	7.16N	77.43W	5				5.1	5.5	1.9	40	哥伦比亚西海岸近海	
	27	02											Near west coast of Colombia	
1037	26	19–21–41.1	30.90N	141.76E	33	4.3			4.5	4.7	1.5	22	本州以南地区	
	27	03											South of Honshu	
1038	26	20–20–15.8	1.58N	126.57E	58					5.2	1.0	65	马鲁古海峡	
	27	04											Molucca Passage	
1039	26	20–47–16.2	5.24S	131.83E	49				4.7	5.4	1.3	63	班达海	
	27	04											Banda Sea	
1040	27	00–36–19.5	50.83N	130.56W	19	5.5			5.3	5.1	1.6	36	温哥华岛地区	
	27	08											Vancouver Island region	
1041	27	01–16–21.2	36.24N	70.38E	91					4.8	1.5	52	兴都库什地区	
	27	09											Hindu Kush region	
1042	27	01–59–17.1	0.20S	124.14E	96					5.1	1.5	31	米那哈沙半岛(西里伯斯)	
	27	09											Minahassa Peninsula (Celebes)	
1043	27	02–09–03.5	23.69N	100.35E	28		3.9				2.3	6	缅甸——中国边境地区	
	27	10											Burma–China border region	
1044	27	03–50–35.5	40.51N	106.74E	27		3.2				3.9	6	中国北部	
	27	11											Northern China	
1045	27	04–17–55.4	22.74N	99.94E	14	5.8	5.1	5.5	5.1	5.0	2.0	90	缅甸——中国边境地区	
	27	12											Burma–China border region	
1046	27	07–38–03.2	4.49N	126.31E	56					4.8	1.2	25	塔劳群岛	
	27	15											Talaud Islands	
1047	27	14–08–16.7	51.49N	176.88W	30					5.1	1.0	43	安德烈亚诺夫群岛	
	27	22											Andreanof Islands	
1048	27	17–48–46.1	20.11N	121.57E	58	4.5		5.1		4.5	2.6	40	菲律宾群岛地区	
	28	01											Philippine Islands region	
1049	27	22–21–43.2	34.38N	91.98E	33	4.9	4.3	5.3		4.5	2.5	61	青海省	
	28	06											Qinghai Province	
1050	28	00–31–23.3	21.51S	69.27W	121					5.2	1.5	32	智利北部	
	28	08											Northern Chile	
1051	28	03–38–10.6	23.00N	99.75E	26	4.6	4.5			4.9	1.6	59	缅甸——中国边境地区	
	28	11											Burma–China border region	
1052	28	05–19–08.9	28.57N	64.02E	74					4.9	1.8	26	巴基斯坦西部	
	28	13											Western Pakistan	
1053	28	07–37–34.5	51.79N	176.83W	63					5.2	1.2	61	安德烈亚诺夫群岛	
	28	15											Andreanof Islands	
1054	28	14–49–52.9	6.36S	150.04E	43	4.9			4.8	5.1	1.7	47	新不列颠地区	
	28	22											New Britain region	
1055	28	16–48–48.1	25.83N	128.47E	37	4.7	4.0			4.9	1.9	60	琉球群岛	
	29	00											Ryukyu Islands	
1056	28	22–41–19.4	1.15N	127.00E	139					5.3	0.9	83	马鲁古海峡	
	29	06											Molucca Passage	
1057	29	04–42–00.6	46.31N	153.17E	24					4.9	2.0	30	千岛群岛地区	
	29	12											Kurile Islands region	
1058	29	07–51–14.3	56.00S	27.63W	10	5.7				5.6	2.5	21	南桑德韦奇群岛地区	
	29	15											South Sandwich Islands region	
1059	29	08–13–57.9	24.43N	121.73E	30		3.3				1.5	11	台湾岛	
	29	16											Taiwan	

1060	29	09–03–08.0	6.27S	149.78E	49					4.9	1.8	27	新不列颠地区	
	29	17											New Britain region	
1061	29	11–23–37.6	5.33N	76.52W	77					5.8	2.1	73	哥伦比亚西海岸近海	
	29	19											Near west coast of Colombia	
1062	29	19–47–23.4	6.34S	149.94E	41	5.2			4.8	5.2	1.3	41	新不列颠地区	
	30	03											New Britain region	
1063	29	20–35–43.4	2.41S	139.93E	32					5.2	1.2	45	西伊里安北海岸近海	
	30	04											Near north coast of West Irian	
1064	30	03–09–43.2	24.14N	94.53E	93					4.9	1.5	62	缅甸——印度边境地区	
	30	11											Burma–India border region	
1065	30	08–13–29.0	22.76N	99.95E	13	6.5		6.3	6.0	5.6	1.8	111	缅甸——中国边境地区	
	30	16											Burma–China border region	
1066	30	08–55–30.1	61.48N	152.51W	139			6.1		5.5	0.8	99	阿拉斯加州南部	
	30	16											Southern Alaska	
1067	30	15–48–05.1	19.49N	120.13E	12	4.5	4.0	5.1		5.1	1.9	85	菲律宾群岛地区	
	30	23											Philippine Islands region	
1068	30	17–54–59.5	22.16S	138.79W	8						1.5	29	土阿莫土群岛地区	
	1	01											Tuamotu Archipelago region	
1069	30	19–15–04.1	34.83N	94.92E	26		3.6				4.9	6	青海省	
	1	03											Qinghai Province	
1070	30	19–49–19.8	19.38N	120.12E	32	3.9	3.7			4.5	2.7	31	菲律宾群岛地区	
	1	03											Philippine Islands region	
	December	1988												
1071	1	21–52–05.7	34.50N	24.06E	32				3.6	4.4	1.2	24	克里特岛	
	2	05											Crete	
1072	1	23–35–48.1	21.85N	143.90E	203					4.6	1.2	24	马里亚纳群岛地区	
	2	07											Marianas region	
1073	2	14–30–20.5	22.86N	100.02E	8	3.8	3.7				2.5	12	缅甸——中国边境地区	
	2	22											Burma–China border region	
1074	2	15–10–44.8	7.25S	107.13E	81					5.0	1.4	29	爪哇岛	
	2	23											Java	
1075	2	16–59–13.1	29.62N	81.15E	34					4.5	1.5	19	尼泊尔——印度边境地区	
	3	00											Nepal–India border region	
1076	2	18–15–07.9	30.25N	101.73E	15	4.4	4.4			4.6	2.4	63	四川省	
	3	02											Sichuan Province	
1077	2	19–20–55.6	30.26N	101.81E	15	3.7	3.7				2.5	20	四川省	
	3	03											Sichuan Province	
1078	2	23–59–11.6	36.20N	80.91E	25		3.9				3.4	8	克什米尔——西藏边境地区	
	3	07											Kashmir–Tibet border region	
1079	3	02–56–38.4	46.61N	119.65E	15		3.5				2.9	10	中国东北部	
	3	10											North–Eastern China	
1080	3	03–13–44.6	27.95N	141.30E	110			5.6		5.5	1.1	90	小笠原群岛地区	
	3	11											Bonin Islands region	
1081	3	08–36–31.9	19.28N	119.85E	28						1.0	5	菲律宾群岛地区	
	3	16											Philippine Islands region	
1082	3	08–43–50.6	43.54N	147.05E	43	4.2			4.0	5.2	1.5	56	千岛群岛	
	3	16											Kurile Islands	
1083	3	13–01–09.7	34.05N	135.76E	81					4.6	1.6	30	本州南部南海岸近海	
	3	21											Near south coast of Southern Honshu	
1084	3	13–26–06.4	3.08N	123.23E	487					4.8	1.1	81	西里伯斯海	
	3	21											Celebes Sea	

1085	3	16–41–59.2	18.74N	120.72E	31	4.6	4.6	5.4	4.5	5.1	2.1	89	吕宋岛
	4	00											Luzon
1086	3	19–14–54.6	57.91S	25.44W	33				4.8	5.5	1.5	32	南桑德韦奇群岛地区
	4	03											South Sandwich Islands region
1087	3	22–28–12.9	28.63N	130.42E	50					4.8	1.7	24	琉球群岛
	4	06											Ryukyu Islands
1088	4	01–59–06.3	12.69N	144.91E	30	5.3		5.6	5.1	5.2	1.5	70	马里亚纳群岛以南地区
	4	09											South of the Marianas
1089	4	02–58–15.6	38.59N	99.56E	13	4.2	5.0			4.3	2.4	39	青海省
	4	10											Qinghai Province
1090	4	05–19–52.7	73.46N	54.78E	5	4.7			4.6	5.9	0.9	91	新地岛
	4	13											Novaya Zemlya
1091	4	06–14–10.0	20.08N	121.83E	7	5.9	5.3	6.1	5.5	5.6	1.6	107	菲律宾群岛地区
	4	14											Philippine Islands region
1092	4	06–20–46.7	19.76N	121.95E	32					4.9	2.2	20	菲律宾群岛地区
	4	14											Philippine Islands region
1093	4	06–33–18.0	19.96N	121.88E	10	5.2	4.8		5.4	5.2	1.9	74	菲律宾群岛地区
	4	14											Philippine Islands region
1094	4	08–29–30.4	13.38N	124.68E	34					5.2	1.2	45	萨马岛
	4	16											Samar
1095	4	13–38–05.5	18.57N	146.52E	80	5.3		5.5		5.7	1.3	95	马里亚纳群岛
	4	21											Marianas
1096	4	13–59–21.9	31.58N	113.71E	12		3.4				1.9	23	中国东部
	4	21											Eastern China
1097	4	18–23–50.2	28.58N	129.21E	99					4.9	1.6	65	琉球群岛
	5	02											Ryukyu Islands
1098	4	19–43–09.3	25.19N	95.04E	90					4.7	2.0	50	缅甸——印度边境地区
	5	03											Burma–India border region
1099	4	21–42–43.2	20.08N	121.94E	24	4.1	3.8			4.5	1.7	41	菲律宾群岛地区
	5	05											Philippine Islands region
1100	4	22–56–43.7	22.03S	69.18E	8	5.0			5.0	5.4	1.3	44	中印度洋海丘
	5	06											Mid–Indian Rise
1101	5	00–34–03.4	36.29N	81.06E	10		4.1				2.9	8	克什米尔——西藏边境地区
	5	08											Kashmir–Tibet border region
1102	5	06–17–38.7	20.66N	93.62E	80	4.0				4.6	2.0	30	缅甸
	5	14											Burma
1103	5	10–00–58.6	20.03N	121.99E	25	4.3				4.5	2.8	33	菲律宾群岛地区
	5	18											Philippine Islands region
1104	5	10–44–48.5	6.93S	123.45E	612					4.7	1.5	17	佛罗勒斯海
	5	18											Flores Sea
1105	5	11–21–53.5	6.92S	123.31E	612				5.6	4.8	1.0	55	佛罗勒斯海
	5	19											Flores Sea
1106	5	11–22–06.6	6.97S	123.41E	625				5.4	5.2	1.3	58	佛罗勒斯海
	5	19											Flores Sea
1107	5	11–22–19.5	7.03S	123.28E	622				5.8	5.3	1.3	21	佛罗勒斯海
	5	19											Flores Sea
1108	5	14–52–00.8	38.71N	99.45E	13		3.2				2.9	5	青海省
	5	22											Qinghai Province
1109	5	16–05–31.9	15.36S	173.46W	36	6.0		6.2	6.3	6.0	1.3	82	汤加
	6	00											Tonga
1110	5	16–35–32.3	24.63S	178.74E	575					5.4	1.4	20	斐济以南地区
	6	00											South of Fiji

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1111	5	18–21–36.0	34.29N	101.14E	12		3.2			2.7	11	青海省
	6	02										Qinghai Province
1112	5	21–31–14.4	13.16N	120.18E	44	4.4		5.0	4.8	1.9	60	菲律宾群岛地区
	6	05										Philippine Islands region
1113	6	08–42–40.1	19.62N	120.11E	17	4.3	3.8		4.7	1.9	37	菲律宾群岛地区
	6	16										Philippine Islands region
1114	6	13–20–40.2	29.97N	51.54E	9	6.0		5.9	5.7	5.5	1.5	100 伊朗南部
	6	21										Southern Iran
1115	6	16–11–33.7	59.64N	153.10W	104				4.9	1.2	64	阿拉斯加州南部
	7	00										Southern Alaska
1116	6	17–18–13.5	44.39N	83.72E	17		3.1			2.6	5	新疆自治区北部
	7	01										Northern Xinjiang Province
1117	6	19–42–30.7	1.33S	15.23W	10	6.1		5.4	5.3	1.9	20	阿森松岛以北地区
	7	03										North of Ascension Island
1118	6	23–30–53.1	24.92N	123.15E	143				4.2	1.4	48	台湾地区
	7	07										Taiwan region
1119	7	05–08–19.6	44.43N	83.74E	6		3.3			2.5	7	新疆自治区北部
	7	13										Northern Xinjiang Province
1120	7	05–58–01.4	41.85N	88.65E	15		3.5			3.0	8	新疆自治区南部
	7	13										Southern Xinjiang Province
1121	7	07–41–23.5	41.00N	44.19E	5	7.1		6.7	6.8	6.2	1.3	119 土耳其——苏联边境地区
	7	15										Turkey–USSR border region
1122	7	08–06–27.6	40.93N	44.29E	9				4.8	1.3	16	土耳其——苏联边境地区
	7	16										Turkey–USSR border region
1123	7	09–06–39.2	31.80N	83.28E	33				4.8	2.0	38	西藏自治区
	7	17										Tibet
1124	7	09–34–33.2	41.00N	44.00E	9				5.0	1.4	60	土耳其——苏联边境地区
	7	17										Turkey–USSR border region
1125	7	13–53–28.1	52.75N	160.28E	34	5.1		4.6	5.0	1.0	57	堪察加东海岸远海
	7	21										Off east coast of Kamchatka
1126	7	18–03–08.0	46.23N	114.87E	23	4.2	4.7	4.9		2.8	34	蒙古
	8	02										Mongolia
1127	8	07–46–00.8	40.78N	44.24E	7				4.6	1.3	20	土耳其——苏联边境地区
	8	15										Turkey–USSR border region
1128	8	12–58–59.0	7.08N	82.58W	2	6.2		6.2	5.7	5.6	2.0	61 中美洲海岸远海
	8	20										Off coast of Central America
1129	8	15–32–46.6	23.40N	99.56E	9	5.1	4.9			4.9	1.8	72 缅甸——中国边境地区
	8	23										Burma–China border region
1130	8	20–32–07.1	41.26N	44.35E	13	4.7				4.8	1.2	37 土耳其——苏联边境地区
	9	04										Turkey–USSR border region
1131	9	07–49–25.8	59.85S	25.96W	33	5.8		6.2	5.6	5.5	2.5	43 南桑德韦奇群岛地区
	9	15										South Sandwich Islands region
1132	9	08–54–23.5	13.57N	120.82E	147				4.3	1.8	28	民都洛岛
	9	16										Mindoro
1133	9	10–50–44.8	39.23N	74.02E	9		3.8			3.2	9	塔吉克——新疆边境地区
	9	18										Tadzhikistan–Xinjiang border region
1134	9	11–01–11.2	38.55N	73.39E	26		3.5			2.5	6	塔吉克
	9	19										Tadzhikistan
1135	9	11–17–51.0	39.72N	140.51E	142				4.6	1.3	32	本州岛
	9	19										Honshu
1136	9	18–24–49.1	25.46N	122.46E	7	4.7	4.7		4.9	1.8	60	台湾岛
	10	02										Taiwan

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1137	9	19–55–36.5	34.52N	136.92E	342				4.6	1.0	67	本州南部	
	10	03										Southern Honshu	
1138	9	20–29–29.7	2.62S	77.59W	10				5.2	3.0	37	秘鲁——厄瓜多尔边境地区	
	10	04										Peru–Ecuador border region	
1139	9	23–10–46.7	20.02N	121.90E	29	4.1	4.7		5.2	1.4	76	菲律宾群岛地区	
	10	07										Philippine Islands region	
1140	10	07–30–24.8	37.01N	78.22E	17		3.6			2.5	11	克什米尔——新疆边境地区	
	10	15										Kashmir–Xinjiang border region	
1141	10	11–52–40.4	24.63N	122.23E	8	4.6	4.5		4.7	2.0	41	台湾岛	
	10	19										Taiwan	
1142	10	12–24–57.0	51.43N	176.35E	35	5.1		4.7	4.9	0.8	43	拉特群岛	
	10	20										Rat Islands	
1143	10	15–40–03.5	50.32S	130.96E	6	5.2		5.2	5.1	1.6	25	澳大利亚以南地区	
	10	23										South of Australia	
1144	10	17–33–19.6	16.47N	41.06E	9	5.7		5.9	5.4	5.2	1.3	74	埃塞俄比亚
	11	01										Ethiopia	
1145	10	23–43–25.5	39.65N	118.83E	11		3.0			1.9	10	中国东北部	
	11	07										North–Eastern China	
1146	11	03–25–51.0	40.47N	77.43E	5		3.5			3.2	6	新疆自治区南部	
	11	11										Southern Xinjiang Province	
1147	11	03–26–04.2	1.65N	125.49E	113				5.4	1.9	49	米那哈沙半岛(西里伯斯)	
	11	11										Minahassa Peninsula (Celebes)	
1148	11	05–18–25.9	53.54N	167.04W	90				5.0	1.5	41	福克斯群岛	
	11	13										Fox Islands	
1149	11	08–49–32.6	2.45S	77.53W	34			4.1	5.2	2.2	38	厄瓜多尔	
	11	16										Ecuador	
1150	11	09–49–04.1	25.88N	125.74E	130				5.0	1.5	76	琉球群岛西南部	
	11	17										South–western Ryukyu Islands	
1151	11	12–05–17.2	13.80S	170.60E	613				4.4	0.6	18	瓦努阿图(新赫布里底)地区	
	11	20										Vanuatu (New Hebrides) region	
1152	12	04–51–17.6	27.30N	128.46E	62	4.4	4.7	5.2	5.3	1.7	80	琉球群岛	
	12	12										Ryukyu Islands	
1153	12	10–08–30.3	5.57S	154.47E	147				5.0	1.0	35	新不列颠地区	
	12	18										New Britain region	
1154	12	13–32–20.1	5.25N	82.50W	11			5.1	5.3	1.9	43	中美洲海岸远海	
	12	21										Off coast of Central America	
1155	12	15–44–20.3	13.55N	124.68E	37	4.6		5.1	4.5	5.0	1.2	68	吕宋岛
	12	23										Luzon	
1156	13	04–01–37.2	71.09N	7.72W	9	6.0		5.9	5.6	5.7	1.2	99	扬马延岛地区
	13	12										Jan Mayen Island region	
1157	13	06–29–14.8	27.11N	87.87E	33		4.0			4.0	1.8	25	尼泊尔——印度边境地区
	13	14										Nepal–India border region	
1158	13	06–52–53.8	51.95N	175.97W	62	5.1		5.9		5.3	1.5	87	安德烈亚诺夫群岛
	13	14										Andreanof Islands	
1159	13	11–00–35.3	37.85N	21.26E	54					4.7	0.9	25	爱奥尼亚海
	13	19										Ionian Sea	
1160	13	16–55–09.3	28.73N	141.77E	52	4.1				5.3	1.3	70	小笠原群岛地区
	14	00										Bonin Islands region	
1161	13	21–04–56.8	23.42N	120.97E	5	4.3	3.8				2.0	15	台湾岛
	14	05										Taiwan	
1162	14	09–45–07.6	39.82N	20.40E	65				3.7	4.6	1.5	23	希腊——阿尔巴尼亚边境地区
	14	17										Greece–Albania border region	

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1163	14	11–46–01.9	39.28N	71.81E	57	5.3	5.1	5.5	5.0	5.3	1.3	85	阿富汗——苏联边境地区	
	14	19											Afghanistan–USSR border region	
1164	14	17–06–27.5	5.71N	117.82E	77					5.1	1.5	59	加里曼丹(婆罗洲)岛	
	15	01											Kalimantan (Borneo)	
1165	14	19–35–19.1	38.88N	120.03E	17		3.1				3.6	12	中国东北部	
	15	03											North–Eastern China	
1166	15	02–57–15.4	21.04N	120.84E	32	4.0	3.8			4.7	1.9	40	菲律宾群岛地区	
	15	10											Philippine Islands region	
1167	15	06–40–51.1	46.54N	95.59E	24	5.1	5.4			5.3	1.7	92	蒙古	
	15	14											Mongolia	
1168	15	07–04–04.1	30.21N	102.25E	10		3.4				2.4	9	四川省	
	15	15											Sichuan Province	
1169	15	09–21–17.6	51.28N	157.87E	37	4.5			4.5	5.3	0.9	76	千岛群岛	
	15	17											Kurile Islands	
1170	15	11–28–50.9	35.97N	80.78E	29		4.2				3.2	13	克什米尔——西藏边境地区	
	15	19											Kashmir–Tibet border region	
1171	15	21–49–33.6	31.48N	110.83E	15	3.8	4.0		4.3	4.5	2.5	34	中国东部	
	16	05											Eastern China	
1172	16	03–49–53.7	39.89N	118.61E	13		3.1				3.3	9	中国东北部	
	16	11											North–Eastern China	
1173	16	08–01–23.8	56.57N	152.38W	35	5.2			4.4	5.0	1.0	50	科迪亚克岛地区	
	16	16											Kodiak Island region	
1174	16	09–17–05.7	14.51N	90.35W	70					5.2	1.5	22	危地马拉	
	16	17											Guatemala	
1175	16	09–29–54.5	15.43S	172.90W	31				5.2	5.2	1.2	34	汤加	
	16	17											Tonga	
1176	16	09–57–16.2	29.71S	177.75W	33	6.2		6.5	6.2	6.1	1.0	91	克马德克群岛	
	16	17											Kermadec Islands	
1177	16	12–26–35.1	23.10S	66.67W	211					5.2	1.9	35	智利——阿根廷边境地区	
	16	20											Chile–Argentina border region	
1178	16	19–29–01.9	29.41N	142.10E	12	5.4		5.2	5.2	5.4	1.2	102	小笠原群岛地区	
	17	03											Bonin Islands region	
1179	16	21–43–35.2	2.83S	138.77E	42					5.0	0.9	49	西伊里安	
	17	05											West Irian	
1180	16	22–21–30.3	33.30N	121.39E	36		3.1				1.9	6	中国东部	
	17	06											Eastern China	
1181	16	22–30–33.7	12.64N	143.57E	88					5.0	1.0	45	马里亚纳群岛以南地区	
	17	06											South of the Marianas	
1182	17	00–58–14.6	26.86S	167.53E	34	5.6			5.3	5.6	1.3	66	诺福克岛地区	
	17	08											Norfolk Island region	
1183	17	04–18–06.2	49.92N	78.95E	0	5.0	6.1	5.6	4.5	5.9	1.1	129	哈萨克东部	
	17	12											Eastern Kazakhstan	
1184	17	09–28–09.3	24.27N	121.97E	13		3.7				1.8	13	台湾岛	
	17	17											Taiwan	
1185	17	13–30–56.2	1.89S	139.12E	43				4.7	5.4	0.9	56	西伊里安	
	17	21											West Irian	
1186	17	23–04–20.0	40.40N	115.54E	12		3.0				3.0	8	中国东北部	
	18	07											North–Eastern China	
1187	18	07–30–38.8	10.50S	123.69E	31	5.0				4.7	1.5	39	帝汶以南地区	
	18	15											South of Timor	
1188	18	10–38–33.5	10.90S	164.64E	32				4.5	5.0	2.2	38	圣克鲁斯群岛地区	
	18	18											Santa Cruz Islands region	

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1189	18	12-57-28.6	10.74S	164.77E	36			4.5	5.1	1.7	30	圣克鲁斯群岛地区
	18	20										Santa Cruz Islands region
1190	18	14-55-58.0	17.86S	177.96W	536				5.4	1.0	43	斐济地区
	18	22										Fiji region
1191	18	16-05-04.0	1.29N	126.25E	84				4.6	0.6	13	马鲁古海峡
	19	00										Molucca Passage
1192	18	19-21-51.1	47.09N	153.74E	30	5.4		5.4	5.3	5.4	1.2	93 千岛群岛
	19	03										Kurile Islands
1193	18	23-21-25.6	47.70N	152.98E	30				4.7	1.4	15	千岛群岛
	19	07										Kurile Islands
1194	19	02-05-14.2	38.41N	72.40E	20		3.9			2.5	9	阿富汗——苏联边境地区
	19	10										Afghanistan-USSR border region
1195	19	02-26-53.8	47.00N	153.81E	30	4.9		4.5	5.2	1.4	67	千岛群岛
	19	10										Kurile Islands
1196	19	02-28-51.5	47.08N	153.79E	32	4.9		5.0	5.2	1.1	50	千岛群岛
	19	10										Kurile Islands
1197	19	03-29-32.9	38.45N	101.55E	17		3.7			4.5	6	青海省
	19	11										Qinghai Province
1198	19	05-18-53.5	10.70S	164.44E	77	5.3			4.7	2.2	52	所罗门群岛
	19	13										Solomon Islands
1199	19	06-35-41.1	10.74S	164.45E	56	5.4		5.2	5.3	1.2	70	所罗门群岛
	19	14										Solomon Islands
1200	19	06-49-59.3	10.86S	164.38E	30				4.8	1.5	27	所罗门群岛
	19	14										Solomon Islands
1201	19	11-06-54.7	23.30N	99.57E	15	5.3	5.6	5.6	4.9	5.0	1.9	88 缅甸——中国边境地区
	19	19										Burma-China border region
1202	19	12-13-42.8	38.70N	99.58E	15	3.4	4.1			2.1	16	青海省
	19	20										Qinghai Province
1203	19	14-01-46.8	23.25N	99.57E	17	4.0	4.5		4.6	2.2	30	缅甸——中国边境地区
	19	22										Burma-China border region
1204	19	15-39-29.8	36.09N	78.39E	38		5.1			2.9	15	克什米尔东部
	19	23										Eastern Kashmir
1205	19	18-31-51.5	43.74N	119.91E	12		3.0			1.6	5	中国东北部
	20	02										North-Eastern China
1206	19	18-59-47.2	8.47S	106.29E	34	5.0		4.3	4.8	1.5	58	爪哇以南地区
	20	02										South of Java
1207	19	20-27-21.7	23.10N	117.16E	28		3.1			2.9	6	中国东南沿海
	20	04										Near south-eastern coast of China
1208	19	23-02-07.8	23.30N	121.53E	5		3.7			2.3	13	台湾地区
	20	07										Taiwan region
1209	20	02-45-21.4	24.42S	179.95E	523				5.1	1.2	24	斐济以南地区
	20	10										South of Fiji
1210	20	03-35-17.5	1.87N	97.10E	37	5.4		5.9	5.0	5.5	1.0	99 北苏门答腊西海岸远海
	20	11										Off west coast of Northern Sumatera
1211	20	04-21-01.2	35.89N	80.94E	16		3.6			2.3	7	克什米尔——西藏边境地区
	20	12										Kashmir-Tibet border region
1212	20	09-45-43.1	27.65N	91.13E	32	4.6			5.0	1.9	70	不丹
	20	17										Bhutan
1213	20	10-18-36.7	44.01N	146.18E	113			5.6	5.3	1.1	94	北海道地区
	20	18										Hokkaido region
1214	20	14-17-08.3	19.55S	68.91W	100				5.0	2.9	18	智利北部
	20	22										Northern Chile

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1215	20	14-27-59.3	27.88S	176.50W	36	5.3		5.8	5.2	5.3	1.0	68	克马德克群岛地区
	20	22											Kermadec Islands region
1216	20	20-24-23.9	10.70S	164.67E	36	5.0			4.8	5.4	1.0	66	圣克鲁斯群岛地区
	21	04											Santa Cruz Islands region
1217	21	02-37-11.0	51.90N	175.50E	30	4.9			4.6	5.0	1.1	70	拉特群岛
	21	10											Rat Islands
1218	21	04-09-15.7	51.36N	158.86E	35	4.7				4.9	0.9	27	千岛群岛地区
	21	12											Kurile Islands region
1219	21	08-20-58.2	10.84N	125.53E	103			5.4		5.1	1.4	66	莱特岛
	21	16											Leyte
1220	21	08-21-03.0	41.34N	72.25E	34	4.9	5.6	5.3	4.8	5.4	1.6	58	塔吉克
	21	16											Tadzhikistan
1221	21	10-53-29.6	42.02N	142.47E	75	4.0				5.3	1.4	95	北海道地区
	21	18											Hokkaido region
1222	21	11-58-41.3	35.42N	27.42E	35				4.2	4.8	1.2	58	克里特岛
	21	19											Crete
1223	21	22-53-27.0	16.69S	173.98W	110					4.8	1.2	18	汤加
	22	06											Tonga
1224	22	00-05-59.3	26.94N	104.28E	8		3.3				2.0	10	云南省
	22	08											Yunnan Province
1225	22	01-44-12.4	49.63N	156.31E	33				4.5	5.3	1.2	58	千岛群岛
	22	09											Kurile Islands
1226	22	03-08-05.2	25.33N	124.05E	181					4.3	1.7	27	琉球群岛西南部
	22	11											South-western Ryukyu Islands
1227	22	03-49-46.6	23.22N	99.51E	12	4.2	4.4			5.0	2.3	24	缅甸——中国边境地区
	22	11											Burma-China border region
1228	22	07-34-39.1	9.38S	107.93E	42				4.4	4.8	0.9	35	爪哇以南地区
	22	15											South of Java
1229	22	08-15-55.5	59.54S	25.86W	34				4.9	4.9	1.7	26	南桑德韦奇群岛地区
	22	16											South Sandwich Islands region
1230	22	09-56-49.4	38.46N	21.91E	37					4.6	1.3	24	希腊南部
	22	17											Southern Greece
1231	22	09-57-33.4	36.68N	83.77E	25		3.9				3.2	7	新疆自治区南部
	22	17											Southern Xinjiang Province
1232	22	10-42-11.6	54.13N	166.27W	77					5.4	0.9	80	福克斯群岛
	22	18											Fox Islands
1233	22	14-48-43.0	31.07N	130.47E	174					4.9	1.6	68	九州岛
	22	22											Kyushu
1234	22	18-54-04.4	33.44N	100.86E	10	4.1	4.1				2.8	26	四川省
	23	02											Sichuan Province
1235	23	03-00-39.8	43.47N	144.34E	25	4.5				4.6	1.5	50	北海道地区
	23	11											Hokkaido region
1236	23	04-30-07.0	10.75S	164.77E	42	5.4		5.5	5.3	5.2	1.3	71	圣克鲁斯群岛地区
	23	12											Santa Cruz Islands region
1237	23	13-50-07.5	44.49N	149.25E	21					4.8	1.7	42	千岛群岛地区
	23	21											Kurile Islands region
1238	23	18-00-45.9	20.44S	178.22W	530					4.8	0.7	29	斐济地区
	24	02											Fiji region
1239	23	19-19-07.7	30.16N	108.13E	7		3.5				2.4	18	四川省
	24	03											Sichuan Province
1240	23	19-31-15.2	44.28N	149.27E	24					4.8	1.6	37	千岛群岛地区
	24	03											Kurile Islands region

1241	23	21–49–08.7	0.93N	29.35W	9			6.1	5.5	5.8	1.9	30	中大西洋中部海岭
	24	05											Central Mid–Atlantic Ridge
1242	24	04–19–14.4	19.85N	121.94E	17	4.4	3.8			4.3	2.5	24	菲律宾群岛地区
	24	12											Philippine Islands region
1243	24	04–26–54.5	23.51S	66.75W	191			5.7		5.7	1.1	81	智利——阿根廷边境地区
	24	12											Chile–Argentina border region
1244	24	05–21–34.3	4.86S	153.44E	84					4.1	1.1	12	新不列颠地区
	24	13											New Britain region
1245	24	06–42–37.2	1.94S	138.82E	33					4.5	2.5	12	西伊里安
	24	14											West Irian
1246	24	07–22–37.2	20.07N	121.98E	14	4.2	4.0			4.5	2.1	45	菲律宾群岛地区
	24	15											Philippine Islands region
1247	24	07–54–43.8	20.35N	121.76E	55	4.5	3.9			4.5	2.3	64	菲律宾群岛地区
	24	15											Philippine Islands region
1248	24	10–39–40.1	27.30S	63.27W	575			5.5		5.5	1.0	73	阿根廷圣地亚哥德尔埃斯特罗省
	24	18											Santiago del Estero Province,Argenti
1249	24	13–09–39.8	5.05S	149.85E	363			5.7		5.6	0.8	105	新不列颠地区
	24	21											New Britain region
1250	24	14–27–20.7	10.83S	164.81E	37					4.9	1.0	22	圣克鲁斯群岛地区
	24	22											Santa Cruz Islands region
1251	24	15–35–11.1	42.30N	144.68E	34					4.4	1.8	20	北海道地区
	24	23											Hokkaido region
1252	24	21–41–56.3	36.74N	83.47E	33	4.4	4.9		4.4	4.8	2.1	49	新疆自治区南部
	25	05											Southern Xinjiang Province
1253	24	23–05–59.1	36.92N	83.58E	15		3.6				3.1	11	新疆自治区南部
	25	07											Southern Xinjiang Province
1254	24	23–16–26.2	36.78N	84.11E	7		3.5				2.8	11	新疆自治区南部
	25	07											Southern Xinjiang Province
1255	25	03–41–42.5	23.07N	99.65E	0		4.1				3.4	13	缅甸——中国边境地区
	25	11											Burma–China border region
1256	25	05–41–05.9	39.49N	94.65E	15		3.7				2.0	6	青海省
	25	13											Qinghai Province
1257	25	12–12–12.1	43.61N	146.07E	82					4.4	1.2	51	北海道地区
	25	20											Hokkaido region
1258	25	13–12–05.5	36.70N	70.89E	227					4.6	1.2	33	兴都库什地区
	25	21											Hindu Kush region
1259	25	18–12–54.9	36.86N	83.44E	32	4.4	4.7			4.4	2.0	42	新疆自治区南部
	26	02											Southern Xinjiang Province
1260	26	02–48–46.5	23.37N	99.50E	26	4.3	4.1			4.4	1.8	24	缅甸——中国边境地区
	26	10											Burma–China border region
1261	26	03–33–59.1	37.26N	71.87E	153					4.3	1.6	23	阿富汗——苏联边境地区
	26	11											Afghanistan–USSR border region
1262	26	06–12–29.2	38.01N	106.42E	10		3.2				2.5	10	中国北部
	26	14											Northern China
1263	26	07–45–59.7	39.07N	100.03E	10	4.9	4.9		4.2	5.1	2.1	84	青海省
	26	15											Qinghai Province
1264	26	09–22–15.6	35.83N	80.89E	23		4.1				1.8	11	克什米尔——西藏边境地区
	26	17											Kashmir–Tibet border region
1265	26	09–24–13.0	39.21N	100.18E	15		3.9				2.9	6	青海省
	26	17											Qinghai Province
1266	26	14–43–49.9	43.28N	82.24E	5		3.2				2.1	8	新疆自治区北部
	26	22											Northern Xinjiang Province

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1267	27	02–56–02.7	27.78N	87.96E	64	4.6			4.6	1.8	52	尼泊尔	
	27	10										Nepal	
1268	27	10–06–35.9	29.10S	68.49W	102				5.2	1.9	19	阿根廷圣胡安省	
	27	18										San Juan Province, Argentina	
1269	27	13–50–40.9	4.84N	95.13E	59	4.8			5.3	1.1	83	北苏门答腊西海岸远海	
	27	21										Off west coast of Northern Sumatera	
1270	27	18–15–52.4	23.23N	94.63E	116			5.5	4.9	1.7	82	缅甸	
	28	02										Burma	
1271	27	18–51–49.1	24.03N	122.73E	19	4.9	4.7		4.4 5.1	1.9	74	台湾地区	
	28	02										Taiwan region	
1272	27	23–14–06.1	36.73N	83.44E	32	4.8	5.1		4.4 5.0	1.8	69	新疆自治区南部	
	28	07										Southern Xinjiang Province	
1273	28	00–29–36.4	26.96N	96.92E	21	4.3	4.2		4.6	2.5	52	缅甸	
	28	08										Burma	
1274	28	02–04–52.0	32.85N	139.28E	216				4.9	1.2	71	本州以南地区	
	28	10										South of Honshu	
1275	28	05–19–30.8	37.98N	142.52E	30	4.1			4.6	1.6	37	本州东海岸远海	
	28	13										Off east coast of Honshu	
1276	28	05–53–31.7	12.41N	124.67E	31	4.3			4.4 5.0	1.6	65	莱特岛	
	28	13										Leyte	
1277	28	08–58–52.6	8.25S	121.15E	215				5.2	1.3	42	佛罗勒斯地区	
	28	16										Flores region	
1278	28	09–02–07.2	36.30N	140.04E	51	3.5			4.5	2.9	26	本州南海岸近海	
	28	17										Near south coast of Honshu	
1279	28	16–36–38.7	21.77N	121.74E	30	4.5	4.3		4.1 4.6	1.7	71	台湾地区	
	29	00										Taiwan region	
1280	28	21–40–26.1	22.56N	115.22E	33		3.3			1.6	6	中国东南沿海	
	29	05										Near south–eastern coast of China	
1281	29	05–08–24.5	18.63S	169.30E	251				5.0	0.9	60	瓦努阿图(新赫布里底)	
	29	13										Vanuatu (New Hebrides)	
1282	29	14–09–49.9	33.92N	139.40E	18	4.8			4.5 4.8	2.4	51	本州以南地区	
	29	22										South of Honshu	
1283	29	19–09–56.5	36.53N	141.06E	60	4.2			4.9	1.7	72	本州东海岸近海	
	30	03										Near east coast of Honshu	
1284	29	19–30–03.4	47.05N	153.92E	30	5.2		5.4	5.1 5.2	1.4	79	千岛群岛	
	30	03										Kurile Islands	
1285	29	22–33–36.1	5.46S	150.24E	148				5.2	1.0	41	新不列颠地区	
	30	06										New Britain region	
1286	29	22–55–20.6	36.82N	83.49E	31	4.6	4.4		4.2	3.1	21	新疆自治区南部	
	30	06										Southern Xinjiang Province	
1287	30	00–27–48.5	2.88S	141.66E	20	5.5		5.8	5.4 5.4	1.3	89	新几内亚	
	30	08										New Guinea	
1288	30	02–12–47.1	1.80S	133.88E	29				4.1 4.7	0.9	13	西伊里安地区	
	30	10										West Irian region	
1289	30	07–10–19.8	23.76S	175.06W	38				5.2	0.9	35	汤加以南地区	
	30	15										South of Tonga	
1290	30	10–49–36.2	22.49N	93.98E	72				4.5	1.7	39	缅甸	
	30	18										Burma	
1291	30	14–30–31.8	2.97S	141.41E	34	4.8			4.5 5.0	1.5	48	西伊里安	
	30	22										West Irian	
1292	30	14–36–26.1	5.26S	151.11E	157				4.8	1.3	34	新不列颠地区	
	30	22										New Britain region	

1293	30	16–16–04.2	3.01S	141.40E	31			3.6	4.3	2.2	19	西伊里安
	31	00										West Irian
1294	30	16–38–04.8	8.67S	106.16E	27	4.9			5.0	1.3	66	爪哇以南地区
	31	00										South of Java
1295	30	17–40–26.4	24.01N	122.99E	12	3.7	3.7		4.7	1.9	25	台湾地区
	31	01										Taiwan region
1296	30	22–05–24.7	5.19S	103.69E	95				4.5	1.2	26	苏门答腊南部
	31	06										Southern Sumatera
1297	31	04–07–09.7	40.92N	43.91E	10			4.3	4.7	1.3	29	土耳其——苏联边境地区
	31	12										Turkey–USSR border region
1298	31	04–52–06.1	2.45S	126.32E	36			3.5	4.7	2.2	23	斯兰海
	31	12										Ceram Sea
1299	31	05–32–58.0	10.24S	161.61E	92				5.1	1.4	53	所罗门群岛
	31	13										Solomon Islands
1300	31	05–46–09.5	36.46N	94.38E	7		3.6			3.8	7	青海省
	31	13										Qinghai Province
1301	31	07–15–48.7	17.69S	178.44W	506				5.0	0.8	53	斐济地区
	31	15										Fiji region
1302	31	11–17–20.6	7.36S	128.48E	137				5.1	0.9	65	班达海
	31	19										Banda Sea
1303	31	19–22–44.3	51.30N	176.96W	45				4.6	1.5	15	安德烈亚诺夫群岛
	1	03										Andreanof Islands
1304	31	19–57–16.0	46.96N	153.84E	32				4.8	1.6	40	千岛群岛
	1	03										Kurile Islands
1305	31	20–26–06.5	32.68S	72.12W	35			4.9	5.1	1.2	26	中智利海岸远海
	1	04										Off coast of Central Chile
1306	31	20–26–14.1	37.37N	71.98E	172				4.3	1.4	15	阿富汗——苏联边境地区
	1	04										Afghanistan–USSR border region
1307	31	20–54–23.0	51.28S	139.39E	11			4.6	5.4	1.5	32	澳大利亚以南地区
	1	04										South of Australia
1308	31	21–46–44.5	32.44S	71.88W	32				5.3	1.5	19	中智利海岸远海
	1	05										Off coast of Central Chile

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2. 国内及邻区地震目录 Catalogue of earthquakes within and near China

No.	Origin time UTC d	h	min	s	Geographic coordinates Lat	Long	Depth (km)	Magnitudes Ms China	M_L China	m_B NEIC	Msz NEIC	m_b NEIC	SD	No. Sta. used	Region and comments
	July 1988														
1	2	02	46	32.0	44.55N	125.88E	14		3.1				1.8	6	中国东北部
	2	10	(BTC)												North-Eastern China
2	3	05	20	39.8	25.16N	121.53E	20	5.0	4.6	5.2	4.7		1.8	36	台湾岛
	3	13													Taiwan
3	4	00	54	34.3	43.68N	87.99E	10		4.4				2.4	13	新疆自治区北部
	4	08													Northern Xinjiang Province
4	4	01	01	23.8	43.78N	88.11E	16		3.5				2.5	6	新疆自治区北部
	4	09													Northern Xinjiang Province
5	5	07	36	20.8	28.08N	91.21E	11	4.4			4.9		2.2	65	不丹
	5	15													Bhutan
6	5	14	59	25.9	29.43N	104.19E	11		3.2				2.2	12	四川省
	5	22													Sichuan Province
7	6	03	40	04.1	22.61N	117.71E	5		3.7				2.9	14	台湾地区
	6	11													Taiwan region
8	7	01	09	57.8	46.70N	116.33E	15	4.4	5.0		4.4		2.3	45	蒙古
	7	09													Mongolia
9	7	04	09	45.3	22.35N	118.52E	15		3.0				4.2	6	台湾地区
	7	12													Taiwan region
10	9	00	57	34.2	41.77N	82.76E	17		3.2				2.9	8	新疆自治区南部
	9	08													Southern Xinjiang Province
11	9	15	14	17.3	39.88N	74.94E	5		4.0				3.0	7	新疆自治区南部
	9	23													Southern Xinjiang Province
12	9	18	50	34.0	37.11N	114.68E	11		3.0				1.8	7	中国东部
	10	02													Eastern China
13	9	18	59	33.9	31.79N	99.73E	13		3.1				4.1	5	四川省
	10	02													Sichuan Province
14	10	00	54	43.4	40.46N	122.39E	9		3.0				2.0	7	中国东北部
	10	08													North-Eastern China
15	11	05	16	41.7	41.73N	80.07E	5		3.5				4.9	9	吉尔吉斯——新疆边境地区
	11	13													Kirgiziya-Xinjiang border region
16	12	19	27	00.6	29.72N	107.00E	7		3.1				1.8	6	四川省
	13	03													Sichuan Province
17	12	23	23	01.5	24.84N	123.13E	144				4.5		1.7	61	台湾地区
	13	07													Taiwan region
18	13	04	18	45.2	31.73N	99.68E	5		3.0				4.3	7	四川省
	13	12													Sichuan Province
19	13	06	49	45.4	40.47N	122.13E	9		3.0				0.9	5	中国东北部
	13	14													North-Eastern China
20	14	08	09	07.0	25.22N	123.53E	182			5.2		4.8	1.4	72	琉球群岛西南部
	14	16													South-western Ryukyu Islands
21	15	13	24	08.1	35.06N	109.98E	4		3.1				1.7	8	中国东部
	15	21													Eastern China
22	16	19	53	26.7	19.91N	121.78E	28	5.4	5.0	5.6	5.2	5.3	1.7	105	菲律宾群岛地区
	17	03													Philippine Islands region
23	17	03	23	04.1	20.08N	121.95E	8	5.9	5.4	5.9	5.6	5.4	1.8	100	菲律宾群岛地区
	17	11													Philippine Islands region

24	18	03–05–10.0	31.66N	104.11E	12	4.2	4.6			2.4	50	四川省	
	18	11										Sichuan Province	
25	18	04–45–02.9	31.61N	104.17E	16		3.7			2.5	16	四川省	
	18	12										Sichuan Province	
26	18	14–45–58.9	19.97N	122.13E	5	5.0			4.3	1.9	52	菲律宾群岛地区	
	18	22										Philippine Islands region	
27	18	14–48–52.0	20.00N	122.28E	17	5.2		5.4	4.6	1.9	59	菲律宾群岛地区	
	18	22										Philippine Islands region	
28	18	17–17–16.5	20.13N	122.29E	28	4.6	3.7		4.2	1.8	41	菲律宾群岛地区	
	19	01										Philippine Islands region	
29	19	04–47–47.9	37.60N	114.95E	18		3.1			3.4	8	中国东北部	
	19	12										North–Eastern China	
30	19	08–11–18.9	25.87N	101.12E	6		3.1			2.3	6	云南省	
	19	16										Yunnan Province	
31	19	13–58–49.2	22.95N	118.81E	15		3.4			2.6	5	台湾地区	
	19	21										Taiwan region	
32	20	06–20–51.0	37.19N	72.85E	39	5.3	5.3	5.4	5.0 5.5	1.4	82	阿富汗——苏联边境地区	
	20	14										Afghanistan–USSR border region	
33	20	19–56–52.2	25.83N	101.11E	10		3.7		4.6	2.9	29	云南省	
	21	03										Yunnan Province	
34	20	23–15–35.5	23.99N	121.61E	47	6.0		6.1	5.8	1.9	104	台湾岛	
	21	07										Taiwan	
35	21	12–26–41.4	43.81N	87.29E	12		3.3			2.3	5	新疆自治区北部	
	21	20										Northern Xinjiang Province	
36	21	18–39–31.5	22.62N	121.61E	39	5.0	5.1	5.6	4.9	1.7	93	台湾地区	
	22	02										Taiwan region	
37	22	06–31–43.1	43.09N	83.94E	4		3.5			4.0	8	新疆自治区北部	
	22	14										Northern Xinjiang Province	
38	23	05–51–43.1	40.12N	113.99E	10	4.3	4.7		4.3	2.1	63	中国东北部	
	23	13										North–Eastern China	
39	23	16–02–19.5	37.68N	112.29E	10		3.7			2.4	23	中国东北部	
	24	00										North–Eastern China	
40	24	17–47–40.0	39.58N	118.12E	11		4.1			2.3	30	中国东北部	
	25	01										North–Eastern China	
41	24	18–46–08.8	19.99N	122.05E	47	4.3	4.0		4.5	2.0	49	菲律宾群岛地区	
	25	02										Philippine Islands region	
42	24	21–28–48.2	35.87N	80.98E	22	3.6	4.6			2.5	10	克什米尔——西藏边境地区	
	25	05										Kashmir–Tibet border region	
43	25	12–00–18.9	36.42N	82.88E	10		4.1			2.4	10	西藏自治区	
	25	20										Tibet	
44	25	13–11–32.1	31.26N	103.90E	12		3.2			3.8	10	四川省	
	25	21										Sichuan Province	
45	25	16–41–05.6	34.85N	79.64E	51		3.8		4.2	2.3	21	克什米尔——西藏边境地区	
	26	00										Kashmir–Tibet border region	
46	26	14–46–38.4	39.44N	118.20E	11		4.2			2.1	40	中国东北部	
	26	22										North–Eastern China	
47	26	22–55–20.9	35.28N	118.57E	12		3.7			3.3	22	中国东部	
	27	06										Eastern China	
48	27	07–07–44.1	31.74N	78.55E	47	4.4		3.7	4.4	2.4	27	西藏——印度边境地区	
	27	15										Tibet–India border region	
49	27	20–50–52.7	28.71N	105.84E	7		3.0			2.3	13	四川省	
	28	04										Sichuan Province	

50	27	23–44–47.5	34.63N	122.30E	10		3.4		2.7	8	黄海 Yellow Sea
	28	07									
51	28	23–28–12.7	40.21N	77.83E	14		4.4		2.0	16	新疆自治区南部 Southern Xinjiang Province
	29	07									
52	29	04–06–27.7	25.34N	99.99E	10		3.3		1.0	5	云南省 Yunnan Province
	29	12									
53	29	07–35–59.2	37.61N	80.69E	9		3.6		2.8	5	新疆自治区南部 Southern Xinjiang Province
	29	15									
54	30	10–44–30.7	39.60N	118.87E	10		3.8		2.1	28	中国东北部 North–Eastern China
	30	18									
55	31	08–27–23.9	39.83N	113.64E	10		3.1		4.0	8	中国东北部 North–Eastern China
	31	16									
56	31	14–19–08.2	27.25N	100.85E	9		3.8		2.9	15	云南省 Yunnan Province
	31	22									

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57	1	02–59–07.7	35.96N	80.83E	27		4.0		2.2	9	克什米尔——西藏边境地区 Kashmir–Tibet border region
	1	10									
58	1	13–01–23.6	40.23N	76.36E	12		3.5		2.2	8	新疆自治区南部 Southern Xinjiang Province
	1	21									
59	1	16–53–24.4	40.15N	77.50E	13		3.5		2.9	8	新疆自治区南部 Southern Xinjiang Province
	2	00									
60	2	08–26–08.8	25.27N	102.22E	15		3.5		3.2	8	云南省 Yunnan Province
	2	16									
61	3	01–05–27.6	39.55N	118.85E	4		3.3		2.1	13	中国东北部 North–Eastern China
	3	09									
62	3	09–44–13.6	39.65N	118.90E	10	4.3	4.3	4.9	2.1	51	中国东北部 North–Eastern China
	3	17									
63	4	02–22–29.5	24.26N	118.02E	5		3.1		2.0	10	中国东南沿海 Near south–eastern coast of China
	4	10									
64	6	00–36–24.1	25.15N	95.05E	93		7.0	6.8	1.7	106	缅甸——印度边境地区 Burma–India border region
	6	08									
65	6	05–51–50.4	39.24N	89.41E	5		4.3		3.3	11	新疆自治区南部 Southern Xinjiang Province
	6	13									
66	6	06–21–42.4	25.44N	94.99E	85	4.3		4.5	1.5	52	缅甸——印度边境地区 Burma–India border region
	6	14									
67	6	18–13–41.5	31.80N	99.52E	6		3.8		2.5	11	四川省 Sichuan Province
	7	02									
68	7	02–54–45.2	48.68N	90.73E	30		4.3		3.5	7	蒙古 Mongolia
	7	10									
69	7	04–12–53.3	40.40N	76.63E	23		4.2		3.0	19	新疆自治区南部 Southern Xinjiang Province
	7	12									
70	7	05–34–20.5	39.68N	71.93E	35	4.8	4.4	4.6	2.2	28	塔吉克 Tadzhikistan
	7	13									
71	7	19–24–40.9	33.38N	89.48E	34	4.8		4.6	1.9	40	西藏自治区 Tibet
	8	03									
72	8	16–12–13.3	39.62N	118.69E	12		3.3		2.1	16	中国东北部 North–Eastern China
	9	00									
73	8	16–14–22.8	25.40N	94.96E	95			4.8	1.6	41	缅甸——印度边境地区 Burma–India border region
	9	00									
74	9	02–51–26.3	43.93N	86.57E	13		3.4		1.3	6	新疆自治区北部 Northern Xinjiang Province
	9	10									

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75	9	16–51–36.1	24.26N	122.32E	51	4.9	4.7	5.5	4.5	5.3	1.5	96	台湾岛	
	10	00											Taiwan	
76	10	05–16–12.4	47.49N	130.07E	17		4.1				1.8	9	中国东北部	
	10	13											North–Eastern China	
77	11	01–32–24.9	29.94N	103.16E	11		3.1				2.8	7	四川省	
	11	09											Sichuan Province	
78	11	02–30–38.2	47.92N	130.80E	27		3.6				2.3	10	俄罗斯东部——中国东北边境地区	
	11	10											E. Russia–N.E. China border region	
79	11	03–40–53.8	21.87N	121.41E	17	5.1	4.9	5.3	4.9	5.4	1.4	100	台湾地区	
	11	11											Taiwan region	
80	11	12–56–16.4	39.69N	118.77E	14		3.2				2.7	10	中国东北部	
	11	20											North–Eastern China	
81	12	18–58–29.3	39.68N	74.38E	17	5.4		5.4	5.0	5.0	1.5	64	塔吉克——新疆边境地区	
	13	02											Tadzhikistan–Xinjiang border region	
82	12	18–58–47.2	39.85N	74.59E	33	5.4		5.5		5.7	1.7	49	新疆自治区南部	
	13	02											Southern Xinjiang Province	
83	13	01–35–30.2	27.89N	102.75E	11		3.0				3.1	9	四川省	
	13	09											Sichuan Province	
84	13	19–59–50.8	25.33N	95.06E	94			5.2		5.0	1.6	86	缅甸——印度边境地区	
	14	03											Burma–India border region	
85	14	17–50–49.6	22.83N	99.86E	15	5.0	5.0			4.7	1.9	64	缅甸——中国边境地区	
	15	01											Burma–China border region	
86	15	05–53–22.3	39.83N	118.40E	8		3.1				2.1	8	中国东北部	
	15	13											North–Eastern China	
87	15	13–23–32.8	23.10N	119.98E	5		4.1				2.2	18	台湾地区	
	15	21											Taiwan region	
88	15	15–52–03.8	26.45N	103.05E	6		3.2				2.3	8	云南省	
	15	23											Yunnan Province	
89	16	22–32–23.2	41.45N	79.63E	5		3.4				2.9	10	新疆自治区南部	
	17	06											Southern Xinjiang Province	
90	17	14–56–34.2	39.37N	72.32E	57	4.7	5.2			4.9	2.0	53	阿富汗——苏联边境地区	
	17	22											Afghanistan–USSR border region	
91	17	16–50–52.5	36.31N	80.87E	4		3.1			6.0	3.0	5	克什米尔——西藏边境地区	
	18	00											Kashmir–Tibet border region	
92	17	19–45–24.2	19.21N	121.08E	29	4.6	4.6	5.5	4.5	5.0	1.7	87	吕宋岛	
	18	03											Luzon	
93	19	10–34–21.2	39.77N	74.06E	7	4.1	4.6				2.6	12	塔吉克——新疆边境地区	
	19	18											Tadzhikistan–Xinjiang border region	
94	19	18–10–08.8	24.64N	122.58E	104			5.7		5.2	1.3	108	台湾地区	
	20	02											Taiwan region	
95	19	20–08–31.3	44.03N	84.50E	7		3.4				3.7	5	新疆自治区北部	
	20	04											Northern Xinjiang Province	
96	20	20–30–36.6	39.78N	74.18E	15		4.5				2.9	13	塔吉克——新疆边境地区	
	21	04											Tadzhikistan–Xinjiang border region	
97	21	03–50–44.3	37.52N	81.87E	5		3.5				3.0	5	新疆自治区南部	
	21	11											Southern Xinjiang Province	
98	21	13–16–29.0	25.32N	95.02E	82	4.3				4.9	1.9	73	缅甸——印度边境地区	
	21	21											Burma–India border region	
99	24	03–35–12.1	41.57N	81.48E	15	4.2	4.0			4.2	2.3	31	新疆自治区南部	
	24	11											Southern Xinjiang Province	
100	24	23–34–36.9	48.28N	123.60E	14		3.4				2.7	9	中国东北部	
	25	07											North–Eastern China	

101	25	06–39–58.7	24.23N	102.43E	9		3.6				3.0	11	云南省 Yunnan Province
	25	14											
102	26	03–20–28.5	27.00N	99.90E	2		3.0				4.9	5	云南省 Yunnan Province
	26	11											
103	27	06–19–35.7	38.25N	106.24E	17		3.7				3.4	6	中国北部 Northern China
	27	14											
104	27	15–15–56.6	39.61N	74.17E	12		3.9				2.4	6	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
	27	23											
105	27	19–50–56.8	22.18N	120.49E	51	4.5					2.5	10	台湾地区 Taiwan region
	28	03											
106	27	21–00–33.5	25.21N	122.36E	34	4.7				4.6	2.8	24	台湾岛 Taiwan
	28	05											
107	28	15–34–53.4	24.17N	122.44E	42	5.0	4.9	5.2	5.2	5.2	1.5	92	台湾岛 Taiwan
	28	23											
108	30	06–54–43.2	19.12N	120.84E	48	4.3	3.9		4.0	4.3	2.4	42	吕宋岛 Luzon
	30	14											
109	30	10–30–21.9	19.14N	120.93E	58	4.0					2.1	20	吕宋岛 Luzon
	30	18											
110	30	14–26–58.6	23.90N	107.94E	17		3.3				2.3	7	中国东部 Eastern China
	30	22											
111	31	05–09–01.4	22.71N	99.95E	15	4.1	4.3	4.3			2.4	23	缅甸——中国边境地区 Burma–China border region
	31	13											
112	31	08–00–50.3	36.11N	82.47E	14		3.8				4.0	7	新疆自治区南部 Southern Xinjiang Province
	31	16											

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113	2	08–12–17.3	31.69N	102.20E	20		3.3				2.3	7	四川省 Sichuan Province
	2	16											
114	2	19–47–34.4	40.79N	122.43E	9	4.0	4.6			4.3	1.9	44	中国东北部 North–Eastern China
	3	03											
115	2	20–02–21.8	40.79N	122.41E	20		3.0				2.1	7	中国东北部 North–Eastern China
	3	04											
116	2	23–27–29.7	35.67N	81.13E	15		4.2				4.6	8	克什米尔——西藏边境地区 Kashmir–Tibet border region
	3	07											
117	3	12–52–47.0	29.99N	97.39E	30	5.0	5.5	4.9		5.1	1.8	87	印度——中国边境地区 India–China border region
	3	20											
118	3	15–23–38.5	38.91N	103.01E	24		3.2				2.4	6	甘肃省 Gansu Province
	3	23											
119	3	15–25–08.7	39.82N	113.80E	10		3.3				2.2	11	中国东北部 North–Eastern China
	3	23											
120	4	04–34–00.8	32.42N	93.88E	32	3.4					3.7	11	西藏自治区 Tibet
	4	12											
121	6	01–18–19.1	42.05N	83.74E	13		4.0				1.9	13	新疆自治区南部 Southern Xinjiang Province
	6	09											
122	6	03–19–21.6	26.71N	102.55E	5		3.1				4.4	6	四川省 Sichuan Province
	6	11											
123	6	16–34–23.3	24.75N	122.15E	12	3.8	3.6			4.4	3.3	21	台湾岛 Taiwan
	7	00											
124	6	16–42–04.6	24.72N	121.91E	10	3.9	3.9			4.7	2.7	27	台湾岛 Taiwan
	7	00											
125	6	19–35–51.9	42.04N	83.75E	17		3.8				2.4	10	新疆自治区南部 Southern Xinjiang Province
	7	03											

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126	7 7	09–15–56.7	19.03N	120.97E	43	3.8	4.0		4.2	1.9	46	吕宋岛 Luzon
127	7 8	21–47–14.6 05	42.12N	83.58E	15		3.2			1.7	7	新疆自治区南部 Southern Xinjiang Province
128	8 8	06–12–56.7 14	42.07N	83.69E	14		3.8			1.9	10	新疆自治区南部 Southern Xinjiang Province
129	8 8	07–37–19.5 15	42.21N	83.61E	8		3.6			3.0	7	新疆自治区南部 Southern Xinjiang Province
130	8 8	10–36–55.4 18	24.96N	122.06E	5	3.9	3.7		4.6	2.3	28	台湾岛 Taiwan
131	8 8	12–03–51.0 20	24.88N	122.07E	12	3.6	3.5		4.1	2.2	22	台湾岛 Taiwan
132	8 8	12–45–23.7 20	40.13N	122.45E	19		3.0			2.6	6	中国东北部 North–Eastern China
133	8 8	15–42–08.2 23	24.76N	121.96E	8	4.3	4.0		3.1	2.2	51	台湾岛 Taiwan
134	8 9	18–54–42.1 02	24.09N	122.36E	36	4.3	4.2		4.4	1.5	60	台湾岛 Taiwan
135	8 9	21–10–22.5 05	42.13N	83.63E	13		3.1			1.7	6	新疆自治区南部 Southern Xinjiang Province
136	8 9	21–42–34.0 05	24.77N	121.97E	14	3.7	3.5		4.1	2.7	20	台湾岛 Taiwan
137	9 9	09–31–25.5 17	19.29N	121.12E	18	4.6	4.2	5.4 4.8	4.9	1.9	78	吕宋岛 Luzon
138	11 12	16–14–54.0 00	40.61N	77.77E	21		4.0			2.5	13	吉尔吉斯——新疆边境地区 Kirgiziya–Xinjiang border region
139	11 12	21–54–09.8 05	24.14N	121.56E	17		3.4			2.0	15	台湾岛 Taiwan
140	12 13	18–16–55.6 02	30.42N	103.15E	9		3.4			3.2	14	四川省 Sichuan Province
141	14 14	05–48–54.3 13	29.03N	111.02E	13		3.1			4.4	7	中国东部 Eastern China
142	14 15	18–27–44.1 02	39.98N	75.40E	31		3.8			3.2	7	新疆自治区南部 Southern Xinjiang Province
143	15 15	15–24–31.6 23	24.24N	123.85E	36		3.4			3.0	12	琉球群岛西南部 South–western Ryukyu Islands
144	16 16	06–30–28.6 14	37.45N	102.64E	10		3.2			3.4	8	青海省 Qinghai Province
145	16 16	11–39–19.9 19	30.85N	103.79E	17		3.1			3.2	8	四川省 Sichuan Province
146	17 17	01–58–27.0 09	31.39N	104.16E	27	4.1	3.8			3.2	18	四川省 Sichuan Province
147	17 17	04–14–48.7 12	24.33N	120.97E	19	3.3	3.6			2.2	20	台湾岛 Taiwan
148	17 17	10–09–28.6 18	40.05N	77.55E	20		3.5			4.7	6	新疆自治区南部 Southern Xinjiang Province
149	17 17	10–53–11.1 18	39.95N	77.43E	22		4.0			4.7	9	新疆自治区南部 Southern Xinjiang Province
150	17 18	21–01–49.8 05	38.65N	77.01E	24	3.7	3.8			3.5	9	新疆自治区南部 Southern Xinjiang Province
151	17 18	23–34–24.8 07	25.88N	116.27E	20	3.8	4.0			2.2	22	中国东部 Eastern China

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152	18	06–39–11.0	41.82N	88.79E	11		3.6			2.7	8	新疆自治区南部 Southern Xinjiang Province
	18	14										
153	18	10–33–09.2	27.09N	104.40E	14	3.9	3.3			2.6	11	云南省 Yunnan Province
	18	18										
154	18	15–38–26.3	24.58N	122.23E	80	4.7		5.5	5.3	1.5	92	台湾岛 Taiwan
	18	23										
155	18	19–24–41.7	27.24N	104.43E	17		3.5			2.7	15	云南省 Yunnan Province
	19	03										
156	18	19–58–56.9	27.04N	104.32E	17		3.0			3.2	9	云南省 Yunnan Province
	19	03										
157	18	20–14–00.8	27.04N	104.48E	17		3.0			2.7	9	云南省 Yunnan Province
	19	04										
158	19	07–02–57.1	31.06N	99.56E	18		3.4			2.3	11	四川省 Sichuan Province
	19	15										
159	20	21–11–21.0	40.69N	82.11E	11		3.1			3.8	7	新疆自治区南部 Southern Xinjiang Province
	21	05										
160	21	01–53–00.6	42.29N	82.33E	5		3.3			3.5	8	新疆自治区南部 Southern Xinjiang Province
	21	09										
161	21	13–51–14.2	28.62N	85.64E	55		4.1		4.7	1.4	40	尼泊尔 Nepal
	21	21										
162	21	16–12–24.9	38.00N	106.24E	5		3.5			2.8	14	中国北部 Northern China
	22	00										
163	22	09–24–51.2	45.25N	117.15E	14		3.9			2.9	15	中国东北部 North–Eastern China
	22	17										
164	23	04–46–39.1	39.61N	74.48E	24	5.0		4.8	5.3	1.6	64	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
	23	12										
165	23	06–07–21.3	40.02N	74.19E	8		4.3			2.6	10	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
	23	14										
166	23	18–04–35.7	24.20N	122.16E	67	4.2	4.1		4.2	2.3	45	台湾岛 Taiwan
	24	02										
167	24	11–12–40.3	43.44N	88.80E	15		3.8			1.8	7	新疆自治区北部 Northern Xinjiang Province
	24	19										
168	25	09–58–26.0	23.14N	117.43E	31		3.2			1.5	7	中国东南沿海 Near south–eastern coast of China
	25	17										
169	29	06–59–59.0	41.80N	88.45E	8	3.6	4.4			2.3	36	新疆自治区南部 Southern Xinjiang Province
	29	14										
170	30	12–23–32.8	29.95N	99.12E	10		3.5			2.4	16	西藏自治区 Tibet
	30	20										
171	30	23–14–09.3	38.74N	99.54E	16	4.4	4.5		4.2	2.4	48	青海省 Qinghai Province
	1	07										

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172	1	10–17–25.2	35.42N	82.82E	18		4.4			2.6	6	西藏自治区 Tibet
	1	18										
173	1	10–35–38.1	29.31N	104.14E	5		3.6		3.8	2.5	19	四川省 Sichuan Province
	1	18										
174	1	23–32–15.8	38.65N	99.65E	13	3.9	4.7		3.5	2.7	27	青海省 Qinghai Province
	2	07										
175	2	06–47–07.9	40.54N	123.29E	4	3.6	4.1			2.3	16	中国东北部 North–Eastern China
	2	14										
176	3	06–30–57.7	38.41N	106.23E	11		3.8			3.2	9	中国北部 Northern China
	3	14										

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177	4 4	08-38-25.5	40.79N	122.97E	13	3.9	4.1			2.5	18	中国东北部 North-Eastern China
178	5 5	02-30-53.7	31.10N	104.52E	10		3.6			3.6	14	四川省 Sichuan Province
179	5 6	17-10-24.1	42.37N	85.80E	17		3.3			2.6	8	新疆自治区南部 Southern Xinjiang Province
180	6 6	09-05-53.6	25.66N	99.15E	5		3.4			3.0	8	缅甸——中国边境地区 Burma-China border region
181	6 6	13-10-54.1	39.69N	74.47E	38	4.4	4.4	4.7	5.0	2.3	33	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region
182	6 7	18-22-55.1	39.65N	74.41E	35	4.2	4.7	4.2	4.9	2.0	42	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region
183	7 7	00-48-18.8	41.86N	84.90E	10		3.2			2.8	7	新疆自治区南部 Southern Xinjiang Province
184	7 7	13-17-32.3	41.65N	81.08E	8		3.4			2.3	9	新疆自治区南部 Southern Xinjiang Province
185	7 7	14-16-51.4	31.13N	99.23E	6		3.0			2.6	5	西藏自治区 Tibet
186	8 8	00-39-27.7	39.04N	74.11E	16		4.0			3.5	7	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region
187	8 8	02-06-59.7	25.75N	99.21E	15		3.6			3.0	10	缅甸——中国边境地区 Burma-China border region
188	8 8	15-10-06.7	34.91N	103.78E	5		3.6			2.9	16	甘肃省 Gansu Province
189	9 9	12-03-23.7	38.67N	76.92E	25		3.9			3.0	11	新疆自治区南部 Southern Xinjiang Province
190	10 10	04-41-10.7	38.68N	116.14E	12		3.1			1.5	7	中国东北部 North-Eastern China
191	10 10	10-27-16.4	23.79N	121.82E	33	3.9	4.0		3.8	2.0	25	台湾岛 Taiwan
192	11 11	00-39-04.4	35.44N	101.97E	14		3.3			3.5	10	青海省 Qinghai Province
193	11 12	20-33-47.0	42.22N	84.84E	10		3.3			2.7	8	新疆自治区南部 Southern Xinjiang Province
194	12 12	10-46-05.6	24.83N	121.77E	106				4.9	1.4	62	台湾岛 Taiwan
195	12 13	23-11-31.2	39.67N	74.29E	18		3.9			3.9	7	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region
196	12 13	23-49-40.4	36.33N	103.26E	11	3.3	4.0			2.8	23	青海省 Qinghai Province
197	13 13	04-16-16.8	32.59N	100.00E	8		3.8			1.5	8	四川省 Sichuan Province
198	13 13	12-55-24.1	45.67N	85.37E	11	4.2	4.1			2.2	13	新疆自治区北部 Northern Xinjiang Province
199	14 14	03-15-26.2	40.25N	104.70E	5		3.5			1.6	11	中国北部 Northern China
200	16 16	12-09-27.3	21.91N	121.71E	31	6.2	5.3	6.2	5.8 5.3	1.7	105	台湾地区 Taiwan region
201	16 16	12-14-20.2	21.83N	121.72E	33	5.8	5.1		5.2	1.8	41	台湾地区 Taiwan region
202	16 16	12-36-57.7	21.75N	121.66E	27	4.8	4.8		5.2	1.9	72	台湾地区 Taiwan region

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203	17	04–13–47.5	41.00N	113.31E	11		3.1		1.1	6	中国东北部 North–Eastern China
	17	12									
204	17	05–07–22.0	21.89N	121.67E	21		3.7	4.8	2.0	39	台湾地区 Taiwan region
	17	13									
205	17	21–09–19.7	38.66N	80.10E	37		3.6		2.7	7	新疆自治区南部 Southern Xinjiang Province
	18	05									
206	17	22–06–47.9	30.14N	99.58E	30	3.8	3.4		2.7	14	四川省 Sichuan Province
	18	06									
207	19	14–19–30.1	30.10N	94.86E	33	4.6		4.8	2.2	58	印度——中国边境地区 India–China border region
	19	22									
208	20	14–26–09.9	43.89N	83.60E	26		3.6		1.9	8	新疆自治区北部 Northern Xinjiang Province
	20	22									
209	21	12–50–32.0	34.12N	122.21E	15		3.1		2.4	8	黄海 Yellow Sea
	21	20									
210	21	13–56–11.9	37.30N	112.21E	11		3.0		1.7	13	中国东部 Eastern China
	21	21									
211	21	18–19–37.1	36.04N	81.26E	5		4.1		2.0	8	克什米尔——西藏边境地区 Kashmir–Tibet border region
	22	02									
212	21	18–34–12.7	35.97N	81.06E	5		3.9		3.8	6	克什米尔——西藏边境地区 Kashmir–Tibet border region
	22	02									
213	22	00–11–07.4	20.74N	102.69E	14	4.5	4.8	4.0	2.3	33	印度支那半岛 Indo–Pacific Peninsula
	22	08									
214	22	03–37–45.9	43.08N	83.25E	5		3.0		2.2	6	新疆自治区北部 Northern Xinjiang Province
	22	11									
215	22	20–17–27.5	33.30N	96.45E	15	4.1	3.9	4.8	2.6	25	西藏自治区 Tibet
	23	04									
216	23	03–41–21.2	32.58N	93.83E	16	4.5	4.9	4.8	2.3	58	西藏自治区 Tibet
	23	11									
217	23	15–31–51.7	34.37N	92.01E	32	4.5		4.1	2.6	34	青海省 Qinghai Province
	23	23									
218	24	11–04–28.5	39.56N	95.42E	3	4.1	4.6		3.2	16	甘肃省 Gansu Province
	24	19									
219	24	16–07–22.9	31.56N	85.09E	31	4.5		4.3	3.5	11	西藏自治区 Tibet
	25	00									
220	25	17–29–48.8	39.85N	118.56E	19		3.2		1.8	15	中国东北部 North–Eastern China
	26	01									
221	26	03–20–57.7	27.03N	102.92E	15		3.4		2.5	9	四川省 Sichuan Province
	26	11									
222	26	19–16–59.2	43.25N	84.35E	28		3.4		1.9	9	新疆自治区北部 Northern Xinjiang Province
	27	03									
223	27	07–23–49.7	34.29N	91.91E	30	5.0			2.4	40	青海省 Qinghai Province
	27	15									
224	27	15–11–26.1	42.96N	84.42E	23		3.5		1.8	8	新疆自治区北部 Northern Xinjiang Province
	27	23									
225	27	18–12–02.9	34.43N	91.77E	33	4.4			3.1	24	青海省 Qinghai Province
	28	02									
226	28	13–14–20.8	42.42N	91.95E	9		3.1		2.6	5	新疆自治区南部 Southern Xinjiang Province
	28	21									
227	28	22–20–27.8	42.00N	82.09E	15		3.2		1.9	6	新疆自治区南部 Southern Xinjiang Province
	29	06									
228	29	09–39–53.2	35.12N	103.92E	12	4.1	4.1		2.5	20	甘肃省 Gansu Province
	29	17									

229	30	22-12-16.0	25.53N	119.70E	10		4.1			2.1	14	中国东南沿海	
	31	06										Near south-eastern coast of China	
	November	1988											
230	1	12-34-19.5	23.71N	103.31E	30		3.7			4.6	7	云南省	
	1	20										Yunnan Province	
231	1	20-24-18.7	42.94N	87.92E	26		3.6			4.0	9	新疆自治区北部	
	2	04										Northern Xinjiang Province	
232	3	21-42-43.4	35.44N	115.60E	14		3.2			2.0	13	中国东部	
	4	05										Eastern China	
233	4	18-03-52.9	20.40N	108.09E	7	4.6	5.0		4.4	2.6	37	印度支那半岛	
	5	02										Indo-Pacific Peninsula	
234	5	02-14-29.6	34.27N	91.87E	7	6.8		6.3 6.3	5.9	1.9	86	青海省	
	5	10										Qinghai Province	
235	5	04-58-06.1	34.13N	91.62E	28	4.3				2.5	22	青海省	
	5	12										Qinghai Province	
236	5	06-29-55.9	34.20N	91.32E	32	4.1				3.9	6	青海省	
	5	14										Qinghai Province	
237	5	06-49-03.3	34.40N	91.76E	30	4.3				3.3	16	青海省	
	5	14										Qinghai Province	
238	5	08-04-26.0	39.66N	95.49E	18		3.5			2.6	7	甘肃省	
	5	16										Gansu Province	
239	5	21-46-33.6	37.53N	112.51E	9		3.5		4.2	3.2	22	中国东北部	
	6	05										North-Eastern China	
240	6	10-10-40.2	38.99N	90.68E	5		3.2			4.8	6	新疆自治区南部	
	6	18										Southern Xinjiang Province	
241	6	13-03-16.8	22.92N	99.79E	13	7.4		6.7 7.3	6.1	1.9	103	缅甸——中国边境地区	
	6	21										Burma-China border region	
242	6	13-15-44.3	23.16N	99.55E	16	7.2			6.4	2.1	60	缅甸——中国边境地区	
	6	21										Burma-China border region	
243	6	13-39-48.5	22.87N	99.67E	18	5.7	4.8		5.0	1.8	31	缅甸——中国边境地区	
	6	21										Burma-China border region	
244	6	13-44-57.2	23.58N	99.28E	10		4.8		4.9	2.6	18	缅甸——中国边境地区	
	6	21										Burma-China border region	
245	6	14-13-24.3	23.24N	99.64E	7	5.5	5.4		5.1	2.2	72	缅甸——中国边境地区	
	6	22										Burma-China border region	
246	6	14-29-45.5	23.29N	99.55E	9	5.2	4.7		4.9	1.5	43	缅甸——中国边境地区	
	6	22										Burma-China border region	
247	6	14-45-58.5	22.91N	99.46E	23	4.7	4.2			2.7	18	缅甸——中国边境地区	
	6	22										Burma-China border region	
248	6	15-12-03.4	23.20N	100.32E	16	5.0	4.2			1.8	19	缅甸——中国边境地区	
	6	23										Burma-China border region	
249	6	15-49-18.2	22.40N	99.77E	35	4.7	4.4			2.0	15	缅甸——中国边境地区	
	6	23										Burma-China border region	
250	6	16-00-30.8	23.37N	99.52E	11	5.4	5.1	5.4	5.1	1.7	84	缅甸——中国边境地区	
	7	00										Burma-China border region	
251	6	16-19-05.6	22.66N	99.55E	2	4.2	4.4		4.4	2.2	8	缅甸——中国边境地区	
	7	00										Burma-China border region	
252	6	19-10-29.4	23.07N	99.57E	3	4.1	4.2			3.3	10	缅甸——中国边境地区	
	7	03										Burma-China border region	
253	6	20-01-18.3	23.47N	99.58E	26	4.3	4.5		3.8	2.7	17	缅甸——中国边境地区	
	7	04										Burma-China border region	

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254	6 7 04	20-24-24.0	23.03N	99.81E	10	5.6	5.1	5.5	4.9	5.4	1.7	88	缅甸——中国边境地区 Burma-China border region
255	6 7 04	20-35-27.8	23.36N	99.37E	10	5.0	4.8			4.9	2.1	48	缅甸——中国边境地区 Burma-China border region
256	6 7 05	21-19-04.6	23.22N	99.58E	9	4.8	4.7			4.2	2.1	46	缅甸——中国边境地区 Burma-China border region
257	6 7 05	21-47-51.3	22.86N	99.07E	5	4.3	4.3				4.1	10	缅甸——中国边境地区 Burma-China border region
258	6 7 06	22-40-22.4	22.88N	99.25E	5	4.5	4.7			4.6	2.9	24	缅甸——中国边境地区 Burma-China border region
259	7 7 10	02-21-51.6	33.19N	91.96E	8	5.1	5.1			4.8	2.3	62	西藏自治区 Tibet
260	7 7 10	02-39-55.4	23.46N	99.54E	7	5.3	4.9			4.9	2.2	69	缅甸——中国边境地区 Burma-China border region
261	7 7 12	04-40-23.9	25.06N	123.47E	161					4.9	1.4	76	台湾地区 Taiwan region
262	7 7 16	08-08-25.8	34.24N	91.84E	33	3.7					2.2	20	青海省 Qinghai Province
263	7 7 18	10-21-33.9	23.82N	99.49E	5	3.8	3.8				4.3	11	缅甸——中国边境地区 Burma-China border region
264	7 7 21	13-17-36.5	45.67N	85.34E	22		3.0				4.2	7	新疆自治区北部 Northern Xinjiang Province
265	7 8 03	19-32-35.6	23.00N	99.31E	5	4.1	4.1				2.9	16	缅甸——中国边境地区 Burma-China border region
266	7 8 04	20-50-31.1	23.48N	99.57E	21	4.0	4.2			4.4	3.0	23	缅甸——中国边境地区 Burma-China border region
267	7 8 06	22-00-25.2	23.30N	99.60E	9	4.3	3.9			4.2	2.7	31	缅甸——中国边境地区 Burma-China border region
268	8 8 09	01-51-06.6	22.83N	99.69E	34	3.7	4.2				1.9	13	缅甸——中国边境地区 Burma-China border region
269	8 8 15	07-01-07.1	23.04N	99.73E	5	4.2	4.2			4.8	2.2	37	缅甸——中国边境地区 Burma-China border region
270	8 8 17	09-53-08.7	22.89N	99.69E	5	4.0	4.0				2.6	15	缅甸——中国边境地区 Burma-China border region
271	9 9 09	01-14-05.7	23.02N	99.89E	5		4.1				2.2	12	缅甸——中国边境地区 Burma-China border region
272	9 9 20	12-32-15.5	23.39N	99.28E	5	4.2	4.2				2.2	21	缅甸——中国边境地区 Burma-China border region
273	10 10 09	01-17-49.0	21.28N	108.55E	9	4.8	5.3			4.6	2.4	50	中国东部 Eastern China
274	10 10 13	05-18-33.0	34.24N	91.82E	13	4.3	4.7				2.8	19	青海省 Qinghai Province
275	10 10 17	09-43-34.5	23.38N	99.36E	10	4.6	4.4			4.6	2.4	39	缅甸——中国边境地区 Burma-China border region
276	10 11 03	19-01-37.4	23.52N	121.94E	10		4.1			4.3	2.1	36	台湾岛 Taiwan
277	10 11 06	22-49-38.1	22.86N	99.80E	8		4.1				2.1	19	缅甸——中国边境地区 Burma-China border region
278	11 11 15	07-41-15.5	22.95N	99.65E	9	4.4	4.3			4.7	2.2	30	缅甸——中国边境地区 Burma-China border region
279	11 11 18	10-18-11.7	23.28N	99.50E	7	4.4	4.0				2.8	26	缅甸——中国边境地区 Burma-China border region

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280	11	19–16–41.0	23.58N	99.60E	5		4.0			3.2	16	缅甸——中国边境地区	
	12	03										Burma–China border region	
281	12	07–10–43.6	24.27N	98.93E	34		3.8			1.3	6	缅甸——中国边境地区	
	12	15										Burma–China border region	
282	12	09–20–15.2	23.42N	99.33E	26	4.1	4.0		4.5	2.8	18	缅甸——中国边境地区	
	12	17										Burma–China border region	
283	12	15–19–39.8	48.21N	84.63E	19		3.4			2.4	5	哈萨克——新疆边境地区	
	12	23										Kazakhstan–Xinjiang border region	
284	14	01–30–45.0	22.73N	99.60E	14	4.3	4.6			2.4	12	缅甸——中国边境地区	
	14	09										Burma–China border region	
285	15	02–30–37.0	33.87N	123.31E	29		3.5			0.8	5	黄海	
	15	10										Yellow Sea	
286	15	10–28–13.7	23.18N	99.71E	16	5.6	4.9	5.4	4.8 5.2	1.6	89	缅甸——中国边境地区	
	15	18										Burma–China border region	
287	15	16–56–45.7	41.99N	89.39E	32	4.6	5.4		4.3 5.0	1.7	59	新疆自治区南部	
	16	00										Southern Xinjiang Province	
288	15	20–08–47.3	39.46N	74.64E	32		3.8			3.5	7	塔吉克——新疆边境地区	
	16	04										Tadzhikistan–Xinjiang border region	
289	17	03–57–19.4	38.73N	99.68E	18		3.8			2.2	8	青海省	
	17	11										Qinghai Province	
290	17	04–57–20.9	39.35N	105.30E	2		3.1			2.4	7	中国北部	
	17	12										Northern China	
291	17	05–27–52.7	44.37N	84.71E	26		3.0			3.3	6	新疆自治区北部	
	17	13										Northern Xinjiang Province	
292	17	13–14–46.6	23.23N	99.46E	11	4.6	4.7		4.9	2.3	56	缅甸——中国边境地区	
	17	21										Burma–China border region	
293	17	23–24–03.4	35.94N	81.06E	16		3.7			2.8	5	克什米尔——西藏边境地区	
	18	07										Kashmir–Tibet border region	
294	18	00–53–43.9	43.30N	101.41E	5		4.3			3.4	8	蒙古	
	18	08										Mongolia	
295	18	13–15–04.7	40.89N	122.46E	9		3.0			2.0	6	中国东北部	
	18	21										North–Eastern China	
296	18	14–29–19.8	23.71N	99.33E	5	4.2	3.9		4.9	2.9	22	缅甸——中国边境地区	
	18	22										Burma–China border region	
297	18	15–09–41.6	44.62N	84.63E	19		3.0			2.1	5	新疆自治区北部	
	18	23										Northern Xinjiang Province	
298	18	18–21–43.7	23.24N	99.61E	10	4.7	4.7	5.5	5.0	2.1	65	缅甸——中国边境地区	
	19	02										Burma–China border region	
299	18	22–18–48.9	23.04N	99.75E	7	4.3	4.4		4.4	2.8	28	缅甸——中国边境地区	
	19	06										Burma–China border region	
300	19	01–37–12.0	23.09N	99.79E	12	4.9	4.8		5.0	1.9	78	缅甸——中国边境地区	
	19	09										Burma–China border region	
301	19	08–14–07.5	22.41N	120.78E	18	4.0	3.8		4.3	3.3	20	台湾地区	
	19	16										Taiwan region	
302	19	11–25–11.9	25.87N	100.49E	8	4.2	4.1			2.3	30	云南省	
	19	19										Yunnan Province	
303	19	13–33–05.0	26.05N	100.27E	25		3.5			4.3	13	云南省	
	19	21										Yunnan Province	
304	19	14–47–33.6	33.04N	103.95E	8		3.8			2.9	12	四川省	
	19	22										Sichuan Province	
305	20	01–35–33.7	23.45N	99.48E	33	4.2	4.3		4.7	2.2	32	缅甸——中国边境地区	
	20	09										Burma–China border region	

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306	20	13–13–19.2	42.19N	83.48E	26		3.0				2.3	5	新疆自治区南部
	20	21											Southern Xinjiang Province
307	21	17–46–02.0	38.57N	99.60E	24	5.2	5.4	5.0	4.6	4.8	1.9	87	青海省
	22	01											Qinghai Province
308	21	18–22–41.6	38.75N	99.70E	25		3.9			3.9	2.8	11	青海省
	22	02											Qinghai Province
309	22	15–20–43.5	41.74N	74.96E	31	4.4	4.6			4.9	1.9	25	吉尔吉斯
	22	23											Kirgiziya
310	23	03–57–10.3	49.75N	78.62E	5	4.4	5.1			5.3	1.2	50	哈萨克东部
	23	11											Eastern Kazakhstan
311	23	22–55–51.5	35.83N	80.81E	34		3.5				4.9	5	克什米尔——西藏边境地区
	24	06											Kashmir–Tibet border region
312	25	13–57–20.1	21.83N	121.54E	47		4.4				1.4	49	台湾地区
	25	21											Taiwan region
313	25	22–29–39.1	34.42N	91.93E	23	6.0		5.6	5.6	5.1	2.0	81	青海省
	26	06											Qinghai Province
314	26	00–39–13.7	34.36N	91.89E	32	4.0	4.4				2.6	24	青海省
	26	08											Qinghai Province
315	27	02–09–03.5	23.69N	100.35E	28		3.9				2.3	6	缅甸——中国边境地区
	27	10											Burma–China border region
316	27	03–50–35.5	40.51N	106.74E	27		3.2				3.9	6	中国北部
	27	11											Northern China
317	27	04–17–55.4	22.74N	99.94E	14	5.8	5.1	5.5	5.1	5.0	2.0	90	缅甸——中国边境地区
	27	12											Burma–China border region
318	27	22–21–43.2	34.38N	91.98E	33	4.9	4.3	5.3		4.5	2.5	61	青海省
	28	06											Qinghai Province
319	28	03–38–10.6	23.00N	99.75E	26	4.6	4.5			4.9	1.6	59	缅甸——中国边境地区
	28	11											Burma–China border region
320	29	08–13–57.9	24.43N	121.73E	30		3.3				1.5	11	台湾岛
	29	16											Taiwan
321	30	03–09–43.2	24.14N	94.53E	93					4.9	1.5	62	缅甸——印度边境地区
	30	11											Burma–India border region
322	30	08–13–29.0	22.76N	99.95E	13	6.5		6.3	6.0	5.6	1.8	111	缅甸——中国边境地区
	30	16											Burma–China border region
323	30	19–15–04.1	34.83N	94.92E	26		3.6				4.9	6	青海省
	1	03											Qinghai Province

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324	2	14–30–20.5	22.86N	100.02E	8	3.8	3.7				2.5	12	缅甸——中国边境地区
	2	22											Burma–China border region
325	2	16–59–13.1	29.62N	81.15E	34					4.5	1.5	19	尼泊尔——印度边境地区
	3	00											Nepal–India border region
326	2	18–15–07.9	30.25N	101.73E	15	4.4	4.4			4.6	2.4	63	四川省
	3	02											Sichuan Province
327	2	19–20–55.6	30.26N	101.81E	15	3.7	3.7				2.5	20	四川省
	3	03											Sichuan Province
328	2	23–59–11.6	36.20N	80.91E	25		3.9				3.4	8	克什米尔——西藏边境地区
	3	07											Kashmir–Tibet border region
329	3	02–56–38.4	46.61N	119.65E	15		3.5				2.9	10	中国东北部
	3	10											North–Eastern China
330	3	08–36–31.9	19.28N	119.85E	28						1.0	5	菲律宾群岛地区
	3	16											Philippine Islands region

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331	4 4	02–58–15.6	38.59N	99.56E	13	4.2	5.0		4.3	2.4	39	青海省 Qinghai Province
332	4 4	06–14–10.0	20.08N	121.83E	7	5.9	5.3	6.1 5.5	5.6	1.6	107	菲律宾群岛地区 Philippine Islands region
333	4 4	06–20–46.7	19.76N	121.95E	32				4.9	2.2	20	菲律宾群岛地区 Philippine Islands region
334	4 4	06–33–18.0	19.96N	121.88E	10	5.2	4.8		5.4 5.2	1.9	74	菲律宾群岛地区 Philippine Islands region
335	4 4	13–59–21.9	31.58N	113.71E	12		3.4			1.9	23	中国东部 Eastern China
336	4 5	21–42–43.2	20.08N	121.94E	24	4.1	3.8		4.5	1.7	41	菲律宾群岛地区 Philippine Islands region
337	5 5	00–34–03.4	36.29N	81.06E	10		4.1			2.9	8	克什米尔——西藏边境地区 Kashmir–Tibet border region
338	5 5	10–00–58.6	20.03N	121.99E	25	4.3			4.5	2.8	33	菲律宾群岛地区 Philippine Islands region
339	5 5	14–52–00.8	38.71N	99.45E	13		3.2			2.9	5	青海省 Qinghai Province
340	5 6	18–21–36.0	34.29N	101.14E	12		3.2			2.7	11	青海省 Qinghai Province
341	6 6	08–42–40.1	19.62N	120.11E	17	4.3	3.8		4.7	1.9	37	菲律宾群岛地区 Philippine Islands region
342	6 7	17–18–13.5	44.39N	83.72E	17		3.1			2.6	5	新疆自治区北部 Northern Xinjiang Province
343	6 7	23–30–53.1	24.92N	123.15E	143				4.2	1.4	48	台湾地区 Taiwan region
344	7 7	05–08–19.6	44.43N	83.74E	6		3.3			2.5	7	新疆自治区北部 Northern Xinjiang Province
345	7 7	05–58–01.4	41.85N	88.65E	15		3.5			3.0	8	新疆自治区南部 Southern Xinjiang Province
346	7 7	09–06–39.2	31.80N	83.28E	33				4.8	2.0	38	西藏自治区 Tibet
347	7 8	18–03–08.0	46.23N	114.87E	23	4.2	4.7	4.9		2.8	34	蒙古 Mongolia
348	8 8	15–32–46.6	23.40N	99.56E	9	5.1	4.9		4.9	1.8	72	缅甸——中国边境地区 Burma–China border region
349	9 9	10–50–44.8	39.23N	74.02E	9		3.8			3.2	9	塔吉克——新疆边境地区 Tadzhikistan–Xinjiang border region
350	9 9	11–01–11.2	38.55N	73.39E	26		3.5			2.5	6	塔吉克 Tadzhikistan
351	9 10	18–24–49.1	25.46N	122.46E	7	4.7	4.7		4.9	1.8	60	台湾岛 Taiwan
352	9 10	23–10–46.7	20.02N	121.90E	29	4.1	4.7		5.2	1.4	76	菲律宾群岛地区 Philippine Islands region
353	10 10	07–30–24.8	37.01N	78.22E	17		3.6			2.5	11	克什米尔——新疆边境地区 Kashmir–Xinjiang border region
354	10 10	11–52–40.4	24.63N	122.23E	8	4.6	4.5		4.7	2.0	41	台湾岛 Taiwan
355	10 11	23–43–25.5	39.65N	118.83E	11		3.0			1.9	10	中国东北部 North–Eastern China
356	11 11	03–25–51.0	40.47N	77.43E	5		3.5			3.2	6	新疆自治区南部 Southern Xinjiang Province

357	13 13	06–29–14.8	27.11N	87.87E	33		4.0		4.0	1.8	25	尼泊尔——印度边境地区 Nepal–India border region
358	13 14	21–04–56.8	23.42N	120.97E	5	4.3	3.8			2.0	15	台湾岛 Taiwan
359	14 15	19–35–19.1	38.88N	120.03E	17		3.1			3.6	12	中国东北部 North–Eastern China
360	15 15	02–57–15.4	21.04N	120.84E	32	4.0	3.8		4.7	1.9	40	菲律宾群岛地区 Philippine Islands region
361	15 15	06–40–51.1	46.54N	95.59E	24	5.1	5.4		5.3	1.7	92	蒙古 Mongolia
362	15 15	07–04–04.1	30.21N	102.25E	10		3.4			2.4	9	四川省 Sichuan Province
363	15 15	11–28–50.9	35.97N	80.78E	29		4.2			3.2	13	克什米尔——西藏边境地区 Kashmir–Tibet border region
364	15 16	21–49–33.6	31.48N	110.83E	15	3.8	4.0		4.3 4.5	2.5	34	中国东部 Eastern China
365	16 16	03–49–53.7	39.89N	118.61E	13		3.1			3.3	9	中国东北部 North–Eastern China
366	16 17	22–21–30.3	33.30N	121.39E	36		3.1			1.9	6	中国东部 Eastern China
367	17 17	09–28–09.3	24.27N	121.97E	13		3.7			1.8	13	台湾岛 Taiwan
368	17 18	23–04–20.0	40.40N	115.54E	12		3.0			3.0	8	中国东北部 North–Eastern China
369	19 19	03–29–32.9	38.45N	101.55E	17		3.7			4.5	6	青海省 Qinghai Province
370	19 19	11–06–54.7	23.30N	99.57E	15	5.3	5.6	5.6 4.9 5.0		1.9	88	缅甸——中国边境地区 Burma–China border region
371	19 19	12–13–42.8	38.70N	99.58E	15	3.4	4.1			2.1	16	青海省 Qinghai Province
372	19 19	14–01–46.8	23.25N	99.57E	17	4.0	4.5		4.6	2.2	30	缅甸——中国边境地区 Burma–China border region
373	19 19	15–39–29.8	36.09N	78.39E	38		5.1			2.9	15	克什米尔东部 Eastern Kashmir
374	19 20	18–31–51.5	43.74N	119.91E	12		3.0			1.6	5	中国东北部 North–Eastern China
375	19 20	20–27–21.7	23.10N	117.16E	28		3.1			2.9	6	中国东南沿海 Near south–eastern coast of China
376	19 20	23–02–07.8	23.30N	121.53E	5		3.7			2.3	13	台湾地区 Taiwan region
377	20 20	04–21–01.2	35.89N	80.94E	16		3.6			2.3	7	克什米尔——西藏边境地区 Kashmir–Tibet border region
378	20 20	09–45–43.1	27.65N	91.13E	32	4.6			5.0	1.9	70	不丹 Bhutan
379	22 22	00–05–59.3	26.94N	104.28E	8		3.3			2.0	10	云南省 Yunnan Province
380	22 22	03–08–05.2	25.33N	124.05E	181				4.3	1.7	27	琉球群岛西南部 South–western Ryukyu Islands
381	22 22	03–49–46.6	23.22N	99.51E	12	4.2	4.4		5.0	2.3	24	缅甸——中国边境地区 Burma–China border region
382	22 22	09–57–33.4	36.68N	83.77E	25		3.9			3.2	7	新疆自治区南部 Southern Xinjiang Province

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383	22 23	18–54–04.4	33.44N	100.86E	10	4.1	4.1			2.8	26	四川省 Sichuan Province
384	23 24	19–19–07.7	30.16N	108.13E	7		3.5			2.4	18	四川省 Sichuan Province
385	24 24	04–19–14.4	19.85N	121.94E	17	4.4	3.8		4.3	2.5	24	菲律宾群岛地区 Philippine Islands region
386	24 24	07–22–37.2	20.07N	121.98E	14	4.2	4.0		4.5	2.1	45	菲律宾群岛地区 Philippine Islands region
387	24 24	07–54–43.8	20.35N	121.76E	55	4.5	3.9		4.5	2.3	64	菲律宾群岛地区 Philippine Islands region
388	24 25	21–41–56.3	36.74N	83.47E	33	4.4	4.9	4.4	4.8	2.1	49	新疆自治区南部 Southern Xinjiang Province
389	24 25	23–05–59.1	36.92N	83.58E	15		3.6			3.1	11	新疆自治区南部 Southern Xinjiang Province
390	24 25	23–16–26.2	36.78N	84.11E	7		3.5			2.8	11	新疆自治区南部 Southern Xinjiang Province
391	25 25	03–41–42.5	23.07N	99.65E	0		4.1			3.4	13	缅甸——中国边境地区 Burma–China border region
392	25 25	05–41–05.9	39.49N	94.65E	15		3.7			2.0	6	青海省 Qinghai Province
393	25 26	18–12–54.9	36.86N	83.44E	32	4.4	4.7		4.4	2.0	42	新疆自治区南部 Southern Xinjiang Province
394	26 26	02–48–46.5	23.37N	99.50E	26	4.3	4.1		4.4	1.8	24	缅甸——中国边境地区 Burma–China border region
395	26 26	06–12–29.2	38.01N	106.42E	10		3.2			2.5	10	中国北部 Northern China
396	26 26	07–45–59.7	39.07N	100.03E	10	4.9	4.9	4.2	5.1	2.1	84	青海省 Qinghai Province
397	26 26	09–22–15.6	35.83N	80.89E	23		4.1			1.8	11	克什米尔——西藏边境地区 Kashmir–Tibet border region
398	26 26	09–24–13.0	39.21N	100.18E	15		3.9			2.9	6	青海省 Qinghai Province
399	26 26	14–43–49.9	43.28N	82.24E	5		3.2			2.1	8	新疆自治区北部 Northern Xinjiang Province
400	27 28	18–51–49.1	24.03N	122.73E	19	4.9	4.7	4.4	5.1	1.9	74	台湾地区 Taiwan region
401	27 28	23–14–06.1	36.73N	83.44E	32	4.8	5.1	4.4	5.0	1.8	69	新疆自治区南部 Southern Xinjiang Province
402	28 28	00–29–36.4	26.96N	96.92E	21	4.3	4.2		4.6	2.5	52	缅甸 Burma
403	28 29	16–36–38.7	21.77N	121.74E	30	4.5	4.3	4.1	4.6	1.7	71	台湾地区 Taiwan region
404	28 29	21–40–26.1	22.56N	115.22E	33		3.3			1.6	6	中国东南沿海 Near south–eastern coast of China
405	29 30	22–55–20.6	36.82N	83.49E	31	4.6	4.4		4.2	3.1	21	新疆自治区南部 Southern Xinjiang Province
406	30 31	17–40–26.4	24.01N	122.99E	12	3.7	3.7		4.7	1.9	25	台湾地区 Taiwan region
407	31 31	05–46–09.5	36.46N	94.38E	7		3.6			3.8	7	青海省 Qinghai Province

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1988 年 震 中 分 布 图
(7–12 月)

Map of epicentral distribution of 1988
(July to December)

1988年世界地震震中分布图

Epicentral distribution of earthuakes all over the world of 1988

DEPTH

<70km	70-300km	>300km	
×	□	▲	Magnitude < 6.0
×	□	△	Magnitude 6.0-6.9
×	□	△	Magnitude ≥ 7.0

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1988年中国及邻区地震震中分布图

Epicentral distribution of earthquakes within and near China in 1988

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1988 年 地 震 数 据
(7–12 月)

Observed seismological data of 1988
(July to December)

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Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
JUL 1d 02h 07m 01.5 ± 0.13s, SD1.24 / 63							
16.13 S ± 2.47km, 177.71 W ± 2.90km, h34 ± 0.51km							
Fiji region					(181)		
M_S5.3 / 14, m_B5.4 / 3, m_b5.4 / 3,							
QZH	74.3	302	eP	02 18 38.0	0.3		
			S	02 28 07.0	0.0		
			LZ	M_S = 4.8		20.0	0.50
SSE	75.1	309	eP	02 18 40.0	−2.7		
			eS	02 28 20.0	2.0		
			eSS	02 33 08.0	−0.1		
			LZ	M_S = 4.8		20.0	0.56
MDJ	77.1	324	eP	02 18 53.7	−0.4		
			S	02 28 40.0	1.7		
			LZ	M_S = 5.3		20.0	1.50
DL2	78.8	316	eP	02 19 03.0	−0.1		
			epP	02 19 08.0	−4.9		
			ePP	02 22 04.0	1.6		
			eS	02 28 56.0	−1.4		
			LN	M_S = 5.6		16.0	1.28
CN2	79.0	322	eP	02 19 03.5	−1.1		
			PMZ	m_B = 5.7		4.0	0.40
			eS	02 28 58.0	−2.3		
			LN	M_S = 5.2		13.0	0.50
SNY	79.1	319	eP	02 19 02.9	−1.8		
			LZ	M_S = 5.0		20.0	0.67
QZN	79.3	293	eP	02 19 08.0	1.7		
			PP	02 22 06.0	−1.0		
			eS	02 29 05.0	1.4		
			LE	M_S = 5.5		20.0	1.50
WHN	80.1	306	−P	02 19 10.5	0.2		
			SKS	02 29 24.0	5.0		
			LZ	M_S = 5.2		24.0	1.40
TIA	80.6	312	eP	02 19 09.4	−3.3		
BJI	83.0	315	eP	02 19 25.0	−0.4		
			LZ	M_S = 4.9		20.0	0.48
TIY	84.6	312	eP	02 19 33.5	0.0		
			LN	M_S = 5.3		15.0	0.62
GYA	84.7	299	P	02 19 34.8	0.4		
			S	02 30 04.0	7.0		
HHC	86.5	314	eP	02 19 43.0	−0.1		
			S	02 30 18.0	3.9		
			LN	M_S = 5.3		15.0	0.58
BTO	87.5	313	P	02 19 47.5	−0.3		
			eSKS	02 30 12.0	2.8		
			eS	02 30 25.5	0.2		
KMI	87.6	297	eP	02 19 49.5	0.9		
			eS	02 30 26.0	−0.8		
			LE	M_S = 5.0		20.0	0.40
LZH	90.3	307	eP	02 20 02.0	0.6		
			PMZ	m_b = 5.7		2.5	0.12
			LZ	M_S = 5.6		44.0	5.30
GTA	94.4	310	eP	02 20 19.8	−0.3		
WMQ	104.2	312	eP	02 21 02.5	−1.9		
			LZ	M_S = 5.1		26.0	0.72
JUL 1d 02h 55m 32.0 ± 0.20s, SD1.55 / 67							
16.31 S ± 2.46km, 177.51 W ± 2.49km, h29 ± 0.56km							
Fiji region					(181)		
M_S5.6 / 22, m_B5.9 / 4, m_b5.3 / 2,							
QZH	74.5	302	eP	03 07 11.0	0.5		
			PMZ	m_B = 6.0		4.0	0.69
			eS	03 16 40.0	−3.1		
			LN	M_S = 5.2		14.0	0.59
SSE	75.4	309	P	03 07 18.0	2.6		
			SS	03 21 40.0	−3.9		
			LN	M_S = 5.5		16.0	1.07
			LE			16.0	0.86
MDJ	77.4	324	+P	03 07 27.5	0.8		
			pP	03 07 38.0	2.5		
			S	03 17 15.0	2.2		
			LZ	M_S = 5.5		22.0	2.81
NJ2	77.6	309	−P	03 07 27.0	−0.9		
DL2	79.0	316	eP	03 07 36.0	0.2		
			esP	03 07 50.0	1.7		
			eS	03 17 32.0	0.0		
			eSS	03 22 44.0	4.9		
			LN	M_S = 5.9		16.0	2.57
CN2	79.3	322	eP	03 07 37.0	−0.2		
			PMZ	m_B = 5.9		4.0	0.60
			pP	03 07 45.5	−0.5		
			eS	03 17 32.0	−2.8		
			LN	M_S = 5.5		15.0	1.00
SNY	79.3	319	+P	03 07 38.0	0.6		
			SS	03 22 38.0	−5.6		
			LZ	M_S = 5.3		20.0	1.58
QZN	79.6	293	eP	03 07 41.0	2.1		
			PP	03 10 41.0	0.9		
			eS	03 17 39.0	1.0		
			sS	03 17 51.0	−1.7		
			LE	M_S = 5.8		20.0	2.60
WHN	80.4	306	eP	03 07 43.0	0.1		
			pP	03 07 50.5	−1.3		
			LZ	M_S = 5.4		40.0	3.40
TIA	80.8	312	eP	03 07 44.2	−1.2		
			LN	M_S = 5.7		16.5	1.11
			LE			16.5	1.14
BJI	83.3	315	eP	03 07 57.5	−0.5		
			esP	03 08 09.0	−1.6		
			eS	03 18 12.0	−3.7		
			esS	03 18 26.0	−4.5		
			LN	M_S = 5.7		18.0	1.70
			LZ	M_S = 5.3		20.0	1.30
TIY	84.8	312	P	03 08 05.7	−0.4		
			SKS	03 18 20.5	−3.1		
			S	03 18 35.0	5.2		
			LN	M_S = 5.6		15.0	1.10
GYA	85.0	299	P	03 08 07.0	0.1		
			pP	03 08 18.0	2.3		
			S	03 18 36.0	4.7		
HHC	86.8	314	−P	03 08 10.6	−5.0		
			LN	M_S = 5.5		15.0	0.96
BTO	87.7	313	+P	03 08 22.0	1.7		
			sP	03 08 32.0	−0.8		
			eSKS	03 18 45.0	2.4		
			S	03 19 00.0	2.4		
			LN	M_S = 5.6		17.0	0.70
			LE			17.0	1.00
KMI	87.9	297	+P	03 08 21.5	0.5		
			sP	03 08 32.0	−1.4		
			eSKS	03 18 42.0	−1.5		
			LE	M_S = 5.8		20.0	2.30
CD2	88.9	303	eP	03 08 26.5	0.6		
			sS	03 19 25.7	0.5		
LZH	90.6	307	eP	03 08 34.0	0.1		
GTA	94.7	310	eP	03 08 51.2	−1.4		
			LE	M_S = 5.6		16.0	1.09
JUL 1d 12h 48m 06.5 ± 0.11s, SD1.36 / 70							

53.16 N ± 3.26km, 166.86 W ± 1.41km, h31 ± 0.23km
Fox Islands (9)
M_S5.3 / 13,

MDJ	41.4	285	eP	12 55 50.0	−1.9			
			sP	12 56 06.0	1.2			
			LZ	M_S = 5.0		20.0	2.06	
CN2	44.3	286	P	12 56 15.0	−0.4			
			pP	12 56 25.0	0.5			
			eS	13 02 47.0	0.1			
			LE	M_S = 5.1		17.0	1.20	
SNY	46.6	285	+P	12 56 34.4	0.7			
			LZ	M_S = 5.0		20.0	1.82	
DL2	49.6	284	eP	12 56 56.0	−1.2			
			LZ	M_S = 5.0		16.0	1.18	
BJI	52.0	288	eP	12 57 15.0	−0.4			
			epP	12 57 26.0	1.4			
			eS	13 04 36.0	0.4			
			LE	M_S = 5.3		18.0	1.70	
			LZ	M_S = 5.1		19.0	1.90	
TIA	54.0	284	eP	12 57 30.8	0.1			
BTO	55.1	293	eP	12 57 39.0	0.5			
			esP	12 57 52.0	0.6			
			eS	13 05 23.5	5.7			
			LN	M_S = 5.3		16.0	1.10	
			LE			16.0	0.90	
SSE	55.2	277	P	12 57 39.0	−0.4			
			sP	12 57 52.0	−0.4			
			LZ	M_S = 4.9		20.0	0.93	
TIY	55.7	289	eP	12 57 41.8	−1.2			
			LN	M_S = 5.4		19.0	1.72	
NJ2	55.9	279	+P	12 57 44.0	−0.5			
			LZ	M_S = 4.7		15.0	0.47	
WHN	59.7	281	+P	12 58 11.0	0.1			
			sP	12 58 24.5	0.6			
			LZ	M_S = 4.8		20.0	0.76	
GTA	61.5	298	P	12 58 22.4	−0.8			
			LN	M_S = 5.5		17.0	1.20	
			LE			17.0	1.29	
WMQ	64.2	309	P	12 58 42.0	0.6			
			LZ	M_S = 5.1		20.0	1.42	
CD2	65.6	289	P	12 58 50.8	0.8			
GYA	67.2	284	P	12 59 01.6	0.9			
			pP	12 59 13.0	3.2			
KMI	70.5	286	+P	12 59 21.5	0.3			
			pP	12 59 34.0	3.8			
QZN	71.0	276	eP	12 59 25.0	1.0			
KSH	73.0	314	eP	12 59 36.0	0.3			
			eS	13 09 02.0	2.2			
			LN	M_S = 5.4		14.0	1.00	

JUL 1d 15h 13m 52.0 ± 0.07s, SD1.58 / 37
40.29 N ± 1.77km, 142.59 E ± 1.51km, h58 ± 1.20km
Near east coast of Honshu (228)

MDJ	10.5	298	eP	15 16 25.0	2.1			
CN2	13.2	291	eP	15 16 59.0	0.1			
SSE	19.6	249	P	15 18 20.5	2.0			
			PP	15 18 40.5	3.3			
BJI	20.2	278	eP	15 18 22.0	−2.4			
TIA	20.4	267	eP	15 18 26.9	0.2			
BTO	24.7	281	eP	15 19 10.2	0.6			
WHN	24.9	256	eP	15 19 12.0	0.9			
GTA	32.6	283	eP	15 20 20.0	−0.9			
GYA	32.8	256	P	15 20 21.0	−1.3			
WMQ	40.3	294	eP	15 21 26.8	1.3			

JUL 2d 00h 22m 40.0 ± 0.18s, SD1.63 / 68
8.30 S ± 2.44km, 156.35 E ± 2.08km, h54 ± 2.01km
Solomon Islands (193)

M_S5.2 / 13, m_B5.7 / 3, m_b5.1 / 4,

SSE	51.7	321	P	00 31 40.0	−3.9			
			S	00 38 55.0	−3.5			
			LE	M_S = 4.9		16.0	0.58	
QZN	53.3	301	eP	00 31 56.0	−0.1			
			PP	00 33 57.0	−0.1			
			eS	00 39 20.5	−1.3			
			LN	M_S = 4.9		11.0	0.40	
NJ2	53.8	320	+P	00 32 01.0	1.3			
			LZ	M_S = 5.0		12.0	0.91	
WHN	55.8	316	eP	00 32 15.5	1.0			
			sP	00 32 33.0	−0.8			
			SME	m_B = 5.7		8.0	0.78	
			LZ	M_S = 5.1		28.0	2.34	
DL2	57.0	328	eP	00 32 24.0	1.1			
			eS	00 40 14.0	2.8			
			LZ	M_S = 4.6		24.0	0.65	
MDJ	57.9	338	eP	00 32 27.5	−2.2			
			sP	00 32 45.5	−3.5			
			LZ	M_S = 5.1		30.0	2.09	
SNY	58.2	332	−P	00 32 31.2	−0.4			
			S	00 40 32.0	5.7			
			LZ	M_S = 5.0		37.0	2.38	
CN2	58.9	334	−P	00 32 36.3	−0.3			
			pP	00 32 49.0	−1.2			
			eS	00 40 36.0	−0.9			
			LN	M_S = 5.2		13.0	0.70	
GYA	59.3	307	P	00 32 40.2	0.9			
			pP	00 32 53.4	0.6			
			S	00 40 46.0	5.5			
BJI	60.7	325	eP	00 32 49.0	−0.1			
			eS	00 41 05.0	4.8			
			LZ	M_S = 4.9		30.0	1.20	
TIY	61.4	321	eP	00 32 54.5	0.6			
			pP	00 33 06.0	−1.4			
			S	00 41 13.0	5.1			
			LN	M_S = 5.2		16.0	0.78	
KMI	61.9	304	eP	00 32 57.0	0.2			
			sP	00 33 17.0	1.1			
			eS	00 41 16.0	1.2			
			LZ	M_S = 5.1		22.0	1.40	
CD2	63.7	310	P	00 33 08.5	−0.2			
			eS	00 41 43.7	6.5			
BTO	64.7	322	eP	00 33 15.0	−0.4			
			epP	00 33 28.5	−0.6			
			eS	00 41 49.0	−1.0			
			LN	M_S = 5.3		14.0	0.60	
			LE			15.0	0.70	
GTA	70.6	317	eP	00 33 53.0	0.6			
			LZ	M_S = 5.1		26.0	1.41	
WMQ	80.7	317	P	00 34 50.5	0.8			
			PP	00 37 58.4	3.8			
			SKS	00 44 58.0	1.1			
			LZ	M_S = 5.2		20.0	1.18	
KSH	87.9	310	eP	00 35 30.0	3.9			
			eS	00 46 07.0	3.7			
			LE	M_S = 5.3		14.0	0.50	

JUL 2d 02h 46m 32.0 ± 0.04s, SD1.81 / 6
44.55 N ± 0.35km, 125.88 E ± 0.48km, h14 ± 0.14km
North-Eastern China (658)
M_L3.1 / 1,

CN2	0.8	203	+Pg	02 46 45.5	−1.0			
			Sg	02 46 56.5	−1.2			

JUL 2d 10h 01m 28.3 ± 0.10s, SD0.93 / 103
14.27 S ± 1.21km, 167.25 E ± 1.47km, h143 ± 0.67km
Vanuatu (New Hebrides) (186)

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	m_B6.4 / 47, m_b6.0 / 12,							
QZH	61.4	309	+iP	10 11 32.0	−0.1			
			PMZ	m_B = 6.6		5.0	4.63	
			pP	10 12 06.0	0.5			
			sP	10 12 22.0	0.6			
			S	10 19 36.0	−3.0			
			SMN	m_B = 6.1		10.0	3.60	
			SME			10.0	1.91	
			sS	10 20 36.0	−2.3			
SSE	63.2	316	−iP	10 11 42.5	−1.4			
			PMZ	m_B = 6.5		4.0	2.62	
			pP	10 12 16.0	−1.5			
			sP	10 12 34.0	0.7			
			S	10 20 02.0	0.8			
			SMN	m_B = 6.1		8.0	2.79	
			SME			8.0	1.16	
			sS	10 21 03.0	2.1			
			SS	10 24 12.0	0.3			
			LN			14.0	1.89	
			LE			14.0	1.16	
GZH	64.5	304	+iP	10 11 52.7	0.2			
			PMZ	m_B = 6.7		4.0	4.94	
			pP	10 12 30.0	3.8			
			iS	10 20 20.0	1.2			
			SMN	m_B = 6.4		8.0	4.13	
			SME			8.0	3.79	
NJ2	65.3	316	+iP	10 11 57.0	−0.9			
			PMZ	m_B = 6.3		5.0	2.73	
			pP	10 12 30.0	−1.6			
			sP	10 12 50.0	2.6			
			S	10 20 29.0	1.2			
			sS	10 21 31.0	3.1			
QZN	65.5	299	eP	10 11 59.6	0.6			
			PMZ	m_B = 6.3		6.5	3.00	
			PcP	10 12 29.0	0.4			
			iS	10 20 35.0	3.9			
			SMN	m_B = 6.3		9.0	4.00	
			SME			9.0	3.00	
			ScS	10 21 36.0	0.1			
WHN	67.6	312	+iP	10 12 12.0	−0.3			
			PMZ	m_b = 5.6		2.0	0.20	
			S	10 20 54.0	−1.4			
			SMN	m_B = 6.0		8.0	1.98	
MDJ	67.9	332	+iP	10 12 14.0	0.1			
			pP	10 12 49.0	1.2			
			S	10 21 00.0	1.7			
			sS	10 22 00.0	1.2			
			LZ			12.0	3.05	
DL2	67.9	323	+iP	10 12 14.0	−0.2			
			PMZ	m_B = 6.5		5.0	3.66	
			pP	10 12 50.0	1.9			
			sP	10 13 06.0	2.1			
			ScP	10 16 23.5	−3.7			
			eS	10 20 59.0	−1.2			
			SMN	m_B = 6.5		4.0	2.16	
			SME			3.0	1.64	
			esS	10 22 00.0	0.5			
			LN			17.0	1.53	
SNY	68.8	326	+iP	10 12 19.0	−0.7			
			PMZ	m_B = 6.4		5.0	3.46	
			pP	10 12 56.0	2.3			
			iS	10 21 12.0	1.2			
			SMN			20.0	3.76	
			SME			20.0	2.03	
			sS	10 22 10.0	−0.1			
CN2	69.2	329	+iP	10 12 22.0	−0.3			
			PMZ	m_B = 6.5		5.0	4.00	
			pP	10 12 58.0	1.7			
			sP	10 13 15.0	2.9			
			S	10 21 15.0	0.4			
GYA	71.4	305	+P	10 12 36.0	0.3			
			S	10 21 42.0	2.1			
			ScS	10 22 21.0	−1.4			
			SS	10 26 22.0	2.3			
			LE			18.0	4.60	
BJI	71.9	321	+P	10 12 38.0	−0.3			
			PMZ	m_B = 6.4		5.0	3.70	
			epP	10 13 14.0	1.5			
			esP	10 13 31.0	2.7			
			eS	10 21 48.0	1.5			
			LZ			40.0	5.70	
TIY	72.9	317	+iP	10 12 44.9	0.5			
			PMZ	m_b = 6.5		1.7	1.38	
			pP	10 13 20.0	1.4			
			sP	10 13 36.5	2.2			
			S	10 22 01.0	4.4			
			SMN	m_B = 6.2		8.0	2.37	
			SME			8.0	1.05	
KMI	74.0	302	+iP	10 12 52.0	0.8			
			PMZ	m_B = 6.4		4.0	2.70	
			PcP	10 13 07.0	2.3			
			pP	10 13 27.0	1.6			
			iS	10 22 15.0	3.7			
			SMN	m_B = 6.4		7.0	3.70	
HHC	75.2	320	P	10 12 58.0	0.2			
			S	10 22 23.0	0.7			
			LN			13.0	10.8	
			LE			14.0	8.25	
CD2	75.7	307	+iP	10 13 00.8	0.3			
			PMZ	m_B = 6.4		5.0	3.85	
			pP	10 13 37.8	2.8			
			SKS	10 22 57.2	6.2			
			sS	10 23 32.3	2.8			
BTO	76.1	319	+iP	10 13 03.5	1.0			
			PMZ	m_B = 6.3		6.0	3.80	
			sP	10 13 56.0	3.4			
			S	10 22 33.5	1.9			
			SS	10 27 32.0	1.7			
GTA	82.3	314	+iP	10 13 36.8	0.4			
			PMZ	m_B = 6.4		6.0	3.60	
			pP	10 14 14.2	3.0			
			PP	10 16 46.2	−1.4			
			SKS	10 23 41.2	3.0			
			LE			20.0	3.11	
LSA	85.3	302	+P	10 13 51.8	0.2			
			S	10 24 00.0	−6.8			
			sS	10 25 12.0	2.1			
			LE			12.0	5.98	
WMQ	92.4	315	+iP	10 14 24.5	−0.2			
			PMZ	m_B = 6.7		4.5	2.54	
			pP	10 15 01.0	0.7			
			PP	10 18 07.0	−2.0			
			SKS	10 24 43.0	1.3			
			S	10 25 11.5	−0.3			
			SMN	m_B = 6.3		6.0	1.81	
			SS	10 31 28.0	−1.7			
			LZ			25.0	2.71	
KSH	99.9	308	eP	10 15 00.0	0.8			
			SKS	10 25 24.0	2.4			
			LN			10.0	2.10	

JUL 2d 10h 54m 51.8 ± 0.07s, SD1.19 / 84
26.06 N ± 1.12km, 128.52 E ± 1.24km, h30 ± 0.32km
Ryukyu Islands (238)
M_S5.5 / 35, m_B5.5 / 6, m_b5.2 / 5,

SSE	8.2	310	+P	10 56 52.0	0.8			

			PMZ		$m_b = 4.8$		1.0	0.040
			S	10 58 23.4		0.2		
			sS	10 58 32.0		−2.0		
			LN		$M_S = 5.4$		10.0	15.9
			LE				10.0	17.6
NJ2	10.3	307	+P	10 57 21.5		0.1		
			S	10 59 15.6		−1.6		
			LN		$M_S = 5.8$		13.0	25.1
			LE				10.0	34.7
			LZ		$M_S = 5.3$		12.0	18.3
WHN	13.3	293	eP	10 58 00.0		−0.7		
			pP	10 58 05.5		−2.0		
			iPP	10 58 11.0		−0.3		
			eS	11 00 27.0		−1.1		
			LZ		$M_S = 5.4$		14.0	17.8
TIA	14.0	319	eP	10 58 11.4		0.4		
			eS	11 00 52.0		5.0		
			LN		$M_S = 5.3$		12.0	7.50
			LE				12.0	6.95
DL2	14.1	337	eP	10 58 12.0		0.8		
			pP	10 58 18.0		0.0		
			sP	10 58 20.0		−2.7		
			ePP	10 58 24.0		1.6		
			eS	11 00 50.0		2.8		
			LN		$M_S = 5.2$		11.0	5.15
			LE				11.0	4.56
SNY	16.2	347	+P	10 58 40.0		0.5		
			eS	11 01 40.0		1.5		
			LN		$M_S = 5.2$		12.0	4.95
			LE				11.0	2.12
BJI	17.3	327	+P	10 58 54.0		0.8		
			PMZ		$m_B = 5.4$		6.0	1.04
			eS	11 02 07.0		3.4		
			LN		$M_S = 5.6$		12.0	12.0
			LE				12.0	6.40
			LZ		$M_S = 5.4$		14.0	12.1
CN2	17.9	353	eP	10 59 00.0		0.0		
			pP	10 59 07.0		−0.2		
			eS	11 02 14.0		−1.8		
			LN		$M_S = 5.6$		12.0	11.4
TIY	17.9	314	+P	10 59 01.0		0.5		
			S	11 02 17.0		1.1		
			SS	11 02 36.0		−2.7		
			LN		$M_S = 5.5$		12.0	9.79
			LE				13.0	3.70
MDJ	18.5	2	eP	10 59 09.0		0.9		
QZN	18.6	252	eP	10 59 11.0		1.9		
			eS	11 02 36.0		3.5		
			SS	11 02 59.0		2.7		
			LN		$M_S = 5.2$		19.0	7.00
GYA	19.6	276	P	10 59 21.4		0.6		
			pP	10 59 29.0		0.6		
			PP	10 59 40.0		1.5		
			S	11 02 54.0		−0.4		
			ScP	11 07 17.8		6.5		
			LN		$M_S = 5.4$		11.0	5.80
			LE				11.0	2.20
HHC	20.4	321	+P	10 59 28.2		−0.9		
BTO	21.1	318	+P	10 59 35.5		−1.3		
			sP	10 59 45.5		−3.5		
			sS	11 03 36.0		−2.6		
			LN		$M_S = 5.7$		13.0	10.4
			LE				14.0	8.00
CD2	22.3	288	P	10 59 46.4		−1.8		
			eS	11 03 43.5		−3.4		
			LE		$M_S = 5.8$		13.0	16.1
KMI	23.3	273	+P	11 00 00.0		1.9		
			LE		$M_S = 5.5$		12.0	6.60
GTA	27.4	306	+iP	11 00 36.0		−1.5		
			LE		$M_S = 5.4$		11.5	4.10
LSA	33.1	285	eP	11 01 26.5		−1.9		
WMQ	37.4	309	+P	11 02 03.9		−0.5		
			PP	11 03 38.5		6.3		
			LN		$M_S = 5.7$		12.0	2.59
			LE				12.0	3.26
KSH	45.6	301	−P	11 03 13.0		1.3		
			sP	11 03 21.0		−3.2		
			eS	11 09 52.0		0.0		
			LN		$M_S = 5.6$		14.0	2.80

JUL 2d 17h 32m 38.1 ± 0.12s, SD1.16 / 44
18.68 S ± 1.54km, 174.42 W ± 1.22km, h111 ± 0.63km
Tonga (173)

MDJ	81.0	323	eP	17 44 43.0		0.0		
CN2	83.0	321	+P	17 44 52.4		−0.6		
			PMZ				3.0	0.20
			pP	17 45 23.0		2.1		
			eS	17 55 02.0		0.1		
SNY	83.0	318	eP	17 44 53.0		−0.3		
TIA	84.6	311	P	17 45 01.5		0.4		
BJI	87.0	314	eP	17 45 12.5		−0.5		
			epP	17 45 45.0		3.9		
			eSKS	17 55 28.0		1.9		
TIY	88.6	311	eP	17 45 21.7		1.0		
			pP	17 45 47.5		−1.4		
			SKS	17 55 41.5		5.2		
GYA	88.7	298	P	17 45 22.4		1.2		
KMI	91.6	296	eP	17 45 35.5		0.8		
GTA	98.5	309	eP	17 46 06.2		0.2		

JUL 3d 05h 09m 41.8 ± 0.14s, SD0.94 / 71
24.75 S ± 1.34km, 179.40 E ± 0.54km, h527 ± 1.71km
South of Fiji (171)
m_B5.8 / 2, m_b5.2 / 6,

SSE	78.6	312	+P	05 20 50.0		−0.9		
			PMZ		$m_b = 4.8$		1.0	0.040
QZN	80.5	296	eP	05 21 00.8		0.3		
NJ2	80.8	311	−P	05 21 02.0		−0.2		
MDJ	82.7	327	eP	05 21 12.0		0.3		
WHN	83.1	308	−P	05 21 14.2		0.4		
			PMZ		$m_b = 5.0$		1.0	0.060
DL2	83.2	318	eP	05 21 14.0		−0.5		
			ePP	05 24 34.0		−2.3		
SNY	84.0	322	−iP	05 21 17.5		−0.6		
CN2	84.2	324	−iP	05 21 19.4		−0.1		
TIA	84.4	314	−P	05 21 20.6		0.2		
GYA	86.7	301	P	05 21 31.6		0.1		
BJI	87.3	317	eP	05 21 34.0		0.1		
TIY	88.4	313	−iP	05 21 40.0		0.8		
			PMZ		$m_b = 5.7$		1.0	0.16
KMI	89.2	298	−iP	05 21 44.0		0.8		
			pP	05 23 43.0		4.3		
			eS	05 31 49.0		1.6		
HHC	90.6	315	P	05 21 51.0		1.2		
CD2	91.1	304	−iP	05 21 52.6		0.8		
BTO	91.5	315	eP	05 21 55.0		1.3		
			S	05 32 11.0		5.5		
LZH	93.5	308	eP	05 22 03.5		0.6		
			PMZ		$m_b = 5.7$		1.0	0.070
GTA	97.8	310	P	05 22 22.3		−0.3		

JUL 3d 05h 20m 39.8 ± 0.14s, SD1.84 / 36
25.16 N ± 1.65km, 121.53 E ± 1.86km, h20 ± 0.47km
Taiwan (244)
M_S5.0 / 18, M_L4.6 / 7, m_B5.2 / 2,

SSE	5.9	357	ePn	05 22 06.0		−1.0		

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			SMN		$m_B = 5.3$		12.0	7.22
			LE		$M_S = 4.5$		12.0	6.94
NJ2	7.3	342	+Pn	05 22 25.0		−0.3		
			Sn	05 23 53.0		3.5		
			LN		$M_S = 5.0$		10.0	4.54
			LE				7.0	7.40
			LZ		$M_S = 4.7$		12.0	5.16
GZH	7.8	256	Pn	05 22 33.0		0.9		
			Sn	05 23 57.0		−4.8		
			LZ		$M_S = 4.7$		15.0	7.45
WHN	8.3	312	eP	05 22 43.4		1.0		
			S	05 24 17.5		1.0		
			SMN		$M_L = 4.9$		1.0	0.24
			SME				1.0	0.39
			LE		$M_S = 5.0$		6.0	6.20
QZN	12.4	243	eP	05 23 39.4		0.6		
			eS	05 25 58.8		1.0		
			LN		$M_S = 5.0$		11.0	3.60
			LE				13.0	4.90
CD2	16.7	294	eP	05 24 38.6		4.0		
			LE		$M_S = 5.2$		8.0	3.51
BTO	18.2	331	eP	05 24 57.0		4.1		
			LN		$M_S = 5.3$		13.0	5.10
			LE				11.0	4.10
LZH	18.7	310	eP	05 25 03.0		3.5		
			LN		$M_S = 5.1$		8.0	1.60
			LE				10.0	2.10
MDJ	20.5	17	eP	05 25 20.0		0.5		
GTA	23.1	313	eP	05 25 46.8		0.5		
			eS	05 29 57.5		4.7		
			LE		$M_S = 5.1$		11.5	2.22

JUL 3d 08h 19m 18.3 ± 0.09s, SD1.48 / 89
22.04 N ± 1.55km, 94.20 E ± 1.13km, h86 ± 0.36km
Burma (296)
M_S4.7 / 29, m_B5.5 / 4, m_b5.3 / 8,

KMI	8.4	67	eP	08 21 23.5		3.7		
			sP	08 21 42.0		−1.0		
			eS	08 22 49.0		−5.0		
			LN		$M_S = 5.1$		5.0	5.90
GYA	12.2	66	+P	08 22 10.8		0.3		
			pP	08 22 20.8		−2.5		
			sP	08 22 32.0		−3.0		
			S	08 24 29.0		4.5		
			ScP	08 31 09.6		−1.6		
			ScS	08 34 47.0		1.0		
			LN		$M_S = 4.8$		7.0	1.40
			LE				7.0	1.90
CD2	12.3	42	P	08 22 12.8		0.9		
			S	08 24 31.7		4.7		
QZN	15.0	99	eP	08 22 47.0		0.5		
			sP	08 23 16.0		4.3		
			eS	08 25 31.0		0.6		
			sS	08 25 48.0		−2.9		
			LE		$M_S = 4.1$		10.0	0.50
LZH	16.3	29	eP	08 23 03.3		−0.7		
			PMZ		$m_b = 5.4$		1.0	0.18
			LE		$M_S = 4.1$		8.0	0.28
GZH	17.7	83	+iP	08 23 22.5		1.6		
			eS	08 26 30.0		−2.9		
GTA	18.0	14	eP	08 23 22.8		−1.5		
			eS	08 26 40.0		1.0		
			LN		$M_S = 4.3$		8.0	0.44
WHN	19.9	61	+P	08 23 45.0		−0.9		
			S	08 27 23.0		3.1		
			LN		$M_S = 4.8$		10.0	1.43
TIY	22.2	41	eP	08 24 07.4		−1.1		
			pP	08 24 30.5		3.7		
			S	08 28 05.5		4.0		
			SMN		$m_B = 5.2$		8.0	0.45
			LN		$M_S = 4.5$		9.0	0.51
WMQ	22.4	348	P	08 24 12.1		1.5		
			S	08 28 12.0		6.7		
			SMN		$m_B = 5.5$		4.0	0.42
			LN		$M_S = 4.8$		6.0	0.50
			LE				7.0	0.55
QZH	22.5	78	+P	08 24 12.0		−0.1		
			pP	08 24 33.0		2.3		
			LN		$M_S = 4.9$		6.0	0.89
BTO	22.8	32	eP	08 24 17.0		1.8		
			eS	08 28 19.5		5.0		
			LN		$M_S = 4.6$		12.0	0.40
			LE				12.0	0.70
KSH	23.4	322	P	08 24 23.0		2.6		
			eS	08 28 28.0		4.1		
			LE		$M_S = 4.9$		10.0	1.20
HHC	23.8	34	P	08 24 25.0		0.4		
			LN		$M_S = 4.5$		8.0	0.28
			LE				8.0	0.29
NJ2	24.1	60	+P	08 24 25.0		−1.8		
			pP	08 24 45.1		−0.6		
			sP	08 24 56.0		−0.4		
			eS	08 28 34.0		−1.3		
			LN		$M_S = 4.7$		8.5	0.62
			LE				9.0	0.47
TIA	24.4	50	+P	08 24 29.2		−1.1		
			pP	08 24 51.0		1.8		
			eS	08 28 47.0		5.6		
			LE		$M_S = 4.4$		12.5	0.48
SSE	25.7	64	P	08 24 41.5		−1.0		
			PMZ		$m_b = 5.2$		1.0	0.060
			pP	08 25 02.5		1.0		
			S	08 29 04.0		1.9		
			sS	08 29 38.0		1.8		
			LN		$M_S = 4.7$		12.0	0.87
BJI	25.9	41	eP	08 24 43.0		−1.2		
			epP	08 25 03.0		−0.2		
			eS	08 29 08.0		2.1		
DL2	28.8	48	eP	08 25 10.4		−0.7		
			pP	08 25 31.0		0.6		
SNY	31.6	44	eP	08 25 33.1		−1.9		
			pP	08 25 53.0		−1.6		
			eS	08 30 32.0		−4.4		
CN2	33.7	43	−P	08 25 52.0		−1.9		
MDJ	36.7	44	eP	08 26 18.0		−1.5		

JUL 3d 11h 43m 11.4 ± 0.10s, SD1.16 / 98
8.96 N ± 1.31km, 138.06 E ± 1.75km, h13 ± 0.06km
Western Caroline Islands (209)
M_S6.5 / 45, m_B6.5 / 15, m_b6.1 / 9,

QZH	24.4	313	+iP	11 48 33.0		1.8		
			PMZ		$m_B = 6.7$		8.0	24.1
			iS	11 52 50.0		1.9		
			SMN		$m_B = 6.6$		12.0	20.0
			SME				12.0	14.4
			LN		$M_S = 6.3$		15.0	44.2
SSE	27.1	327	−P	11 48 55.5		−0.4		
			PMZ		$m_B = 6.5$		10.0	9.74
			PP	11 49 41.0		−0.4		
			PcP	11 52 16.0		−0.8		
			S	11 53 29.0		−2.1		
			sS	11 53 43.0		1.3		
			SS	11 54 44.0		−1.1		
			LN		$M_S = 6.4$		14.0	39.5
			LE				14.0	31.2
GZH	27.5	304	+P	11 49 00.0		−0.3		

			LZ		$M_S=6.1$		18.0	45.7
NJ2	29.1	325	+P	11 49 14.0		−0.2		
QZN	29.1	293	+P	11 49 14.0		−0.5		
			pP	11 49 21.0		0.7		
			PP	11 50 10.0		2.0		
			eS	11 54 01.0		−3.9		
			sS	11 54 15.0		0.3		
			SS	11 55 33.0		−0.3		
			LN		$M_S=6.2$		14.0	10.9
			LE				14.0	22.9
TIA	33.2	328	+P	11 49 49.8		−0.3		
			PMZ		$m_B=6.2$		12.0	5.10
			epP	11 49 56.6		0.6		
			S	11 55 09.0		1.5		
			LN		$M_S=6.6$		15.0	32.1
			LE				15.0	50.7
DL2	33.3	336	+iP	11 49 51.0		−0.1		
			epP	11 50 00.0		3.0		
			PP	11 51 02.0		0.1		
			S	11 55 10.0		0.7		
			SMN				22.0	41.1
			SME				23.0	16.4
			eSS	11 57 09.0		−1.9		
			LN		$M_S=6.4$		15.0	33.5
			LE				12.0	13.0
GYA	34.5	304	+P	11 50 02.0		0.4		
			pP	11 50 12.0		4.6		
			PP	11 51 16.0		−0.5		
			S	11 55 28.0		0.2		
			ScP	11 56 17.0		−2.8		
			LN		$M_S=6.3$		13.0	20.0
			LE				13.0	12.3
SNY	35.1	341	+iP	11 50 07.6		0.3		
			sP	11 50 20.0		3.9		
			PP	11 51 25.0		−0.5		
			SMN				20.0	6.37
			SME				20.0	3.71
			LN		$M_S=6.4$		15.0	26.6
			LE				14.0	16.1
MDJ	36.3	350	+P	11 50 16.8		−0.1		
			pP	11 50 24.0		1.2		
			sP	11 50 27.0		1.3		
			PP	11 51 39.0		−0.2		
			S	11 55 52.0		−3.8		
			LZ		$M_S=6.4$		18.0	59.9
CN2	36.4	345	+iP	11 50 17.5		−0.5		
			PMZ		$m_B=6.3$		6.0	3.60
			pP	11 50 26.0		2.1		
			PP	11 51 41.0		0.1		
			PcP	11 52 41.4		−0.5		
			eS	11 55 57.0		−1.8		
			SMN		$m_B=6.4$		12.0	8.50
			LN		$M_S=6.7$		16.0	59.0
BJI	36.6	331	+iP	11 50 20.0		0.5		
			PMZ		$m_B=6.4$		10.0	7.40
			sP	11 50 28.0		−0.4		
			PP	11 51 44.0		0.5		
			eS	11 56 02.0		0.5		
			LN		$M_S=6.3$		16.0	27.6
			LZ		$M_S=6.3$		20.0	49.4
TIY	36.8	325	+iP	11 50 22.4		0.9		
			PMZ		$m_b=6.0$		1.4	0.36
			pP	11 50 30.5		3.2		
			PP	11 51 53.0		6.7		
			S	11 56 11.0		7.0		
			SMN				15.0	26.7
			SME				15.0	10.2
			LN		$M_S=6.7$		15.0	62.0
KM1	37.2	300	+iP	11 50 26.0		0.1		
			PP	11 51 55.0		3.2		
			iS	11 56 10.0		−2.1		
			LE		$M_S=6.4$		15.0	31.8
CD2	38.7	309	+iP	11 50 37.8		0.5		
			iPP	11 52 15.5		6.4		
			iS	11 56 28.8		−5.0		
			LN		$M_S=6.5$		15.0	33.5
HHC	39.5	328	+P	11 50 46.0		1.9		
			S	11 56 50.0		5.0		
			LN		$M_S=6.6$		17.0	41.7
			LE				16.0	22.2
BTO	40.2	326	+iP	11 50 48.5		−1.0		
			PMZ		$m_B=6.4$		7.0	4.20
			pP	11 50 56.0		0.6		
			PP	11 52 25.0		−0.4		
			PcS	11 56 42.0		−0.7		
			S	11 56 53.0		−1.8		
			sS	11 57 10.0		4.3		
			SS	11 59 43.5		−2.8		
			LN		$M_S=6.6$		16.0	34.7
			LE				16.0	33.7
LZH	41.2	316	P	11 50 59.0		0.9		
			pP	11 51 08.0		4.1		
			PP	11 52 36.0		0.2		
			S	11 57 12.0		1.7		
			SME				15.0	32.0
			SS	12 00 13.9		5.2		
			LN		$M_S=6.5$		15.0	21.3
			LE				14.0	16.9
GTA	45.7	318	+iP	11 51 34.4		0.1		
			sP	11 51 47.5		4.5		
			PP	11 53 26.0		5.1		
			S	11 58 15.0		−0.3		
			SS	12 01 33.0		1.8		
			LE		$M_S=6.4$		14.5	22.0
LSA	48.4	302	+P	11 51 56.0		−0.5		
			pP	11 52 04.0		2.0		
			PP	11 53 54.0		6.5		
			S	11 58 53.0		−1.6		
			SS	12 02 21.0		1.4		
			LN		$M_S=6.7$		8.0	20.3
WMQ	55.7	318	+iP	11 52 51.2		0.4		
			PMZ		$m_B=6.7$		8.0	8.73
			S	12 00 40.0		5.5		
			LN		$M_S=6.3$		12.0	6.59
			LE				12.0	8.20
KSH	62.9	310	+iP	11 53 42.0		1.4		
			S	12 02 08.0		0.5		
			LN		$M_S=6.8$		16.0	35.3

JUL 4d 00h 54m 34.3 ± 0.10s, SD2.42 / 13
43.68 N ± 1.31km, 87.99 E ± 0.89km, h10 ± 0.40km
Northern Xinjiang Province (332)
M_L4.4 / 6,

WMQ	0.2	303	+iPg	00 54 41.1		2.1		
			Sg	00 54 50.0		7.5		
			SMN		$M_L=4.0$		1.5	17.4
			SME				1.5	17.4
GTA	9.8	112	P	00 56 56.4		−2.8		

JUL 4d 01h 01m 23.8 ± 0.07s, SD2.48 / 6
43.78 N ± 0.84km, 88.11 E ± 0.76km, h16 ± 0.87km
Northern Xinjiang Province (332)
M_L3.5 / 5,

WMQ	0.3	276	−iPg	01 01 30.3		0.6		
			Sg	01 01 34.8		0.7		

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JUL 4d 05h 38m 09.9 ± 0.17s, SD0.96 / 31
19.73 N ± 4.68km, 155.67 W ± 1.75km, h8 ± 0.21km
Hawaiian Islands (613)

MDJ	65.7	311	eP	05 48 58.0	0.4			
CN2	68.7	310	eP	05 49 16.4	−0.5			
DL2	72.3	306	eP	05 49 39.0	0.1			
BJI	76.2	308	eP	05 50 01.0	−0.3			
TIA	76.4	304	eP	05 50 02.2	−0.4			
GTA	88.3	311	P	05 51 04.7	0.3			

JUL 4d 07h 13m 20.5 ± 0.16s, SD1.56 / 33
8.74 N ± 1.93km, 138.25 E ± 1.53km, h32 ± 0.32km
Western Caroline Islands (209)
M_S4.3 / 3,

SSE	27.3	327	P	07 19 03.6	−1.3			
			LN		M_S = 4.3		12.0	0.29
BJI	36.9	331	eP	07 20 27.5	−0.6			
			eS	07 26 12.0	1.6			
TIY	37.1	325	eP	07 20 30.0	−0.1			
			LN		M_S = 4.5		12.0	0.28
CD2	39.0	309	P	07 20 46.2	0.4			
LZH	41.5	316	eP	07 21 07.0	0.3			
GTA	45.9	318	eP	07 21 42.4	−0.4			
WMQ	56.0	318	eP	07 22 59.1	0.1			

JUL 4d 08h 28m 18.4 ± 0.14s, SD0.81 / 71
21.70 S ± 1.20km, 179.43 W ± 0.61km, h606 ± 1.45km
South of Fiji (171)
m_b5.0 / 6,

QZH	76.0	304	−P	08 39 06.0	−0.5			
SSE	77.4	311	+P	08 39 14.0	−0.4			
			PMZ		m_b = 4.8		1.0	0.040
GZH	79.2	300	−iP	08 39 23.7	0.2			
NJ2	79.6	311	−P	08 39 26.0	0.0			
QZN	80.1	295	eP	08 39 27.6	−1.1			
WHN	82.1	307	P	08 39 39.0	0.4			
SNY	82.3	321	−iP	08 39 39.0	−0.5			
TIA	83.1	313	−P	08 39 43.8	0.1			
BJI	85.8	316	−P	08 39 56.5	−0.4			
GYA	86.1	300	P	08 39 59.0	0.7			
TIY	87.1	313	−iP	08 40 03.4	0.4			
KMI	88.7	298	−P	08 40 12.0	1.2			
CD2	90.3	303	P	08 40 18.9	0.9			
GTA	96.7	310	P	08 40 46.8	−0.2			

JUL 4d 13h 54m 14.5 ± 0.10s, SD1.36 / 80
17.59 S ± 2.58km, 71.65 W ± 3.81km, h18 ± 0.40km
Off coast of Northern Chile (121)
M_S5.8 / 5,

KSH	144.4	45	+iPKP	14 13 50.0	−0.9			
			PP	14 17 12.0	3.0			
			LN		M_S = 5.8		16.0	1.00
MDJ	147.7	331	ePKP	14 13 56.0	−0.4			
WMQ	148.6	29	+PKP	14 13 58.5	0.6			
			PP	14 17 30.0	−3.4			
			LZ		M_S = 5.8		24.0	1.79
CN2	150.1	335	PKP	14 14 00.0	−0.3			
SNY	152.5	335	+PKP	14 14 03.7	−0.1			
DL2	155.8	334	ePKP	14 14 09.0	0.8			
BJI	156.6	345	ePKP	14 14 09.5	0.2			
			PP	14 18 13.0	−5.6			
HHC	156.7	354	PKP	14 14 11.5	2.0			
GTA	157.0	17	+PKP	14 14 10.6	0.5			
			LE		M_S = 5.8		13.0	0.72
BTO	157.0	357	ePKP	14 14 11.0	1.0			
TIY	159.6	351	ePKP	14 14 13.9	0.7			
TIA	159.9	339	PKP	14 14 14.0	0.6			
LSA	160.2	49	ePKP	14 14 15.0	0.8			
			PKP2	14 14 53.5	−1.4			
			PP	14 18 38.0	0.3			
LZH	161.1	11	ePKP	14 14 16.0	1.2			
SSE	162.2	321	+PKP	14 14 17.0	1.3			
			LN		M_S = 5.8		20.0	0.93
			LE				20.0	0.92
NJ2	162.8	329	−PKP	14 14 17.0	0.8			
WHN	166.0	338	ePKP	14 14 20.0	0.6			
			PP	14 19 05.0	−3.6			
			LZ		M_S = 5.8		20.0	1.27
CD2	166.1	17	PKP	14 14 20.5	1.0			
KMI	170.9	34	+PKP	14 14 23.5	0.8			
			PP	14 19 30.0	−2.9			
			LN		M_S = 5.9		20.0	1.90
GYA	171.0	10	PKP	14 14 23.6	0.9			
			PKP2	14 15 42.0	−0.4			
			PP	14 19 31.4	−2.4			
			LE		M_S = 5.8		20.0	1.60
QZN	178.0	316	ePKP	14 14 26.0	1.2			
			PP	14 20 05.0	−2.5			
			eSKS	14 21 24.0	1.4			

JUL 4d 13h 59m 45.3 ± 0.07s, SD1.71 / 26
28.00 N ± 1.50km, 130.64 E ± 1.26km, h62 ± 1.07km
Ryukyu Islands (238)
M_S4.4 / 10,

SSE	8.8	293	+P	14 01 53.0	0.8			
			LN		M_S = 4.0		12.0	0.87
			LE				10.0	0.59
DL2	13.2	328	eP	14 02 55.0	3.0			
			LN		M_S = 4.4		13.0	0.55
			LE				13.0	1.15
CN2	16.3	347	+P	14 03 32.0	0.1			
			eS	14 06 28.0	−1.6			
			LN		M_S = 4.5		13.0	1.30
BJI	16.9	319	eP	14 03 36.5	−3.3			
			LN		M_S = 4.5		14.0	0.79
			LE				13.0	0.92
			LZ		M_S = 4.7		12.0	2.30
TIY	18.1	307	eP	14 03 54.0	0.0			
			LN		M_S = 4.4		14.0	0.84
GYA	21.4	271	P	14 04 30.6	0.8			
CD2	23.6	284	eP	14 04 51.2	−0.1			
			LE		M_S = 5.0		14.0	2.14
LZH	24.0	296	eP	14 04 56.0	−0.1			
			LE		M_S = 4.6		12.0	0.83
GTA	27.9	302	eP	14 05 30.6	−1.7			

JUL 4d 14h 38m 58.8 ± 0.08s, SD1.22 / 98
2.91 N ± 1.33km, 128.29 E ± 1.69km, h37 ± 0.07km
Molucca Passage (266)
M_S5.0 / 25, m_B5.8 / 6, m_b5.8 / 3,

QZH	23.8	338	+P	14 44 09.0	−0.4			
			pP	14 44 20.0	0.9			
			eS	14 48 17.0	−2.5			
			LN		M_S = 4.6		16.0	1.03
QZN	24.1	313	eP	14 44 12.0	−0.5			
			PP	14 44 46.5	−0.4			
			eS	14 48 23.0	−2.0			
			LN		M_S = 5.2		16.0	2.80
			LE				17.0	3.00
GZH	24.7	325	P	14 44 20.0	1.7			
			pP	14 44 30.0	2.0			
			S	14 48 39.5	4.9			
			SMN		m_B = 6.1		6.0	2.60
			SME				8.0	2.32
			LZ		M_S = 4.8		36.0	5.00
SSE	28.8	347	P	14 44 57.0	1.0			

			sP	14 45 14.0	3.8			
			S	14 49 40.0	−1.2			
			LN	M_S=4.9		14.0	0.77	
			LE			13.0	0.99	
NJ2	30.3	344	+P	14 45 09.8	0.6			
			LZ	M_S=4.4		26.0	1.02	
WHN	30.5	336	eP	14 45 12.0	1.3			
			pP	14 45 24.0	3.3			
			S	14 50 08.0	0.5			
			LN	M_S=4.6		14.0	0.65	
GYA	31.3	320	P	14 45 21.0	3.0			
			pP	14 45 32.0	4.4			
			S	14 50 23.0	3.0			
KMI	33.1	314	−P	14 45 35.0	1.4			
			pP	14 45 44.0	0.7			
			S	14 50 51.0	3.2			
			LN	M_S=5.0		16.0	1.60	
TIA	34.7	344	eP	14 45 47.5	0.0			
			eS	14 51 12.0	−2.2			
			LN	M_S=4.7		14.0	0.63	
CD2	36.2	323	eP	14 46 00.6	0.1			
			eS	14 51 36.5	−1.2			
DL2	36.3	351	eP	14 46 02.5	1.1			
			epP	14 46 16.0	4.6			
			eS	14 51 38.0	−1.3			
			LN	M_S=5.1		14.0	0.91	
			LE			14.0	0.91	
TIY	37.6	339	eP	14 46 11.5	−0.3			
			pP	14 46 23.0	1.2			
			S	14 51 57.0	−0.2			
			LN	M_S=4.9		16.0	1.05	
BJI	38.6	345	eP	14 46 18.0	−2.0			
			esP	14 46 34.0	−0.4			
			eS	14 52 09.0	−4.2			
			eScP	14 52 16.0	0.4			
			ePcS	14 52 22.0	2.0			
			eScS	14 56 27.5	2.9			
			LZ	M_S=4.5		26.0	1.01	
SNY	39.0	354	+P	14 46 23.0	−0.5			
			S	14 52 18.0	−0.6			
			LZ	M_S=4.8		26.0	1.90	
LZH	40.0	329	eP	14 46 33.5	1.3			
			PMZ	m_b=5.5		1.5	0.11	
			pP	14 46 43.0	0.9			
			eS	14 52 32.0	−3.4			
			SME	m_B=5.7		7.0	1.03	
			LE	M_S=5.0		10.0	0.70	
HHC	40.7	340	eP	14 46 36.0	−1.7			
CN2	40.8	357	eP	14 46 39.0	0.4			
			pP	14 46 52.0	3.3			
			eS	14 52 47.0	0.2			
			LE	M_S=4.9		15.0	0.80	
BTO	41.0	339	P	14 46 40.0	−0.3			
			pP	14 46 52.5	2.2			
			ePP	14 48 19.0	1.0			
			S	14 52 48.0	−0.8			
			LN	M_S=5.3		19.0	1.60	
			LE			20.0	1.70	
MDJ	41.5	1	eP	14 46 44.5	−0.3			
			pP	14 46 54.5	−0.4			
			sP	14 46 59.0	−0.2			
			S	14 52 54.0	−3.0			
GTA	44.6	328	+P	14 47 09.8	0.0			
			pP	14 47 21.0	1.2			
			S	14 53 42.0	0.4			
			ScS	14 57 01.6	0.6			
			LN	M_S=5.2		21.0	2.00	
WMQ	54.3	325	−P	14 48 24.5	0.4			
			S	14 55 58.0	1.6			
			LZ	M_S=5.2		32.0	3.32	
KSH	59.8	315	P	14 49 05.0	1.9			
			LN	M_S=5.3		16.0	1.20	

JUL 4d 21h 36m 15.7±0.12s, SD1.42/37
6.81 S±2.14km, 154.74 E±1.35km, h62±1.43km
Solomon Islands (193)

WHN	53.6	316	eP	21 45 35.0	1.4	
CN2	56.9	335	eP	21 45 55.0	−2.4	
KMI	59.7	304	−P	21 46 18.0	1.0	
CD2	61.5	311	P	21 46 29.0	−0.1	
GTA	68.4	317	−lP	21 47 14.6	0.7	
LSA	71.0	304	−P	21 47 30.0	0.3	
WMQ	78.5	317	eP	21 48 16.0	3.2	
KSH	85.7	310	eP	21 48 52.0	1.7	

JUL 5d 07h 36m 20.8±0.11s, SD2.16/65
28.08 N±1.81km, 91.21 E±1.35km, h11±0.24km
Bhutan (312)
M_S4.4/16,

LSA	1.6	358	+iPg	07 36 55.4	5.5		
			Sg	07 37 14.4	2.8		
			SMN			3.0	10.2
KMI	10.7	103	eP	07 39 02.0	4.1		
			eS	07 40 58.0	−1.3		
			LN	M_S=4.3		10.0	1.30
CD2	11.3	73	eP	07 39 07.4	2.0		
			eS	07 41 14.8	2.1		
			LN	M_S=4.4		6.0	0.91
LZH	13.3	50	eP	07 39 32.5	−0.8		
			LN	M_S=4.8		10.0	2.30
			LE			10.0	1.20
GTA	13.4	30	eP	07 39 31.4	−2.1		
			LE	M_S=4.1		9.0	0.53
GYA	13.8	93	P	07 39 39.4	−0.3		
			S	07 42 18.0	4.2		
WMQ	16.0	351	eP	07 40 08.0	0.7		
			eS	07 43 06.0	1.5		
			LN	M_S=4.3		10.0	0.43
			LE			10.0	0.53
QZN	19.3	114	eP	07 40 48.8	0.2		
			PP	07 41 09.0	3.8		
			eS	07 44 20.0	−0.4		
			sS	07 44 32.0	3.9		
BTO	19.9	46	eP	07 40 54.0	−1.4		
			PP	07 41 15.0	1.6		
			eS	07 44 29.0	−4.8		
			LN	M_S=4.6		11.0	0.80
			LE			11.0	0.70
TIY	20.2	56	eP	07 40 57.4	−1.5		
			PP	07 41 20.0	2.0		
			S	07 44 36.0	−3.8		
			LN	M_S=4.6		12.0	0.92
			LE			10.0	0.35
WHN	20.3	77	eP	07 40 59.5	−0.4		
			PP	07 41 22.0	2.4		
			S	07 44 41.0	−1.1		
			LN	M_S=4.3		9.0	0.40
HHC	21.0	47	eP	07 41 06.0	−1.2		
TIA	23.3	63	eP	07 41 30.6	0.3		
			S	07 45 38.5	0.1		
BJI	23.8	53	eP	07 41 35.0	0.3		
			LN	M_S=4.8		9.0	0.94
			LZ	M_S=4.0		24.0	0.60
SSE	26.2	76	P	07 41 56.0	−1.7		
SNY	29.7	54	eP	07 42 28.6	−0.5		

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JUL 5d 08h 06m 42.9 ± 0.15s, SD1.20 / 75
6.52 N ± 0.84km, 125.72 E ± 0.70km, h186 ± 1.61km
Mindanao (259)
m_b5.0 / 2,

QZN	19.8	310	eP	08 11 02.0	0.6		
			sP	08 11 55.0	−1.8		
			SS	08 15 23.0	6.2		
SSE	24.8	351	eP	08 11 48.0	−1.7		
			PcP	08 15 23.0	1.8		
			eS	08 16 00.0	3.5		
			ScP	08 18 43.5	2.6		
WHN	26.2	337	eP	08 12 02.7	0.4		
NJ2	26.2	347	eP	08 12 06.0	3.5		
			ScP	08 18 48.0	3.1		
GYA	26.9	320	P	08 12 10.0	1.1		
			pP	08 12 47.0	0.9		
			PcP	08 15 27.0	1.1		
			S	08 16 33.0	3.5		
KMI	28.7	313	+P	08 12 26.0	0.3		
CD2	31.8	322	P	08 12 51.8	−0.8		
			eS	08 17 42.2	−6.3		
BJI	34.5	347	eP	08 13 15.0	−0.1		
			PcP	08 15 46.0	0.2		
			ScP	08 19 14.5	2.6		
			ScS	08 23 19.0	5.2		
SNY	35.2	357	+iP	08 13 21.8	0.3		
LZH	35.6	329	eP	08 13 25.5	0.5		
			PMZ	m_b = 5.2		1.0	0.060
MDJ	38.1	4	+P	08 13 47.8	2.0		
LSA	39.9	310	eP	08 14 01.0	0.1		
GTA	40.2	328	+P	08 14 03.0	−0.3		
			pP	08 14 42.8	0.1		
			PcP	08 16 04.0	0.6		
WMQ	49.9	324	eP	08 15 19.3	−0.4		
			pP	08 16 01.3	0.7		

JUL 5d 10h 20m 36.6 ± 0.03s, SD1.36 / 14
4.37 S ± 0.39km, 135.08 E ± 0.42km, h31 ± 0.11km
West Irian region (196)

BJI	47.5	340	P	10 29 12.5	1.5		
LZH	49.7	327	eP	10 29 29.0	0.3		
GTA	54.3	327	P	10 30 03.2	0.0		

JUL 5d 12h 42m 46.5 ± 0.09s, SD1.47 / 34
4.27 S ± 1.08km, 135.05 E ± 1.53km, h21 ± 0.22km
West Irian region (196)

CD2	46.0	322	eP	12 51 10.4	−0.3		
TIY	46.8	335	eP	12 51 18.0	1.3		
BJI	47.4	340	P	12 51 22.5	1.0		
LZH	49.6	327	eP	12 51 42.5	3.2		
GTA	54.2	327	−iP	12 52 13.9	0.0		
WMQ	64.0	324	eP	12 53 21.0	−0.5		

JUL 5d 14h 59m 25.9 ± 0.06s, SD2.17 / 12
29.43 N ± 0.61km, 104.19 E ± 0.60km, h11 ± 0.18km
Sichuan Province (307)
M_L3.2 / 8,

CD2	1.5	346	Pg	14 59 53.4	0.5		
			Sg	15 00 14.6	1.0		
			SMN	M_L = 3.4		0.4	0.43
			SME			0.4	0.44
GYA	3.7	143	Pn	15 00 24.0	0.6		
			Pg	15 00 35.6	4.6		
			Sn	15 01 08.0	−0.7		
			Sg	15 01 26.0	4.6		
			SMN	M_L = 3.3		1.0	0.080
			SME			1.0	0.060
KMI	4.5	197	ePn	15 00 35.5	1.0		

JUL 5d 20h 32m 01.2 ± 0.10s, SD1.16 / 102
6.06 S ± 1.18km, 148.84 E ± 1.59km, h60 ± 0.28km
New Britain region (192)
M_S6.6 / 45, m_B6.5 / 25, m_b6.2 / 8,

QZH	42.6	318	+P	20 39 54.0	0.4		
			PMZ	m_B = 6.6		9.0	7.87
			iS	20 46 16.0	4.5		
			SMN	m_B = 6.4		10.0	5.80
			LN	M_S = 6.4		20.0	32.5
GZH	45.2	311	eP	20 40 14.7	0.3		
			S	20 46 50.0	2.1		
			LN	M_S = 6.4		22.0	20.1
			LE			19.0	24.3
SSE	45.4	326	+P	20 40 17.6	1.3		
			PMZ	m_b = 6.3		1.0	0.44
			S	20 46 58.0	6.7		
			SMN			20.0	13.0
			SME			20.0	16.1
			SS	20 50 10.0	2.3		
			LN	M_S = 6.8		22.0	58.2
			LE			22.0	59.1
QZN	45.8	304	eP	20 40 19.0	−0.3		
			PP	20 42 11.0	4.4		
			PcS	20 45 47.0	−1.2		
			LE	M_S = 6.3		22.0	23.8
NJ2	47.5	325	+P	20 40 32.0	−0.3		
			S	20 47 27.0	6.9		
			LN	M_S = 6.6		21.0	42.7
			LZ	M_S = 6.3		34.0	53.2
WHN	49.1	320	+P	20 40 46.0	0.6		
			PMZ	m_B = 6.6		8.0	5.56
			S	20 47 47.0	3.2		
			LN	M_S = 6.3		16.0	15.4
DL2	51.4	333	+P	20 41 03.0	0.7		
			PMZ	m_B = 6.5		10.0	6.00
			ePP	20 43 01.5	2.1		
			eS	20 48 18.0	2.6		
			SMN			24.0	17.0
			SME			26.0	12.1
			eSS	20 51 50.0	1.7		
			LN	M_S = 6.7		18.0	37.0
			LE			23.0	33.8
TIA	51.5	327	−P	20 41 03.3	−0.1		
			PMZ	m_B = 6.2		10.0	3.14
			pP	20 41 22.0	4.0		
			S	20 48 16.0	−0.3		
			SMN			13.0	3.93
			SME			15.0	5.79
			LN	M_S = 6.9		22.0	38.9
			LE			20.0	56.5
GYA	52.1	310	P	20 41 08.0	−0.1		
			ScS	20 50 45.0	−2.7		
			LN	M_S = 6.3		17.0	12.8
			LE			17.0	7.60
SNY	52.9	336	+iP	20 41 14.0	−0.2		
			PMZ	m_B = 6.6		7.0	5.61
			S	20 48 38.0	1.9		
			SMN	m_B = 6.3		10.0	3.97
			ScS	20 50 55.0	1.4		
			LN	M_S = 6.5		20.0	25.0
			LE			17.0	9.23
MDJ	53.3	343	+P	20 41 17.8	0.7		
			S	20 48 48.0	6.7		
			LZ	M_S = 6.8		34.0	164
CN2	53.9	339	+P	20 41 21.0	−0.6		
			PMZ	m_B = 6.5		7.0	4.60
			eS	20 48 47.0	−3.8		

			LN		$M_S=6.6$		19.0	32.0
KMI	54.5	307	+P	20 41 27.0		1.2		
			sP	20 41 51.0		4.2		
			PP	20 43 33.0		4.5		
			S	20 49 03.5		6.5		
			LE		$M_S=6.6$		22.0	32.9
BJI	54.9	330	+P	20 41 27.0		−1.3		
			PMZ		$m_B=6.4$		11.0	5.50
			esP	20 41 50.0		0.5		
			eS	20 49 05.0		2.0		
			LN		$M_S=6.7$		19.0	33.2
			LE				19.0	26.6
TIY	55.2	325	+iP	20 41 30.0		−0.7		
			sP	20 41 51.0		−0.8		
			PP	20 43 28.0		−6.8		
			S	20 49 09.5		3.2		
			sS	20 49 33.0		−0.1		
			LN		$M_S=6.6$		19.0	33.7
CD2	56.6	313	P	20 41 39.8		−1.3		
			LZ		$M_S=6.1$		40.0	28.8
HHC	57.9	327	+P	20 41 49.0		−0.8		
			S	20 49 39.0		−2.6		
BTO	58.5	326	+P	20 41 54.0		−0.5		
			S	20 49 52.0		1.6		
			SS	20 53 51.0		5.7		
LZH	59.5	318	eP	20 42 00.0		−1.0		
			PMZ		$m_b=6.2$		1.5	0.42
			eS	20 50 03.0		−1.0		
			SME		$m_B=6.0$		12.0	2.76
			LN		$M_S=6.8$		25.0	35.5
			LE				24.0	42.5
GTA	64.0	319	+P	20 42 30.6		−0.6		
			PMZ		$m_B=6.3$		10.5	4.33
			S	20 51 03.0		3.6		
			sS	20 51 29.0		2.2		
			SS	20 55 11.0		0.8		
			LE		$M_S=6.4$		18.0	14.4
LSA	65.7	306	P	20 42 42.0		−1.1		
			S	20 51 25.0		3.8		
			LE		$M_S=6.2$		21.0	10.7
WMQ	74.0	319	P	20 43 31.5		−1.7		
			PMZ		$m_B=6.3$		11.0	4.32
			iPP	20 46 20.0		0.8		
			iS	20 53 02.0		2.2		
			iSS	20 57 40.0		−6.0		
			LN		$M_S=6.4$		17.0	9.38
			LE				18.0	5.79
KSH	80.8	311	P	20 44 11.0		−0.1		
			LE		$M_S=6.8$		22.0	30.1

JUL 5d 20h 32m 07.0 ± 0.07s, SD1.25 / 15
5.86 S ± 1.22km, 148.79 E ± 0.90km, h54 ± 0.36km
New Britain region (192)

SSE	45.2	326	P	20 40 23.3	2.1	
KMI	54.3	307	+iP	20 41 32.8	1.7	
BJI	54.7	330	+iP	20 41 32.4	−0.9	
LZH	59.3	318	+P	20 42 05.7	−0.5	
WMQ	73.8	319	+iP	20 43 37.5	−1.1	

JUL 6d 01h 10m 52.4 ± 0.10s, SD0.97 / 85
17.74 S ± 1.37km, 178.74 W ± 1.94km, h549 ± 0.63km
Fiji region (181)
m_B5.7 / 25, m_b5.5 / 11,

QZH	74.3	303	+P	01 21 38.0		2.0		
			PMZ		$m_B=5.7$		4.0	1.04
			PP	01 24 33.0		0.8		
			S	01 30 28.0		2.6		
			SMN		$m_B=5.8$		6.0	1.42
SSE	75.4	310	P	01 21 41.0		−0.9		
			PMZ		$m_B=5.4$		5.0	0.94
			sP	01 24 32.0		−0.1		
			S	01 30 39.0		2.1		
			SMN		$m_B=5.5$		8.0	0.79
			SME				8.0	0.47
NJ2	77.6	310	+iP	01 21 54.0		0.1		
			sP	01 24 44.0		−0.6		
			iS	01 31 06.0		4.4		
GZH	77.8	299	+P	01 21 55.2		0.4		
			S	01 31 05.5		3.6		
MDJ	77.9	325	+P	01 21 55.5		0.1		
			PMZ		$m_b=5.6$		1.2	0.32
			pP	01 23 50.0		−1.6		
			sP	01 24 42.0		−4.2		
			S	01 31 09.0		6.0		
QZN	79.1	294	+P	01 22 03.0		1.1		
			sP	01 24 56.5		3.4		
			S	01 31 20.0		4.3		
			SMN		$m_B=5.5$		9.0	0.80
DL2	79.2	317	+P	01 22 02.5		−0.2		
			PMZ		$m_B=5.6$		4.0	1.01
			esP	01 24 56.0		2.1		
			S	01 31 20.0		2.7		
			SMN		$m_B=5.6$		6.0	0.55
			SME				7.0	0.54
SNY	79.6	320	−iP	01 22 04.0		−0.8		
			PMZ				3.0	1.15
			sP	01 24 56.0		−0.1		
			iS	01 31 27.5		4.5		
			SMN		$m_B=6.0$		6.0	1.08
			SME				5.0	1.10
CN2	79.7	322	+iP	01 22 04.8		−0.3		
			pP	01 24 01.0		−0.8		
			sP	01 24 55.0		−1.4		
			eS	01 31 26.0		2.5		
			SMN		$m_B=6.0$		5.5	0.80
			SME				5.5	1.40
WHN	80.2	306	+P	01 22 08.0		0.1		
			PMZ		$m_b=5.4$		1.7	0.31
			epP	01 24 05.0		0.1		
			S	01 31 31.0		3.5		
			SMN		$m_B=5.8$		7.0	1.19
TIA	80.9	313	+P	01 22 10.7		−0.7		
			S	01 31 38.0		3.9		
			SMN		$m_B=5.7$		7.0	0.87
			SME				7.0	0.54
BJI	83.4	316	+iP	01 22 24.0		−0.1		
			PMZ		$m_B=5.6$		4.0	0.95
			esP	01 25 16.0		−0.3		
			ePP	01 25 49.0		1.8		
			eSKS	01 31 54.0		2.5		
			eS	01 32 04.0		3.3		
GYA	84.7	300	+P	01 22 31.0		0.7		
			SKS	01 32 06.0		6.4		
			S	01 32 15.0		4.1		
TIY	84.9	312	+iP	01 22 32.0		0.5		
			PMZ		$m_B=5.7$		4.0	0.98
			sP	01 25 24.0		0.1		
			PP	01 25 54.5		−4.3		
			SKS	01 32 06.5		5.3		
			S	01 32 20.0		6.8		
			sS	01 35 48.0		4.8		
HHC	86.9	315	+iP	01 22 41.0		−0.1		
KMI	87.5	297	+iP	01 22 45.5		1.7		
			PMZ		$m_B=5.8$		4.0	0.70
			sP	01 25 38.0		1.4		
			iS	01 32 43.5		4.5		

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			SMN		$m_B = 5.9$		6.0	1.00
BTO	87.9	314	+P	01 22 46.0		0.5		
			pP	01 24 44.0		−0.7		
			esP	01 25 38.0		−0.6		
			SKS	01 32 24.0		4.0		
			eS	01 32 44.0		1.6		
CD2	88.7	303	P	01 22 49.8		0.4		
			S	01 32 55.0		7.0		
			SMN		$m_B = 6.3$		6.0	2.41
LZH	90.5	308	+iP	01 22 58.5		0.5		
			PMZ		$m_b = 5.8$		1.5	0.20
			eS	01 33 13.0		6.7		
			SMN		$m_B = 6.2$		6.0	1.65
GTA	94.7	310	+iP	01 23 16.6		−0.3		

JUL 6d 01h 48m 41.9 ± 0.12s, SD1.38 / 70
6.02 S ± 1.26km, 148.85 E ± 1.92km, h68 ± 0.31km
New Britain region (192)
M_S5.3 / 12, m_B5.8 / 2,

SSE	45.4	326	eP	01 56 56.7		0.6		
			pP	01 57 10.5		−2.2		
			eS	02 03 33.0		1.2		
			esS	02 04 02.0		1.4		
			LN		$M_S = 5.3$		23.0	1.88
			LE				23.0	1.89
QZN	45.8	304	eP	01 57 03.4		4.3		
			eS	02 03 42.0		4.7		
			eSS	02 06 56.0		1.9		
NJ2	47.4	325	+P	01 57 12.4		0.3		
			S	02 03 59.1		−0.6		
			LZ		$M_S = 4.9$		28.0	1.78
WHN	49.1	320	eP	01 57 25.5		0.3		
			sP	01 57 47.0		−3.1		
			eS	02 04 26.0		1.6		
			LZ		$M_S = 5.0$		28.0	2.37
DL2	51.3	333	eP	01 57 43.0		1.0		
			esP	01 58 09.0		2.1		
			eS	02 04 58.0		3.1		
			LN		$M_S = 5.3$		18.0	1.80
TIA	51.5	327	−P	01 57 42.8		−0.3		
			LN		$M_S = 5.4$		21.0	1.30
			LE				21.0	2.30
GYA	52.1	310	P	01 57 48.0		0.1		
			S	02 05 11.0		6.7		
			sS	02 05 33.0		−1.6		
SNY	52.9	336	+iP	01 57 53.5		−0.4		
			S	02 05 20.0		4.4		
			LZ		$M_S = 4.9$		34.0	1.71
MDJ	53.3	343	eP	01 57 58.2		1.4		
			pP	01 58 11.0		−2.7		
			LZ		$M_S = 4.9$		24.0	1.30
CN2	53.9	339	eP	01 58 01.0		−0.3		
			pP	01 58 14.0		−4.2		
			eS	02 05 34.0		3.8		
			LN		$M_S = 5.3$		19.0	1.70
BJI	54.8	330	eP	01 58 08.0		0.0		
			epP	01 58 22.0		−3.0		
			esP	01 58 30.0		−3.1		
			eS	02 05 44.0		1.5		
			LN		$M_S = 5.2$		20.0	1.17
			LZ		$M_S = 5.0$		28.0	1.98
TIY	55.2	325	eP	01 58 10.0		−0.5		
			S	02 05 45.0		−0.8		
			sS	02 06 13.5		−2.8		
			LE		$M_S = 4.9$		16.0	0.52
CD2	56.6	313	P	01 58 20.4		−0.5		
BTO	58.5	326	P	01 58 33.5		−0.7		
			eS	02 06 31.0		−0.3		
			sS	02 06 56.0		−4.7		
			LN		$M_S = 5.4$		20.0	1.20
			LE				20.0	1.20
LZH	59.4	318	eP	01 58 40.0		−0.7		
			pP	01 58 53.5		−4.3		
			LZ		$M_S = 5.2$		16.0	1.54
GTA	63.9	319	eP	01 59 11.0		0.0		
WMQ	74.0	319	eP	02 00 09.0		−3.9		
			eS	02 09 40.5		1.3		
			SKS	02 10 04.0		−4.2		
			LZ		$M_S = 4.7$		20.0	0.39

JUL 6d 03h 00m 14.1 ± 0.08s, SD1.27 / 44
25.32 N ± 1.35km, 128.38 E ± 1.29km, h30 ± 0.35km
Ryukyu Islands region (239)
M_S3.8 / 4,

SSE	8.6	314	eP	03 02 19.0		0.0		
			LN		$M_S = 3.7$		10.0	0.49
WHN	13.4	296	eP	03 03 27.0		1.6		
BJI	17.9	328	eP	03 04 23.0		0.5		
TIY	18.3	316	P	03 04 28.0		−0.2		
			eS	03 07 53.0		4.2		
			LN		$M_S = 4.1$		12.0	0.35
CN2	18.6	353	−P	03 04 31.9		0.7		
GYA	19.6	278	eP	03 04 42.6		0.0		
BTO	21.6	319	eP	03 05 07.5		3.6		
CD2	22.4	290	eP	03 05 10.6		−1.1		
KMI	23.2	275	−P	03 05 22.0		2.3		
LZH	23.6	303	eP	03 05 24.3		0.6		
GTA	27.8	307	P	03 06 01.8		−1.1		

JUL 6d 03h 40m 04.1 ± 0.34s, SD2.94 / 14
22.61 N ± 2.96km, 117.71 E ± 2.22km, h5 ± km
Taiwan region (243)
M_L3.7 / 9,

QZH	2.5	19	+Pn	03 40 43.7		−1.6		
			iSn	03 41 15.5		−2.2		
			iSg	03 41 23.5		2.2		
			SMN		$M_L = 3.6$		0.1	0.20
			SME				0.1	0.44
GZH	4.1	278	ePg	03 41 12.2		−3.6		
			eSg	03 42 06.5		−4.7		
QZN	8.2	246	eP	03 42 07.0		0.5		

JUL 6d 15h 54m 18.2 ± 0.07s, SD1.33 / 108
41.85 N ± 1.57km, 144.08 E ± 1.32km, h27 ± 0.32km
Hokkaido region (224)
M_S6.6 / 44, m_B6.2 / 18, m_b6.1 / 9,

MDJ	10.9	290	+iP	15 56 58.0		1.8		
			pP	15 57 01.5		−1.2		
			sP	15 57 04.7		−2.1		
			S	15 59 02.0		3.8		
			LZ		$M_S = 6.0$		16.0	102
CN2	13.8	284	+iP	15 57 34.8		−0.1		
			PMZ		$m_B = 6.5$		6.0	5.70
			epP	15 57 42.0		0.7		
			eS	16 00 07.0		−1.5		
			LE		$M_S = 6.3$		14.0	101
SNY	15.3	277	+iP	15 57 54.0		0.0		
			pP	15 58 03.0		2.4		
			S	16 00 44.0		1.4		
			LN		$M_S = 6.6$		11.0	90.4
			LE				16.0	148
DL2	17.3	268	+iP	15 58 20.0		−0.3		
			pP	15 58 24.0		−3.1		
			PP	15 58 33.0		−1.5		
			S	16 01 30.0		−0.4		
			LN		$M_S = 6.3$		13.0	49.5

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			LE			15.0	64.1	
BJI	21.1	274	+iP	15 59 01.5	−2.0			
			eS	16 02 52.0	−0.4			
			LN	$M_S = 6.7$		16.0	122	
			LE			16.0	119	
			LZ	$M_S = 5.9$		26.0	64.2	
SSE	21.2	247	eP	15 59 03.0	−1.8			
			sP	15 59 16.0	−0.3			
			S	16 02 52.0	−2.0			
			isS	16 03 04.0	−3.2			
			PcP	16 03 08.0	−1.1			
			SS	16 03 22.0	−6.0			
			LN	$M_S = 6.3$		12.0	39.7	
			LE			12.0	30.4	
TIA	21.6	264	+P	15 59 06.9	−1.8			
			PMZ	$m_B = 5.9$		4.5	2.40	
			pP	15 59 17.0	0.5			
			S	16 03 00.0	−1.4			
			SMN	$m_B = 6.2$		4.5	3.40	
			SME			4.5	2.30	
			LN	$M_S = 6.5$		14.0	35.5	
			LE			14.0	75.2	
NJ2	22.3	252	+P	15 59 13.7	−2.0			
			S	16 03 14.0	−0.2			
			LN	$M_S = 6.7$		15.0	66.3	
			LE			16.0	109	
HHC	24.4	279	P	15 59 35.4	−0.2			
			pP	15 59 47.0	3.6			
TIY	24.6	271	+iP	15 59 37.4	−0.4			
			SMN			21.0	24.4	
			SME			18.0	35.2	
			LN	$M_S = 6.5$		15.0	46.6	
			LE			16.0	63.4	
BTO	25.6	279	+iP	15 59 47.0	0.0			
			PMZ	$m_B = 6.2$		9.0	5.60	
			sP	16 00 02.0	3.5			
			PP	16 00 27.0	1.1			
			S	16 04 11.0	1.1			
			sS	16 04 24.0	0.1			
WHN	26.4	254	+iP	15 59 54.0	−0.6			
			PMZ	$m_b = 6.0$		1.0	0.36	
			pP	16 00 05.0	2.5			
			S	16 04 25.0	1.5			
			SME	$m_B = 6.0$		5.0	2.28	
			LE	$M_S = 6.1$		16.0	27.7	
QZH	27.0	239	+iP	16 00 00.5	0.2			
			PMZ	$m_B = 6.6$		4.0	5.21	
			S	16 04 36.0	2.3			
			SMN			16.0	25.7	
			LN	$M_S = 6.5$		20.0	78.7	
			LE			20.0	50.1	
LZH	31.6	273	+iP	16 00 43.2	1.6			
			PMZ	$m_b = 6.5$		1.5	1.21	
			S	16 05 49.0	2.3			
			LN	$M_S = 6.8$		14.0	59.7	
			LE			13.0	71.7	
GZH	31.7	243	+P	16 00 43.0	0.5			
			S	16 05 54.2	5.3			
			LN	$M_S = 6.8$		18.0	91.9	
			LE			16.0	58.0	
GTA	33.4	281	+iP	16 00 58.0	0.7			
			PMZ	$m_B = 6.5$		5.0	3.77	
			pP	16 01 04.0	−1.3			
			sP	16 01 07.0	−1.9			
			PP	16 02 09.0	0.2			
			S	16 06 21.0	6.0			
			sS	16 06 30.0	0.5			
			LE	$M_S = 6.9$		15.0	115	
CD2	34.0	264	+iP	16 01 02.2		0.1		
			S	16 06 27.0		3.3		
			LE	$M_S = 6.8$		13.0	75.6	
GYA	34.3	255	+P	16 01 05.0		0.4		
			PMZ	$m_B = 6.5$		4.0	3.10	
			pP	16 01 16.0		3.3		
			PP	16 02 19.0		−0.1		
			PcP	16 03 41.0		0.8		
			S	16 06 28.0		−0.2		
			sS	16 06 43.0		0.4		
			ScP	16 07 22.0		−0.1		
			ScS	16 11 24.0		0.9		
			LN	$M_S = 6.9$		16.0	73.7	
			LE			16.0	99.7	
QZN	36.9	242	+iP	16 01 29.0		2.1		
			PP	16 02 54.0		1.4		
			S	16 07 14.0		5.2		
			LN	$M_S = 6.7$		17.0	49.0	
			LE			18.0	52.8	
KMI	37.9	257	+iP	16 01 37.0		1.4		
			pP	16 01 48.0		4.4		
			PP	16 03 04.0		−0.7		
			S	16 07 25.0		0.9		
			SS	16 10 04.0		3.1		
			LN	$M_S = 6.7$		15.0	62.2	
WMQ	40.7	292	+iP	16 01 59.9		1.1		
			PMZ	$m_B = 6.3$		6.0	3.10	
			iPP	16 03 33.8		−2.0		
			S	16 08 08.0		1.6		
			sS	16 08 24.0		2.9		
			LN	$M_S = 6.9$		15.0	60.7	
			LE			15.0	51.9	
LSA	44.0	272	+P	16 02 27.4		1.4		
			pP	16 02 36.0		2.1		
			S	16 09 00.0		5.4		
			LN	$M_S = 6.5$		16.0	16.1	
			LE			16.0	24.6	
KSH	50.5	291	+iP	16 03 18.0		1.3		
			PP	16 05 15.0		2.6		
			S	16 10 28.0		1.4		
			sS	16 10 44.0		2.4		
			LN	$M_S = 6.9$		16.0	59.5	

JUL 6d 16h 31m 31.1 ± 0.08s, SD1.35 / 79
41.80 N ± 1.73km, 144.06 E ± 1.32km, h32 ± 0.94km
Hokkaido region **(224)**
m_b5.3 / 3,

MDJ	10.9	290	eP	16 34 09.8		1.3		
			pP	16 34 12.8		−2.6		
CN2	13.8	285	+P	16 34 46.0		−1.1		
SNY	15.3	277	eP	16 35 06.0		−0.2		
DL2	17.3	268	eP	16 35 32.5		0.2		
BJI	21.1	275	eP	16 36 13.5		−2.1		
SSE	21.2	247	eP	16 36 13.0		−3.5		
TIA	21.6	264	−P	16 36 18.7		−2.0		
NJ2	22.3	252	+P	16 36 26.3		−1.2		
HHC	24.3	279	eP	16 36 47.7		0.1		
TIY	24.6	271	eP	16 36 48.6		−1.2		
BTO	25.6	279	eP	16 36 57.7		−1.4		
WHN	26.4	254	−P	16 37 07.5		1.1		
			PMZ	$m_b = 5.3$		1.0	0.080	
LZH	31.6	273	P	16 37 53.5		−0.1		
			PMZ	$m_b = 5.3$		2.0	0.11	
GTA	33.4	281	+P	16 38 09.8		0.4		
CD2	33.9	265	P	16 38 13.9		−0.1		
GYA	34.2	255	P	16 38 16.6		0.1		
			sP	16 38 28.6		−0.8		
			S	16 43 45.0		5.6		

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KMI	37.9	257	+P	16 38 48.5	1.1		
WMQ	40.7	292	eP	16 39 11.9	1.0		
			eS	16 45 18.0	−1.3		
LSA	44.0	272	−P	16 39 39.8	1.8		

JUL 6d 16h 55m 19.6 ± 0.07s, SD1.27 / 90
41.85 N ± 1.86km, 144.07 E ± 1.55km, h28 ± 0.66km
Hokkaido region (224)
M_S5.6 / 21, m_b5.5 / 6,

MDJ	10.9	290	eP	16 57 58.8	1.4		
			pP	16 58 01.8	−2.3		
			S	17 00 03.0	3.6		
CN2	13.8	284	+P	16 58 35.5	−0.6		
			epP	16 58 43.0	0.3		
			eS	17 01 10.0	0.3		
			LE	M_S = 5.6	14.0	25.3	
SNY	15.3	277	+iP	16 58 55.5	0.2		
			eS	17 01 45.0	0.7		
			LN	M_S = 5.4	14.0	1.74	
			LE		14.0	10.8	
DL2	17.3	268	+iP	16 59 22.0	0.4		
			PMZ		3.0	1.47	
			sP	16 59 28.0	−4.8		
			eS	17 02 34.0	1.8		
			SME		15.0	3.22	
			LN	M_S = 5.3	13.0	7.10	
BJI	21.1	274	+P	17 00 02.5	−2.3		
SSE	21.2	247	eP	17 00 07.6	1.6		
			SS	17 04 30.0	0.8		
			LN	M_S = 5.5	15.0	7.70	
			LE		16.0	5.93	
TIA	21.6	264	+P	17 00 07.4	−2.6		
NJ2	22.3	252	+P	17 00 17.3	0.4		
			LE	M_S = 5.6	12.0	8.00	
			LZ	M_S = 5.4	18.0	11.0	
HHC	24.4	279	eP	17 00 36.2	−0.6		
TIY	24.6	271	P	17 00 38.0	−1.0		
			LN	M_S = 5.4	16.0	4.71	
			LE		16.0	4.64	
BTO	25.6	279	eP	17 00 49.0	0.7		
WHN	26.4	254	+P	17 00 56.0	0.2		
			PMZ	m_b = 5.5	1.0	0.11	
			pP	17 01 03.0	−0.9		
			sP	17 01 08.0	0.3		
			LN	M_S = 5.6	14.0	7.14	
LZH	31.6	273	+P	17 01 43.5	0.7		
			PMZ	m_b = 5.9	2.0	0.39	
			S	17 06 53.0	5.1		
			LN	M_S = 5.8	13.0	5.40	
			LE		13.0	5.98	
GTA	33.4	281	+P	17 01 59.0	0.4		
			LE	M_S = 5.9	15.0	10.6	
CD2	34.0	264	+iP	17 02 02.8	−0.5		
GYA	34.3	255	+P	17 02 05.8	−0.1		
			sP	17 02 18.0	0.3		
			S	17 07 30.0	0.7		
			LN	M_S = 5.9	16.0	6.60	
			LE		16.0	9.20	
QZN	36.9	242	eP	17 02 30.0	1.9		
KMI	37.9	257	+iP	17 02 37.5	0.7		
			sP	17 02 50.0	1.4		
			S	17 08 21.0	−4.2		
			LN	M_S = 5.6	16.0	4.90	
WMQ	40.7	292	+iP	17 03 00.5	0.5		
			S	17 09 13.7	6.1		
			LN	M_S = 6.1	14.0	10.9	
			LE		14.0	3.78	
LSA	44.0	272	+P	17 03 28.6	1.3		

KSH	50.5	291	eP	17 04 19.0	1.1		
			eS	17 11 34.0	4.9		
			LE	M_S = 5.9	16.0	5.40	

JUL 6d 19h 48m 49.1 ± 0.09s, SD2.06 / 16
11.48 N ± 4.44km, 62.56 W ± 2.64km, h99 ± 1.73km
Near coast of Venezuela (97)

BJI	128.7	1	ePKP	20 07 45.5	−0.6
GYA	140.9	15	PKP	20 08 04.4	−4.4
GZH	145.4	7	PKP	20 08 17.0	0.5
QZN	148.8	14	ePKP	20 08 26.8	4.7

JUL 6d 21h 35m 34.4 ± 0.45s, SD3.49 / 6
36.60 N ± 2.51km, 72.21 E ± 2.86km, h5 ± km
Afghanistan–USSR border region (717)
M_L4.7 / 3,

KSH	4.1	44	Pg	21 36 46.6	−0.9		
			SMN	M_L = 5.1	0.2	3.00	
			SME		0.4	3.90	
WMQ	13.8	54	eP	21 38 53.0	−1.1		

JUL 6d 23h 05m 17.3 ± 0.14s, SD1.94 / 37
35.44 S ± 3.54km, 15.04 W ± 7.30km, h5 ± km
Tristan da Cunha region (411)

GYA	129.8	83	PKP	23 24 32.6	3.2		
WHN	137.6	82	PKP	23 24 47.5	3.6		
TIY	138.2	71	ePKP	23 24 45.2	0.2		
TIA	141.5	74	ePKP	23 24 48.5	−2.4		
SSE	143.4	84	ePKP	23 24 54.7	0.7		
			SS	23 46 50.0	4.0		
			LZ	M_S = 5.3	20.0	0.46	
DL2	145.5	71	ePKP	23 24 57.0	−0.8		
SNY	147.3	66	−iPKP	23 25 04.3	3.6		
CN2	148.7	62	ePKP	23 25 02.4	−0.6		

JUL 7d 01h 09m 57.8 ± 0.12s, SD2.31 / 45
46.70 N ± 1.59km, 116.33 E ± 1.18km, h15 ± 0.38km
Mongolia (334)
M_S4.4 / 8, M_L5.0 / 11,

BJI	6.7	181	ePn	01 11 36.5	0.9		
			ePg	01 11 59.5	4.1		
			eSg	01 13 23.5	−3.0		
			SMN	M_L = 4.4	0.5	0.21	
			SME		0.5	0.19	
HHC	6.8	212	Pn	01 11 39.0	1.5		
			Pg	01 11 58.6	0.9		
			Sn	01 12 51.6	−5.2		
			Sg	01 13 27.7	−2.9		
			SMN	M_L = 5.1	0.8	0.84	
			SME		0.6	0.83	
CN2	7.1	111	−Pn	01 11 40.8	−0.3		
			Sg	01 13 39.6	0.5		
			SMN	M_L = 5.0	1.0	0.67	
			SME		1.0	0.54	
SNY	7.1	131	ePn	01 11 42.0	0.0		
			LN	M_S = 4.6	9.0	3.06	
			LE		9.0	2.64	
BTO	7.6	219	Pn	01 11 50.2	1.2		
			Pg	01 12 14.8	2.4		
			Sg	01 13 54.6	−2.1		
			SMN	M_L = 5.3	1.0	0.96	
			SME		1.0	1.26	
DL2	8.7	152	eP	01 12 11.0	4.5		
			LN	M_S = 4.0	6.0	0.55	
MDJ	9.5	98	eP	01 12 20.0	2.3		
			LN	M_S = 4.5	8.0	1.70	
TIA	10.5	176	−P	01 12 32.6	1.4		
			SMN		1.0	0.030	

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			SME				1.8	0.23
GTA	14.1	245	P	01 13 15.8	−3.7			
			LE	M_S=4.3		9.0	0.72
WHN	16.2	186	eP	01 13 49.0	2.1			
CD2	18.5	216	eP	01 14 17.6	1.6			
WMQ	20.3	272	eP	01 14 36.0	−0.4			
			LN	M_S=4.6		8.0	0.67
GYA	21.6	204	P	01 14 50.2	0.4			

JUL 7d 02h 09m 02.9±0.14s, SD1.30/64
5.99 S±1.23km, 146.72 E±1.81km, h44±0.58km
Eastern New Guinea region (207)
M_S4.6/3,

QZH	41.2	319	eP	02 16 46.5	1.3			
			eS	02 22 53.0	−2.2			
QZN	44.0	305	eP	02 17 10.0	1.5			
SSE	44.2	328	eP	02 17 10.0	−0.1			
			pP	02 17 19.0	−2.5			
			esP	02 17 24.0	−2.2			
			eS	02 23 40.0	0.0			
			sS	02 24 02.0	2.8			
			LE	M_S=4.6		12.0	0.29	
NJ2	46.2	327	−P	02 17 26.5	0.5			
			S	02 24 13.0	5.5			
			LZ	M_S=4.3		24.0	0.39	
WHN	47.7	321	eP	02 17 40.0	1.9			
DL2	50.4	335	eP	02 17 58.5	0.3			
			epP	02 18 07.0	−2.5			
			eS	02 25 08.0	1.3			
			LZ	M_S=4.5		24.0	0.65	
SNY	52.1	338	eP	02 18 10.6	−0.5			
MDJ	52.7	345	eP	02 18 15.5	−0.2			
KMI	52.8	308	eP	02 18 18.5	1.9			
			eS	02 25 43.0	2.6			
CN2	53.2	341	eP	02 18 19.0	−0.2			
BJI	53.8	331	eP	02 18 22.0	−1.7			
			eS	02 25 53.0	−0.3			
			LZ	M_S=4.7		26.0	0.88	
TIY	53.9	326	eP	02 18 23.4	−1.7			
CD2	55.1	314	eP	02 18 32.9	−0.4			
BTO	57.3	327	eP	02 18 48.0	−1.5			
			pP	02 18 58.0	−2.9			
			eS	02 26 39.0	−2.0			
LZH	58.0	319	eP	02 18 54.0	−0.5			
GTA	62.6	320	eP	02 19 25.0	−0.5			
WMQ	72.6	319	eP	02 20 28.0	−0.4			
			eS	02 29 51.0	2.1			
			LZ	M_S=4.6		20.0	0.32	

JUL 7d 04h 09m 45.3±0.66s, SD4.23/6
22.35 N±4.74km, 118.52 E±2.47km, h15±km
Taiwan region (243)
M_L3.0/1,

QZH	2.6	1	ePn	04 10 28.5	1.5			
			Sn	04 10 56.0	−4.0			

JUL 7d 15h 05m 27.8±0.04s, SD0.92/60
37.18 N±1.79km, 116.25 W±1.21km, h2±0.40km
California–Nevada border region (40)
m_b5.3/2,

MDJ	79.2	318	eP	15 17 36.0	−0.7			
CN2	81.9	320	+P	15 17 50.4	−0.7			
SNY	84.3	320	+P	15 18 04.2	0.9			
DL2	87.4	319	eP	15 18 20.0	1.2			
BJI	89.3	323	eP	15 18 27.5	−0.5			
BTO	91.7	327	eP	15 18 39.0	−0.3			
TIA	91.8	320	eP	15 18 39.9	0.5			
TIY	93.0	323	−iP	15 18 46.0	1.1			
NJ2	94.0	316	−P	15 18 49.9	0.3			
WMQ	96.5	343	eP	15 19 01.5	0.4			
GTA	96.9	333	eP	15 19 03.0	0.2			
WHN	97.6	318	eP	15 19 06.0	−0.2			

JUL 7d 21h 45m 22.9±0.16s, SD2.24/27
16.55 S±3.20km, 73.03 W±2.36km, h64±1.18km
Off coast of Peru (114)

KSH	144.6	44	ePKP	22 04 54.0	1.0			
MDJ	146.1	330	ePKP	22 04 57.0	1.5			
WMQ	148.3	27	ePKP	22 05 02.5	3.3			

JUL 8d 04h 25m 27.9±0.06s, SD1.32/21
36.54 N±0.89km, 70.97 E±0.86km, h211±0.32km
Hindu Kush region (718)

KSH	4.9	51	P	04 26 43.0	0.6			
			S	04 27 40.0	0.3			
WMQ	14.7	55	eP	04 28 47.0	−0.3			
			eS	04 31 32.0	6.8			
LSA	18.2	106	−P	04 29 29.5	1.2			
GTA	22.9	74	eP	04 30 17.0	2.6			

JUL 8d 11h 03m 28.1±0.07s, SD0.96/45
5.61 S±0.85km, 150.38 E±1.81km, h118±1.07km
New Britain region (192)

QZH	43.3	316	+P	11 11 21.7	1.2			
SSE	45.9	324	eP	11 11 41.5	0.3			
			pP	11 12 05.0	−3.0			
			sP	11 12 20.5	−1.2			
			LZ			24.0	0.50	
QZN	46.8	303	eP	11 11 49.6	1.3			
			LN			10.0	0.80	
WHN	49.8	318	P	11 12 12.5	1.2			
DL2	51.7	331	eP	11 12 26.3	0.8			
SNY	53.2	335	+P	11 12 36.8	0.2			
MDJ	53.4	342	eP	11 12 38.5	0.3			
CN2	54.1	338	eP	11 12 43.0	−0.4			
BJI	55.3	328	eP	11 12 51.0	−0.9			
TIY	55.7	324	eP	11 12 55.0	−0.3			
			LN			13.0	0.24	
GTA	64.6	319	eP	11 13 55.4	−0.7			

JUL 8d 13h 12m 52.1±0.14s, SD1.50/44
2.97 S±1.49km, 147.87 E±3.31km, h33±0.19km
Bismarck Sea (203)
M_S5.1/19, m_B5.9/4,

QZH	39.7	316	eP	13 20 22.5	−1.0			
			eS	13 26 19.0	−6.1			
			LN	M_S=5.1		10.0	0.69	
			LE			10.0	0.62	
GZH	42.5	309	P	13 20 47.0	0.8			
			S	13 27 10.0	5.0			
			SMN	m_B=6.0		8.0	1.29	
			SME			9.0	1.49	
			LE	M_S=5.1		15.0	1.22	
NJ2	44.4	324	+P	13 21 01.5	−0.4			
			S	13 27 32.0	−1.1			
			LN	M_S=5.0		10.0	0.30	
			LE			11.0	0.62	
			LZ	M_S=4.9		20.0	1.47	
WHN	46.2	319	eP	13 21 17.5	1.4			
			SMN	m_B=5.8		8.0	1.19	
			LE	M_S=5.2		10.0	0.82	
DL2	48.2	332	eP	13 21 34.0	2.2			
			S	13 28 32.0	5.0			
			LE	M_S=5.0		12.0	0.68	
TIA	48.4	326	eP	13 21 32.5	−1.0			
			eS	13 28 33.0	1.8			

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			LN		$M_S = 5.3$		12.0	0.83
			LE				12.0	1.02
GYA	49.4	309	P	13 21 42.0		0.7		
SNY	49.7	336	+P	13 21 42.0		−1.9		
			S	13 28 48.0		−0.8		
			LZ		$M_S = 4.8$		31.0	1.52
MDJ	50.1	343	eP	13 21 48.0		1.3		
			PP	13 23 44.0		1.9		
			S	13 29 00.0		6.1		
			LZ		$M_S = 5.1$		18.0	1.77
BJI	51.7	329	eP	13 21 57.5		−1.4		
			eS	13 29 20.0		2.8		
			LN		$M_S = 4.8$		12.0	0.33
			LZ		$M_S = 4.8$		28.0	1.41
KMI	51.9	305	eP	13 22 02.0		1.5		
			sP	13 22 10.0		−3.6		
			PP	13 24 01.0		2.9		
			eS	13 29 25.0		4.8		
			sS	13 29 40.0		4.6		
			LE		$M_S = 5.1$		17.0	0.90
CD2	53.8	312	eP	13 22 12.3		−2.4		
			eS	13 29 49.0		2.8		
			LZ		$M_S = 4.9$		22.0	1.12
HHC	54.8	327	eP	13 22 20.4		−1.1		
			S	13 29 53.0		−4.3		
			LZ		$M_S = 5.3$		20.0	2.40
BTO	55.5	325	eP	13 22 25.0		−1.5		
			esP	13 22 41.0		1.1		
			eS	13 30 06.0		−2.0		
			LN		$M_S = 5.3$		18.0	1.20
			LE				13.0	0.70
LZH	56.5	318	eP	13 22 32.5		−1.9		
			LZ		$M_S = 4.7$		40.0	1.23
GTA	61.0	319	eP	13 23 05.0		−0.5		
			LE		$M_S = 5.4$		9.0	0.72

JUL 8d 14h 01m 18.7 ± 0.06s, SD1.30 / 24
4.28 S ± 0.82km, 131.09 E ± 2.39km, h37 ± 0.52km
Banda Sea (280)

WHN	38.1	336	eP	14 08 36.5		−0.1		
TIY	45.2	339	eP	14 09 34.6		−0.2		
BJI	46.2	344	eP	14 09 41.5		−0.7		
GTA	52.2	329	eP	14 10 29.6		1.2		
WMQ	61.7	326	eP	14 11 36.1		−0.3		

JUL 8d 15h 16m 47.2 ± 0.10s, SD1.36 / 36
5.98 S ± 1.09km, 148.76 E ± 1.54km, h67 ± 0.38km
New Britain region (192)

QZH	42.5	318	eP	15 24 41.7		3.7		
SSE	45.3	326	eP	15 25 01.5		0.8		
			pP	15 25 14.8		−2.3		
			LZ		$M_S = 4.7$		20.0	0.93
TIA	51.4	327	eP	15 25 49.0		1.1		
SNY	52.8	336	eP	15 25 58.4		−0.3		
BJI	54.8	330	eP	15 26 12.0		−0.8		
			epP	15 26 25.5		−4.0		
			LZ		$M_S = 4.5$		28.0	0.60
CD2	56.5	313	eP	15 26 25.7		0.1		
BTO	58.4	326	eP	15 26 39.8		0.8		
WMQ	73.9	319	eP	15 28 20.0		2.2		

JUL 8d 16h 35m 35.2 ± 0.08s, SD0.93 / 93
6.21 S ± 1.19km, 154.79 E ± 1.70km, h79 ± 0.55km
Solomon Islands (193)
M_S4.8 / 2, m_B5.3 / 3, m_b5.6 / 8,

QZH	46.9	313	P	16 44 00.5		0.5		
			S	16 50 48.0		4.6		
			SME		$m_B = 5.6$		4.0	0.33
			LZ		$M_S = 4.7$		28.0	1.19
SSE	49.1	321	eP	16 44 17.7		0.8		
			LZ		$M_S = 4.8$		20.0	0.93
GZH	49.9	307	−P	16 44 24.5		1.4		
QZN	50.9	301	P	16 44 32.0		1.2		
			eS	16 51 42.0		1.9		
			sS	16 52 12.5		−0.8		
NJ2	51.2	320	+P	16 44 33.8		0.8		
			S	16 51 41.0		−2.1		
			LZ		$M_S = 4.5$		26.0	0.61
WHN	53.2	316	P	16 44 49.0		0.6		
			PMZ		$m_b = 5.6$		1.0	0.080
			sP	16 45 16.0		−1.0		
			eS	16 52 13.0		0.8		
			SME		$m_B = 5.3$		9.0	0.32
			LZ		$M_S = 4.9$		32.0	1.77
DL2	54.4	328	eP	16 44 56.8		−0.1		
			epP	16 45 18.5		2.3		
			eS	16 52 30.0		2.1		
			LZ		$M_S = 4.8$		25.0	0.99
TIA	55.0	323	P	16 45 00.5		−1.0		
MDJ	55.4	338	eP	16 45 04.0		−0.5		
SNY	55.7	332	+iP	16 45 05.2		−0.9		
CN2	56.4	335	+P	16 45 11.0		−0.4		
GYA	56.8	307	P	16 45 15.4		0.9		
			pP	16 45 36.2		2.4		
			S	16 53 05.0		6.0		
BJI	58.2	326	eP	16 45 23.0		−0.8		
			eS	16 53 17.0		−0.7		
			LZ		$M_S = 4.7$		36.0	1.10
TIY	58.9	321	+P	16 45 28.5		−0.2		
			eS	16 53 23.0		−3.9		
			LZ		$M_S = 4.8$		26.0	0.99
KMI	59.4	304	+P	16 45 33.5		0.8		
			PMZ				3.0	0.50
			pP	16 45 53.5		1.5		
			eS	16 53 33.0		−1.4		
			LZ		$M_S = 4.9$		24.0	1.00
CD2	61.2	310	P	16 45 43.8		−0.6		
HHC	61.3	324	P	16 45 44.8		−1.0		
BTO	62.1	323	P	16 45 50.5		−0.4		
			pP	16 46 10.0		−0.5		
			eS	16 54 08.0		−0.7		
LZH	63.6	315	eP	16 46 00.0		−0.9		
			PMZ		$m_b = 5.6$		1.0	0.080
			eS	16 54 32.0		4.3		
			LZ		$M_S = 5.2$		8.0	0.61
GTA	68.0	317	+P	16 46 29.0		−0.1		
			LZ		$M_S = 4.8$		28.0	0.89
LSA	70.7	304	P	16 46 45.4		−0.2		
WMQ	78.1	317	P	16 47 28.5		0.4		
			S	16 57 17.0		3.6		
			LZ		$M_S = 5.0$		22.0	0.82
KSH	85.4	310	P	16 48 06.0		−0.1		
			pP	16 48 24.0		−2.5		
			eS	16 58 30.0		0.2		
			sS	16 59 05.0		−0.1		

JUL 8d 16h 56m 32.8 ± 0.08s, SD1.33 / 39
36.94 N ± 1.77km, 43.96 E ± 0.90km, h67 ± 0.22km
Iraq (375)

KSH	25.2	74	eP	17 01 54.0		0.1		
			eS	17 06 14.0		2.1		
WMQ	33.7	64	eP	17 03 10.0		−0.1		
GTA	43.4	69	eP	17 04 31.0		0.1		
CD2	49.3	79	eP	17 05 16.8		−0.6		
BTO	50.5	64	eP	17 05 27.8		0.7		
KMI	51.0	86	eP	17 05 32.0		1.2		

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GYA	53.5	82	P	17 05 48.4	−1.0
BJI	55.2	63	eP	17 06 01.0	−0.2
DL2	59.5	62	eP	17 06 31.6	−0.1
CN2	60.1	56	eP	17 06 36.5	0.6

JUL 8d 23h 47m 13.0 ± 0.11s, SD1.07 / 50
15.90 N ± 1.07km, 145.70 E ± 1.35km, h172 ± 0.66km
Marianas (216)
m_b5.0 / 2,

SSE	27.0	308	+P	23 52 40.0	−1.1
DL2	31.2	322	eP	23 53 18.0	−0.1
WHN	32.2	302	+P	23 53 27.0	0.3
QZN	34.3	281	P	23 53 46.0	0.8
BJI	35.2	319	eP	23 53 52.0	−0.6
TIY	36.5	313	eP	23 54 03.9	0.2
GYA	37.7	293	−P	23 54 16.0	1.7
CD2	41.0	299	eP	23 54 41.3	0.0
LZH	42.2	307	eP	23 54 53.0	1.6
GTA	46.3	310	−iP	23 55 24.2	0.6
LSA	51.7	295	−P	23 56 05.5	0.1
WMQ	56.1	312	P	23 56 37.7	0.2

JUL 9d 00h 09m 41.2 ± 0.07s, SD1.19 / 28
60.31 N ± 2.55km, 170.58 E ± 1.22km, h10 ± 0.13km
Eastern Siberia (671)

SNY	33.9	258	eP	00 16 27.0	0.0
BJI	38.9	264	eP	00 17 09.5	0.2
HHC	40.6	269	eP	00 17 24.2	0.9
BTO	41.5	270	eP	00 17 32.9	1.7
TIY	42.6	265	eP	00 17 40.5	1.0
GTA	47.5	277	eP	00 18 18.6	−0.6
WMQ	50.0	290	eP	00 18 38.8	0.5
GYA	54.5	261	P	00 19 11.8	−0.5

JUL 9d 00h 57m 34.2 ± 0.09s, SD2.94 / 8
41.77 N ± 0.89km, 82.76 E ± 1.10km, h17 ± 0.46km
Southern Xinjiang Province (321)
M_L3.2 / 7,

WMQ	4.2	59	ePn	00 58 35.0	−2.8		
			Sg	00 59 45.3	0.3		
			SMN	M_L = 2.8		0.6	0.020
			SME			0.4	0.020

JUL 9d 03h 40m 07.2 ± 0.12s, SD1.03 / 84
4.87 S ± 1.35km, 151.93 E ± 1.68km, h106 ± 0.41km
New Britain region (192)
m_b5.4 / 8,

QZH	43.9	314	−P	03 48 06.8	1.3		
SSE	46.3	323	P	03 48 25.0	0.8		
			PMZ	m_b = 5.3		1.4	0.060
			pP	03 48 49.0	0.5		
			esS	03 55 48.0	2.9		
			LZ			24.0	0.50
GZH	46.8	308	+iP	03 48 31.0	2.5		
QZN	47.8	301	P	03 48 37.5	1.5		
			sP	03 49 12.0	−0.8		
			eS	03 55 27.5	3.9		
NJ2	48.4	322	−P	03 48 41.5	0.9		
			PcP	03 50 05.5	0.2		
			S	03 55 33.0	2.1		
WHN	50.3	317	+P	03 48 56.0	0.4		
			pP	03 49 20.0	−0.2		
DL2	51.8	330	eP	03 49 07.0	0.2		
			pP	03 49 31.0	−0.6		
			eS	03 56 20.0	0.4		
			esS	03 57 05.0	2.2		
TIA	52.3	324	+P	03 49 09.4	−0.9		
MDJ	53.2	340	eP	03 49 16.0	−1.2		
GYA	53.8	308	P	03 49 22.6	1.1		
			sP	03 50 00.6	2.2		
			PcP	03 50 25.6	0.4		
CN2	54.0	336	eP	03 49 22.0	−1.2		
			pP	03 49 47.0	−1.1		
BJI	55.5	327	eP	03 49 33.0	−0.9		
			esP	03 50 12.0	0.9		
KMI	56.3	304	eP	03 49 40.0	−0.1		
CD2	58.1	311	+iP	03 49 52.8	0.1		
HHC	58.6	325	eP	03 49 56.0	0.0		
BTO	59.3	324	P	03 50 01.0	−0.1		
			pP	03 50 27.0	0.7		
			eS	03 57 59.3	−0.9		
LZH	60.7	316	eP	03 50 10.5	0.1		
			PMZ	m_b = 5.9		1.0	0.15
			pP	03 50 36.0	0.3		
GTA	65.1	318	+iP	03 50 39.8	0.1		
LSA	67.6	305	+P	03 50 55.1	−0.4		
WMQ	75.2	318	+iP	03 51 40.9	0.2		
KSH	82.4	311	P	03 52 20.0	0.2		

JUL 9d 15h 10m 55.7 ± 0.13s, SD1.07 / 72
30.03 S ± 1.53km, 178.77 W ± 2.53km, h255 ± 0.78km
Kermadec Islands region (177)
m_B5.6 / 4, m_b5.2 / 8,

SSE	83.4	312	eP	15 22 55.2	−1.0		
			PMZ	m_b = 5.0		1.2	0.040
			eS	15 32 50.0	−4.7		
GZH	83.9	301	−P	15 22 59.6	0.8		
			S	15 32 58.0	−0.2		
QZN	84.2	296	+P	15 23 01.6	1.0		
			eSKS	15 32 55.0	−0.1		
			S	15 33 00.0	−1.6		
			sS	15 34 45.0	−3.7		
NJ2	85.5	311	+P	15 23 07.0	0.1		
WHN	87.6	307	eP	15 23 17.0	0.1		
			SKS	15 33 16.0	−1.1		
			S	15 33 32.0	−1.6		
			SMN	m_B = 5.6		9.0	0.89
			sS	15 35 27.0	5.0		
MDJ	87.9	326	eP	15 23 18.7	0.1		
DL2	88.2	318	eP	15 23 19.5	−0.4		
			PMZ			3.0	0.44
			eSKS	15 33 19.0	−2.0		
			eS	15 33 40.0	−1.1		
			SMN	m_B = 5.5		7.0	0.60
SNY	89.1	321	−iP	15 23 23.0	−0.9		
			esP	15 24 50.0	−1.1		
			S	15 33 50.0	2.7		
			SMN			22.0	0.94
			SME			19.0	0.89
TIA	89.2	313	−P	15 23 24.7	0.1		
			SKS	15 33 27.2	0.1		
			S	15 33 48.5	−0.1		
			SMN	m_B = 5.5		11.0	0.47
			SME			11.0	0.56
CN2	89.4	323	−iP	15 23 25.0	−0.6		
			PMZ			3.0	0.50
			pP	15 24 30.0	3.5		
			SKS	15 33 24.0	−4.4		
			S	15 33 50.0	−0.6		
			SMN	m_B = 5.8		7.0	0.70
			SME			7.0	0.70
			sS	15 35 42.0	2.9		
GYA	90.8	300	P	15 23 33.0	1.0		
			SKS	15 33 39.0	2.6		
			S	15 34 04.0	1.5		
BJI	92.2	316	eP	15 23 38.5	0.1		

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			eSKS	15 33 44.0	−0.3			
			eS	15 34 18.0	1.4			
TIY	93.1	312	eP	15 23 43.2	0.4			
			SKS	15 33 49.5	0.0			
			S	15 34 28.0	5.1			
CD2	95.3	303	eP	15 23 54.4	1.6			
HHC	95.5	314	eP	15 23 53.8	0.2			
BTO	96.3	314	eP	15 23 57.4	0.0			
GTA	102.4	308	eP	15 24 25.2	0.4			
WMQ	112.5	309	PKP	15 28 59.9	−2.4			
			SKKS	15 36 25.0	3.3			

JUL 9d 15h 14m 17.3 ± 0.39s, SD2.98 / 7
39.88 N ± 0.63km, 74.94 E ± 3.59km, h5 ± km
Southern Xinjiang Province (321)
M_L4.0 / 5,

KSH	0.8	116	−Pg	15 14 30.5	−1.8			
			Sg	15 14 40.0	−3.6			
			SME	M_L = 4.0		0.5	4.70	
WMQ	10.3	63	eP	15 16 47.5	−1.6			
			S	15 18 41.0	−4.8			
			SMN			2.0	0.050	
			SME			1.5	0.060	

JUL 9d 18h 50m 34.0 ± 0.06s, SD1.83 / 7
37.11 N ± 0.46km, 114.68 E ± 0.54km, h11 ± 0.14km
Eastern China (664)
M_L3.0 / 4,

TIA	2.2	114	Pn	18 51 09.4	−1.0			
			Pg	18 51 12.1	0.0			
			Sg	18 51 39.5	−2.2			
			SMN	M_L = 2.8		0.6	0.090	
			SME			0.3	0.050	

JUL 9d 18h 59m 33.9 ± 0.16s, SD4.10 / 5
31.79 N ± 1.76km, 99.73 E ± 1.40km, h13 ± 0.60km
Sichuan Province (307)
M_L3.1 / 1,

CD2	3.6	103	Pg	19 00 37.8	0.9			
			Sg	19 01 25.2	−0.2			
			SMN	M_L = 3.1		0.7	0.030	
			SME			1.0	0.080	

JUL 10d 00h 54m 43.4 ± 0.06s, SD1.97 / 7
40.46 N ± 0.58km, 122.39 E ± 0.53km, h9 ± 0.01km
North-Eastern China (658)
M_L3.0 / 1,

SNY	1.6	33	+iPg	00 55 10.2	−2.2			
			Sg	00 55 31.0	−3.7			
DL2	1.7	201	Pg	00 55 11.5	−1.3			
			Sg	00 55 34.5	−0.9			

JUL 10d 02h 42m 54.9 ± 0.13s, SD1.69 / 33
13.06 N ± 2.71km, 57.56 E ± 1.76km, h9 ± 0.14km
Arabian Sea (417)

KSH	30.9	28	eP	02 49 17.0	2.0			
WMQ	40.1	34	+P	02 50 35.0	1.9			
			PP	02 52 11.0	2.3			
			eS	02 56 42.0	2.5			
GTA	45.5	47	eP	02 51 17.4	0.2			
			LZ	M_S = 4.6		26.0	0.85	
GYA	47.8	66	P	02 51 35.2	−0.3			
TIY	54.4	53	eP	02 52 25.0	−0.6			
			eS	03 00 08.0	4.9			
BJI	57.8	51	eP	02 52 49.0	−0.2			
			LZ	M_S = 5.0		16.0	0.88	
CN2	65.1	48	+P	02 53 38.6	−0.5			

JUL 10d 03h 31m 30.3 ± 0.08s, SD1.42 / 72
25.10 N ± 1.75km, 95.33 E ± 0.93km, h128 ± 0.61km
Burma-India border region (294)
m_b5.4 / 9,

KMI	6.7	88	+P	03 33 11.0	2.8			
			PMZ	m_b = 5.6		2.0	0.50	
			sP	03 33 39.5	0.8			
			S	03 34 27.0	3.7			
CD2	9.4	50	eP	03 33 43.8	−0.6			
			S	03 35 25.0	−3.7			
GYA	10.3	80	+P	03 33 57.4	1.2			
			sP	03 34 31.0	2.1			
			S	03 35 56.0	6.5			
LZH	13.2	32	eP	03 34 33.5	−0.3			
			pP	03 34 41.0	−0.9			
			LN			6.0	0.55	
			LE			8.0	0.71	
GTA	14.8	14	P	03 34 53.6	−0.5			
			S	03 37 32.0	−2.1			
			LE			8.5	0.95	
XAN	14.8	50	P	03 34 51.0	−3.5			
GZH	16.6	93	eP	03 35 18.0	1.4			
WHN	17.7	68	+iP	03 35 30.5	0.6			
			PMZ	m_b = 5.3		0.7	0.10	
			sP	03 36 05.3	−1.2			
			S	03 38 40.0	0.3			
TIY	19.2	45	eP	03 35 45.0	−2.3			
			S	03 39 12.0	−0.7			
			LN			8.0	0.28	
WMQ	19.7	343	−iP	03 35 53.5	1.6			
			sP	03 36 31.0	−0.3			
			eS	03 39 27.0	4.8			
HHC	20.7	37	eP	03 36 02.0	−0.8			
			S	03 39 40.6	−0.7			
			LN			16.0	0.38	
QZH	21.1	85	−P	03 36 06.0	−0.1			
			S	03 39 49.0	1.2			
			LN			12.0	0.55	
KSH	21.7	316	eP	03 36 15.0	2.2			
			pP	03 36 40.0	2.2			
			LE			8.0	0.60	
NJ2	21.8	66	+iP	03 36 13.0	0.1			
			sP	03 36 52.0	−2.0			
			S	03 40 07.0	6.9			
BJI	23.0	44	eP	03 36 24.5	0.1			
			esP	03 37 05.0	−1.0			
			eS	03 40 26.0	4.5			
			esS	03 41 10.0	4.0			
SSE	23.6	69	P	03 36 30.5	0.3			
			PMZ	m_b = 5.5		0.9	0.21	
			epP	03 36 56.0	−0.3			
			esP	03 37 11.0	−0.9			
			LZ			12.0	0.45	
DL2	26.1	52	eP	03 36 53.0	−1.3			
			eS	03 41 16.0	1.6			
			LZ			18.0	0.36	
SNY	28.7	47	+P	03 37 16.0	−1.8			

JUL 10d 04h 31m 34.7 ± 0.13s, SD2.16 / 35
13.45 N ± 1.75km, 120.20 E ± 2.13km, h56 ± 0.60km
Philippine Islands region (248)
M_S4.1 / 4,

QZN	11.4	301	eP	04 34 17.0	−0.3			
			eS	04 36 27.0	4.1			
SSE	17.6	3	eP	04 35 38.0	0.4			
			LZ	M_S = 4.0		18.0	0.72	
WHN	17.9	343	eP	04 35 40.2	−0.7			
GYA	18.1	318	P	04 35 45.0	0.6			

XAN	22.9	335	P	04 36 34.6	−0.3			
CD2	23.1	322	P	04 36 37.2	0.9			
BJI	26.7	353	eP	04 37 09.0	−2.1			
WMQ	41.1	324	eP	04 39 16.2	1.0			
			eS	04 45 30.0	6.3			
			LZ	M_S=4.5		17.0	0.61	

JUL 10d 13h 22m 51.6±0.07s, SD1.06/42
30.69 N±1.04km, 137.82 E±1.39km, h508±0.43km
South of Honshu (211)

MDJ	15.3	337	eP	13 26 05.5	0.1			
DL2	15.6	306	eP	13 26 07.5	−0.6			
SNY	16.0	318	+iP	13 26 12.0	0.4			
NJ2	16.3	280	+P	13 26 14.0	−0.5			
			S	13 28 58.0	−0.1			
CN2	16.4	327	+P	13 26 15.4	−0.1			
BJI	19.9	304	eP	13 26 50.0	0.0			
WHN	20.2	276	eP	13 26 53.0	0.4			
XAN	24.6	285	−P	13 27 32.3	−0.5			
GYA	27.6	269	−P	13 27 59.2	−0.6			
			sP	13 30 26.8	4.0			
			S	13 32 04.8	−0.6			
CD2	29.2	279	−iP	13 28 12.8	−0.5			
GTA	32.1	296	eP	13 28 38.4	0.1			

JUL 10d 16h 47m 09.4±0.22s, SD1.90/39
21.43 S±4.26km, 113.49 W±15.95km, h5±km
Easter Island Cordillera (684)

MDJ	123.7	310	ePKP	17 06 09.0	−0.7			
DL2	130.0	303	ePKP	17 06 21.0	−0.7			
			LZ	M_S=5.3		20.0	0.60	
BJI	134.1	305	ePKP	17 06 30.0	0.6			
TIY	137.3	303	ePKP	17 06 35.6	0.1			
			LZ	M_S=5.4		20.0	0.75	
BTO	138.6	308	ePKP	17 06 39.0	1.1			
XAN	140.7	298	PKP	17 06 41.0	−0.6			
GYA	143.1	286	PKP	17 06 46.4	0.7			
LZH	144.4	302	ePKP	17 06 46.0	−2.1			
CD2	145.4	294	PKP	17 06 49.1	−0.7			
GTA	146.4	310	+iPKP	17 06 52.2	0.6			
KMI	146.6	283	+PKP	17 06 53.0	1.0			
WMQ	151.6	327	PKP	17 07 00.0	0.3			
KSH	160.2	338	ePKP	17 07 12.0	0.9			

JUL 10d 17h 36m 00.7±0.15s, SD1.25/48
19.91 S±1.65km, 168.71 E±1.70km, h46±0.62km
Loyalty Islands (188)
M_S5.2/6, m_B5.4/5,

QZH	66.1	310	eP	17 46 44.0	−1.7			
			eS	17 55 30.0	1.1			
			LZ	M_S=4.8		20.0	0.62	
SSE	68.2	317	eP	17 46 58.0	−1.2			
			eS	17 55 58.0	3.2			
			LZ	M_S=5.0		18.0	0.90	
QZN	69.5	300	eP	17 47 06.0	−1.1			
			eS	17 56 06.5	−3.4			
			SMN	m_B=5.9		6.0	0.55	
			SME			7.0	0.54	
NJ2	70.3	316	+P	17 47 12.0	−0.3			
			S	17 56 17.0	−1.7			
			LZ	M_S=4.7		20.0	0.43	
WHN	72.4	313	P	17 47 24.0	−0.8			
			eS	17 56 48.0	3.8			
			LZ	M_S=4.9		20.0	0.64	
DL2	73.3	323	eP	17 47 29.0	−0.7			
			epP	17 47 37.0	−4.7			
			S	17 56 58.0	6.0			
			LZ	M_S=4.7		20.0	0.42	
MDJ	73.5	332	eP	17 47 31.0	0.0			
TIA	74.1	319	P	17 47 34.2	−0.5			
SNY	74.3	327	+P	17 47 34.0	−1.6			
CN2	74.8	329	eP	17 47 37.4	−1.1			
			pP	17 47 47.0	−3.6			
BJI	77.1	321	eP	17 47 51.5	−0.5			
			PMZ	m_B=5.1		10.0	0.30	
			eS	17 57 42.0	5.4			
			LZ	M_S=5.0		16.0	0.59	
TIY	78.0	318	+P	17 47 57.0	0.2			
			pP	17 48 04.0	−4.8			
			LN	M_S=5.3		17.0	0.78	
XAN	78.2	313	P	17 47 57.3	−0.6			
KMI	78.2	302	eP	17 48 01.0	2.9			
CD2	80.3	308	eP	17 48 10.6	1.5			
HHC	80.4	320	eP	17 48 09.7	−0.3			
BTO	81.2	319	eP	17 48 15.0	0.8			
			pP	17 48 21.5	−4.7			
			eS	17 58 23.0	3.2			
LZH	82.8	312	eP	17 48 23.5	1.0			
			eS	17 58 42.0	5.7			
GTA	87.2	314	eP	17 48 44.0	−0.5			
WMQ	97.3	314	eP	17 49 30.5	−0.6			

JUL 10d 19h 51m 03.6±0.24s, SD2.32/27
56.39 S±3.11km, 26.53 W±4.81km, h26±1.12km
South Sandwich Islands region (153)

GTA	141.3	93	ePKP	20 10 32.2	−1.3			
XAN	142.4	107	PKP	20 10 30.2	−5.0			
NJ2	145.8	121	+PKP	20 10 41.3	0.2			
			pPKP	20 10 52.0	3.6			
SSE	146.1	125	PKP	20 10 41.5	−0.1			
			pPKP	20 10 52.0	3.1			
TIY	147.0	107	+PKP	20 10 44.0	0.8			
BTO	147.8	101	ePKP	20 10 46.0	1.5			
TIA	148.3	114	PKP	20 10 47.6	2.4			
BJI	150.7	108	+PKP	20 10 53.5	4.5			

JUL 11d 00h 12m 34.4±0.07s, SD0.97/99
5.33 N±1.22km, 126.70 E±1.60km, h68±0.30km
Talaud Islands (263)
M_S5.4/44, m_B6.0/9, m_b5.6/8,

QZH	21.0	339	+P	00 17 14.5	0.0			
			pP	00 17 30.0	0.5			
			S	00 21 04.0	5.0			
			SME	m_B=6.1		5.0	2.33	
			sS	00 21 27.0	3.8			
			LN	M_S=5.4		22.0	10.5	
QZN	21.3	311	+P	00 17 17.0	−1.0			
			sP	00 17 41.0	−0.6			
			eS	00 21 08.0	1.8			
			sS	00 21 34.5	4.2			
			SS	00 21 50.0	6.3			
			LN	M_S=5.6		14.5	9.70	
			LE			14.5	5.20	
GZH	21.9	325	−P	00 17 24.0	0.9			
			LZ	M_S=5.1		37.0	13.9	
SSE	26.1	349	+P	00 18 05.5	1.1			
			pP	00 18 20.0	0.0			
			SMN	m_B=6.1		6.0	1.08	
			SME			7.0	3.27	
			ScP	00 25 06.0	3.6			
NJ2	27.6	346	eP	00 18 18.0	0.5			
			iScP	00 25 09.6	2.9			
			S	00 22 50.0	−1.8			
WHN	27.6	337	eP	00 18 18.5	0.4			
			pP	00 18 34.0	0.2			
			S	00 22 52.0	−0.9			

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			sS	00 23 24.0	3.0			
			ScP	00 25 10.0	3.1			
			eScS	00 29 01.6	4.2			
			LN	$M_S=5.1$		10.0	1.65	
GYA	28.4	320	−P	00 18 25.4	0.2			
			PcP	00 21 38.4	2.9			
			S	00 23 06.0	0.7			
			ScP	00 25 11.8	2.5			
			ScS	00 29 05.6	4.7			
			LN	$M_S=5.7$		15.0	5.60	
			LE			15.0	6.90	
KMI	30.3	313	eP	00 18 41.0	−0.7			
			sP	00 19 03.0	−2.8			
			LN	$M_S=5.4$		14.0	3.90	
TIA	32.0	345	P	00 18 55.9	−0.6			
			pP	00 19 11.5	−1.0			
			S	00 24 02.0	0.7			
			sS	00 24 27.5	−2.4			
			ScP	00 25 23.5	2.7			
			LN	$M_S=5.4$		9.0	1.30	
			LE			11.0	1.94	
XAN	33.0	332	−P	00 19 04.9	−0.5			
CD2	33.4	322	P	00 19 07.8	−0.8			
			eS	00 24 21.0	−2.8			
			LN	$M_S=6.0$		14.0	10.2	
			LE			15.0	7.92	
DL2	33.7	353	eP	00 19 12.0	0.2			
			epP	00 19 28.0	0.0			
			sP	00 19 40.0	3.7			
			eS	00 24 30.0	0.4			
			sS	00 24 58.0	0.6			
			eScS	00 29 30.0	2.9			
			LE	$M_S=5.5$		12.0	3.32	
TIY	34.8	340	+P	00 19 20.0	−0.7			
			pP	00 19 37.0	0.2			
			sP	00 19 48.0	2.9			
			S	00 24 49.0	4.5			
			sS	00 25 15.0	1.7			
			LN	$M_S=5.3$		15.0	2.43	
BJI	35.8	346	eP	00 19 29.0	−0.7			
			epP	00 19 46.0	−0.1			
			eS	00 25 07.0	5.0			
			eScP	00 25 38.0	3.6			
			eScS	00 29 43.0	4.7			
			LN	$M_S=5.0$		16.0	1.40	
			LZ	$M_S=5.1$		20.0	3.60	
SNY	36.4	356	+P	00 19 34.0	−0.9			
			S	00 25 13.0	2.5			
			LN	$M_S=5.4$		19.0	2.16	
			LE			21.0	3.52	
LZH	37.1	329	P	00 19 41.5	0.7			
			PMZ	$m_b=6.1$		1.0	0.35	
			pP	00 19 57.0	0.1			
			eS	00 25 16.0	−6.1			
			LN	$M_S=5.6$		16.0	3.80	
			LE			13.0	1.90	
HHC	37.9	341	eP	00 19 46.8	−0.2			
			eS	00 25 35.0	1.5			
			LN	$M_S=5.4$		14.0	2.90	
BTO	38.2	339	P	00 19 49.0	−0.5			
			pP	00 20 07.5	1.7			
			PP	00 21 24.0	3.8			
			S	00 25 38.0	1.2			
			sS	00 26 07.0	1.1			
			LN	$M_S=5.6$		20.0	4.80	
			LE			23.0	4.20	
CN2	38.3	359	+P	00 19 50.4	−0.2			
			PMZ			3.0	1.00	
			sP	00 20 16.0	0.0			
			eS	00 25 40.0	−0.1			
			SMN	$m_B=5.8$		6.5	0.70	
			SME			6.5	0.90	
			LE	$M_S=5.7$		16.0	5.80	
MDJ	39.2	3	eP	00 19 58.0	0.0			
			pP	00 20 14.0	−0.4			
			LZ	$M_S=5.2$		24.0	4.30	
LSA	41.4	310	−P	00 20 16.0	−0.4			
			PMZ			3.0	0.85	
			pP	00 20 30.0	−2.3			
			SME	$m_B=6.0$		5.0	1.40	
			sS	00 26 54.0	−0.1			
			ScS	00 30 12.0	1.8			
			LE	$M_S=5.5$		20.0	4.16	
GTA	41.7	328	+P	00 20 18.6	−0.3			
			PP	00 22 04.0	5.2			
			sS	00 27 04.0	4.8			
			ScS	00 30 15.4	3.1			
			LN	$M_S=5.6$		20.0	5.04	
WMQ	51.4	324	P	00 21 34.7	−0.4			
			PP	00 23 35.0	1.8			
			ScP	00 26 40.0	2.9			
			eS	00 28 44.0	−4.5			
			iScS	00 31 17.0	2.1			
			LN	$M_S=5.7$		14.0	2.64	
			LE			12.0	1.14	
KSH	56.9	314	+iP	00 22 14.0	−1.7			
			S	00 30 03.0	1.2			
			sS	00 30 34.0	1.6			
			LN	$M_S=5.7$		16.0	2.80	

JUL 11d 05h 16m 41.7 ± 0.16s, SD4.90 / 9
41.73 N ± 2.23km, 80.07 E ± 1.93km, h5 ± km
Kirgiziya–Xinjiang border region (320)
M_L3.5 / 7,

KSH	3.9	236	ePn	05 17 46.5	4.4			
			eSg	05 18 39.0	−3.4			
			SMN	$M_L=3.5$		0.5	0.10	
			SME			0.5	0.10	
WMQ	6.0	67	ePn	05 18 13.9	2.5			
			Sn	05 19 28.3	5.6			
			SMN	$M_L=3.4$		0.8	0.030	
			SME			0.8	0.030	

JUL 11d 20h 30m 32.2 ± 0.20s, SD0.99 / 16
12.87 N ± 0.82km, 125.32 E ± 3.08km, h35 ± 0.51km
Samar (251)

XAN	25.8	327	P	20 36 01.5	−0.8
GTA	34.7	324	eP	20 37 21.2	−0.3
WMQ	44.6	321	eP	20 38 43.5	0.1

JUL 11d 23h 22m 40.2 ± 0.13s, SD2.50 / 16
26.25 N ± 1.17km, 96.23 E ± 0.80km, h11 ± 0.64km
Burma–India border region (294)
M_L4.2 / 2,

LSA	5.7	309	ePn	23 24 10.0	4.9
KMI	6.0	99	ePg	23 24 29.0	2.9
GYA	9.4	86	P	23 24 57.2	−1.2

JUL 12d 00h 52m 11.0 ± 0.10s, SD1.58 / 21
6.12 N ± 0.92km, 126.22 E ± 1.13km, h163 ± 1.08km
Mindanao (259)

QZN	20.5	310	eP	00 56 41.1	3.4
SSE	25.3	350	eP	00 57 24.0	−0.2
XAN	32.1	332	P	00 58 24.0	−1.1
BJI	35.0	346	eP	00 58 50.0	0.4
SNY	35.6	357	eP	00 58 53.2	−2.1

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JUL 12d 02h 26m 53.1 ± 0.08s, SD1.47 / 21
38.82 N ± 1.43km, 23.37 E ± 1.18km, h20 ± 0.18km
Greece (364)

WMQ	47.5	62	P	02 35 30.2	0.7			
GTA	57.5	63	P	02 36 44.0	−0.5			
CD2	64.5	70	+iP	02 37 30.8	−0.4			
XAN	66.5	64	P	02 37 44.5	−0.1			
BJI	68.2	56	eP	02 37 55.0	−0.3			

JUL 12d 08h 41m 46.0 ± 0.11s, SD1.47 / 72
26.54 N ± 1.79km, 142.04 E ± 2.29km, h58 ± 0.71km
Bonin Islands region (212)
M_S4.1 / 5, m_b5.5 / 4,

SSE	18.8	289	P	08 46 06.0	2.2			
			PMZ	m_b = 4.8		1.0	0.050	
			pP	08 46 17.0	2.4			
			eS	08 49 28.0	0.5			
			LE	M_S = 4.1		8.0	0.23	
MDJ	20.6	334	eP	08 46 23.0	−0.4			
NJ2	20.9	291	eP	08 46 25.0	−1.4			
			LZ	M_S = 3.8		24.0	0.39	
DL2	21.1	311	eP	08 46 27.0	−0.9			
			LZ	M_S = 4.1		16.0	0.59	
QZH	21.2	271	eP	08 46 30.5	1.6			
			eS	08 50 16.0	0.5			
SNY	21.5	320	eP	08 46 32.5	0.3			
CN2	21.8	326	eP	08 46 37.0	1.4			
TIA	23.3	301	+P	08 46 49.6	−0.2			
			LE	M_S = 4.1		15.0	0.36	
WHN	24.6	286	eP	08 47 03.5	0.9			
BJI	25.4	309	eP	08 47 09.5	−0.2			
GZH	26.2	269	eP	08 47 22.0	4.1			
TIY	27.3	301	−P	08 47 27.5	−0.4			
			eS	08 52 01.5	0.1			
			LN	M_S = 4.7		21.0	1.44	
XAN	29.5	293	+P	08 47 46.0	−1.1			
GYA	31.6	278	+P	08 48 05.6	−0.4			
			S	08 53 12.6	4.4			
			ScP	08 54 36.4	3.4			
CD2	33.7	287	+iP	08 48 23.6	−1.0			
LZH	33.8	296	eP	08 48 24.5	−0.8			
			PMZ	m_b = 5.7		1.0	0.11	
KMI	35.3	277	+P	08 48 38.5	0.3			
			iS	08 54 09.0	1.8			
			LZ	M_S = 4.1		22.0	0.40	
WMQ	46.8	306	eP	08 50 11.0	−1.2			
			LZ	M_S = 4.3		23.0	0.42	

JUL 12d 09h 55m 24.8 ± 0.12s, SD1.09 / 56
31.26 S ± 1.77km, 179.95 W ± 2.03km, h415 ± 1.09km
Kermadec Islands region (177)
m_B5.5 / 2,

SSE	83.4	312	P	10 07 08.0	−0.9			
			eS	10 16 49.0	−6.0			
GZH	83.7	302	P	10 07 10.2	0.2			
QZN	83.9	296	−P	10 07 11.5	0.4			
			eS	10 17 01.1	1.8			
NJ2	85.5	312	+P	10 07 19.5	0.2			
WHN	87.5	308	−P	10 07 29.2	0.4			
			S	10 17 34.0	1.6			
MDJ	88.4	327	eP	10 07 32.0	−0.9			
DL2	88.5	318	−P	10 07 33.0	−0.1			
			S	10 17 44.0	3.2			
TIA	89.3	314	−P	10 07 36.8	−0.5			
			S	10 17 51.8	3.1			
SNY	89.4	321	−P	10 07 37.0	−0.5			
			eS	10 17 52.0	1.0			
CN2	89.8	324	+iP	10 07 39.0	−0.5			
			PMZ			2.0	0.50	
			eS	10 17 54.0	−0.8			
GYA	90.5	301	+P	10 07 43.0	0.1			
			S	10 18 00.0	0.7			
BJI	92.4	316	eP	10 07 51.0	−0.3			
			eS	10 18 20.0	3.0			
KMI	92.7	298	+P	10 07 54.5	1.3			
			S	10 18 25.0	6.7			
			SMN	m_B = 5.5		7.0	0.50	
TIY	93.2	313	−P	10 07 55.0	−0.2			
			SKS	10 17 48.5	1.2			
XAN	93.3	308	P	10 07 56.0	0.4			
GTA	102.4	309	eP	10 08 36.8	0.3			
KSH	119.3	301	eP	10 13 28.0	1.5			

JUL 12d 09h 55m 52.4 ± 0.13s, SD1.69 / 27
9.80 N ± 2.45km, 71.39 W ± 1.78km, h28 ± 0.50km
Lake Maracaibo (100)

BJI	129.9	352	ePKP	10 15 01.5	0.8			
GTA	130.4	9	PKP	10 15 03.3	1.6			
XAN	136.4	360	PKP	10 15 10.0	−2.9			
SSE	137.6	344	ePKP	10 15 12.0	−3.1			
WHN	139.5	352	PKP	10 15 20.0	1.5			
GYA	143.9	3	PKP	10 15 26.0	−0.3			
			sPKP	10 15 40.0	2.5			
KMI	144.8	9	−PKP	10 15 28.5	0.4			
			pPKP	10 15 35.5	−0.3			
GZH	147.0	352	PKP	10 15 36.0	4.5			

JUL 12d 17h 00m 08.2 ± 0.12s, SD1.23 / 82
6.87 N ± 1.18km, 124.04 E ± 1.60km, h50 ± 0.54km
Mindanao (259)
M_S5.0 / 28, m_B5.5 / 10, m_b5.1 / 3,

QZN	18.3	313	−P	17 04 19.5	−1.4			
			PP	17 04 40.0	4.0			
			eS	17 07 42.0	1.9			
			SMN	m_B = 5.6		12.0	2.00	
			SME			10.5	1.70	
			LN	M_S = 4.8		14.0	1.40	
			LE			14.0	1.90	
QZH	18.7	344	+P	17 04 26.0	0.8			
			PMZ	m_B = 5.3		5.0	0.86	
			S	17 07 50.0	2.3			
			SME	m_B = 5.2		10.0	0.86	
			LN	M_S = 5.0		16.0	3.60	
GZH	19.1	329	+P	17 04 28.0	−2.1			
			S	17 08 04.0	7.1			
			LZ	M_S = 4.7		16.0	2.67	
SSE	24.2	354	P	17 05 23.0	1.1			
			PMZ	m_b = 4.7		1.5	0.050	
			S	17 09 40.0	6.7			
			SMN	m_B = 5.7		10.0	1.22	
			SME			8.0	1.40	
			LN	M_S = 4.7		14.0	0.77	
			LE			14.0	0.77	
WHN	25.2	340	P	17 05 32.5	1.0			
			eS	17 09 50.0	−0.8			
			LN	M_S = 4.9		16.0	1.82	
NJ2	25.5	350	−P	17 05 35.0	1.0			
			S	17 09 56.0	1.5			
GYA	25.6	322	P	17 05 37.4	2.8			
			S	17 10 02.0	6.8			
			LN	M_S = 5.0		16.0	1.50	
			LE			16.0	2.10	
KMI	27.3	314	eP	17 05 50.0	−0.6			
			pP	17 06 07.0	4.7			
			eS	17 10 20.0	−4.6			

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			LE		$M_S=4.6$		14.0	0.80
TIA	29.9	349	+P	17 06 12.9		−0.8		
			eS	17 11 08.5		2.7		
			LN		$M_S=4.7$		11.0	0.56
			LE				11.0	0.31
XAN	30.4	335	P	17 06 18.0		−0.7		
CD2	30.5	324	eP	17 06 18.8		−0.8		
			S	17 11 18.0		2.7		
			LN		$M_S=5.2$		15.0	2.64
DL2	32.0	356	P	17 06 32.3		0.2		
			S	17 11 40.0		2.3		
			LN		$M_S=5.0$		17.0	1.53
TIY	32.5	343	eP	17 06 36.2		−0.3		
			S	17 11 50.0		4.6		
			LN		$M_S=5.1$		19.0	2.36
			LE				15.0	0.65
BJI	33.8	349	eP	17 06 46.5		−1.2		
			eS	17 12 09.0		2.4		
			LN		$M_S=4.5$		14.0	0.44
			LZ		$M_S=4.6$		24.0	1.50
LZH	34.5	330	eP	17 06 54.5		0.7		
			PMZ		$m_b=5.1$		2.5	0.080
			eS	17 12 17.0		−0.7		
SNY	34.8	359	+iP	17 06 56.0		−0.7		
			iS	17 12 27.0		4.2		
			LZ		$M_S=4.9$		17.0	1.83
HHC	35.6	344	eP	17 07 05.0		1.3		
			S	17 12 37.0		2.7		
			LN		$M_S=5.2$		18.0	2.00
			LE				18.0	1.70
BTO	35.8	342	eP	17 07 07.0		1.4		
			S	17 12 39.0		1.2		
			LN		$M_S=5.1$		14.0	1.30
			LE				14.0	0.60
CN2	36.8	2	+P	17 07 13.5		−0.1		
			PMZ				3.0	0.30
			eS	17 12 50.0		−3.5		
			LE		$M_S=4.9$		16.0	1.00
MDJ	37.9	6	+P	17 07 23.3		0.5		
			LZ		$M_S=4.9$		20.0	2.10
LSA	38.4	310	P	17 07 27.2		0.1		
			S	17 13 20.0		3.7		
			SME		$m_B=5.5$		7.0	0.63
GTA	39.0	330	eP	17 07 33.6		1.2		
			S	17 13 30.0		3.4		
			LN		$M_S=5.2$		17.0	1.96
WMQ	48.6	325	P	17 08 50.0		0.4		
			S	17 15 52.0		6.5		
			LN		$M_S=5.3$		15.0	1.34
			LE				15.0	0.82

JUL 12d 17h 59m 11.6±0.13s, SD1.94/34
9.99 N±4.15km, 62.55 W±5.00km, h4±0.47km
Venezuela (101)

CN2	126.0	353	ePKP	18 18 18.0		1.7		
GTA	128.2	17	ePKP	18 18 21.7		1.0		
HHC	129.1	6	ePKP	18 18 24.0		1.5		
BJI	130.2	1	ePKP	18 18 24.5		0.1		
TIY	132.3	5	ePKP	18 18 27.9		−0.7		
			LZ		$M_S=5.3$		22.0	0.65
LZH	132.4	15	ePKP	18 18 31.0		2.2		
TIA	134.1	0	ePKP	18 18 33.2		1.5		
XAN	135.5	10	PKP	18 18 35.4		1.0		
WHN	139.6	4	PKP	18 18 43.0		1.1		
GYA	142.3	16	PKP	18 18 44.0		−2.7		
GZH	146.9	7	ePKP	18 18 57.0		2.5		

JUL 12d 19h 27m 00.6±0.03s, SD1.76/6
29.72 N±0.31km, 107.00 E±0.36km, h7±0.03km
Sichuan Province (307)
M_L3.1/5,

CD2	3.0	294	ePn	19 27 49.0		−0.6		
			Pg	19 27 54.8		0.4		
			Sg	19 28 31.6		−4.5		
			SMN		$M_L=3.1$		0.7	0.080
			SME				1.0	0.070
GYA	3.3	185	Pn	19 27 54.0		1.4		
			Pg	19 28 04.6		6.4		
			Sn	19 28 34.0		0.5		
			SMN		$M_L=3.1$		1.0	0.050
			SME				1.0	0.070

JUL 12d 21h 12m 47.8±0.08s, SD1.76/45
24.89 N±1.64km, 125.46 E±1.47km, h62±1.21km
South-western Ryukyu Islands (246)
M_L3.5/3, m_b4.5/2,

SSE	7.2	330	eP	21 14 33.0		−0.6		
NJ2	9.2	322	+P	21 15 02.0		1.5		
SNY	17.0	355	eP	21 16 45.4		2.8		
BJI	17.0	335	eP	21 16 44.0		0.9		
GYA	17.0	279	P	21 16 48.0		4.5		
XAN	17.0	306	P	21 16 45.2		1.7		
CN2	18.9	360	eP	21 17 05.5		−0.3		
HHC	19.7	327	eP	21 17 16.0		1.0		
CD2	20.1	292	eP	21 17 19.7		0.6		
BTO	20.3	324	eP	21 17 21.0		−0.4		
LZH	21.7	306	eP	21 17 35.0		−0.4		
GTA	26.0	310	P	21 18 16.0		−1.1		
WMQ	36.0	311	−iP	21 19 45.0		−0.7		

JUL 12d 23h 23m 01.5±0.07s, SD1.70/61
24.84 N±1.31km, 123.13 E±1.08km, h144±1.51km
Taiwan region (243)
m_b5.2/4,

SSE	6.5	345	−P	23 24 40.0		4.5		
			S	23 25 46.0		−2.2		
NJ2	8.1	333	+P	23 24 56.6		−1.0		
WHN	9.6	308	eP	23 25 17.5		−0.3		
			eS	23 27 03.0		−1.3		
TIA	12.5	337	eP	23 25 56.7		1.8		
DL2	14.1	355	eP	23 26 18.0		2.3		
GYA	14.9	280	P	23 26 31.2		4.4		
XAN	15.4	310	P	23 26 33.0		0.7		
BJI	16.2	341	eP	23 26 44.0		1.2		
			eS	23 29 40.0		1.8		
SNY	16.9	1	eP	23 26 52.6		1.1		
CD2	18.2	294	P	23 27 04.9		−0.7		
KMI	18.5	275	eP	23 27 10.5		1.1		
HHC	18.7	332	+P	23 27 12.0		0.9		
CN2	19.0	5	eP	23 27 15.0		0.3		
BTO	19.2	328	eP	23 27 16.6		0.1		
LZH	20.0	309	eP	23 27 26.0		0.7		
			PMZ		$m_b=5.0$		1.0	0.070
MDJ	20.4	13	eP	23 27 28.5		−0.7		
GTA	24.4	312	eP	23 28 07.6		−0.8		

JUL 13d 04h 18m 45.2±0.31s, SD4.32/7
31.73 N±2.22km, 99.68 E±2.45km, h5±km
Sichuan Province (307)
M_L3.0/3,

CD2	3.6	102	ePn	04 19 48.0		6.1		
			Sn	04 20 33.0		6.4		
			SME		$M_L=3.3$		1.0	0.080

JUL 13d 06h 49m 45.4±0.02s, SD0.88/5
40.47 N±0.17km, 122.13 E±0.16km, h9±0.00km

North-Eastern China (658)
M_L3.0 / 1,

DL2	1.6	194	ePg	06 50 13.5	−0.3			
			Sg	06 50 35.0	−0.8			
SNY	1.7	38	+Pg	06 50 15.9	−0.4			
			Sg	06 50 38.6	−1.5			

JUL 13d 14h 41m 33.6 ± 0.09s, SD1.27 / 53
41.94 N ± 1.12km, 141.50 E ± 1.03km, h104 ± 1.03km
Hokkaido region (224)

MDJ	9.1	291	eP	14 43 45.5	2.0			
CN2	11.9	284	eP	14 44 21.0	−0.5			
DL2	15.4	265	eP	14 45 08.5	1.6			
BJI	19.2	273	eP	14 45 50.0	−1.9			
			LZ			14.0	0.29	
SSE	19.5	243	eP	14 45 55.0	−0.5			
TIA	19.7	261	P	14 45 56.3	−1.4			
HHC	22.4	277	eP	14 46 25.1	0.2			
TIY	22.7	269	eP	14 46 25.8	−1.3			
BTO	23.6	277	eP	14 46 36.6	0.1			
WHN	24.6	251	P	14 46 45.2	−0.2			
XAN	26.7	264	P	14 47 04.0	−1.7			
LZH	29.7	271	eP	14 47 31.5	−0.7			
GTA	31.5	280	P	14 47 47.1	−1.2			
WMQ	38.9	291	−iP	14 48 52.0	1.0			
			PP	14 50 29.0	4.1			
			S	14 54 43.0	2.6			

JUL 13d 17h 29m 34.4 ± 0.18s, SD2.70 / 29
41.78 S ± 4.28km, 16.09 W ± 4.76km, h11 ± 0.54km
South Atlantic Ridge (410)

LZH	133.8	76	ePKP	17 48 54.0	1.1			
XAN	136.6	82	PKP	17 49 00.0	2.1			
TIY	140.7	78	ePKP	17 49 03.8	−1.7			
			LZ	M_S = 5.4		20.0	0.62	
TIA	143.6	83	ePKP	17 49 06.8	−3.5			
BJI	144.2	76	ePKP	17 49 09.5	−2.0			
			LZ	M_S = 5.1		20.0	0.30	
SSE	144.3	93	ePKP	17 49 16.5	4.9			
DL2	147.9	81	ePKP	17 49 20.0	2.4			
SNY	150.1	76	ePKP	17 49 25.2	4.0			
CN2	151.9	73	ePKP	17 49 22.0	−1.9			

JUL 14d 05h 28m 16.9 ± 0.09s, SD1.47 / 50
4.82 S ± 1.13km, 130.66 E ± 2.60km, h95 ± 0.56km
Banda Sea (280)

QZN	31.3	320	eP	05 34 31.4	0.6			
			eS	05 39 28.0	−2.0			
SSE	36.8	346	eP	05 35 18.0	0.0			
			PcP	05 37 39.8	2.0			
WHN	38.5	337	eP	05 35 32.5	1.0			
KMI	40.3	319	+P	05 35 48.5	1.7			
DL2	44.3	350	eP	05 36 20.0	0.6			
TIY	45.6	340	eP	05 36 29.6	−0.1			
BJI	46.6	345	eP	05 36 37.0	−0.5			
SNY	46.9	353	+P	05 36 39.6	−0.1			
LZH	47.8	330	eP	05 36 47.5	0.1			
CN2	48.6	355	eP	05 36 52.5	−0.9			
WMQ	61.9	326	+iP	05 38 30.0	0.4			
KSH	66.9	317	eP	05 39 04.0	2.0			

JUL 14d 08h 09m 07.0 ± 0.07s, SD1.42 / 72
25.22 N ± 1.06km, 123.53 E ± 0.83km, h182 ± 0.71km
South-western Ryukyu Islands (246)
m_B5.2 / 5, m_b5.1 / 7,

QZH	4.5	268	−P	08 10 13.5	−1.7			
			SMN			1.5	0.43	
			SME			1.5	0.38	
			LN				6.0	0.89
SSE	6.2	341	P	08 10 38.5	0.9			
			PMZ	m_b = 4.9			1.0	0.090
			S	08 11 45.0	−2.8			
			LE				9.0	0.28
NJ2	7.9	330	+P	08 11 01.2	0.6			
GZH	9.5	259	eP	08 11 21.0	−0.4			
			S	08 13 10.0	3.7			
WHN	9.7	305	eP	08 11 24.0	0.5			
			PP	08 11 34.2	−4.9			
			S	08 13 11.0	1.0			
			LN				6.0	1.00
TIA	12.3	335	eP	08 11 58.2	1.6			
			eS	08 14 12.5	2.4			
DL2	13.7	354	+P	08 12 17.0	1.6			
QZN	14.1	247	eP	08 12 23.0	3.1			
			eS	08 14 52.0	−0.2			
GYA	15.2	278	P	08 12 35.0	0.7			
TIY	15.6	325	+iP	08 12 41.0	2.0			
			PMZ	m_B = 5.2			5.0	0.53
			sP	08 13 24.0	−2.8			
			S	08 15 32.0	5.7			
			SMN	m_B = 4.9			7.0	0.34
BJI	16.0	339	eP	08 12 44.0	0.3			
			PMZ	m_B = 5.2			8.0	0.71
			eS	08 15 40.0	4.5			
SNY	16.6	0	eP	08 12 50.6	0.3			
CD2	18.3	292	eP	08 13 08.6	−1.7			
			eS	08 16 32.0	6.1			
HHC	18.5	330	+P	08 13 12.4	0.3			
CN2	18.6	4	+P	08 13 12.0	−1.1			
			sP	08 14 04.0	−0.9			
			eS	08 16 31.0	−0.1			
BTO	19.0	327	eP	08 13 16.7	−1.0			
			S	08 16 38.0	−0.9			
MDJ	20.0	13	−P	08 13 27.0	−0.1			
LZH	20.1	307	eP	08 13 28.0	−0.3			
			PMZ	m_b = 4.8			2.0	0.060
GTA	24.4	311	P	08 14 09.6	−1.1			
WMQ	34.5	312	eP	08 15 39.5	−0.6			
KSH	42.2	302	eP	08 16 42.0	−1.9			

JUL 14d 10h 33m 58.0 ± 0.14s, SD1.96 / 43
3.95 S ± 1.66km, 143.98 E ± 1.96km, h57 ± 0.64km
New Guinea (202)

SSE	41.1	330	eP	10 41 39.5	1.4			
			eS	10 47 48.0	1.7			
WHN	44.5	322	eP	10 42 06.5	0.7			
GYA	47.1	312	P	10 42 28.0	1.3			
TIA	47.2	330	eP	10 42 28.7	1.3			
BJI	50.7	332	eP	10 42 55.0	0.7			
			eS	10 50 10.0	6.4			
CD2	51.7	315	−P	10 43 02.0	−0.1			
HHC	53.5	330	eP	10 43 13.9	−2.0			
BTO	54.1	328	eP	10 43 19.5	−0.8			
LZH	54.7	320	eP	10 43 24.0	−0.5			
GTA	59.3	321	eP	10 43 56.0	−0.8			
WMQ	69.3	320	P	10 45 02.0	0.0			

JUL 14d 18h 28m 37.2 ± 0.06s, SD0.72 / 28
9.48 S ± 3.45km, 161.40 E ± 1.63km, h4 ± 1.04km
Solomon Islands (193)
m_b5.2 / 2,

SSE	55.8	318	P	18 38 18.5	0.3			
			PMZ	m_b = 5.0			1.0	0.020
NJ2	57.9	317	+P	18 38 32.2	−1.3			
WHN	60.2	313	eP	18 38 48.5	−0.6			
DL2	60.7	325	eP	18 38 52.0	−0.7			

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MDJ	61.0	335	eP	18 38 55.8	0.8			
GYA	64.0	305	P	18 39 15.0	0.0			
BJI	64.6	323	eP	18 39 18.5	−0.2			
XAN	65.9	314	P	18 39 27.4	0.1			
KMI	66.7	303	+P	18 39 32.0	−0.2			
CD2	68.3	309	+iP	18 39 42.0	−0.1			
BTO	68.7	320	eP	18 39 46.0	1.0			
LZH	70.6	314	eP	18 39 57.0	0.7			
			PMZ	m_b=5.4		1.5	0.070	
GTA	74.9	315	P	18 40 22.8	0.8			
WMQ	85.0	316	eP	18 41 16.0	0.1			

JUL 14d 23h 18m 06.6±0.12s, SD1.49/46
8.62 S±1.73km, 112.64 E±2.45km, h31±0.21km
South of Java (282)

WHN	39.0	2	eP	23 25 33.5	1.5			
CD2	40.2	348	P	23 25 43.4	1.0			
SSE	40.3	11	eP	23 25 45.5	2.2			
LSA	43.3	332	−P	23 26 09.0	0.4			
TIA	44.8	5	P	23 26 19.6	−0.1			
LZH	45.2	350	eP	23 26 24.0	0.5			
TIY	46.1	360	−P	23 26 30.5	0.3			
DL2	48.0	9	eP	23 26 44.0	−1.2			
BJI	48.5	4	eP	23 26 48.5	−0.7			
GTA	49.2	347	+P	23 26 55.2	0.3			
SNY	51.2	10	eP	23 27 08.6	−1.0			
CN2	53.5	12	+P	23 27 25.4	−1.1			
MDJ	55.2	15	eP	23 27 38.3	−0.7			
WMQ	56.9	339	−iP	23 27 50.7	−0.8			
KSH	58.7	327	P	23 28 03.5	−1.2			

JUL 15d 02h 00m 28.4±0.06s, SD0.93/36
16.30 S±1.31km, 175.91 W±0.78km, h381±0.88km
Fiji region (181)
m_b4.8/2,

CN2	80.2	321	+P	02 11 59.3	−0.4			
SNY	80.3	319	+iP	02 12 03.0	2.9			
BJI	84.4	314	eP	02 12 20.5	−0.1			
TIY	86.0	311	P	02 12 29.0	0.3			
GYA	86.3	299	P	02 12 32.4	2.0			

JUL 15d 13h 24m 08.1±0.07s, SD1.70/8
35.06 N±0.51km, 109.98 E±0.64km, h4±0.24km
Eastern China (664)
M_L3.1/7,

TIY	3.3	36	ePg	13 25 08.8	2.2			
			Sg	13 25 51.0	−0.6			
			SMN	M_L=2.8		1.0	0.030	
			SME			0.5	0.030	

JUL 16d 06h 05m 01.0±0.10s, SD1.29/87
3.24 N±1.37km, 126.93 E±1.89km, h29±0.33km
Molucca Passage (266)
M_S5.4/41, m_B5.6/10, m_b5.2/8,

QZN	22.9	314	eP	06 10 03.0	−1.0			
			S	06 14 09.0	1.8			
			SME	m_B=5.5		10.0	1.40	
			SS	06 14 56.0	4.4			
			LN	M_S=5.3		13.0	3.40	
			LE			12.5	2.20	
QZH	23.0	340	−P	06 10 04.0	−1.0			
			sP	06 10 17.0	−0.1			
			eS	06 14 12.0	2.3			
			LN	M_S=5.5		20.0	9.84	
GZH	23.7	327	−P	06 10 11.5	−0.2			
			LZ	M_S=5.3		18.0	8.34	
SSE	28.2	350	+P	06 10 52.0	−1.9			
			PMZ	m_B=5.6		10.0	1.39	
			iS	06 15 40.0	3.4			
			sS	06 15 52.0	1.3			
			ScP	06 17 42.0	−2.3			
			LN	M_S=5.5		16.0	5.70	
WHN	29.6	338	eP	06 11 07.4	0.8			
			sP	06 11 20.0	1.1			
			LN	M_S=5.4		19.0	5.70	
NJ2	29.6	346	+P	06 11 08.8	2.2			
			LN	M_S=5.1		12.0	1.22	
			LE			12.0	1.15	
			LZ	M_S=5.0		22.0	3.46	
GYA	30.2	322	P	06 11 12.0	0.6			
			pP	06 11 21.2	1.4			
			PP	06 12 12.0	2.3			
			S	06 16 08.0	1.2			
			LE	M_S=5.4		15.0	3.90	
KMI	31.9	315	+P	06 11 26.0	−0.5			
			pP	06 11 36.5	1.8			
			S	06 16 35.0	1.7			
			LN	M_S=5.0		14.0	1.40	
TIA	34.0	346	eP	06 11 45.0	−0.1			
			S	06 17 01.5	−5.6			
			SMN			14.0	1.67	
			SME			7.0	0.45	
			LN	M_S=5.1		15.0	1.18	
			LE			15.0	1.25	
CD2	35.2	324	eP	06 11 53.2	−1.6			
			S	06 17 22.0	−2.4			
			LN	M_S=5.6		15.0	4.62	
			LE			13.0	2.90	
DL2	35.8	353	eP	06 12 00.5	0.1			
			PMZ	m_B=5.6		9.0	0.98	
			pP	06 12 09.0	0.0			
			sP	06 12 12.0	−0.6			
			eS	06 17 36.0	0.4			
			SMN			18.0	2.68	
			esS	06 17 50.0	0.1			
			LN	M_S=5.4		16.0	2.57	
			LE			16.0	2.56	
TIY	36.8	341	eP	06 12 08.8	0.2			
			PMZ	m_B=5.4		7.0	0.42	
			pP	06 12 18.0	0.9			
			PP	06 13 37.0	3.1			
			S	06 17 56.0	6.4			
			ScP	06 18 09.5	−4.0			
			LN	M_S=5.5		17.0	4.03	
BJI	37.9	347	−P	06 12 18.0	0.1			
			PMZ	m_B=5.6		10.0	0.96	
			epP	06 12 28.0	1.5			
			eS	06 18 09.0	1.5			
			eScP	06 18 22.0	4.4			
			LN	M_S=5.1		15.0	1.50	
			LZ	M_S=5.1		20.0	2.90	
SNY	38.5	356	−iP	06 12 24.0	0.9			
			PMZ	m_B=5.8		9.0	1.54	
			PP	06 13 56.0	1.0			
			LN	M_S=5.6		18.0	4.15	
			LE			18.0	2.46	
LZH	39.0	330	P	06 12 27.5	0.1			
			PMZ	m_b=5.8		1.5	0.22	
			sP	06 12 43.5	3.9			
			LN	M_S=5.8		25.0	9.50	
			LE			21.0	5.70	
HHC	39.9	342	−P	06 12 36.0	1.2			
			PP	06 14 07.0	−3.6			
			S	06 18 36.0	−1.1			
			LN	M_S=5.2		13.0	0.70	
			LE			14.0	1.20	

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BTO	40.2	340	P	06 12 36.0	−1.1			
			pP	06 12 45.0	−0.6			
			ePP	06 14 14.0	0.5			
			S	06 18 41.0	−0.3			
			LN	M_S = 5.6		22.0	5.33	
			LE			14.5	1.47	
CN2	40.4	358	+P	06 12 39.0	0.3			
			epP	06 12 48.0	0.6			
			eS	06 18 46.0	0.7			
			LN	M_S = 5.3		18.0	2.30	
MDJ	41.3	3	eP	06 12 46.6	0.8			
			pP	06 12 52.6	−1.9			
			sP	06 12 56.0	−2.2			
			S	06 19 02.0	4.9			
			LZ	M_S = 5.4		24.0	5.69	
GTA	43.6	329	P	06 13 05.0	−0.2			
			LE	M_S = 5.4		15.0	2.30	
WMQ	53.2	325	−P	06 14 18.5	−1.2			
			S	06 21 51.5	5.1			
			ScS	06 24 09.0	6.2			
			LN	M_S = 5.7		16.0	3.81	
KSH	58.6	315	eP	06 14 58.0	−0.2			
			eS	06 22 56.0	−3.0			
			LN	M_S = 5.6		14.0	2.00	

JUL 16d 08h 34m 16.6 ± 0.09s, SD1.26 / 92
7.37 S ± 1.73km, 120.28 E ± 2.15km, h421 ± 0.95km
Flores Sea (279)
m_B5.7 / 17, m_b5.6 / 19,

QZN	28.2	339	−iP	08 39 35.6	0.7			
			pP	08 40 53.0	3.7			
			sP	08 41 39.0	1.1			
			PcP	08 42 37.6	1.4			
			iS	08 43 50.0	−0.2			
			SMN	m_B = 5.4		6.0	1.20	
			PcS	08 46 14.5	−2.2			
GZH	31.0	348	−P	08 39 59.7	0.2			
QZH	32.2	357	−iP	08 40 09.5	0.2			
			PMZ			3.0	0.61	
			S	08 44 48.0	−3.2			
			SMN	m_B = 5.2		10.0	1.06	
GYA	36.1	339	−P	08 40 44.0	1.0			
			pP	08 42 02.0	0.7			
			PcP	08 42 59.4	1.2			
			S	08 45 51.0	−0.7			
			ScS	08 50 12.0	2.7			
KMI	36.5	333	−iP	08 40 48.0	1.6			
			PMZ	m_b = 5.8		2.0	0.90	
			PcP	08 42 59.0	−0.4			
			iS	08 46 00.0	0.9			
			SMN	m_B = 5.9		4.0	1.95	
			SME			4.0	1.00	
			PcS	08 46 47.0	1.6			
			ScS	08 50 09.0	−2.6			
WHN	38.1	352	−iP	08 41 01.0	1.7			
			PcP	08 43 05.2	0.8			
			ScP	08 46 09.0	−1.4			
			SMN	m_B = 5.5		6.0	1.08	
SSE	38.3	1	+iP	08 41 01.5	1.1			
			PMZ	m_b = 5.8		2.0	0.91	
			PcP	08 43 05.5	0.7			
			ScP	08 46 08.0	−2.9			
			S	08 46 18.0	−5.5			
			SMN	m_B = 6.0		4.0	1.92	
			SME			4.0	0.96	
			sS	08 48 44.0	−0.7			
			eSS	08 49 25.0	0.8			
NJ2	39.2	358	−iP	08 41 09.3	1.0			
			PMZ	m_b = 6.1		1.0	0.91	
			iPcP	08 43 08.4	0.5			
			ScP	08 46 16.3	1.7			
			S	08 46 38.5	0.8			
CD2	41.2	338	−iP	08 41 24.2	−0.4			
			PcP	08 43 14.9	0.5			
			S	08 47 05.0	−1.9			
			SMN	m_B = 6.1		5.0	3.33	
TIA	43.4	356	−P	08 41 41.9	−0.5			
			PcP	08 43 22.3	0.4			
			S	08 47 32.0	−6.8			
			SMN	m_B = 5.6		6.0	0.97	
TIY	45.4	351	−iP	08 41 57.5	−0.6			
			PMZ	m_b = 5.1		1.0	0.10	
			sP	08 44 10.0	4.3			
			S	08 48 03.5	−3.5			
			SMN	m_B = 5.5		5.0	0.40	
			ScS	08 51 07.5	1.8			
LZH	45.9	341	−iP	08 42 02.5	0.7			
			PMZ	m_b = 5.5		2.0	0.52	
			PcP	08 43 31.5	1.0			
			eS	08 48 12.0	−2.8			
			SMN	m_B = 5.7		8.0	0.89	
			ScS	08 51 10.0	1.3			
DL2	46.1	1	+iP	08 42 02.0	−0.8			
			PMZ			3.0	1.15	
			epP	08 43 28.0	3.3			
			PcP	08 43 31.0	0.0			
			S	08 48 12.0	−3.6			
			SMN	m_B = 5.9		8.0	1.08	
			SME			4.0	0.57	
			eScS	08 51 09.0	−0.7			
BJI	47.3	356	−iP	08 42 12.0	−0.5			
			pP	08 43 36.0	1.1			
			esP	08 44 22.0	1.2			
			eS	08 48 32.0	−2.3			
			esS	08 50 58.0	−2.7			
HHC	48.6	351	−iP	08 42 22.4	−0.3			
			sP	08 44 30.0	−1.2			
			S	08 48 50.0	−1.4			
BTO	48.7	350	−iP	08 42 22.0	−0.8			
			pP	08 43 48.0	2.4			
			S	08 48 49.5	−2.1			
SNY	49.0	3	+iP	08 42 24.0	−1.6			
			sP	08 44 32.0	−2.4			
			S	08 48 54.0	−3.0			
GTA	50.3	339	−iP	08 42 35.1	0.2			
			PMZ	m_b = 5.9		1.2	0.78	
			PcP	08 43 47.0	0.7			
			S	08 49 14.0	0.5			
CN2	51.1	5	−iP	08 42 39.3	−2.0			
			PcP	08 43 49.0	−0.6			
			sP	08 44 53.0	2.4			
			eS	08 49 26.0	−0.6			
			ScS	08 51 46.0	2.1			
MDJ	52.4	8	−iP	08 42 49.5	−1.2			
			pP	08 44 18.0	2.9			
			S	08 49 40.0	−2.7			
			SMN	m_B = 5.7		6.0	0.60	
WMQ	58.9	333	−iP	08 43 35.5	−0.2			
			S	08 51 10.5	3.7			
KSH	62.1	322	−iP	08 43 58.0	0.6			
			S	08 51 49.0	1.4			

JUL 16d 08h 42m 01.7 ± 0.11s, SD1.20 / 56
13.94 N ± 2.31km, 51.70 E ± 1.47km, h10 ± 0.19km
Eastern Gulf of Aden (415)
M_S5.1 / 9, m_b5.4 / 2,

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KSH	33.2	35	P	08 48 42.0	0.4			
			pP	08 48 49.0	2.1			
			eS	08 54 01.0	0.3			
WMQ	42.8	39	+iP	08 50 03.5	1.6			
			pP	08 50 11.0	3.6			
			PP	08 51 49.0	5.7			
KMI	49.1	69	+P	08 50 52.5	0.3			
GTA	49.2	50	P	08 50 53.4	0.7			
GYA	52.7	67	−P	08 51 18.6	−0.9			
			S	08 58 46.0	1.2			
			sS	08 58 57.0	1.7			
			LE	M_S=5.3		12.0	1.00	
QZN	55.8	76	eP	08 51 42.0	0.2			
			PP	08 53 49.0	2.0			
			eS	08 59 26.0	−1.4			
			SS	09 03 14.0	2.6			
BTO	57.1	51	P	08 51 51.0	−0.3			
HHC	58.3	50	P	08 52 00.6	0.9			
			LZ	M_S=5.1		38.0	2.91	
TIY	58.5	54	P	08 52 01.1	−0.2			
			LN	M_S=5.1		20.0	1.00	
WHN	59.6	63	eP	08 52 08.0	−0.8			
BJI	61.7	52	eP	08 52 21.0	−1.8			
			eS	09 00 44.0	0.0			
			eSS	09 04 49.0	3.3			
			LN	M_S=5.1		12.0	0.46	
			LZ	M_S=5.0		30.0	1.50	
TIA	62.1	56	P	08 52 25.2	−0.8			
SSE	65.5	62	P	08 52 47.2	−0.7			
			PMZ	m_b=5.3		1.0	0.040	
DL2	65.8	53	eP	08 52 50.0	0.0			
			eS	09 01 36.0	0.4			
			LE	M_S=5.3		14.0	0.81	
SNY	67.4	50	+P	08 53 00.4	0.4			
CN2	68.8	48	+iP	08 53 08.8	0.0			
			epP	08 53 16.5	2.1			
			eS	09 02 14.0	2.6			
			LE	M_S=5.1		15.0	0.50	

JUL 16d 16h 54m 60.0 ± 0.06s, SD0.94 / 69
27.34 S ± 1.29km, 176.56 W ± 2.16km, h34 ± 0.59km
Kermadec Islands region (177)
M_S5.4 / 3, m_B5.9 / 5, m_b5.9 / 2,

QZH	81.3	304	+P	17 07 13.5	−1.5			
			PMZ	m_B=5.9		4.0	0.61	
QZN	84.9	294	eP	17 07 34.0	0.7			
NJ2	85.2	310	−P	17 07 35.6	0.4			
			PMZ	m_B=6.0		4.0	0.60	
			S	17 17 57.0	−3.4			
MDJ	86.8	325	+P	17 07 42.6	−0.5			
			PMZ	m_B=5.9		4.0	0.41	
			pP	17 07 52.0	−0.9			
			S	17 18 12.0	−3.8			
WHN	87.5	306	P	17 07 46.5	0.1			
			pP	17 07 58.0	1.6			
			eSKS	17 18 08.0	0.0			
			LZ	M_S=5.6		24.0	2.79	
DL2	87.6	317	eP	17 07 46.5	−0.1			
			pP	17 07 56.5	−0.1			
			eS	17 18 24.0	−0.5			
			LZ	M_S=5.0		22.0	0.63	
SNY	88.3	320	+P	17 07 49.4	−0.5			
CN2	88.5	322	eP	17 07 50.2	−0.8			
TIA	88.8	312	P	17 07 53.2	0.5			
GYA	91.1	299	+P	17 08 04.0	0.3			
			pP	17 08 10.0	−3.5			
			SKS	17 18 35.0	5.1			
			S	17 18 51.0	−4.4			
BJI	91.6	315	eP	17 08 05.0	−0.8			
			epP	17 08 16.0	0.2			
			eSKS	17 18 32.0	−0.8			
			eS	17 19 04.0	2.5			
			LZ	M_S=4.9		30.0	0.74	
TIY	92.8	311	+P	17 08 11.3	0.1			
			PMZ	m_b=6.0		1.4	0.11	
			SKS	17 18 44.5	5.2			
			S	17 19 16.0	6.2			
			LN	M_S=5.4		19.0	0.86	
KMI	93.6	296	+P	17 08 16.0	1.1			
CD2	95.5	302	P	17 08 25.2	1.5			
BTO	95.9	313	eP	17 08 25.0	−0.4			
LZH	97.9	306	eP	17 08 35.0	0.4			
			LZ	M_S=5.4		24.0	1.40	
GTA	102.3	308	eP	17 08 53.6	−0.6			

JUL 16d 19h 53m 26.7 ± 0.10s, SD1.70 / 105
19.91 N ± 1.49km, 121.78 E ± 1.77km, h28 ± 0.39km
Philippine Islands region (248)
M_S5.4 / 46, M_L5.0 / 7, m_B5.6 / 7,

QZH	5.8	330	Pn	19 54 51.6	0.2			
			iSn	19 55 55.7	−3.3			
			SME	M_L=4.8		0.8	0.75	
GZH	8.5	293	−P	19 55 27.1	−3.4			
			LZ	M_S=5.0		16.0	13.5	
SSE	11.1	357	P	19 56 06.5	−0.9			
			sP	19 56 18.5	0.1			
			LN	M_S=5.0		11.0	1.30	
			LE			11.0	5.75	
QZN	11.3	268	eP	19 56 07.4	−2.1			
			S	19 58 10.6	−4.8			
			LN	M_S=5.2		12.0	9.80	
			LE			14.0	7.90	
NJ2	12.4	348	+P	19 56 24.3	0.3			
			LN	M_S=5.0		8.0	0.94	
			LE			13.0	6.04	
WHN	12.5	329	P	19 56 24.0	−2.2			
			S	19 58 40.0	−5.5			
			LE	M_S=5.2		12.0	8.78	
GYA	15.3	298	−P	19 57 04.0	0.7			
			sP	19 57 16.0	1.7			
			S	19 59 55.4	3.1			
			SS	20 00 15.0	4.8			
			LN	M_S=5.4		11.0	8.80	
			LE			11.0	3.40	
TIA	16.7	347	P	19 57 21.5	0.5			
			LN	M_S=5.2		15.0	3.45	
			LE			11.5	5.51	
KMI	18.3	290	−P	19 57 42.0	0.9			
			pP	19 57 48.0	0.1			
			PP	19 57 59.0	3.3			
			eS	20 01 07.0	5.0			
			LE	M_S=5.3		12.0	5.80	
DL2	18.9	360	eP	19 57 48.0	−0.2			
			epP	19 57 58.0	2.9			
			esP	19 57 59.5	0.0			
			eS	20 01 15.0	0.1			
			SME	m_B=5.6		8.0	2.05	
			LN	M_S=5.4		13.0	1.94	
			LE			12.0	6.76	
TIY	19.5	337	−iP	19 57 55.7	0.8			
			PMZ	m_b=5.6		1.2	0.32	
			sP	19 58 08.5	2.1			
			SMN	m_B=5.5		7.0	0.97	
			SME			7.0	1.17	
			LN	M_S=5.6		12.0	10.1	
CD2	19.6	308	−iP	19 57 56.4	0.7			

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			LN	$M_S = 5.8$		10.0	1.97
			LE			10.0	13.4
BJI	20.6	348	eP	19 58 06.0	−0.7		
			epP	19 58 14.0	−0.6		
			eS	20 01 54.0	3.0		
			LN	$M_S = 5.2$		10.0	2.70
			LE			10.0	1.60
SNY	21.9	4	+P	19 58 19.6	0.0		
			S	20 02 17.5	3.1		
			LN	$M_S = 5.5$		12.0	6.06
			LE			11.0	2.21
LZH	22.5	319	−iP	19 58 28.5	2.5		
			PMZ	$m_b = 5.7$		2.0	0.71
			sP	19 58 41.0	3.2		
			S	20 02 25.0	−0.9		
			SME	$m_B = 5.7$		11.0	2.99
			LN	$M_S = 5.4$		11.0	4.29
			LE			12.0	3.31
HHC	22.6	340	P	19 58 28.0	1.1		
			pP	19 58 34.0	−0.8		
			SMN	$m_B = 5.8$		8.0	1.97
			SME			8.0	1.51
			LN	$M_S = 5.4$		12.0	4.43
			LE			12.0	4.03
BTO	22.9	337	−iP	19 58 31.0	1.0		
			sP	19 58 44.0	2.1		
			ePP	19 59 02.5	3.4		
			S	20 02 36.0	2.7		
			sS	20 02 49.0	1.7		
			LN	$M_S = 5.7$		12.0	8.45
			LE			12.5	6.12
CN2	24.0	7	+P	19 58 40.5	0.1		
			epP	19 58 50.5	2.0		
			eS	20 02 55.0	2.1		
			LN	$M_S = 5.4$		12.0	5.30
MDJ	25.5	13	+P	19 58 54.6	0.2		
			LZ	$M_S = 5.7$		14.0	16.6
GTA	27.1	321	−P	19 59 10.5	0.8		
			LN	$M_S = 5.2$		11.0	2.51
WMQ	37.1	318	P	20 00 38.5	1.7		
			PP	20 02 05.0	1.8		
			PcP	20 02 58.0	1.3		
			S	20 06 26.0	6.2		
			ScP	20 06 41.5	1.2		
			ScS	20 10 49.0	2.5		
			LN	$M_S = 5.6$		12.0	2.82
			LE			12.0	2.17
KSH	43.8	307	eP	20 01 36.0	3.4		
			eS	20 08 04.0	2.4		
			LN	$M_S = 5.8$		13.0	4.50

JUL 16d 20h 46m 51.6 ± 0.06s, SD0.98 / 82
52.07 N ± 2.68km, 170.62 W ± 1.29km, h33 ± 0.59km
Fox Islands (9)
M_S5.0 / 4, m_b5.6 / 5,

CN2	42.3	285	+P	20 54 44.0	−0.8			
SNY	44.6	284	+P	20 55 03.6	0.5			
DL2	47.6	282	eP	20 55 25.0	−1.6			
			LZ	$M_S = 4.5$		22.0	0.63	
BJI	50.1	287	eP	20 55 46.5	0.2			
			LZ	$M_S = 4.6$		24.0	0.71	
TIA	52.1	282	P	20 56 00.4	−0.5			
HHC	52.3	290	+P	20 56 03.0	0.1			
SSE	53.1	275	+iP	20 56 09.0	0.7			
			PMZ	$m_b = 5.5$		1.0	0.060	
			sP	20 56 22.5	0.9			
			S	21 03 32.0	−1.8			
BTO	53.4	291	P	20 56 11.2	0.4			
NJ2	53.8	277	+P	20 56 13.2	−0.8			
			LZ	$M_S = 4.5$		13.0	0.30	
TIY	53.9	287	+iP	20 56 15.0	0.6			
WHN	57.6	279	+P	20 56 41.5	0.0			
QZH	59.0	272	P	20 56 51.5	0.1			
GTA	59.9	296	+P	20 56 56.4	−1.3			
LZH	60.0	291	P	20 56 58.0	−0.1			
			PMZ	$m_b = 5.5$		1.5	0.090	
			sP	20 57 11.5	0.3			
WMQ	63.1	307	+iP	20 57 18.8	−0.2			
			eS	21 05 47.0	0.4			
GYA	65.2	282	+P	20 57 33.0	0.1			
KMI	68.6	284	+P	20 57 54.5	0.3			
KSH	72.0	312	P	20 58 16.0	1.0			
			eS	21 07 35.0	1.1			
			sS	21 07 46.0	−3.3			
			LN	$M_S = 5.5$		16.0	1.40	

JUL 16d 21h 15m 11.3 ± 0.19s, SD1.07 / 53
13.92 S ± 1.24km, 167.45 E ± 2.17km, h167 ± 1.11km
Vanuatu (New Hebrides) (186)
m_b5.0 / 2,

SSE	63.1	316	+iP	21 25 22.6	−0.9			
			PMZ	$m_b = 4.9$		1.0	0.020	
NJ2	65.2	315	−P	21 25 37.3	−0.3			
WHN	67.5	312	eP	21 25 52.0	−0.2			
MDJ	67.6	332	eP	21 25 52.5	−0.5			
DL2	67.8	323	eP	21 25 53.5	−0.1			
			esP	21 26 54.5	3.6			
TIA	68.8	318	P	21 26 00.0	−0.4			
CN2	69.0	329	+P	21 26 01.0	−0.5			
GYA	71.4	304	P	21 26 16.0	0.1			
BJI	71.7	321	eP	21 26 18.0	0.2			
TIY	72.8	317	+P	21 26 24.5	0.5			
KMI	74.0	302	−P	21 26 33.0	1.5			
HHC	75.1	319	+P	21 26 37.8	0.5			
CD2	75.7	307	P	21 26 41.2	0.7			
BTO	75.9	319	eP	21 26 43.0	0.9			
LZH	77.9	312	eP	21 26 54.0	0.9			
			PMZ	$m_b = 5.1$		1.5	0.060	
GTA	82.2	314	+P	21 27 17.0	0.8			
WMQ	92.3	315	P	21 28 05.0	0.5			

JUL 17d 03h 23m 04.1 ± 0.11s, SD1.76 / 100
20.08 N ± 1.60km, 121.95 E ± 1.79km, h8 ± 0.35km
Philippine Islands region (248)
M_S5.9 / 46, M_L5.4 / 5, m_B5.9 / 12,

QZH	5.8	328	Pn	03 24 30.5	0.5			
			sP	03 24 39.0	−0.3			
			iSn	03 25 33.0	−5.5			
			SMN	$M_L = 5.4$		1.0	2.31	
			SME			1.3	3.42	
GZH	8.5	292	−P	03 25 07.5	−3.7			
			S	03 26 48.5	−0.1			
			LN	$M_S = 5.7$		18.0	53.1	
			LE			12.0	45.4	
SSE	11.0	357	−iP	03 25 44.0	−0.9			
			PMZ	$m_b = 5.7$		1.0	0.19	
			sP	03 25 56.0	3.7			
			S	03 27 52.5	3.6			
			SMN			1.0	0.30	
			SME			1.0	0.13	
			LN	$M_S = 5.6$		10.0	10.1	
			LE			13.0	24.6	
QZN	11.5	267	−P	03 25 50.0	−1.3			
			S	03 27 58.3	−2.0			
			LN	$M_S = 5.8$		14.0	48.7	
			LE			14.5	20.2	

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NJ2	12.2	348	+P	03 26 01.5	−0.4			
			S	03 28 13.4	−5.9			
			LN	M_S = 5.6		12.0	16.9	
			LE			12.0	20.1	
WHN	12.5	328	P	03 26 03.5	−1.6			
			pP	03 26 09.0	−0.2			
			eS	03 28 20.0	−5.4			
			LE	M_S = 5.8		14.0	42.2	
GYA	15.4	297	−P	03 26 44.0	0.1			
			PP	03 26 55.0	−0.6			
			S	03 29 34.0	−0.8			
			S	03 29 34.0	−0.8			
TIA	16.6	346	−P	03 27 00.2	0.9			
			sP	03 27 07.0	−0.1			
			S	03 30 06.0	2.9			
			LE	M_S = 5.9		12.5	27.0	
KMI	18.4	289	−iP	03 27 23.0	0.9			
			pP	03 27 31.0	4.8			
			eS	03 30 49.0	3.7			
			SS	03 31 01.0	−6.9			
			LE	M_S = 5.8		12.0	20.4	
DL2	18.8	359	+iP	03 27 26.0	0.0			
			PMZ	m_B = 6.0		7.0	4.74	
			pP	03 27 34.0	3.7			
			S	03 30 53.0	1.1			
			LN	M_S = 5.9		12.0	14.5	
			LE			12.0	18.6	
TIY	19.4	337	+iP	03 27 33.5	−0.3			
			pP	03 27 41.0	2.8			
			iS	03 31 10.0	2.5			
			SMN	m_B = 5.8		10.0	3.55	
			SME			9.0	3.63	
			LN	M_S = 6.3		14.0	35.5	
			LE			15.0	56.1	
CD2	19.6	307	−iP	03 27 36.0	0.0			
			S	03 31 12.3	1.2			
			LE	M_S = 6.1		11.0	34.4	
BJI	20.5	347	eP	03 27 44.0	−1.5			
			PMZ	m_B = 5.4		7.0	1.10	
			eS	03 31 30.0	−0.3			
			LN	M_S = 5.7		13.0	10.4	
			LE			13.0	10.0	
			LZ	M_S = 5.4		15.0	10.2	
SNY	21.7	3	+iP	03 27 56.0	−2.0			
			S	03 31 52.5	−0.6			
			LN	M_S = 5.9		12.5	13.2	
			LE			12.5	10.8	
LZH	22.5	319	P	03 28 07.5	1.4			
			PMZ			3.0	1.78	
			SMN	m_B = 6.1		12.0	9.58	
			LN	M_S = 5.9		12.0	11.8	
			LE			13.0	11.8	
HHC	22.5	339	+P	03 28 06.0	−0.1			
			pP	03 28 11.0	0.0			
			PP	03 28 39.0	5.9			
			S	03 32 14.5	6.8			
			SMN	m_B = 5.8		11.0	2.82	
			SME			10.0	2.79	
			LN	M_S = 6.2		15.0	19.9	
			LE			15.0	38.9	
BTO	22.9	336	P	03 28 09.0	−0.4			
			pP	03 28 17.5	3.2			
			PP	03 28 40.0	2.3			
			S	03 32 12.0	−1.7			
			sS	03 32 27.0	4.4			
			LN	M_S = 6.2		12.0	15.5	
			LE			12.0	26.9	
CN2	23.8	6	+P	03 28 19.0	0.2			
			eS	03 32 35.0	3.2			
			LN	M_S = 6.1		13.0	25.0	
MDJ	25.3	13	eP	03 28 33.0	0.2			
			pP	03 28 40.5	2.7			
			S	03 32 50.0	−5.6			
			LE	M_S = 6.3		14.0	40.4	
GTA	27.1	320	−P	03 28 50.2	0.5			
			PP	03 29 37.5	2.5			
			S	03 33 27.0	1.6			
			LN	M_S = 5.8		12.0	9.25	
WMQ	37.1	317	P	03 30 18.2	1.2			
			PMZ	m_B = 6.1		6.0	2.18	
			PP	03 31 46.0	3.2			
			PcP	03 32 35.0	−2.3			
			S	03 36 06.0	4.1			
			LN	M_S = 6.1		13.0	7.74	
			LE			12.0	9.83	
KSH	43.9	307	P	03 31 16.0	2.8			
			eS	03 37 44.0	−0.4			
			LN	M_S = 6.2		11.0	10.0	

JUL 17d 13h 12m 10.4 ± 0.34s, SD2.07 / 47
17.98 S ± 3.22km, 167.79 E ± 2.94km, h27 ± 1.23km
Vanuatu (New Hebrides) (186)

WHN	70.5	313	eP	13 23 25.0	−0.2			
TIA	72.1	319	eP	13 23 37.9	3.1			
CN2	72.7	329	eP	13 23 36.0	−2.3			
GYA	74.0	305	P	13 23 49.0	3.0			
BJI	75.1	321	eP	13 23 52.5	0.1			
			LZ	M_S = 4.5		32.0	0.39	
TIY	76.0	318	+iP	13 23 57.6	0.0			
			LZ	M_S = 4.9		15.0	0.47	
KMI	76.4	302	eP	13 24 01.0	0.7			
HHC	78.4	320	eP	13 24 12.0	1.0			
CD2	78.4	308	eP	13 24 14.6	3.6			
BTO	79.2	319	eP	13 24 14.0	−1.4			
LZH	80.9	313	eP	13 24 27.5	3.0			
GTA	85.3	314	eP	13 24 46.6	−0.3			
WMQ	95.3	314	eP	13 25 35.5	1.3			

JUL 17d 15h 05m 56.4 ± 0.09s, SD1.53 / 93
37.08 N ± 1.81km, 142.03 E ± 2.18km, h24 ± 0.87km
Near east coast of Honshu (228)
M_S5.5 / 44, m_B5.2 / 5, m_b5.3 / 3,

MDJ	12.0	313	+P	15 08 50.0	0.2			
			pP	15 08 56.0	0.1			
			S	15 11 04.0	−0.1			
			LZ	M_S = 5.0		16.0	9.60	
CN2	14.3	303	+P	15 09 20.0	0.4			
			sP	15 09 32.0	2.1			
			eS	15 12 00.0	1.6			
SNY	15.0	294	+iP	15 09 30.0	0.9			
			eS	15 12 16.0	0.5			
			LN	M_S = 5.6		11.5	4.45	
			LE			13.5	18.3	
DL2	16.2	283	+P	15 09 46.0	1.8			
			PMZ	m_B = 5.4		6.0	1.05	
			epP	15 09 54.0	3.5			
			ePP	15 10 01.0	4.0			
			eS	15 12 47.0	4.1			
			LN	M_S = 5.5		11.0	2.41	
			LE			13.0	10.9	
SSE	18.3	257	−P	15 10 10.5	0.4			
			sP	15 10 20.0	−0.6			
			PP	15 10 26.0	1.3			
			eS	15 13 34.0	3.8			
			sS	15 13 43.0	2.4			
			LN	M_S = 5.3		12.0	2.30	

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			LE			12.0	6.40
NJ2	19.7	262	+P	15 10 26.5	−0.8		
			sP	15 10 42.0	3.9		
			S	15 14 06.0	3.4		
			LN	M_S=5.4		15.0	7.87
			LE			15.0	2.54
			LZ	M_S=4.9		25.0	5.99
TIA	20.0	275	eP	15 10 28.3	−2.1		
			S	15 14 15.0	6.6		
			SME	m_B=5.2		9.0	0.87
			LN	M_S=5.6		15.0	3.29
			LE			14.0	13.3
BJI	20.4	286	eP	15 10 31.0	−3.7		
			eS	15 14 12.0	−5.6		
			LN	M_S=5.3		14.0	4.80
			LE			14.0	2.40
			LZ	M_S=4.8		22.0	4.60
QZH	23.4	245	eP	15 11 03.0	−1.5		
			eS	15 15 10.0	−2.5		
			sS	15 15 25.0	0.3		
			LN	M_S=5.3		14.0	4.40
TIY	23.5	281	eP	15 11 03.8	−1.8		
			PP	15 11 37.0	0.1		
			S	15 15 14.0	0.5		
			sS	15 15 26.0	−0.4		
			LN	M_S=5.5		14.0	4.86
			LE			14.0	5.69
WHN	23.9	262	eP	15 11 09.0	−0.1		
			sP	15 11 21.0	0.9		
			eS	15 15 21.0	0.3		
			LN	M_S=5.4		13.0	5.80
HHC	23.9	288	eP	15 11 10.0	0.1		
			S	15 15 18.5	−2.7		
			LN	M_S=5.4		15.0	5.54
			LE			15.0	3.59
BTO	25.1	288	eP	15 11 20.0	−1.4		
			sP	15 11 32.0	−0.2		
			PP	15 11 58.0	−0.6		
			S	15 15 39.0	−2.3		
			SS	15 16 39.0	−2.3		
			LN	M_S=5.5		14.0	2.80
			LE			12.0	4.70
GZH	28.3	249	eP	15 11 51.6	0.6		
			eS	15 16 33.5	−1.3		
			LN	M_S=5.5		12.0	1.92
			LE			14.0	4.76
LZH	30.5	280	eP	15 12 11.0	0.1		
			PMZ	m_b=5.6		2.0	0.22
			sP	15 12 22.0	0.2		
			LE	M_S=5.8		15.0	9.50
GYA	31.7	261	+P	15 12 20.6	−0.5		
			sP	15 12 36.0	3.9		
			S	15 17 27.0	−0.4		
			LN	M_S=5.6		13.0	3.50
			LE			13.0	3.40
CD2	32.2	270	eP	15 12 24.0	−1.0		
			S	15 17 36.0	1.5		
			LN	M_S=5.8		13.0	8.92
GTA	33.0	287	eP	15 12 32.4	−0.2		
			S	15 17 54.0	6.2		
			LN	M_S=5.4		15.0	3.77
QZN	33.4	246	+P	15 12 37.0	1.3		
			pP	15 12 46.0	2.7		
			PP	15 13 49.0	1.8		
			eS	15 17 56.0	1.4		
			LN	M_S=5.4		15.0	2.30
			LE			14.0	2.60
KMI	35.5	262	+P	15 12 53.0	−0.6		
			sP	15 13 09.0		4.5	
			PP	15 14 18.0		5.0	
			eS	15 18 32.0		5.1	
			LE	M_S=5.3		16.0	2.90
WMQ	41.3	297	P	15 13 44.0		2.1	
			pP	15 13 54.0		4.5	
			S	15 20 00.0		6.6	
			LN	M_S=5.7		12.0	3.10
			LE			13.0	2.36
KSH	50.9	294	eP	15 15 01.0		2.8	
			eS	15 22 16.0		3.9	
			LE	M_S=6.0		14.0	7.30

JUL 17d 18h 46m 12.6±0.07s, SD1.11/50
46.22 N±1.42km, 143.04 E±0.72km, h345±0.97km
Hokkaido region (224)
m_b4.5/5,

MDJ	9.6	265	−P	18 48 27.9	1.2		
CN2	12.7	265	−P	18 49 02.0	−1.9		
SNY	14.7	260	−P	18 49 25.6	−0.9		
BJI	20.5	262	eP	18 50 25.5	−0.5		
TIA	21.8	252	P	18 50 39.9	1.1		
HHC	23.3	268	eP	18 50 54.0	0.8		
TIY	24.2	260	eP	18 51 02.0	1.3		
BTO	24.5	269	eP	18 51 05.0	1.1		
WHN	27.2	245	eP	18 51 27.0	−1.0		
LZH	30.9	265	eP	18 52 00.0	−0.8		
			PMZ	m_b=4.5		1.5	0.030
GTA	32.1	274	−iP	18 52 11.6	0.6		
CD2	33.9	257	eP	18 52 26.6	0.3		
GYA	34.9	248	P	18 52 34.2	−0.5		

JUL 17d 21h 13m 26.9±0.10s, SD1.24/67
2.49 N±1.16km, 128.46 E±1.78km, h150±0.86km
Djailolo Gilolo (Halmahera) (267)
m_b5.0/2,

QZH	24.3	338	−P	21 18 32.5	0.9		
QZN	24.5	313	eP	21 18 34.6	0.4		
			eS	21 22 40.0	−1.5		
GZH	25.2	326	eP	21 18 40.0	−0.2		
WHN	30.9	336	P	21 19 33.5	1.3		
			pP	21 20 04.0	0.4		
GYA	31.7	321	−P	21 19 39.4	0.3		
			PcP	21 22 27.8	1.3		
KMI	33.5	315	+P	21 19 55.0	0.6		
CD2	36.7	323	P	21 20 21.2	0.0		
BJI	39.0	345	eP	21 20 40.0	−0.7		
			pP	21 21 14.5	1.2		
SNY	39.4	354	+P	21 20 44.0	0.0		
LZH	40.4	329	+iP	21 20 54.0	1.3		
			PMZ	m_b=5.4		2.0	0.17
			pP	21 21 25.5	0.2		
HHC	41.1	340	eP	21 20 57.0	−1.2		
BTO	41.4	339	eP	21 21 00.0	−0.8		
GTA	45.0	328	+iP	21 21 30.0	0.1		
			PcP	21 23 09.0	1.1		
WMQ	54.7	325	P	21 22 43.3	−0.1		
			pP	21 23 19.5	1.9		
			PcP	21 23 42.4	−0.9		
KSH	60.2	315	eP	21 23 22.2	0.4		
			sP	21 24 11.0	−2.3		
			eS	21 31 23.0	0.8		

JUL 18d 02h 08m 55.8±0.12s, SD1.71/60
9.00 S±1.95km, 156.47 E±3.71km, h35±0.91km
D'Entrecasteaux Islands region (194)
m_b5.5/3,

SSE	52.3	321	P	02 18 05.5	−0.8		

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			PMZ		$m_b = 5.0$		1.5	0.030
			S	02	25 20.0	−6.7		
			LZ		$M_S = 4.8$		20.0	0.93
NJ2	54.4	320	−P	02	18 22.2	0.3		
WHN	56.4	316	eP	02	18 37.0	0.5		
TIA	58.2	323	+P	02	18 48.0	−1.6		
MDJ	58.6	338	eP	02	18 51.0	−1.3		
GYA	59.8	308	P	02	19 03.4	2.7		
BJI	61.4	326	eP	02	19 11.0	−0.2		
			eS	02	27 28.0	−0.2		
			LZ		$M_S = 4.5$		24.0	0.39
TIY	62.1	321	P	02	19 15.5	−0.3		
			LZ		$M_S = 5.0$		22.0	1.17
KMI	62.3	304	−P	02	19 18.0	0.1		
CD2	64.2	311	+iP	02	19 30.9	0.9		
BTO	65.3	323	eP	02	19 37.0	−0.3		
LZH	66.8	316	+P	02	19 48.5	2.0		
			PMZ		$m_b = 5.6$		1.5	0.13
GTA	71.2	317	P	02	20 14.2	0.3		
WMQ	81.3	317	P	02	21 12.5	1.7		
KSH	88.4	310	eP	02	21 49.3	2.6		
			eS	02	32 33.0	4.5		

JUL 18d 02h 30m 26.9 ± 0.06s, SD1.18 / 31
22.05 S ± 2.31km, 69.92 W ± 2.48km, h5 ± km
Near coast of Northern Chile (122)

KSH	146.1	51	ePKP	02	50 11.0	2.4		
GTA	160.6	25	ePKP	02	50 29.6	0.6		
HHC	161.2	356	ePKP	02	50 30.0	0.5		
BTO	161.5	0	ePKP	02	50 30.0	0.2		
TIY	164.3	353	ePKP	02	50 33.5	0.9		
WHN	170.7	337	PKP	02	50 38.0	1.0		

JUL 18d 03h 05m 10.0 ± 0.09s, SD2.37 / 50
31.66 N ± 0.95km, 104.11 E ± 1.01km, h12 ± 0.14km
Sichuan Province (307)
M_S4.2 / 7, M_L4.6 / 13,

CD2	0.8	202	Pg	03	05 26.5	2.0		
			Sg	03	05 37.0	1.5		
			SMN		$M_L = 4.4$		0.4	11.8
			SME				0.4	11.9
LZH	4.4	357	Pn	03	06 20.0	2.4		
			Pg	03	06 31.0	2.9		
			Sn	03	07 13.5	2.6		
			Sg	03	07 31.0	2.3		
			SMN		$M_L = 4.4$		1.5	0.69
			SME				1.5	0.53
GYA	5.6	156	Pn	03	06 37.6	3.3		
			Sn	03	07 40.0	−1.0		
			SMN		$M_L = 4.6$		1.0	0.46
			SME				1.0	0.54
KMI	6.6	191	+Pn	03	06 43.5	−4.4		
			Sn	03	08 04.5	−0.8		
			SMN		$M_L = 4.4$		1.0	0.20
			SME				1.0	0.20
GTA	8.5	337	P	03	07 17.2	1.0		
			LN		$M_S = 3.9$		10.0	0.69
WHN	8.8	95	eP	03	07 21.7	0.8		
			pP	03	07 26.0	0.0		
			S	03	09 03.5	2.2		
			SMN		$M_L = 5.0$		1.5	0.49
			SME				0.8	0.13
			LE		$M_S = 4.2$		10.0	1.23
TIY	9.1	46	eP	03	07 22.2	−2.8		
BTO	10.1	26	eP	03	07 39.0	0.4		
			LN		$M_S = 4.3$		11.0	1.27
			LE				12.0	0.53
TIA	11.7	64	eP	03	07 59.8	−0.6		
GZH	11.8	134	P	03	08 01.0	−0.9		
BJI	12.9	46	P	03	08 20.0	4.2		
			eS	03	10 46.0	6.1		
			LN		$M_S = 4.1$		6.0	0.32
			LZ		$M_S = 3.7$		12.0	0.36
QZN	13.6	156	eP	03	08 26.8	1.3		
			eS	03	11 01.8	4.2		
			LN		$M_S = 4.2$		10.0	0.60
WMQ	17.7	318	eP	03	09 21.5	2.7		

JUL 18d 04h 45m 02.9 ± 0.09s, SD2.52 / 16
31.61 N ± 0.80km, 104.17 E ± 0.90km, h16 ± 0.21km
Sichuan Province (307)
M_L3.7 / 8,

CD2	0.8	207	Pg	04	45 16.8	−0.3		
			Sg	04	45 27.4	−0.6		
			SMN		$M_L = 3.7$		0.4	2.29
			SME				0.4	2.74
LZH	4.5	357	ePg	04	46 25.0	2.8		
			Sg	04	47 27.5	4.5		
			SMN		$M_L = 3.7$		1.5	0.14
			SME				2.0	0.13
GYA	5.6	156	Pn	04	46 30.0	4.0		
			Sn	04	47 30.4	−1.4		
			SMN		$M_L = 3.8$		1.0	0.080
			SME				1.0	0.090

JUL 18d 08h 41m 11.5 ± 0.08s, SD1.25 / 67
4.81 S ± 1.66km, 103.08 E ± 1.89km, h87 ± 0.70km
Southern Sumatera (274)
M_S5.0 / 3, m_b5.1 / 5,

QZN	24.6	16	−P	08	46 27.8	2.7		
			eS	08	50 39.0	1.6		
KMI	29.8	359	−P	08	47 13.5	1.1		
GYA	31.3	6	−P	08	47 26.2	0.5		
CD2	35.5	1	eP	08	48 01.1	−1.2		
WHN	36.8	16	eP	08	48 13.5	0.8		
			epP	08	48 33.5	0.5		
SSE	39.7	25	+P	08	48 38.0	1.1		
			PMZ		$m_b = 5.1$		1.0	0.030
			sS	08	55 10.0	0.9		
			LZ		$M_S = 4.6$		24.0	1.00
LZH	40.7	1	eP	08	48 46.0	0.6		
			PMZ		$m_b = 5.4$		1.5	0.090
			pP	08	49 02.0	−3.6		
			LZ		$M_S = 4.4$		18.0	0.52
TIA	42.9	17	eP	08	49 02.9	−0.3		
GTA	44.1	356	+P	08	49 13.3	0.0		
			LN		$M_S = 5.0$		14.0	0.80
BTO	45.6	7	eP	08	49 26.0	0.5		
			pP	08	49 49.0	3.1		
			eS	08	56 00.0	−1.3		
			LN		$M_S = 5.1$		12.0	0.70
			LE				12.0	0.50
BJI	46.2	14	eP	08	49 30.0	0.0		
			ePcP	08	51 05.0	0.8		
			eS	08	56 08.0	−1.5		
			LZ		$M_S = 4.7$		24.0	0.97
DL2	46.8	20	eP	08	49 36.0	1.7		
			LZ		$M_S = 4.5$		24.0	0.68
WMQ	50.3	346	P	08	50 02.0	−0.1		
			PcP	08	51 17.4	−1.6		
			S	08	57 06.0	−0.2		
KSH	50.7	333	P	08	50 04.7	−0.3		
			sS	08	57 51.0	2.2		
CN2	52.4	20	+P	08	50 16.8	−0.9		
			PcP	08	51 27.0	0.3		
MDJ	54.6	23	eP	08	50 33.2	−0.9		

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JUL 18d 13h 22m 10.2 ± 0.14s, SD1.54 / 68
54.71 N ± 3.35km, 168.54 E ± 1.50km, h24 ± 0.39km
Komandorsky Islands region (4)
M_S6.1 / 31, m_B6.0 / 4,

MDJ	26.8	264	eP	13 27 49.8	−1.4			
			pP	13 27 58.0	−0.7			
			S	13 32 25.0	1.4			
CN2	29.7	266	eP	13 28 17.8	0.7			
			sP	13 28 32.0	3.8			
			eS	13 33 10.0	−0.7			
			LN	M_S = 5.8		13.0	10.3	
SNY	32.0	265	eP	13 28 36.8	−0.7			
			LN	M_S = 6.0		13.0	11.2	
			LE			13.0	7.87	
DL2	35.0	263	eP	13 29 06.0	2.3			
			eS	13 34 35.0	1.0			
			SMN			24.0	3.13	
			SME			27.0	3.93	
			LN	M_S = 6.2		15.0	13.0	
			LE			13.0	11.8	
BJI	37.5	269	eP	13 29 27.0	3.0			
			ePP	13 30 53.0	1.2			
			eS	13 35 10.0	−1.0			
			LN	M_S = 6.2		13.0	5.60	
			LE			12.0	13.2	
			LZ	M_S = 5.9		15.0	14.6	
TIA	39.5	264	eP	13 29 40.9	−0.2			
			S	13 35 44.0	2.9			
			SMN			14.0	0.70	
			SS	13 38 30.5	1.9			
			LN	M_S = 6.2		14.0	6.05	
			LE			14.0	13.3	
HHC	39.6	274	eP	13 29 40.0	−2.1			
			LN	M_S = 6.2		12.0	6.22	
			LE			12.0	12.8	
BTO	40.7	275	eP	13 29 52.0	1.1			
			sP	13 30 05.0	3.1			
			PP	13 31 27.0	−0.7			
			S	13 36 01.0	2.6			
			sS	13 36 15.0	2.8			
			SS	13 38 55.0	0.5			
			LN	M_S = 6.6		15.0	31.2	
			LE			15.0	24.3	
TIY	41.2	269	eP	13 29 56.0	0.9			
			PP	13 31 30.0	−3.0			
			S	13 36 06.5	0.4			
			SMN			13.0	1.68	
			LN	M_S = 6.2		14.0	14.6	
NJ2	41.5	258	eP	13 29 57.2	−0.5			
			S	13 36 14.0	3.0			
			LN	M_S = 6.0		13.0	8.38	
			LE			13.0	3.39	
			LZ	M_S = 5.6		16.0	6.20	
WHN	45.2	260	eP	13 30 29.0	1.3			
			sP	13 30 42.0	3.2			
			eS	13 37 06.0	0.3			
			LE	M_S = 6.0		14.0	8.10	
LZH	47.3	275	eP	13 30 45.0	0.7			
			eS	13 37 40.0	4.2			
			LN	M_S = 6.5		15.0	17.1	
			LE			15.0	16.0	
GTA	47.3	281	P	13 30 43.8	−0.7			
			pP	13 30 51.0	−1.2			
			S	13 37 35.0	0.2			
			sS	13 37 49.0	0.1			
			LE	M_S = 6.3		15.0	14.3	
CD2	51.0	270	eP	13 31 11.8	−1.4			
			S	13 38 33.2	6.2			
			LE	M_S = 6.4		14.0	15.6	
WMQ	51.0	293	eP	13 31 13.0	−0.3			
			S	13 38 31.0	4.0			
GYA	52.7	264	P	13 31 25.6	−0.1			
			pP	13 31 36.0	2.6			
			S	13 38 49.1	−0.5			
			LN	M_S = 6.0		15.0	5.80	
			LE			15.0	3.90	
KMI	56.0	266	eP	13 31 49.5	−0.4			
			sS	13 39 44.0	−4.1			
			LN	M_S = 5.9		15.0	5.20	
QZN	56.7	255	eP	13 31 56.0	1.2			
			PcP	13 32 50.0	0.2			
			S	13 39 44.5	1.2			
			sS	13 39 59.0	1.5			
			LN	M_S = 5.9		13.0	1.80	
			LE			14.0	3.70	

JUL 18d 14h 45m 58.9 ± 0.13s, SD1.87 / 52
19.97 N ± 1.71km, 122.13 E ± 2.07km, h5 ± 0.51km
Philippine Islands region (248)
M_S5.0 / 8,

GZH	8.7	292	P	14 48 11.5	2.3			
QZN	11.6	267	eP	14 48 47.7	−1.1			
			eS	14 50 58.1	−2.1			
			LN	M_S = 4.9		15.0	6.80	
WHN	12.7	328	eP	14 49 03.5	0.8			
			LN	M_S = 5.1		15.0	8.46	
KMI	18.6	290	eP	14 50 21.5	1.7			
TIY	19.6	337	+iP	14 50 29.5	−1.5			
CD2	19.8	307	eP	14 50 33.2	−0.3			
			LZ	M_S = 4.9		12.0	3.21	
BJI	20.6	347	P	14 50 44.0	1.8			
HHC	22.7	339	eP	14 51 01.2	−1.8			
LZH	22.7	319	eP	14 51 03.5	0.3			
BTO	23.0	336	eP	14 51 06.0	−0.3			
			sP	14 51 17.0	3.4			
			eS	14 55 09.0	−4.2			
			LN	M_S = 5.4		14.0	4.00	
			LE			12.0	4.40	
GTA	27.3	320	eP	14 51 49.0	2.3			
			LE	M_S = 5.0		13.0	1.67	
WMQ	37.3	317	eP	14 53 15.8	1.9			

JUL 18d 14h 48m 52.0 ± 0.11s, SD1.87 / 59
20.00 N ± 1.49km, 122.28 E ± 2.11km, h17 ± 0.39km
Philippine Islands region (248)
M_S5.2 / 17,

QZH	6.0	326	ePn	14 50 20.5	0.2			
			LZ	M_S = 4.7		20.0	12.5	
SSE	11.1	355	eP	14 51 35.0	1.7			
			pP	14 51 41.0	2.0			
			S	14 53 40.0	2.3			
			LN	M_S = 4.8		10.0	2.44	
			LE			10.0	2.20	
QZN	11.8	267	P	14 51 40.4	−2.1			
			eS	14 53 50.6	−3.9			
			LN	M_S = 4.9		13.5	5.50	
WHN	12.7	327	eP	14 51 55.0	−0.2			
GYA	15.7	297	P	14 52 35.0	0.2			
			pP	14 52 44.0	4.0			
			S	14 55 32.0	3.6			
			LN	M_S = 5.0		10.0	2.80	
			LE			10.0	2.10	
TIA	16.8	345	eP	14 52 46.7	−1.4			
KMI	18.7	289	eP	14 53 14.0	1.1			
			eS	14 56 36.0	−2.7			

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			LN		$M_S = 5.1$		14.0	4.30
DL2	18.9	358	eP	14	53 16.0	2.0		
			eS	14	56 41.0	0.3		
			LE		$M_S = 5.1$		12.0	4.06
TIY	19.6	336	+P	14	53 22.8	−0.1		
			LN		$M_S = 5.4$		13.0	6.40
			LE				11.0	1.61
BJI	20.7	347	eP	14	53 32.0	−1.8		
SNY	21.8	3	+P	14	53 48.0	2.6		
			pP	14	53 53.0	1.3		
			eS	14	57 47.0	6.1		
			LN		$M_S = 5.1$		11.0	1.64
			LE				11.0	1.99
HHC	22.7	339	eP	14	53 54.0	−0.7		
			LN		$M_S = 5.2$		12.0	2.44
			LE				12.0	2.12
LZH	22.8	319	eP	14	53 57.5	2.1		
			LN		$M_S = 5.1$		8.0	1.40
			LE				10.0	1.60
BTO	23.1	336	P	14	53 57.5	−0.6		
			pP	14	54 08.5	4.3		
			PP	14	54 30.0	2.7		
			S	14	58 01.0	−2.2		
			LN		$M_S = 5.4$		12.0	3.10
			LE				12.0	4.70
CN2	23.9	6	eP	14	54 06.5	0.5		
			eS	14	58 17.0	−1.5		
			LN		$M_S = 5.2$		11.0	2.90
MDJ	25.3	12	eP	14	54 20.0	0.4		
GTA	27.3	320	eP	14	54 38.0	−0.8		
WMQ	37.3	317	eP	14	56 07.3	1.3		
			S	15	01 53.0	1.2		
			LN		$M_S = 5.3$		11.0	1.06
			LE				10.0	1.17

JUL 18d 17h 17m 16.5 ± 0.11s, SD1.80 / 41
20.13 N ± 1.89km, 122.29 E ± 2.02km, h28 ± 0.70km
Philippine Islands region (248)
M_S4.6 / 6, M_L3.7 / 3,

QZH	5.9	325	ePn	17	18 43.0	0.6		
			LZ		$M_S = 4.2$		20.0	4.37
QZN	11.8	267	eP	17	20 04.3	−1.7		
			eS	17	22 12.6	−5.0		
			LN		$M_S = 4.5$		15.0	2.30
WHN	12.6	327	P	17	20 14.8	−2.3		
GYA	15.7	297	P	17	20 57.0	−0.4		
TIY	19.5	336	+iP	17	21 45.0	0.3		
			eS	17	25 12.5	−5.8		
			LN		$M_S = 4.7$		12.5	1.19
			LE				13.0	0.79
BJI	20.5	347	eP	17	21 55.0	−0.6		
			eS	17	25 36.0	−3.1		
			LZ		$M_S = 4.3$		16.0	0.88
HHC	22.6	338	eP	17	22 17.3	0.8		
			LN		$M_S = 4.7$		12.0	0.81
			LE				12.0	0.64
LZH	22.7	318	eP	17	22 19.5	2.0		
BTO	22.9	335	eP	17	22 20.0	0.0		
			pP	17	22 30.0	2.2		
			eS	17	26 20.0	−4.3		
			LN		$M_S = 4.9$		14.0	1.60
			LE				12.0	0.80
WMQ	37.2	317	eP	17	24 29.5	1.3		

JUL 19d 01h 00m 21.0 ± 0.11s, SD1.10 / 89
19.64 S ± 2.40km, 174.77 W ± 1.82km, h158 ± 1.39km
Tonga (173)
m_B6.4 / 32, m_b6.2 / 14,

QZH	78.5	302	+P	01	12 06.0	−0.9		
			PMZ		$m_B = 6.3$		8.0	4.31
			S	01	21 50.0	2.5		
			SMN		$m_B = 6.0$		12.0	2.19
SSE	79.5	308	−iP	01	12 11.0	−1.2		
			PMZ		$m_B = 6.2$		6.0	2.95
			S	01	22 00.0	2.0		
			LZ				20.0	2.32
MDJ	81.6	323	+P	01	12 23.0	−0.4		
			PMZ		$m_B = 6.5$		7.0	6.30
NJ2	81.7	308	+P	01	12 24.0	0.1		
			S	01	22 23.0	2.3		
			LZ				29.0	1.82
DL2	83.2	315	+iP	01	12 31.0	−0.7		
			PMZ		$m_B = 6.4$		7.0	4.40
			ePP	01	15 44.0	−1.8		
			S	01	22 40.0	4.0		
			SMN		$m_B = 6.4$		8.0	1.36
			SME				10.0	3.37
			LN				18.0	2.88
QZN	83.3	293	+P	01	12 32.5	0.4		
			PMZ		$m_B = 6.0$		7.5	1.90
			eS	01	22 44.0	5.5		
			SS	01	28 14.0	5.6		
CN2	83.5	321	+iP	01	12 32.8	−0.4		
			PMZ		$m_B = 6.2$		5.0	2.00
			eS	01	22 42.0	1.4		
SNY	83.5	319	+iP	01	12 33.0	−0.3		
			PMZ		$m_B = 6.5$		6.0	4.71
			S	01	22 42.0	2.8		
			SMN		$m_B = 6.5$		7.0	2.34
			SME				10.0	2.98
WHN	84.4	305	+iP	01	12 38.2	0.6		
			PMZ		$m_b = 6.0$		1.0	0.24
			S	01	22 52.0	4.3		
TIA	85.0	311	P	01	12 40.5	0.0		
			PMZ		$m_B = 6.4$		6.0	3.70
			S	01	22 53.2	0.0		
BJI	87.4	314	+iP	01	12 52.5	0.1		
			PMZ		$m_B = 6.7$		5.0	4.71
			eSKS	01	23 04.0	2.3		
			eS	01	23 24.0	5.5		
			LZ				22.0	1.44
GYA	88.9	298	P	01	13 00.2	0.8		
TIY	89.0	311	+iP	01	13 00.5	0.6		
			PMZ		$m_b = 6.4$		1.8	0.84
			SKS	01	23 18.0	6.7		
			SMN		$m_B = 6.3$		7.0	1.75
HHC	90.9	313	P	01	13 10.0	0.9		
			PMZ		$m_B = 6.6$		4.0	2.50
KMI	91.7	296	+P	01	13 14.0	1.4		
			PMZ		$m_B = 6.2$		6.0	1.40
			S	01	24 02.0	6.8		
			LZ				20.0	2.20
BTO	91.9	313	+iP	01	13 14.0	0.4		
			PMZ		$m_B = 6.5$		6.0	2.50
			ePP	01	16 57.0	0.6		
CD2	92.9	302	P	01	13 18.5	0.4		
			PMZ		$m_B = 6.4$		6.0	1.81
			SKS	01	23 39.0	4.9		
LZH	94.7	307	eP	01	13 27.0	0.7		
			PMZ		$m_b = 6.5$		2.5	0.71
			eSKS	01	23 50.0	6.1		
			SME		$m_B = 6.0$		9.0	0.94
GTA	98.8	309	P	01	13 45.0	0.0		
			PMZ		$m_B = 6.2$		7.0	0.72
			SKS	01	24 06.0	0.5		
			LZ				38.0	3.81

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KSH	116.9	305	PKP	01 18 50.0	2.0			

JUL 19d 04h 47m 47.9 ± 0.11s, SD3.43 / 8
37.60 N ± 1.04km, 114.95 E ± 0.82km, h18 ± 0.55km
North-Eastern China (658)
M_L3.1 / 8,

TIA	2.2	128	Pn	04 48 20.9	−3.5			
			Pg	04 48 24.3	−3.0			
			Sg	04 48 50.8	−7.0			
			SMN	M_L = 3.3		0.4	0.20	
			SME			0.4	0.24	

JUL 19d 06h 00m 38.7 ± 0.21s, SD1.40 / 31
51.35 N ± 1.87km, 175.17 W ± 1.14km, h34 ± 1.89km
Andreanof Islands (7)

CN2	39.8	283	−P	06 08 10.4	−0.1			
SNY	42.0	282	−iP	06 08 30.6	1.6			
BJI	47.6	284	eP	06 09 13.0	−0.7			
HHC	49.9	288	eP	06 09 32.4	0.9			
TIY	51.3	284	−iP	06 09 43.9	1.4			
LZH	57.6	289	eP	06 10 28.5	0.3			
WMQ	61.3	305	P	06 10 52.6	−0.9			
GYA	62.6	279	P	06 11 02.0	−0.5			

JUL 19d 06h 03m 38.1 ± 0.17s, SD1.82 / 13
51.16 N ± 1.39km, 174.97 W ± 1.40km, h46 ± 1.65km
Andreanof Islands (7)

SNY	42.2	282	−iP	06 11 28.9	0.5			
BTO	51.1	289	eP	06 12 38.7	−0.4			
LZH	57.7	289	eP	06 13 27.0	−0.5			

JUL 19d 08h 11m 18.9 ± 0.06s, SD2.29 / 6
25.87 N ± 0.28km, 101.12 E ± 0.37km, h6 ± 0.55km
Yunnan Province (318)
M_L3.1 / 4,

CD2	5.5	24	ePn	08 12 45.0	2.8			
			Sn	08 13 51.6	3.3			
			SME	M_L = 3.3		1.2	0.030	

JUL 19d 10h 54m 40.0 ± 0.12s, SD1.62 / 59
50.45 N ± 4.11km, 130.26 W ± 1.87km, h14 ± 0.42km
Vancouver Island region (25)
M_S5.7 / 14, m_b5.6 / 5,

MDJ	62.8	308	eP	11 05 06.0	−1.8			
			LZ	M_S = 5.6		24.0	5.70	
CN2	65.4	309	eP	11 05 24.8	−0.3			
			pP	11 05 31.0	−0.4			
			eS	11 14 05.0	−2.9			
			LE	M_S = 5.6		21.0	2.40	
SNY	67.8	309	+P	11 05 39.6	−0.7			
			S	11 14 36.0	0.5			
			LZ	M_S = 5.5		22.0	2.96	
BJI	72.8	313	eP	11 06 11.0	0.6			
			ePP	11 08 52.5	−1.0			
			eS	11 15 36.0	1.2			
			eSKS	11 16 12.0	2.5			
			LE	M_S = 5.5		14.0	1.19	
			LZ	M_S = 5.4		20.0	2.06	
HHC	74.2	316	eP	11 06 19.5	0.4			
			LN	M_S = 5.6		15.0	1.41	
BTO	75.1	317	eP	11 06 24.0	−0.3			
			sP	11 06 29.5	−3.7			
			LN	M_S = 6.0		17.0	3.10	
			LE			17.0	2.90	
TIA	75.3	309	eP	11 06 25.2	−0.2			
			LE	M_S = 6.3		19.0	9.50	
TIY	76.4	314	−P	11 06 34.6	3.2			
			S	11 16 19.5	5.9			
			LN	M_S = 5.7		15.0	1.66	
SSE	77.3	304	P	11 06 39.0	2.7			
			PMZ	m_b = 5.6		1.5	0.10	
			LZ	M_S = 5.4		20.0	1.85	
GTA	80.3	323	eP	11 06 52.2	−1.0			
			eS	11 16 59.0	1.4			
			LE	M_S = 5.5		16.0	1.09	
WMQ	80.5	333	P	11 06 55.0	1.1			
			SKS	11 17 06.0	0.6			
			LN	M_S = 5.7		15.0	0.89	
			LE			18.0	1.62	
WHN	81.2	308	eP	11 07 01.0	3.1			
			pP	11 07 04.5	0.5			
			LZ	M_S = 5.5		40.0	4.50	
LZH	81.5	318	eP	11 07 00.0	0.4			
			PMZ	m_b = 5.7		1.5	0.11	
			LZ	M_S = 5.3		32.0	2.06	
KSH	87.5	340	eP	11 07 33.0	3.4			
			eS	11 18 10.0	0.7			
			LE	M_S = 6.0		14.0	2.40	
GYA	88.4	311	P	11 07 37.4	3.5			
KMI	91.4	314	eP	11 07 51.5	3.5			

JUL 19d 13h 58m 49.2 ± 0.50s, SD2.62 / 5
22.95 N ± 3.41km, 118.81 E ± 1.33km, h15 ± km
Taiwan region (243)
M_L3.4 / 5,

QZH	2.0	354	−iPg	13 59 22.5	−2.1			
			Sn	13 59 42.2	−7.4			
			SMN	M_L = 3.6		0.1	0.31	
			SME			0.1	0.67	

JUL 19d 14h 58m 56.6 ± 0.06s, SD0.80 / 37
3.00 S ± 0.75km, 101.39 E ± 0.93km, h90 ± 0.79km
Southern Sumatera (274)

GTA	42.2	358	P	15 06 43.0	0.0			
BJI	44.9	16	eP	15 07 05.5	0.8			
WMQ	48.2	347	P	15 07 31.2	0.6			
CN2	51.4	22	eP	15 07 54.0	−0.6			

JUL 19d 16h 30m 56.8 ± 0.12s, SD2.50 / 24
60.45 S ± 3.64km, 26.78 W ± 3.25km, h19 ± 0.32km
South Sandwich Islands region (153)

GTA	141.1	98	ePKP	16 50 27.8	0.4			
TIY	145.8	113	ePKP	16 50 35.0	−0.4			
			ePP	16 53 56.0	−3.3			
TIA	146.6	120	PKP	16 50 40.8	4.1			
BTO	146.9	107	ePKP	16 50 37.5	0.1			
HHC	147.9	109	ePKP	16 50 41.5	2.6			
BJI	149.3	115	ePKP	16 50 42.5	1.4			

JUL 20d 05h 13m 46.0 ± 0.08s, SD0.98 / 69
1.74 N ± 1.19km, 126.38 E ± 1.58km, h68 ± 0.17km
Molucca Passage (266)
m_b5.0 / 4,

QZN	23.6	318	−P	05 18 53.0	1.1			
			eS	05 22 56.5	−1.9			
SSE	29.6	351	P	05 19 45.0	−2.3			
			PMZ	m_b = 5.0		1.1	0.030	
			eS	05 24 39.0	2.4			
			LZ	M_S = 4.1		22.0	0.48	
WHN	30.8	339	eP	05 19 58.5	0.4			
			LZ	M_S = 4.5		28.0	1.56	
GYA	31.0	324	P	05 20 00.0	−0.1			
KMI	32.6	318	−P	05 20 14.5	0.9			
TIA	35.4	347	eP	05 20 36.8	−0.5			
CD2	36.1	326	P	05 20 42.8	−0.5			
DL2	37.2	354	eP	05 20 54.5	1.3			

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			eS	05 26 36.0	0.8			
			LZ	M_S=4.5		16.0	0.65	
TIY	38.0	342	eP	05 21 00.4	0.6			
BJI	39.2	348	eP	05 21 09.0	−0.8			
			ePcP	05 23 20.5	2.8			
			eS	05 27 04.0	−1.3			
			LZ	M_S=4.0		28.0	0.35	
SNY	40.0	357	+P	05 21 16.4	0.4			
LZH	40.0	331	eP	05 21 18.0	1.3			
			PMZ	m_b=5.7		1.0	0.11	
			pP	05 21 34.0	1.1			
HHC	41.2	343	P	05 21 27.0	1.0			
CN2	41.9	359	eP	05 21 31.0	−0.7			
MDJ	42.8	3	eP	05 21 39.0	−0.1			
GTA	44.6	330	P	05 21 53.6	−0.5			
WMQ	54.1	326	P	05 23 07.0	−0.1			
			S	05 30 40.0	3.7			
KSH	59.2	316	eP	05 23 43.5	0.1			
			eS	05 31 44.0	−1.1			

JUL 20d 06h 20m 51.0±0.08s, SD1.41/82
37.19 N±1.61km, 72.85 E±1.31km, h39±0.22km
Afghanistan–USSR border region (717)
M_S5.3/31, M_L5.3/2, m_B5.4/2,

WMQ	13.1	55	P	06 23 56.0	−1.3			
			S	06 26 22.5	0.8			
			LN	M_S=5.6		7.0	9.83	
			LE			7.0	6.26	
GTA	21.3	76	+P	06 25 35.2	−1.2			
			LE	M_S=5.3		10.0	4.20	
LZH	24.8	83	P	06 26 12.5	0.8			
			PMZ	m_b=5.5		2.0	0.41	
			eS	06 30 28.0	−1.5			
			LN	M_S=5.3		11.0	3.40	
CD2	26.3	95	eP	06 26 24.8	−0.4			
			S	06 30 57.6	5.4			
			LN	M_S=5.4		12.0	4.36	
KMI	28.1	107	+P	06 26 45.0	2.7			
			sP	06 26 59.0	2.5			
			eS	06 31 26.0	2.5			
			sS	06 31 46.0	5.8			
			LN	M_S=5.2		13.0	2.80	
BTO	29.0	72	P	06 26 50.0	0.3			
			sP	06 27 03.0	−1.2			
			PP	06 27 42.0	−1.3			
			S	06 31 39.0	3.3			
			LN	M_S=5.7		14.0	5.70	
			LE			16.0	7.00	
HHC	30.1	71	eP	06 27 00.0	0.1			
			LN	M_S=5.3		10.0	1.20	
			LE			10.0	1.61	
GYA	30.5	101	P	06 27 05.0	1.8			
			pP	06 27 13.0	−0.3			
			S	06 32 04.0	4.2			
			LN	M_S=5.4		13.0	3.50	
			LE			13.0	1.50	
TIY	31.3	77	+P	06 27 12.0	2.1			
			pP	06 27 23.0	3.1			
			S	06 32 17.0	5.3			
			SME	m_B=5.3		6.0	0.45	
			LN	M_S=5.2		11.0	1.90	
BJI	33.7	72	eP	06 27 30.5	−0.7			
			PcP	06 30 10.0	0.4			
			eS	06 32 52.0	1.0			
			LN	M_S=5.4		15.0	2.20	
			LE			15.0	3.20	
			LZ	M_S=5.3		17.0	5.00	
WHN	34.9	88	eP	06 27 43.0	1.9			
			pP	06 27 53.5	2.1			
			eS	06 33 12.0	3.2			
			LN	M_S=5.2		11.0	1.54	
TIA	35.3	78	P	06 27 47.7	3.2			
			S	06 33 19.0	5.0			
			LN	M_S=5.2		12.0	1.56	
			LE			12.0	0.62	
QZN	37.0	109	eP	06 28 01.6	2.4			
			eS	06 33 43.5	1.8			
			LN	M_S=5.4		20.0	2.60	
			LE			19.0	2.40	
NJ2	37.9	84	+P	06 28 05.6	−1.1			
			eS	06 33 54.0	−1.4			
			LN	M_S=5.1		12.0	0.74	
			LE			14.0	1.15	
DL2	38.1	72	eP	06 28 09.0	0.8			
			epP	06 28 20.0	1.4			
			S	06 34 00.0	2.9			
			LN	M_S=5.3		15.0	1.84	
			LE			17.0	1.83	
SNY	39.0	67	eP	06 28 14.6	−0.8			
			S	06 34 08.5	−1.7			
			LN	M_S=5.5		13.0	2.64	
			LE			15.0	1.55	
CN2	40.0	64	eP	06 28 24.0	0.1			
			eS	06 34 30.0	3.4			
			LZ	M_S=5.5		15.0	4.80	
SSE	40.1	84	P	06 28 28.0	3.0			
			PMZ	m_b=5.5		1.0	0.070	
			eS	06 34 28.0	−0.7			
			LN	M_S=5.2		14.0	1.54	
MDJ	42.8	62	eP	06 28 47.0	0.1			
			pP	06 28 57.0	−0.4			
			S	06 35 07.0	0.1			
			LZ	M_S=5.6		12.0	5.06	

JUL 20d 14h 51m 07.7±0.09s, SD1.09/58
51.97 N±3.11km, 170.07 W±1.47km, h31±1.21km
Fox Islands (9)
M_S5.0/6, m_b5.1/2,

SNY	45.0	284	eP	14 59 23.0	0.7			
BJI	50.5	287	eP	15 00 05.5	0.2			
			eS	15 07 20.0	3.9			
			LN	M_S=5.2		19.0	1.40	
			LZ	M_S=4.8		18.0	0.89	
TIA	52.4	283	eP	15 00 19.3	−0.6			
SSE	53.4	275	P	15 00 28.4	1.2			
			PMZ	m_b=5.2		1.0	0.030	
			eS	15 08 02.0	5.8			
			sS	15 08 16.0	4.7			
			LZ	M_S=4.5		20.0	0.46	
BTO	53.7	292	P	15 00 31.4	1.7			
TIY	54.2	287	eP	15 00 34.0	0.7			
			eS	15 08 07.0	−0.4			
			sS	15 08 18.0	−4.3			
			LN	M_S=5.0		16.0	0.65	
WHN	58.0	280	eP	15 01 00.6	0.3			
			sP	15 01 14.0	0.8			
			eS	15 09 01.0	3.8			
GTA	60.3	297	eP	15 01 16.0	−0.4			
			LN	M_S=5.1		16.0	0.71	
LZH	60.3	292	eP	15 01 18.0	1.2			
			PMZ	m_b=5.1		2.0	0.050	
			LZ	M_S=4.7		18.0	0.52	
WMQ	63.4	308	P	15 01 37.0	−0.5			
			eS	15 10 06.0	−1.2			
			LZ	M_S=5.0		18.0	0.92	
CD2	64.1	288	eP	15 01 40.2	−1.5			

GYA	65.6	282	P	15 01 51.6	0.1			
KMI	69.0	284	eP	15 02 14.0	1.2			

JUL 20d 18h 19m 57.8 ± 0.12s, SD1.01 / 66
13.17 N ± 1.24km, 143.90 E ± 1.24km, h132 ± 0.62km
South of the Marianas (210)
m_b5.3 / 6,

SSE	27.5	314	P	18 25 36.0	2.0			
			PMZ	m_b = 4.9		1.0	0.030	
			eS	18 30 06.0	2.3			
NJ2	29.7	313	+P	18 25 53.0	−0.5			
WHN	32.3	307	P	18 26 17.0	0.6			
DL2	32.3	326	P	18 26 17.5	0.6			
			eS	18 31 20.0	−0.3			
CN2	34.4	336	eP	18 26 35.0	0.4			
BJI	36.2	323	+P	18 26 49.5	−0.3			
TIY	37.2	317	+P	18 26 58.5	0.4			
			PMZ	m_b = 5.3		1.0	0.060	
			pP	18 27 30.0	3.0			
			S	18 32 35.0	1.2			
GYA	37.3	296	+P	18 27 00.6	1.4			
			PcP	18 29 16.2	0.6			
XAN	37.9	309	P	18 27 03.9	−0.4			
KMI	40.5	293	+P	18 27 27.0	1.1			
CD2	40.9	302	+iP	18 27 29.2	0.1			
LZH	42.6	310	eP	18 27 43.5	0.9			
			PMZ	m_b = 5.6		1.5	0.15	
GTA	46.7	312	+iP	18 28 16.0	−0.1			
WMQ	56.7	314	P	18 29 30.0	−0.7			
			PcP	18 30 24.5	0.3			
			eS	18 37 07.0	−4.7			
KSH	64.8	308	eP	18 30 26.0	0.8			

JUL 20d 19h 56m 52.2 ± 0.18s, SD2.94 / 29
25.83 N ± 1.77km, 101.11 E ± 1.27km, h10 ± 0.26km
Yunnan Province (318)
M_L3.7 / 7,

KMI	1.6	115	−Pg	19 57 23.5	2.1			
			Sg	19 57 47.0	3.5			
			SMN	M_L = 4.2		1.0	2.30	
			SME			1.0	2.80	
GYA	5.0	82	Pn	19 58 13.0	4.7			
			Sn	19 59 09.6	1.0			
			SMN	M_L = 3.7		1.2	0.080	
			SME			1.2	0.10	
CD2	5.6	24	Pn	19 58 18.5	2.8			
			Pg	19 58 34.0	3.4			
			Sn	19 59 26.0	4.0			
			Sg	19 59 47.0	0.1			
XAN	10.6	38	P	19 59 23.7	−4.2			
WHN	12.6	65	eP	19 59 55.5	1.0			
BJI	19.0	38	eP	20 01 16.0	−0.3			

JUL 20d 20h 35m 41.2 ± 0.10s, SD1.75 / 17
36.07 N ± 2.27km, 141.45 E ± 1.24km, h48 ± 1.23km
Near east coast of Honshu (228)

BJI	20.3	289	eP	20 40 14.0	−1.6			
XAN	26.6	275	P	20 41 18.5	0.7			
GTA	32.9	289	eP	20 42 13.2	−0.3			
WMQ	41.3	298	P	20 43 26.2	2.0			

JUL 20d 23h 15m 35.5 ± 0.09s, SD1.85 / 104
23.99 N ± 1.43km, 121.61 E ± 1.38km, h47 ± 0.70km
Taiwan (244)
M_S6.0 / 44, m_B6.1 / 11, m_b5.9 / 7,

QZH	2.9	290	+P	23 16 20.0	−0.6			
			S	23 16 55.0	1.5			
SSE	7.1	357	−iP	23 17 17.0	−2.4			
			PMZ	m_b = 5.8		0.6	0.24	
			sP	23 17 31.0	−2.8			
			S	23 18 36.0	−2.3			
			LN	M_S = 6.1		6.0	20.0	
			LE			6.0	87.9	
GZH	7.6	265	+iP	23 17 26.6	−0.4			
			S	23 18 46.8	−5.3			
			LZ	M_S = 5.7		14.0	68.5	
NJ2	8.4	344	−P	23 17 35.0	−2.4			
			S	23 19 06.0	−4.7			
			LE	M_S = 5.9		10.0	74.8	
WHN	9.2	317	eP	23 17 45.7	−2.6			
			PMZ	m_b = 5.8		1.0	0.25	
			pP	23 17 54.0	−1.2			
			sP	23 18 00.0	−2.9			
QZN	12.0	248	+iP	23 18 27.0	0.1			
			S	23 20 43.2	3.9			
			LN	M_S = 5.8		17.0	46.9	
			LE			17.0	29.7	
TIA	12.8	343	eP	23 18 34.8	−2.4			
			LN	M_S = 5.9		12.0	41.1	
GYA	13.7	283	+P	23 18 50.6	0.5			
			pP	23 18 59.0	0.5			
			S	23 21 14.0	−7.0			
			LN	M_S = 6.2		12.0	30.1	
			LE			12.0	72.1	
DL2	14.9	0	+P	23 19 07.0	2.4			
			pP	23 19 15.0	1.7			
			sP	23 19 19.0	−0.4			
			LN	M_S = 5.8		13.0	23.6	
			LE			7.0	5.46	
TIY	15.8	332	eP	23 19 15.5	−0.8			
			PP	23 19 32.0	3.3			
			S	23 22 09.0	0.6			
			sS	23 22 26.0	2.4			
			LN	M_S = 6.1		12.0	38.8	
			LE			10.0	23.3	
BJI	16.6	345	eP	23 19 31.0	3.8			
			LN	M_S = 5.9		13.0	26.0	
			LE			13.0	9.70	
			LZ	M_S = 5.8		14.0	35.0	
KMI	17.2	278	+P	23 19 35.0	0.5			
			pP	23 19 43.0	−0.5			
			PP	23 19 50.0	1.5			
			eS	23 22 46.0	3.5			
			sS	23 22 57.0	−0.1			
			LE	M_S = 6.2		11.0	50.0	
CD2	17.3	297	+iP	23 19 35.0	−0.1			
			LE	M_S = 6.1		10.0	36.3	
SNY	17.9	5	+P	23 19 43.5	1.0			
			PMZ	m_B = 5.6		8.0	2.70	
			pP	23 19 53.0	1.2			
			S	23 22 56.5	0.2			
			SME	m_B = 5.9		11.5	6.28	
			LE	M_S = 5.8		12.0	20.3	
HHC	18.8	336	P	23 19 55.0	1.0			
			S	23 23 22.0	4.6			
BTO	19.2	332	+iP	23 20 00.0	1.3			
			PMZ	m_B = 6.0		6.0	4.90	
			sP	23 20 14.5	0.5			
			iS	23 23 30.0	2.7			
			sS	23 23 45.0	2.5			
			LN	M_S = 6.3		12.0	39.0	
			LE			12.0	33.0	
LZH	19.5	312	+iP	23 20 03.5	1.5			
			PMZ	m_b = 6.3		2.5	3.96	
			pP	23 20 14.0	2.2			
			S	23 23 39.0	5.9			

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			SMN		$m_B = 6.2$	9.0	7.72
			LN		$M_S = 6.3$	11.0	27.6
			LE			15.0	62.3
CN2	20.0	8	+P	23 20 07.5	0.2		
			pP	23 20 17.0	−0.8		
			eS	23 23 46.0	1.4		
			LN		$M_S = 5.8$	13.0	19.0
MDJ	21.6	16	eP	23 20 23.0	−0.4		
			pP	23 20 34.0	−0.5		
			S	23 24 19.0	5.3		
			LE		$M_S = 6.1$	16.0	36.9
GTA	24.0	315	+iP	23 20 42.8	−4.4		
			PMZ		$m_B = 6.1$	6.0	4.73
			pP	23 20 57.5	−0.9		
			sP	23 21 02.0	−1.5		
			S	23 25 01.5	4.6		
			sS	23 25 12.0	−4.7		
			LE		$M_S = 6.2$	13.0	32.8
LSA	27.7	289	+P	23 21 24.0	1.6		
			LE		$M_S = 5.8$	16.0	13.8
WMQ	34.1	314	P	23 22 19.0	1.1		
			pP	23 22 32.0	2.4		
			PP	23 23 36.0	4.1		
			S	23 27 44.0	5.9		
			LN		$M_S = 6.4$	12.0	11.8
			LE			12.0	22.2
KSH	41.4	303	+iP	23 23 22.0	2.7		
			pP	23 23 33.0	2.0		
			eS	23 29 33.0	2.6		
			LE		$M_S = 6.5$	14.0	32.5

JUL 21d 06h 22m 39.1 ± 0.12s, SD1.86 / 43
3.22 S ± 1.50km, 129.81 E ± 3.05km, h100 ± 0.28km
Seram (272)

GYA	37.0	324	P	06 29 42.2	0.8
KMI	38.5	319	−P	06 29 55.0	1.2
CD2	42.1	326	eP	06 30 22.1	−0.7
TIY	43.8	340	eP	06 30 36.4	−0.7
BJI	44.8	345	eP	06 30 44.0	−1.2
LZH	46.0	330	eP	06 30 54.5	−0.3
GTA	50.6	330	P	06 31 29.4	−1.0
WMQ	60.1	326	P	06 32 39.0	−0.1

JUL 21d 11h 44m 07.3 ± 0.18s, SD2.37 / 16
22.85 S ± 3.08km, 111.76 W ± 15.24km, h5 ± km
Easter Island region (685)

GYA	145.0	284	PKP	12 03 46.8	−0.2
LZH	146.5	301	ePKP	12 03 49.5	−0.2
CD2	147.4	292	ePKP	12 03 51.0	−0.1
GTA	148.5	309	PKP	12 03 56.2	3.3
WMQ	153.6	327	ePKP	12 04 01.0	0.5

JUL 21d 12h 26m 41.4 ± 0.03s, SD2.29 / 5
43.81 N ± 0.29km, 87.29 E ± 0.20km, h12 ± 0.13km
Northern Xinjiang Province (332)
M_L3.3 / 1,

WMQ	0.3	89	−iPg	12 26 46.0	−1.3
			Sg	12 26 57.0	5.5

JUL 21d 17h 51m 17.1 ± 0.15s, SD1.83 / 18
4.44 N ± 2.02km, 96.52 E ± 1.49km, h43 ± 0.48km
Northern Sumatera (706)

QZN	19.5	41	eP	17 55 43.0	−0.4
			eS	17 59 13.0	−2.3
			sS	17 59 32.0	2.2
GYA	24.0	23	P	17 56 32.0	3.3
XAN	31.6	20	P	17 57 38.4	−0.3
GTA	34.9	4	eP	17 58 05.2	−2.3
BJI	39.6	24	eP	17 58 47.5	0.8
CN2	46.8	29	eP	17 59 45.4	0.8

JUL 21d 18h 39m 31.5 ± 0.09s, SD1.69 / 93
22.62 N ± 1.47km, 121.61 E ± 1.33km, h39 ± 0.81km
Taiwan region (243)
M_S5.0 / 39, M_L5.1 / 7, m_B5.6 / 4,

QZH	3.6	311	−P	18 40 25.7	−0.7		
			iS	18 41 05.5	−2.2		
			SMN		$M_L = 5.1$	1.5	5.48
			SME			1.5	4.43
GZH	7.6	275	+iP	18 41 21.2	−1.9		
			S	18 42 43.5	−5.2		
			LZ		$M_S = 4.6$	19.0	7.04
SSE	8.5	358	eP	18 41 32.5	−2.0		
			sP	18 41 47.0	−0.5		
			eS	18 43 02.8	−6.4		
			SMN		$M_L = 4.8$	1.0	0.21
			SME			1.0	0.22
			LN		$M_S = 5.0$	9.0	8.49
NJ2	9.7	346	−P	18 41 50.0	−1.8		
			S	18 43 37.0	−3.2		
			LN		$M_S = 4.8$	9.0	2.28
			LE			10.0	3.23
			LZ		$M_S = 4.6$	12.0	3.40
WHN	10.2	322	eP	18 41 58.0	−0.8		
			S	18 43 51.0	−1.6		
			LN		$M_S = 4.9$	11.0	5.50
QZN	11.6	254	eP	18 42 16.0	−1.2		
			eS	18 44 20.6	−5.1		
			LN		$M_S = 4.9$	13.0	3.90
			LE			13.0	4.10
TIA	14.1	345	−P	18 42 53.2	2.4		
			eS	18 45 30.2	3.5		
			LN		$M_S = 4.9$	9.0	1.26
			LE			10.5	3.23
GYA	14.1	289	P	18 42 51.4	0.0		
			pP	18 43 00.0	1.0		
			S	18 45 21.0	−5.8		
			LN		$M_S = 4.9$	10.0	2.40
			LE			10.0	2.10
XAN	15.9	318	P	18 43 13.1	−1.6		
DL2	16.2	0	eP	18 43 20.0	1.5		
			epP	18 43 30.0	3.4		
			eS	18 46 20.0	3.2		
			LN		$M_S = 4.9$	12.0	3.04
TIY	17.0	334	eP	18 43 31.2	3.1		
			PP	18 43 44.5	2.4		
			sS	18 46 44.5	−3.0		
			LN		$M_S = 5.5$	11.0	8.99
			LE			10.0	2.62
KMI	17.4	282	−P	18 43 34.0	0.2		
			pP	18 43 42.0	0.1		
			PP	18 43 48.0	0.1		
			S	18 46 40.0	−3.7		
			SS	18 47 02.0	−3.7		
			LE		$M_S = 5.0$	12.0	3.00
CD2	17.9	301	eP	18 43 39.5	−0.4		
			S	18 47 01.2	6.2		
			LN		$M_S = 5.2$	11.0	4.57
BJI	18.0	346	eP	18 43 40.0	−0.2		
			eS	18 46 54.0	−2.4		
			esS	18 47 10.0	0.1		
			LN		$M_S = 4.9$	10.0	1.44
			LE			10.0	1.83
			LZ		$M_S = 4.7$	12.0	2.30
SNY	19.2	4	P	18 43 54.3	−1.0		
			pP	18 44 06.0	2.1		

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			S	18 47 30.0	6.1			
			LN	M_S=4.9		12.0	1.92	
			LE			11.0	1.42	
HHC	20.1	337	eP	18 44 05.4	0.9			
			pP	18 44 16.0	2.3			
			S	18 47 44.0	1.9			
			LN	M_S=5.2		12.0	1.83	
			LE			13.0	3.71	
BTO	20.4	334	P	18 44 09.0	0.6			
			pP	18 44 19.0	1.2			
			ePP	18 44 31.0	2.1			
			S	18 47 50.0	0.5			
			sS	18 48 05.0	0.7			
			LN	M_S=5.6		14.0	4.70	
			LE			14.0	10.3	
LZH	20.4	315	eP	18 44 09.0	0.4			
			PMZ	m_b=5.5		2.0	0.47	
			SMN	m_B=5.6		7.0	1.64	
			LN	M_S=5.3		9.0	3.70	
CN2	21.4	8	+P	18 44 18.0	0.1			
			PMZ	m_b=5.3		2.0	0.30	
			sP	18 44 36.0	3.8			
			eS	18 48 07.0	−0.8			
			LN	M_S=4.9		11.0	1.80	
MDJ	22.9	15	−P	18 44 33.0	−0.2			
			pP	18 44 43.0	0.0			
			sP	18 44 50.0	2.4			
			PP	18 45 09.0	6.5			
			S	18 48 35.0	−0.2			
			LZ	M_S=5.0		16.0	4.10	
GTA	25.0	317	eP	18 44 53.4	−0.1			
			LE	M_S=4.9		10.0	1.24	
LSA	28.2	291	P	18 45 24.6	1.3			
			LE	M_S=4.6		12.0	0.54	
WMQ	35.0	315	P	18 46 23.7	0.8			
			S	18 51 56.0	5.5			
			LN	M_S=5.2		12.0	1.13	
			LE			12.0	1.09	
KSH	42.1	304	eP	18 47 25.0	2.7			
			pP	18 47 36.0	3.5			
			eS	18 53 42.0	2.8			
			LE	M_S=5.3		14.0	1.90	

JUL 22d 00h 56m 11.7±0.07s, SD1.11/39
46.08 N±1.63km, 149.87 E±0.83km, h134±1.04km
Kurile Islands (221)

BJI	25.2	268	eP	01 01 26.0	−0.9
TIY	28.9	267	eP	01 02 00.8	0.5
LZH	35.7	270	eP	01 02 59.5	0.3
GTA	36.8	278	+iP	01 03 09.2	0.0
CD2	38.6	263	P	01 03 24.0	0.5
GYA	39.4	255	P	01 03 30.4	0.2

JUL 22d 04h 39m 21.1±0.11s, SD1.12/25
19.44 S±0.95km, 169.45 E±1.12km, h224±1.14km
Vanuatu (New Hebrides) (186)

WHN	72.6	312	eP	04 50 27.0	0.5
MDJ	73.4	331	eP	04 50 31.0	0.0
CN2	74.7	329	+iP	04 50 38.3	−0.5
BJI	77.2	321	eP	04 50 53.0	0.4
TIY	78.1	317	+P	04 50 58.0	0.4
GTA	87.4	313	P	04 51 45.2	0.1

JUL 22d 06h 31m 43.1±0.10s, SD4.01/8
43.09 N±0.99km, 83.94 E±0.99km, h4±0.41km
Northern Xinjiang Province (332)
M_L3.5/6,

WMQ	2.8	74	Pg	06 32 36.0	2.6		
			Sg	06 33 15.0	3.9		
			SMN	M_L=3.3		0.5	0.14
			SME			0.5	0.13

JUL 22d 07h 52m 35.3±0.06s, SD1.01/37
61.86 N±1.08km, 149.94 W±0.76km, h56±0.23km
Southern Alaska (2)

CN2	50.2	290	−P	08 01 29.0	0.5
GTA	64.6	306	eP	08 03 09.8	0.1
LZH	65.9	302	eP	08 03 18.0	−0.1
GYA	73.0	294	P	08 04 02.4	0.3

JUL 22d 10h 23m 19.7±0.05s, SD1.05/22
24.49 S±1.05km, 179.48 W±0.93km, h455±0.85km
South of Fiji (171)

WHN	83.7	307	eP	10 35 03.0	1.4
TIY	88.9	313	+iP	10 35 27.7	1.1
CD2	91.8	303	eP	10 35 41.0	1.2

JUL 22d 18h 11m 31.4±0.12s, SD0.88/56
22.23 S±1.57km, 179.52 W±0.41km, h588±1.67km
South of Fiji (171)
m_b5.2/4,

QZH	76.2	304	+P	18 22 22.5	0.3
SSE	77.7	311	eP	18 22 29.5	−1.0
GZH	79.3	300	P	18 22 41.0	2.0
NJ2	79.9	311	+P	18 22 42.2	0.2
MDJ	81.1	326	eP	18 22 48.5	0.2
WHN	82.3	307	P	18 22 55.5	1.1
SNY	82.6	321	+iP	18 22 55.6	−0.3
CN2	82.8	323	−P	18 22 56.0	−0.8
TIA	83.4	313	P	18 22 59.7	0.0
BJI	86.1	316	eP	18 23 12.0	−0.9
GYA	86.3	300	P	18 23 14.2	0.4
TIY	87.4	313	−P	18 23 19.4	0.5
			PP	18 26 53.5	−2.4
			S	18 33 14.0	5.0
XAN	88.1	308	P	18 23 22.3	0.2
KMI	88.9	298	−P	18 23 26.5	0.4
CD2	90.5	303	eP	18 23 34.0	0.4
LZH	92.7	308	eP	18 23 44.0	0.4
			PMZ	m_b=5.4	1.0	0.040

JUL 22d 21h 16m 02.2±0.17s, SD1.43/39
40.02 N±5.50km, 29.66 W±1.54km, h3±2.40km
Azores (405)
M_S5.6/11,

KSH	75.7	50	P	21 27 54.0	2.1	
			eS	21 37 38.0	4.3	
			LN	M_S=5.5	14.0	1.00
WMQ	79.3	41	P	21 28 12.0	0.7	
			sS	21 38 18.0	−0.8	
			SKS	21 38 22.0	0.0	
			LN	M_S=5.9	14.0	1.51
			LE		14.0	1.72
GTA	88.5	37	eP	21 28 58.0	−0.2	
			LN	M_S=5.5	16.0	0.92
BTO	91.8	30	P	21 29 15.0	1.5	
			pP	21 29 19.0	1.2	
			eSKS	21 39 46.0	1.9	
			S	21 40 16.0	4.8	
			LN	M_S=5.6	20.0	1.20
			LE		17.0	0.60
LZH	93.0	36	eP	21 29 20.0	0.6	
			LZ	M_S=5.3	24.0	1.43
BJI	94.4	26	eP	21 29 25.0	−0.7	
			LN	M_S=5.5	15.0	0.73
			LZ	M_S=5.4	18.0	1.13

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TIY	95.2	29	eP	21 29 31.0	1.8			
			LN	M_S = 5.6		15.0	0.99	
DL2	97.2	22	eP	21 29 35.0	−3.2			
			ePP	21 33 30.0	−6.0			
			LZ	M_S = 5.3		16.0	0.77	

JUL 23d 03h 31m 04.4 ± 0.08s, SD1.81 / 28
39.17 N ± 1.59km, 71.58 E ± 1.18km, h34 ± 0.25km
Afghanistan–USSR border region (717)
M_L4.6 / 2,

KSH	3.4	83	+iP	03 32 00.0	3.7			
			SMN	M_L = 4.9		0.8	1.30	
			SME			1.4	5.80	
WMQ	12.9	64	eP	03 34 08.6	−0.3			
GTA	21.8	80	eP	03 35 56.4	0.5			
LZH	25.7	87	eP	03 36 34.0	0.7			
WHN	35.9	91	eP	03 38 05.5	2.2			

JUL 23d 04h 10m 14.4 ± 0.14s, SD1.08 / 73
51.16 N ± 2.27km, 175.75 W ± 1.29km, h29 ± 1.51km
Andreanof Islands (7)
M_S5.0 / 2, m_b5.4 / 2,

MDJ	36.5	282	eP	04 17 19.5	0.0			
CN2	39.5	283	eP	04 17 43.8	−0.5			
			pP	04 17 49.8	−3.1			
SNY	41.7	282	eP	04 18 04.0	1.3			
DL2	44.6	279	eP	04 18 28.0	1.5			
			eS	04 25 05.0	4.6			
			LZ	M_S = 4.3		18.0	0.36	
BJI	47.3	284	eP	04 18 48.0	0.4			
			eS	04 25 38.0	−0.6			
			LZ	M_S = 4.3		24.0	0.45	
HHC	49.6	288	−P	04 19 07.0	1.4			
SSE	49.9	272	P	04 19 09.0	1.0			
			PMZ	m_b = 5.0		1.0	0.020	
			sP	04 19 23.0	2.7			
			esS	04 26 29.0	−0.9			
			LZ	M_S = 4.5		20.0	0.46	
BTO	50.7	289	+iP	04 19 15.5	1.6			
			sP	04 19 23.5	−2.5			
			eS	04 26 30.0	3.9			
			LN	M_S = 5.1		19.0	0.70	
			LE			19.0	0.90	
NJ2	50.7	274	−P	04 19 13.0	−1.3			
TIY	51.0	284	+P	04 19 17.5	1.0			
			pP	04 19 25.5	0.4			
			S	04 26 36.5	6.9			
			LN	M_S = 4.8		13.0	0.40	
WHN	54.6	276	eP	04 19 42.5	−0.5			
XAN	55.6	283	P	04 19 49.4	−0.9			
LZH	57.3	288	eP	04 20 02.5	−0.1			
			PMZ	m_b = 5.8		1.5	0.20	
			sP	04 20 15.0	0.2			
			LZ	M_S = 5.1		10.0	0.84	
GTA	57.4	294	eP	04 20 02.3	−1.2			
			LZ	M_S = 5.0		19.0	1.23	
CD2	60.9	284	eP	04 20 27.2	−0.3			
WMQ	61.1	305	P	04 20 27.7	−0.9			
			PcP	04 21 11.5	1.0			
GYA	62.3	278	P	04 20 36.6	−0.1			
KMI	65.7	280	−P	04 20 59.5	0.5			
KSH	70.2	309	P	04 21 28.0	0.8			
			S	04 30 38.0	3.7			

JUL 23d 05h 51m 43.1 ± 0.08s, SD2.07 / 63
40.12 N ± 1.09km, 113.99 E ± 0.96km, h10 ± 0.10km
North–Eastern China (658)
M_S4.3 / 11, M_L4.7 / 11,

BJI	1.7	92	−Pg	05 52 13.0	0.2			
			Sg	05 52 36.0	0.3			
			SMN	M_L = 5.2		0.5	25.1	
			SME			0.5	23.3	
			LZ			8.0	4.25	
HHC	2.0	292	Pn	05 52 20.3	3.0			
			Pg	05 52 22.3	4.1			
			Sg	05 52 50.0	4.6			
			SMN			2.0	9.29	
			SME			2.0	9.85	
TIY	2.7	207	−iPn	05 52 29.4	2.4			
			Pg	05 52 33.7	3.0			
			Sg	05 53 08.6	1.0			
			SMN	M_L = 4.6		0.7	2.58	
			SME			0.6	2.82	
BTO	3.1	280	ePn	05 52 32.4	0.2			
			Pg	05 52 39.1	1.8			
			Sg	05 53 19.8	0.4			
TIA	4.6	147	ePn	05 52 54.3	0.9			
			Pg	05 53 05.8	1.2			
			Sg	05 54 05.1	−2.7			
			SMN	M_L = 4.3		0.7	0.45	
			SME			0.7	0.43	
			LN	M_S = 3.8		11.0	1.27	
			LE			11.0	1.43	
DL2	6.0	99	ePn	05 53 16.0	3.3			
			Pg	05 53 28.0	−1.5			
			SMN	M_L = 4.6		1.4	0.54	
			SME			1.4	0.37	
XAN	7.3	215	−Pn	05 53 31.8	1.6			
			Pg	05 53 58.0	6.1			
			Sg	05 55 31.2	−0.5			
LZH	9.0	246	P	05 53 54.5	−1.4			
			LN	M_S = 4.4		5.0	1.10	
			LE			7.0	0.67	
WHN	9.6	178	eP	05 54 03.0	−1.1			
			SMN			1.0	0.19	
			SME			1.0	0.20	
			LN	M_S = 3.8		10.0	0.50	
GTA	10.9	271	eP	05 54 21.8	−1.4			
			LE	M_S = 4.0		8.0	0.47	
MDJ	12.4	64	eP	05 54 39.0	−3.6			
			LZ	M_S = 5.2		8.0	7.10	
CD2	12.4	225	eP	05 54 40.2	−2.7			
GYA	14.9	206	P	05 55 17.6	1.2			
			S	05 58 00.8	−1.4			
			LN	M_S = 4.5		8.0	0.80	
			LE			8.0	0.60	
WMQ	19.9	289	eP	05 56 20.0	2.4			
			sS	06 00 07.0	4.0			
			LN	M_S = 4.4		8.0	0.45	
QZN	21.3	191	eP	05 56 36.0	3.2			
			eS	06 00 28.0	3.1			
			LE	M_S = 4.3		13.0	0.50	

JUL 23d 07h 38m 09.0 ± 0.09s, SD1.77 / 98
48.68 N ± 1.39km, 90.64 E ± 1.25km, h17 ± 0.37km
Mongolia (334)
M_S6.4 / 42, m_B6.1 / 19, m_b6.0 / 6,

WMQ	5.3	204	−iPn	07 39 31.5	3.9			
GTA	11.4	141	+P	07 40 51.5	−2.7			
			LE	M_S = 6.4		10.0	153	
KSH	14.0	234	P	07 41 32.0	3.1			
			pP	07 41 38.0	4.0			
			S	07 44 10.0	6.0			
			LE	M_S = 6.4		4.0	38.0	
LZH	15.9	137	−iP	07 41 52.0	−2.1			
			PMZ	m_b = 5.5		2.5	0.51	

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			sP	07 42 02.0	−1.1			
BTO	16.0	113	+iP	07 41 53.0	−1.8			
			PMZ	m_B=5.9		6.0	3.37	
			PP	07 42 07.5	0.4			
			S	07 44 49.0	−1.8			
			LN	M_S=6.1		10.0	32.0	
			LE			10.0	25.2	
HHC	16.8	110	P	07 42 03.0	−2.1			
			sP	07 42 10.0	−4.2			
			LN	M_S=6.3		6.0	24.8	
			LE			6.0	24.7	
LSA	19.0	179	−iP	07 42 33.0	0.3			
			pP	07 42 38.0	0.3			
			iS	07 46 08.0	7.1			
			LE	M_S=6.0		12.0	32.2	
TIY	19.2	117	+iP	07 42 34.5	−1.0			
			pP	07 42 39.0	−2.0			
			S	07 46 07.0	1.5			
			sS	07 46 19.0	3.8			
			LN	M_S=6.4		10.0	47.3	
			LE			10.0	31.9	
XAN	20.0	130	P	07 42 42.7	−1.2			
BJI	20.1	106	+P	07 42 44.5	−0.8			
			PMZ	m_B=5.8		8.0	3.89	
			eS	07 46 30.0	4.2			
			LN	M_S=6.4		10.0	36.3	
			LE			9.0	32.7	
CD2	20.4	146	P	07 42 47.0	−0.8			
			S	07 46 35.3	5.4			
			LN	M_S=6.4		14.0	73.0	
TIA	23.0	113	eP	07 43 15.0	0.1			
			PMZ	m_B=6.1		5.0	3.65	
			S	07 47 24.0	4.0			
			SMN	m_B=6.1		10.0	2.80	
			SME			10.0	6.52	
			LN	M_S=6.2		11.0	22.0	
			LE			9.0	16.0	
SNY	24.0	94	+iP	07 43 24.5	0.0			
			PMZ	m_B=6.3		4.0	4.14	
			sP	07 43 35.0	0.9			
			S	07 47 39.0	1.5			
			SMN	m_B=6.1		8.0	2.86	
			SME			12.0	6.37	
			LN	M_S=6.5		10.0	38.0	
			LE			10.0	37.2	
DL2	24.3	102	P	07 43 27.0	0.4			
			PMZ	m_B=6.2		5.0	4.11	
			pP	07 43 32.0	−1.0			
			eS	07 47 42.0	0.0			
			SMN	m_B=6.1		10.0	2.82	
			SME			12.0	6.79	
			sS	07 47 49.0	−3.4			
			LN	M_S=6.1		12.0	20.2	
			LE			10.0	12.8	
CN2	24.4	88	+P	07 43 30.0	1.7			
			PMZ	m_B=6.2		5.0	4.10	
			pP	07 43 34.0	−0.6			
			S	07 47 49.0	5.0			
			SMN	m_B=6.1		11.0	4.40	
			SME			11.0	5.30	
			LE	M_S=6.4		11.0	42.0	
KMI	25.4	154	−P	07 43 37.0	−0.5			
			pP	07 43 42.0	−1.6			
			PP	07 44 16.5	1.2			
			iS	07 47 57.0	−4.0			
			LE	M_S=6.4		13.0	44.2	
GYA	25.5	145	P	07 43 38.0	−0.3			
			sP	07 43 45.0	−2.7			
			S	07 48 04.0	2.6			
			LN	M_S=6.6		12.0	33.9	
			LE			12.0	70.0	
WHN	25.6	126	eP	07 43 40.5	1.5			
			PMZ	m_B=6.2		5.0	3.10	
			pP	07 43 44.0	−1.4			
			PP	07 44 19.0	1.3			
			S	07 48 08.0	5.1			
			SME	m_B=6.1		10.0	5.90	
			eSS	07 49 05.0	−0.8			
			LN	M_S=6.5		10.0	31.0	
			LE			10.0	29.3	
MDJ	26.8	84	eP	07 43 51.0	0.0			
			pP	07 43 55.0	−2.4			
			sP	07 43 58.0	−2.6			
			S	07 48 18.5	−5.7			
			LZ	M_S=6.3		10.0	39.1	
NJ2	27.0	118	−P	07 43 52.5	0.5			
			S	07 48 30.0	4.1			
			LN	M_S=6.1		13.0	15.8	
			LE			13.5	16.7	
			LZ	M_S=5.9		14.0	24.0	
SSE	29.0	116	P	07 44 10.5	−0.1			
			PMZ			3.0	1.33	
			pP	07 44 15.0	−2.1			
			sP	07 44 21.0	0.7			
			S	07 49 04.0	4.8			
			SME			18.0	2.69	
			sS	07 49 10.0	−0.9			
			SS	07 50 32.0	4.0			
			PcS	07 50 59.0	−1.0			
			LN	M_S=6.2		10.0	9.02	
			LE			10.0	18.5	
GZH	31.2	137	eP	07 44 33.5	3.1			
			LN	M_S=6.5		14.0	20.9	
			LE			13.0	37.9	
QZH	32.3	127	eP	07 44 40.0	0.5			
			PMZ	m_B=5.9		6.0	1.25	
			PP	07 45 46.0	−0.2			
			eS	07 49 45.0	−6.3			
			LN	M_S=6.4		13.0	35.7	
QZN	33.4	146	eP	07 44 49.2	−0.1			
			pP	07 44 54.0	−1.9			
			eS	07 50 05.0	−4.0			
			SS	07 52 04.0	−6.9			
			LN	M_S=6.3		15.0	13.6	
			LE			15.0	26.4	

JUL 23d 14h 25m 35.4 ± 0.13s, SD1.62 / 89
22.17 S ± 3.85km, 175.18 E ± 2.84km, h19 ± 0.55km
Loyalty Islands region (189)
M_S6.0 / 31, m_B6.4 / 26, m_b6.1 / 4,

QZH	72.2	307	−P	14 37 02.0	0.3			
			PMZ	m_B=6.3		5.0	1.97	
			S	14 46 20.0	−1.1			
			SME	m_B=6.5		9.0	4.15	
			LN	M_S=5.8		14.0	2.20	
SSE	74.1	314	P	14 37 12.0	−0.8			
			PMZ	m_B=6.1		6.0	1.27	
			pP	14 37 21.0	1.2			
			iS	14 46 43.0	−0.8			
			SMN	m_B=6.5		12.0	4.04	
			SME			12.0	2.89	
			LN	M_S=5.6		19.0	1.75	
			LE			14.0	0.77	
GZH	75.1	303	−P	14 37 20.7	1.7			
			PMZ	m_B=6.6		4.0	3.04	
			S	14 46 57.5	3.2			

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			SMN		$m_B = 6.7$	12.0	7.11
			SME			11.0	3.55
			LN		$M_S = 6.1$	17.0	5.20
QZN	75.9	298	eP	14 37 24.8	1.6		
			PcP	14 37 36.0	1.0		
			PP	14 40 14.0	−0.2		
			S	14 47 01.5	−0.8		
			SMN			12.5	8.20
			SME			12.5	2.30
			SS	14 51 53.0	−4.4		
			LN		$M_S = 6.0$	19.0	4.10
			LE			16.0	2.20
NJ2	76.2	313	+P	14 37 24.5	−0.7		
			S	14 47 08.0	1.8		
WHN	78.5	310	−P	14 37 38.5	0.8		
			PMZ		$m_b = 5.5$	1.0	0.060
			S	14 47 30.0	−0.5		
			SMN		$m_B = 6.5$	11.0	4.08
			sS	14 47 43.0	−0.6		
			LN		$M_S = 5.8$	15.0	2.00
DL2	78.8	320	P	14 37 39.0	−0.3		
			PMZ		$m_B = 6.1$	6.0	1.48
			iS	14 47 37.0	1.8		
			SMN		$m_B = 6.7$	11.0	4.85
			SME			11.0	5.48
			LN		$M_S = 5.9$	16.0	2.57
SNY	79.6	323	+iP	14 37 43.0	−0.8		
			PMZ		$m_B = 5.9$	7.0	1.08
			sP	14 37 57.0	3.2		
			iS	14 47 45.0	1.2		
			SMN		$m_B = 6.6$	12.0	4.24
			SME			11.0	3.32
			LN		$M_S = 6.4$	56.0	28.7
			LE			54.0	12.9
TIA	79.9	316	eP	14 37 44.8	−0.6		
			S	14 47 47.0	1.7		
			SMN			14.0	5.15
			SME			12.0	2.94
			LN		$M_S = 6.2$	20.0	4.64
			LE			18.0	4.57
CN2	79.9	326	+P	14 37 44.8	−0.9		
			PMZ		$m_B = 6.1$	6.0	1.30
			SMN		$m_B = 6.4$	11.0	2.00
			SME			11.0	2.90
			LN		$M_S = 5.8$	17.0	2.30
GYA	82.1	303	P	14 37 57.0	−0.1		
			pP	14 38 05.0	1.1		
			S	14 48 10.0	1.9		
			LZ		$M_S = 5.5$	22.0	2.20
BJI	82.8	318	eP	14 38 00.5	0.0		
			PMZ		$m_B = 6.1$	6.0	1.25
			S	14 48 19.0	3.9		
			LN		$M_S = 5.9$	18.0	3.09
			LZ		$M_S = 5.8$	26.0	5.27
TIY	83.8	315	+P	14 38 06.3	0.4		
			iS	14 48 30.5	3.2		
			SMN			14.0	8.13
			SS	14 54 02.0	6.3		
			LN		$M_S = 5.8$	18.0	1.57
			LE			18.0	1.70
XAN	84.2	310	P	14 38 08.6	0.6		
KMI	84.5	300	+P	14 38 11.5	1.7		
			PMZ		$m_B = 6.5$	5.0	2.10
			SKS	14 48 27.0	−0.8		
			iS	14 48 37.0	1.9		
			SMN		$m_B = 6.7$	11.0	6.50
			LZ		$M_S = 6.1$	30.0	12.0
HHC	86.1	317	+iP	14 38 18.0	0.5		
			pP	14 38 28.0	3.7		
			S	14 48 46.0	−2.1		
			SMN			20.0	12.6
			LN		$M_S = 6.5$	44.0	29.7
CD2	86.4	305	eP	14 38 20.0	0.9		
			S	14 48 47.0	−4.4		
			LN		$M_S = 6.4$	14.0	7.42
BTO	86.9	316	P	14 38 22.5	0.9		
			sP	14 38 34.0	2.5		
			ePP	14 41 48.0	2.1		
			eSKS	14 48 47.0	3.2		
			S	14 48 58.0	1.8		
			LN		$M_S = 5.9$	20.0	2.00
			LE			20.0	2.60
LZH	88.8	310	eP	14 38 31.0	0.2		
			PMZ		$m_b = 6.3$	2.5	0.63
			eS	14 49 18.0	2.0		
			SMN		$m_B = 6.6$	12.0	7.47
			LN		$M_S = 6.0$	12.0	2.03
GTA	93.2	311	eP	14 38 50.8	−0.2		
			S	14 49 58.0	5.1		
			LE		$M_S = 6.0$	18.0	3.04
WMQ	103.3	312	eP	14 39 38.5	2.1		
			PP	14 43 52.4	−0.9		
			SKS	14 50 15.0	2.5		
			LZ		$M_S = 6.1$	24.0	6.58

JUL 23d 14h 39m 45.1 ± 0.18s, SD2.12 / 31
22.02 S ± 2.84km, 175.11 E ± 2.61km, h28 ± 0.52km
Loyalty Islands region (189)
M_S5.8 / 2,

WHN	78.3	310	eP	14 51 46.5	1.3	
CN2	79.8	326	+P	14 51 54.8	1.7	
GYA	81.9	303	eP	14 52 06.2	1.5	
BJI	82.6	318	eP	14 52 07.5	−0.5	
TIY	83.6	315	eP	14 52 13.5	0.1	
LZH	88.7	310	eP	14 52 41.5	3.2	
			LE	$M_S = 5.6$	14.0	1.10
GTA	93.0	311	eP	14 52 57.0	−1.6	

JUL 23d 15h 17m 07.6 ± 0.09s, SD0.95 / 101
6.46 S ± 1.28km, 152.86 E ± 1.42km, h16 ± 0.16km
New Britain region (192)
M_S6.6 / 42, m_B6.9 / 47, m_b6.6 / 14,

QZH	45.7	314	−iP	15 25 30.5	0.5	
			PMZ	$m_B = 6.9$	9.0	17.7
			iS	15 32 10.0	−1.9	
			SMN	$m_B = 6.6$	10.0	7.38
			SME		10.0	6.45
			LN	$M_S = 6.4$	15.0	21.7
SSE	48.1	323	+iP	15 25 48.0	−0.9	
			PMZ	$m_B = 7.0$	8.0	16.4
			PcP	15 27 19.0	2.8	
			PP	15 27 40.0	0.3	
			S	15 32 42.0	−3.0	
			SMN	$m_B = 6.9$	8.0	9.07
			SME		8.0	8.62
			sS	15 32 57.0	−0.1	
			LE	$M_S = 6.6$	21.0	38.9
GZH	48.5	309	−iP	15 25 53.1	0.8	
			S	15 32 55.0	3.9	
			SMN	$m_B = 6.9$	12.0	9.94
			SME		12.0	20.1
			LN	$M_S = 6.7$	22.0	48.1
			LE		20.0	27.1
QZN	49.4	302	−P	15 25 59.8	0.9	
			PMZ	$m_B = 6.9$	9.0	15.0
			S	15 33 03.5	0.4	

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			LN		$M_S=6.8$		24.0	40.9
			LE				24.0	52.0
NJ2	50.2	322	-iP	15 26 05.5		0.5		
			PMZ		$m_B=7.1$		6.0	16.9
			iPcP	15 27 21.0		-2.7		
			iS	15 33 18.0		2.8		
			LN		$M_S=6.6$		16.0	23.9
			LE				14.0	14.4
WHN	52.1	317	-iP	15 26 21.0		1.4		
			PMZ		$m_b=6.9$		1.5	2.53
			pP	15 26 31.0		4.8		
			S	15 33 43.0		2.3		
			LE		$M_S=6.4$		15.0	16.9
DL2	53.6	330	-iP	15 26 31.0		0.0		
			PMZ		$m_B=7.0$		6.0	12.6
			S	15 34 01.0		-0.5		
			SMN		$m_B=6.9$		9.0	8.89
			SME				9.0	10.7
			LN		$M_S=6.7$		20.0	34.6
			LE				15.0	15.1
TIA	54.1	324	-P	15 26 33.6		-0.8		
			PMZ		$m_B=6.7$		10.0	10.8
			S	15 34 09.0		1.3		
			SMN		$m_B=6.9$		10.0	14.0
			SME				10.0	10.0
			LN		$M_S=6.6$		15.0	7.48
			LE				19.0	29.7
MDJ	55.0	340	-P	15 26 40.3		-0.7		
			pP	15 26 52.0		4.4		
			S	15 34 18.0		-1.8		
			SME		$m_B=6.7$		8.0	8.40
			LZ		$M_S=6.7$		30.0	97.8
SNY	55.0	333	+iP	15 26 40.0		-1.1		
			PMZ		$m_B=7.0$		7.5	14.9
			PcP	15 27 38.0		-3.8		
			PcS	15 31 36.0		-4.2		
			iS	15 34 19.0		-2.2		
			SMN		$m_B=6.8$		10.0	11.7
			SME				9.0	7.04
			LN		$M_S=6.6$		18.0	23.4
			LE				18.0	17.8
GYA	55.5	308	-P	15 26 44.8		0.3		
			PMZ		$m_B=7.0$		7.0	14.7
			S	15 34 29.0		3.0		
			SME		$m_B=6.6$		12.0	10.5
			LN		$M_S=6.6$		18.0	17.1
			LE				18.0	19.6
CN2	55.8	336	-iP	15 26 46.3		-0.8		
			PMZ		$m_B=7.1$		7.0	17.0
			S	15 34 30.0		-1.1		
			SMN		$m_B=6.8$		10.0	10.0
			SME				10.0	6.30
			LN		$M_S=6.3$		15.0	11.0
BJI	57.3	327	-iP	15 26 57.0		-0.6		
			PMZ		$m_B=7.0$		8.0	14.9
			eS	15 34 50.0		-1.7		
			LN		$M_S=6.7$		19.0	22.1
			LE				22.0	35.7
XAN	57.9	317	-iP	15 27 00.8		-0.8		
TIY	57.9	323	-iP	15 27 01.4		-0.3		
			PMZ		$m_b=6.5$		1.5	0.91
			PcP	15 27 53.5		0.5		
			iS	15 34 58.0		-1.4		
			SMN				13.0	13.3
			LN		$M_S=6.4$		15.5	15.4
KMI	58.0	305	-iP	15 27 03.0		0.5		
			PMZ		$m_B=7.0$		7.0	14.4
			pP	15 27 12.5		3.6		
			ScP	15 31 54.0		2.8		
			S	15 34 57.0		-2.3		
			LN		$M_S=6.5$		14.0	14.5
CD2	59.9	311	-iP	15 27 15.4		-0.2		
			PMZ		$m_B=7.2$		6.0	17.9
			S	15 35 21.5		-2.5		
			LE		$M_S=6.7$		15.0	27.7
HHC	60.4	325	-iP	15 27 19.6		0.1		
			pP	15 27 27.0		1.1		
			sP	15 27 33.0		4.1		
			S	15 35 38.0		6.8		
			SMN		$m_B=7.3$		10.0	18.4
			SME				12.0	39.4
BTO	61.2	324	-iP	15 27 25.0		0.5		
			PMZ		$m_B=7.0$		7.0	15.0
			iS	15 35 43.0		1.0		
			SS	15 39 42.0		0.1		
			LN		$M_S=6.4$		15.0	11.2
			LE				17.0	9.10
LZH	62.5	316	-iP	15 27 33.5		0.2		
			PMZ		$m_b=7.1$		2.5	5.98
			SME		$m_B=6.8$		12.0	12.4
			LN		$M_S=6.5$		13.0	13.2
LSA	69.2	305	-iP	15 28 17.0		0.1		
			PcP	15 28 44.0		4.7		
			PP	15 30 45.0		-5.8		
			S	15 37 17.0		-2.5		
			SMN		$m_B=6.5$		8.0	3.40
			LE		$M_S=6.4$		14.0	10.9
WMQ	77.0	318	-iP	15 29 02.5		0.3		
			PMZ		$m_B=7.1$		8.0	18.2
			PcP	15 29 12.5		0.1		
			PP	15 31 55.0		-0.8		
			S	15 38 50.0		2.6		
			LN		$M_S=6.6$		17.0	7.50
			LE				17.0	15.3
KSH	84.1	311	-iP	15 29 42.0		1.9		
			SMN		$m_B=7.1$		7.0	11.9
			LE		$M_S=7.1$		10.0	25.8

JUL 23d 16h 02m 19.5±0.09s, SD2.36/23
37.68 N±0.84km, 112.29 E±0.96km, h10±0.26km
North-Eastern China (658)
M_L3.7/16,

TIY	0.1	72	-iPg	16 02 22.4		0.1		
			Sg	16 02 24.1		-0.2		
			SMN		$M_L=3.4$		1.0	9.58
			SME				1.0	9.00
HHC	3.2	350	Pn	16 03 11.4		0.8		
			Pg	16 03 17.3		1.0		
			Sg	16 03 59.3		-1.1		
			SMN		$M_L=3.9$		1.0	0.53
			SME				0.8	0.23
BTO	3.4	329	ePn	16 03 15.2		1.9		
			Pg	16 03 22.6		2.9		
			Sg	16 04 06.4		0.0		
			SMN		$M_L=3.6$		0.5	0.17
			SME				0.5	0.16
BJI	3.8	51	Pn	16 03 18.0		-1.0		
			Pg	16 03 27.5		0.2		
			Sg	16 04 14.0		-5.9		
			SMN		$M_L=3.8$		1.0	0.18
			SME				1.0	0.24
TIA	4.1	109	ePn	16 03 22.0		-1.1		
			Pg	16 03 32.0		-0.6		
			Sg	16 04 22.0		-7.1		
			SMN		$M_L=3.2$		0.7	0.060
			SME				0.6	0.030

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XAN	4.5	218	Pn	16 03 29.3	0.5			
			Pg	16 03 44.8	5.1			
			SMN	$M_L=3.4$		0.6	0.070	
			SME			0.8	0.060	
WHN	7.3	166	ePn	16 04 11.5	4.7			
			SMN	$M_L=4.0$		0.6	0.080	
			SME			1.0	0.040	
GTA	9.9	284	P	16 04 43.2	−2.5			

JUL 23d 16h 19m 55.3±0.17s, SD1.86/28
6.48 S±1.52km, 152.99 E±1.75km, h51±0.89km
New Britain region (192)

WHN	52.2	317	P	16 29 05.5	1.8			
DL2	53.7	330	eP	16 29 15.5	0.6			
MDJ	55.0	340	eP	16 29 25.0	0.2			
GYA	55.6	308	P	16 29 29.0	0.3			
CN2	55.9	336	eP	16 29 31.0	0.1			
BJI	57.4	327	eP	16 29 41.0	−0.5			
KMI	58.1	305	+P	16 29 48.5	1.8			
HHC	60.5	325	P	16 30 04.4	1.0			
BTO	61.2	324	eP	16 30 07.3	−1.0			
WMQ	77.1	318	eP	16 31 43.0	−2.9			

JUL 23d 16h 48m 59.5±0.10s, SD0.89/35
6.38 S±1.05km, 152.89 E±0.64km, h47±1.13km
New Britain region (192)
m_b5.1/2,

WHN	52.1	317	eP	16 58 08.0	0.8			
DL2	53.6	330	eP	16 58 18.8	0.3			
TIA	54.0	324	eP	16 58 21.5	−0.5			
GYA	55.4	308	P	16 58 32.6	0.4			
CN2	55.8	336	eP	16 58 34.2	−0.4			
BJI	57.3	327	eP	16 58 44.5	−0.7			
XAN	57.8	317	P	16 58 48.7	−0.6			
CD2	59.8	311	eP	16 59 02.8	−0.4			
BTO	61.1	324	eP	16 59 13.5	1.5			
LZH	62.4	316	eP	16 59 21.0	0.1			
			PMZ	$m_b=5.1$		1.5	0.040	
GTA	66.9	318	eP	16 59 50.6	0.9			

JUL 23d 17h 11m 37.1±0.08s, SD0.92/101
6.34 S±1.40km, 153.06 E±1.21km, h28±0.13km
New Britain region (192)
M_S5.4/18, m_B6.3/26, m_b5.7/8,

QZH	45.7	314	−iP	17 19 59.5	1.2			
			PMZ	$m_B=6.5$		4.0	3.04	
			S	17 26 44.0	5.5			
			LN	$M_S=5.3$		12.0	1.37	
SSE	48.1	323	P	17 20 17.2	0.2			
			PMZ	$m_b=5.6$		2.0	0.19	
			esP	17 20 31.0	2.0			
			S	17 27 19.0	6.9			
			SME	$m_B=5.8$		8.0	1.16	
			sS	17 27 29.0	1.7			
			SS	17 30 40.0	3.7			
			LN	$M_S=5.5$		12.0	1.44	
			LE			9.0	0.71	
GZH	48.6	308	−iP	17 20 22.0	1.2			
			PMZ	$m_B=6.4$		4.0	2.28	
			eS	17 27 19.5	−0.6			
QZN	49.5	302	−P	17 20 28.0	0.4			
			sP	17 20 43.0	3.4			
			S	17 27 33.0	1.7			
NJ2	50.2	322	−P	17 20 34.2	1.1			
			PMZ	$m_B=6.2$		6.0	2.17	
			S	17 27 43.0	1.7			
WHN	52.1	317	−iP	17 20 49.3	1.6			
			PMZ	$m_b=6.1$		1.5	0.35	
			SME	$m_B=6.0$		16.0	1.80	
			LZ	$M_S=5.4$		24.0	4.20	
DL2	53.6	330	−iP	17 20 59.0	0.2			
			PMZ	$m_B=6.5$		4.0	2.54	
			iS	17 28 34.0	4.7			
			LZ	$M_S=5.4$		24.0	3.80	
TIA	54.1	324	P	17 21 01.7	−0.6			
			PMZ	$m_B=6.4$		5.0	2.28	
MDJ	54.9	340	eP	17 21 07.6	−0.9			
SNY	55.0	333	eP	17 21 08.0	−0.8			
GYA	55.5	308	−P	17 21 13.0	0.1			
			sP	17 21 29.0	4.1			
			S	17 28 55.0	1.1			
CN2	55.8	336	−iP	17 21 14.2	−0.5			
			PMZ	$m_B=6.3$		5.0	2.20	
			pP	17 21 26.0	2.8			
			eS	17 28 55.0	−3.6			
			LE	$M_S=5.3$		13.0	1.00	
BJI	57.3	327	−iP	17 21 25.0	−0.5			
			PMZ	$m_B=6.7$		4.0	3.70	
			eS	17 29 23.0	4.4			
			LN	$M_S=5.4$		16.0	1.47	
			LZ	$M_S=5.5$		28.0	4.94	
TIY	57.9	322	−iP	17 21 29.5	−0.2			
			PMZ	$m_B=6.4$		5.0	2.35	
			sP	17 21 45.0	3.3			
			PP	17 23 40.0	1.2			
			S	17 29 30.0	4.9			
			SME	$m_B=5.7$		8.0	0.90	
			LN	$M_S=5.6$		20.0	3.00	
XAN	57.9	317	−iP	17 21 29.4	−0.4			
KMI	58.1	305	−iP	17 21 31.5	0.5			
CD2	59.9	311	−iP	17 21 43.6	−0.2			
			PMZ	$m_B=6.3$		6.0	2.44	
HHC	60.4	325	−iP	17 21 47.5	0.1			
BTO	61.2	324	−iP	17 21 53.5	1.1			
			PMZ	$m_B=6.5$		5.0	3.38	
			sP	17 22 09.0	4.6			
			ePP	17 24 10.0	1.6			
			S	17 30 13.0	5.4			
			LN	$M_S=5.4$		15.0	1.10	
			LE			12.0	0.50	
LZH	62.5	316	eP	17 22 00.0	−1.4			
			PMZ	$m_b=6.2$		2.5	0.83	
			pP	17 22 10.0	0.2			
			SME	$m_B=6.0$		10.0	1.86	
			LE	$M_S=5.4$		11.0	1.00	
GTA	67.0	318	−iP	17 22 30.8	0.7			
			PMZ	$m_B=6.3$		6.0	2.25	
			LN	$M_S=5.3$		14.0	0.80	
LSA	69.3	305	P	17 22 45.0	−0.2			
			S	17 31 50.0	2.7			
			SMN	$m_B=5.9$		8.0	0.93	
WMQ	77.0	318	P	17 23 30.7	0.4			
			PMZ	$m_B=6.4$		5.0	2.66	
			LZ	$M_S=5.6$		20.0	2.76	
KSH	84.2	311	P	17 24 10.0	1.8			
			sP	17 24 24.0	3.8			
			S	17 34 34.0	5.4			
			LE	$M_S=5.8$		15.0	1.70	

JUL 23d 19h 05m 00.2±0.09s, SD0.92/65
6.36 S±1.05km, 152.90 E±1.27km, h26±0.17km
New Britain region (192)
m_B5.6/2, m_b5.5/5,

SSE	48.0	323	P	19 13 39.0	−0.7			
			PMZ	$m_b=5.2$		2.0	0.070	
			LZ	$M_S=4.4$		20.0	0.46	

WHN	52.1	317	eP	19 14 11.7	1.2			
DL2	53.6	330	eP	19 14 22.0	0.3			
			eS	19 21 55.0	2.9			
TIA	54.0	324	eP	19 14 24.9	−0.3			
MDJ	54.9	340	eP	19 14 31.5	−0.2			
SNY	54.9	333	+P	19 14 32.0	0.2			
GYA	55.4	308	P	19 14 36.4	0.9			
CN2	55.8	336	eP	19 14 37.3	−0.5			
BJI	57.2	327	+P	19 14 48.5	0.1			
			PMZ	$m_B = 5.8$		4.0	0.53	
			eS	19 22 46.0	4.7			
			LZ	$M_S = 4.5$		18.0	0.36	
TIY	57.8	323	eP	19 14 52.8	0.3			
XAN	57.8	317	P	19 14 51.8	−0.7			
KMI	57.9	305	+P	19 14 55.0	1.4			
CD2	59.8	311	eP	19 15 06.2	−0.3			
HHC	60.4	325	−P	19 15 10.0	−0.3			
BTO	61.1	324	P	19 15 16.0	0.7			
LZH	62.4	316	eP	19 15 24.5	0.3			
			PMZ	$m_b = 5.6$		2.5	0.20	
			pP	19 15 36.0	3.8			
GTA	66.9	318	+P	19 15 54.0	1.0			
WMQ	76.9	318	eP	19 16 52.5	−0.7			

JUL 23d 19h 10m 03.0 ± 0.23s, SD2.02 / 33
30.91 N ± 2.40km, 50.08 E ± 1.74km, h44 ± 1.37km
Western Iran (347)

KSH	22.7	61	eP	19 15 06.5	3.8			
WMQ	32.3	56	eP	19 16 31.0	0.7			
GTA	41.1	64	P	19 17 46.4	1.6			
KMI	46.5	84	−P	19 18 28.5	0.0			
BTO	48.8	61	eP	19 18 41.4	−4.7			
XAN	49.1	70	P	19 18 48.9	−0.1			
GYA	49.4	80	P	19 18 51.0	0.1			
BJI	53.5	61	eP	19 19 21.0	−0.7			
WHN	54.5	73	P	19 19 30.0	0.7			
QZN	54.9	88	eP	19 19 31.4	−0.6			
TIA	55.1	65	eP	19 19 33.7	0.0			

JUL 23d 19h 55m 56.1 ± 0.12s, SD1.06 / 66
6.50 S ± 1.25km, 152.93 E ± 1.53km, h22 ± 0.28km
New Britain region (192)
m_b5.4 / 2,

QZN	49.4	302	eP	20 04 48.4	1.3			
WHN	52.2	317	P	20 05 09.7	1.9			
DL2	53.7	330	eP	20 05 20.0	0.9			
TIA	54.2	324	eP	20 05 22.3	−0.2			
MDJ	55.0	340	eP	20 05 28.5	−0.6			
GYA	55.5	308	P	20 05 33.2	0.5			
CN2	55.9	336	eP	20 05 34.4	−0.8			
BJI	57.4	327	eP	20 05 45.0	−0.7			
			eS	20 13 42.0	2.3			
XAN	57.9	317	P	20 05 49.6	−0.2			
TIY	57.9	323	eP	20 05 49.8	0.0			
KMI	58.0	305	−P	20 05 51.5	0.8			
CD2	59.9	311	eP	20 06 03.6	−0.1			
HHC	60.5	325	+P	20 06 08.0	0.4			
BTO	61.2	324	P	20 06 14.0	1.4			
LZH	62.5	316	eP	20 06 21.5	0.1			
			PMZ	$m_b = 5.3$		2.0	0.080	
GTA	67.0	318	eP	20 06 50.4	0.2			
WMQ	77.1	318	eP	20 07 52.4	2.1			

JUL 23d 22h 32m 37.6 ± 0.14s, SD1.08 / 67
6.40 S ± 1.20km, 152.94 E ± 1.54km, h36 ± 0.59km
New Britain region (192)
M_S5.0 / 2, m_B5.6 / 2, m_b5.3 / 5,

SSE	48.1	323	eP	22 41 15.0	−1.2			
			esS	22 48 25.0	−3.6			
			LZ	$M_S = 4.7$		20.0	0.74	
QZN	49.4	302	eP	22 41 28.0	1.6			
WHN	52.1	317	+P	22 41 48.5	1.6			
DL2	53.6	330	eP	22 41 58.5	0.4			
TIA	54.1	324	eP	22 42 00.0	−1.6			
MDJ	55.0	340	eP	22 42 07.4	−0.6			
GYA	55.5	308	P	22 42 12.6	0.7			
CN2	55.8	336	eP	22 42 13.8	−0.3			
BJI	57.3	327	eP	22 42 25.0	0.2			
			PMZ			3.0	0.54	
			eS	22 50 23.0	6.0			
			LZ	$M_S = 4.6$		28.0	0.71	
TIY	57.9	323	eP	22 42 28.6	−0.3			
			eS	22 50 25.0	0.3			
			sS	22 50 39.0	−2.3			
			LZ	$M_S = 4.8$		22.0	0.91	
XAN	57.9	317	+P	22 42 29.0	0.1			
KMI	58.0	305	−P	22 42 30.0	0.0			
CD2	59.9	311	eP	22 42 42.4	−0.5			
HHC	60.4	325	−P	22 42 47.0	0.4			
BTO	61.2	324	P	22 42 52.4	0.8			
LZH	62.5	316	eP	22 43 00.0	−0.5			
			PMZ	$m_b = 5.6$		2.5	0.20	
			pP	22 43 12.5	2.1			
GTA	66.9	318	eP	22 43 30.4	1.1			
WMQ	77.0	318	P	22 44 30.0	0.6			
KSH	84.1	311	+iP	22 45 10.0	2.8			
			eS	22 55 31.0	2.5			

JUL 24d 00h 29m 54.3 ± 0.06s, SD1.14 / 29
22.32 S ± 1.30km, 176.92 W ± 0.99km, h239 ± 0.81km
South of Fiji (171)

CN2	84.3	322	eP	00 42 02.3	0.6			
BJI	87.9	315	eP	00 42 19.0	0.2			
TIY	89.2	312	+P	00 42 25.8	0.5			
XAN	90.0	307	P	00 42 29.6	0.6			

JUL 24d 05h 04m 37.7 ± 0.07s, SD0.86 / 80
11.57 N ± 1.03km, 141.47 E ± 1.14km, h32 ± 0.03km
Western Caroline Islands (209)
M_S4.8 / 6, m_b5.1 / 3,

SSE	27.0	319	P	05 10 19.0	−0.2			
			PMZ	$m_b = 5.1$		1.0	0.040	
			pP	05 10 30.8	2.8			
			LE	$M_S = 4.5$		17.0	0.77	
QZN	31.4	288	eP	05 10 59.0	0.9			
WHN	31.4	311	−iP	05 10 59.5	0.8			
			LZ	$M_S = 4.8$		20.0	1.80	
DL2	32.5	330	eP	05 11 07.5	−0.2			
			eS	05 16 19.0	−0.4			
			LZ	$M_S = 4.7$		20.0	1.51	
SNY	34.0	336	eP	05 11 21.0	0.3			
			eS	05 16 41.0	−2.0			
			LN	$M_S = 4.9$		20.0	1.09	
			LE			20.0	1.08	
MDJ	34.5	345	eP	05 11 24.5	−0.7			
CN2	35.0	340	eP	05 11 30.2	0.8			
GYA	35.9	299	P	05 11 39.2	1.4			
BJI	36.1	326	eP	05 11 39.0	−0.1			
			epP	05 11 50.5	2.4			
			PcP	05 14 05.0	0.7			
			eS	05 17 18.0	1.9			
			LZ	$M_S = 4.3$		22.0	0.63	
TIY	36.8	320	+P	05 11 45.0	0.1			
			eS	05 17 24.0	−2.7			
			LN	$M_S = 4.8$		12.0	0.56	
XAN	37.2	312	+P	05 11 47.6	−0.4			

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KMI	39.0	296	+P	05 12 05.0	1.4			
CD2	39.8	305	+iP	05 12 10.2	0.1			
BTO	40.0	322	P	05 12 12.0	0.0			
			pP	05 12 20.0	−0.9			
			eS	05 18 15.0	−0.9			
LZH	41.8	312	eP	05 12 27.0	0.4			
			PMZ	m_b=5.3		1.5	0.080	
			LZ	M_S=4.6		20.0	0.79	
GTA	46.1	314	+iP	05 13 01.2	−0.3			
WMQ	56.2	315	+P	05 14 17.0	−0.4			
KSH	63.9	308	eP	05 15 10.5	0.1			

JUL 24d 08h 58m 26.2±0.09s, SD0.96/63
21.97 S±1.50km, 175.10 E±1.53km, h25±0.10km
Loyalty Islands region (189)
m_b5.6/4,

SSE	73.9	314	eP	09 10 00.8	−0.7			
			PMZ	m_b=5.0		1.5	0.030	
			pP	09 10 08.4	−1.1			
			LZ	M_S=4.8		20.0	0.46	
GZH	75.0	303	eP	09 10 08.0	0.2			
QZN	75.7	298	eP	09 10 12.8	0.7			
NJ2	76.0	313	+P	09 10 14.0	0.1			
			pP	09 10 22.3	0.4			
WHN	78.3	310	P	09 10 27.0	0.5			
			pP	09 10 35.5	0.9			
			PP	09 13 20.0	−4.5			
DL2	78.6	320	eP	09 10 28.0	−0.1			
			pP	09 10 37.0	0.9			
			eS	09 20 21.0	−1.3			
TIA	79.7	316	−P	09 10 33.9	−0.3			
CN2	79.7	326	eP	09 10 34.0	−0.4			
			pP	09 10 43.4	1.0			
GYA	81.9	303	P	09 10 46.0	0.0			
BJI	82.6	318	eP	09 10 49.0	−0.3			
			epP	09 10 57.0	−0.4			
			eS	09 21 10.0	6.1			
			LZ	M_S=4.7		22.0	0.38	
TIY	83.6	315	eP	09 10 54.5	−0.3			
			PMZ	m_b=5.8		1.1	0.10	
			pP	09 11 03.5	0.8			
			S	09 21 18.0	5.3			
			LZ	M_S=4.9		24.0	0.67	
XAN	84.0	310	P	09 10 57.3	0.4			
KMI	84.4	300	−P	09 10 59.5	0.7			
CD2	86.3	305	eP	09 11 08.3	0.3			
BTO	86.7	316	P	09 11 11.0	0.6			
LZH	88.7	310	eP	09 11 20.0	0.3			
			PMZ	m_b=5.5		2.0	0.080	
GTA	93.0	311	eP	09 11 40.2	0.3			

JUL 24d 14h 47m 50.6±0.14s, SD1.20/72
6.41 S±1.36km, 152.97 E±1.98km, h30±0.28km
New Britain region (192)
M_S5.0/2, m_b5.5/4,

QZH	45.7	314	eP	14 56 13.0	1.7			
SSE	48.1	323	P	14 56 30.0	−0.1			
			eS	15 03 24.0	−2.1			
			LZ	M_S=4.8		20.0	0.93	
NJ2	50.2	322	−P	14 56 47.4	1.2			
WHN	52.1	317	P	14 57 03.0	2.2			
			PMZ	m_b=5.6		1.7	0.13	
			eS	15 04 28.0	6.0			
			LZ	M_S=4.9		24.0	1.40	
TIA	54.1	324	eP	14 57 15.3	−0.2			
MDJ	55.0	340	eP	14 57 21.5	−0.4			
GYA	55.5	308	P	14 57 27.2	1.4			
CN2	55.8	336	+P	14 57 28.6	0.6			
BJI	57.3	327	eP	14 57 38.0	−0.7			
			eS	15 05 32.0	0.4			
			LZ	M_S=4.6		24.0	0.65	
TIY	57.9	323	eP	14 57 42.2	−0.6			
			eS	15 05 36.5	−2.9			
			LN	M_S=5.1		13.0	0.64	
XAN	57.9	317	P	14 57 41.4	−1.4			
KMI	58.0	305	+P	14 57 45.0	1.1			
CD2	59.9	311	eP	14 57 55.2	−1.6			
BTO	61.2	324	P	14 58 05.0	−0.5			
			pP	14 58 15.0	0.6			
			S	15 06 21.0	0.5			
LZH	62.5	316	eP	14 58 14.0	−0.4			
			PMZ	m_b=5.5		2.5	0.16	
			LZ	M_S=4.6		26.0	0.57	
GTA	66.9	318	eP	14 58 43.4	0.2			
WMQ	77.0	318	P	14 59 43.5	0.2			
			eS	15 09 33.0	3.9			
			LZ	M_S=4.7		24.0	0.43	
KSH	84.1	311	eP	15 00 21.0	−0.2			
			eS	15 10 43.0	−0.2			

JUL 24d 15h 47m 56.0±0.09s, SD0.78/39
12.93 N±0.76km, 143.35 E±0.59km, h181±0.69km
South of the Marianas (210)
m_b5.0/2,

WHN	32.0	308	P	15 54 08.5	0.9			
QZN	32.7	285	eP	15 54 13.8	−0.3			
BJI	36.1	323	eP	15 54 42.0	−0.2			
GYA	36.9	297	P	15 54 51.4	1.8			
TIY	37.0	317	+P	15 54 50.8	0.7			
XAN	37.7	310	P	15 54 55.2	−0.5			
CD2	40.6	303	P	15 55 20.0	0.1			
LZH	42.3	310	eP	15 55 34.5	0.5			
			PMZ	m_b=5.0		1.5	0.070	
GTA	46.5	313	−iP	15 56 07.6	0.1			
WMQ	56.5	314	+P	15 57 22.0	−0.2			

JUL 24d 17h 47m 40.0±0.10s, SD2.35/30
39.58 N±1.11km, 118.12 E±1.02km, h11±0.02km
North-Eastern China (658)
M_L4.1/21,

BJI	1.6	288	−Pg	17 48 08.0	0.4			
			Sg	17 48 27.5	−1.6			
DL2	2.8	103	Pn	17 48 24.8	−0.4			
			Pg	17 48 31.4	1.8			
			Sg	17 49 07.7	−0.3			
			SMN	M_L=3.8		0.8	0.61	
			SME			0.8	0.32	
TIA	3.5	193	Pn	17 48 32.6	−1.5			
			Pg	17 48 39.6	−1.4			
			Sg	17 49 21.5	−6.8			
			SMN	M_L=3.7		0.3	0.18	
			SME			0.3	0.24	
SNY	4.7	60	ePg	17 49 06.4	3.1			
			Sg	17 50 09.6	1.8			
			SMN	M_L=4.3		1.0	0.53	
			SME			1.0	0.34	
TIY	4.8	249	+Pn	17 48 53.4	0.4			
			Pg	17 49 06.0	0.9			
			Sn	17 49 50.6	−0.3			
			Sg	17 50 06.0	−5.1			
			SMN	M_L=4.1		0.8	0.23	
			SME			0.8	0.31	
HHC	5.2	286	ePg	17 49 08.0	−3.5			
			Sg	17 50 21.3	−0.7			
			SMN	M_L=4.3		1.0	0.24	
			SME			1.0	0.49	

BTO	6.3	282	Pg	17 49 33.3	2.0			
			Sg	17 50 54.6	−2.5			
			SMN	M_L=3.9		0.8	0.11	
			SME			0.8	0.040	
SSE	8.8	163	eP	17 49 46.0	−4.7			
			SME	M_L=3.8		1.0	0.020	
WHN	9.5	200	eP	17 50 02.2	1.9			

JUL 24d 18h 46m 08.8±0.12s, SD2.05/49
19.99 N±1.76km, 122.05 E±1.74km, h47±1.05km
Philippine Islands region (248)
M_S4.3/10, M_L4.0/2,

QZH	5.9	328	eP	18 47 31.5	−4.1			
			LN	M_S=3.8		12.0	1.37	
GZH	8.7	292	eP	18 48 17.0	2.4			
			eS	18 49 44.9	−6.2			
QZN	11.6	267	eP	18 48 53.2	−0.8			
			eS	18 51 02.6	0.7			
			LN	M_S=4.0		14.0	0.80	
NJ2	12.3	347	eP	18 49 06.4	1.7			
			S	18 51 19.0	−1.7			
WHN	12.6	328	eP	18 49 08.2	0.1			
			LN	M_S=4.3		11.0	0.70	
			LE			10.0	0.80	
GYA	15.5	297	P	18 49 47.0	0.4			
XAN	18.2	323	P	18 50 19.9	−0.2			
KMI	18.5	290	−P	18 50 29.0	4.7			
DL2	18.9	359	eP	18 50 29.0	1.2			
			LE	M_S=4.4		12.0	0.67	
TIY	19.5	337	eP	18 50 35.0	−0.6			
			PP	18 50 53.0	−0.4			
			S	18 54 12.0	4.7			
			sS	18 54 27.0	4.0			
			LN	M_S=4.4		13.0	0.64	
			LE			14.0	0.55	
BJI	20.6	347	eP	18 50 48.0	1.2			
			eS	18 54 31.0	1.6			
			LZ	M_S=4.1		12.0	0.42	
BTO	23.0	336	eP	18 51 11.5	0.9			
			pP	18 51 18.0	−3.5			
			eS	18 55 16.0	2.7			
			LN	M_S=4.7		12.0	0.56	
			LE			15.0	1.06	
MDJ	25.3	13	eP	18 51 34.0	0.7			

JUL 24d 21h 28m 48.2±0.11s, SD2.45/10
35.87 N±0.23km, 80.98 E±0.84km, h22±1.36km
Kashmir–Tibet border region (304)
M_S3.6/2, M_L4.6/4,

KSH	5.4	314	Pn	21 30 11.0	2.7			
			Pg	21 30 21.5	−2.4			
			Sn	21 31 13.0	1.2			
			LN	M_S=3.9		10.0	1.60	
WMQ	9.5	31	P	21 31 07.6	1.0			
			SMN			1.0	0.090	
			SME			1.0	0.11	

JUL 24d 21h 51m 32.6±0.14s, SD2.07/44
19.05 N±1.92km, 100.09 E±1.77km, h10±0.49km
Indo–Pacific Peninsula (299)
M_S4.7/16, M_L5.7/3,

QZN	9.2	89	eP	21 53 49.6	0.8			
			eS	21 55 28.4	−5.3			
			LN	M_S=4.5		13.0	3.20	
			LE			13.0	1.40	
GYA	9.5	38	P	21 53 52.4	−1.0			
			LN	M_S=4.7		8.0	1.90	
			LE			8.0	2.30	

CD2	12.3	15	eP	21 54 28.0	−2.5			
			LE	M_S=4.9		10.0	4.30	
XAN	16.9	26	P	21 55 28.0	−2.8			
WHN	17.3	46	eP	21 55 36.5	1.0			
			LN	M_S=4.4		8.0	0.60	
LZH	17.3	10	eP	21 55 36.0	−0.1			
GTA	20.3	359	P	21 56 11.2	−0.5			
			LE	M_S=4.6		13.0	1.20	
TIY	21.5	28	−P	21 56 23.2	−0.7			
			LN	M_S=4.6		11.0	0.76	
			LE			10.0	0.47	
SSE	22.5	54	eP	21 56 32.0	−2.0			
			LN	M_S=5.0		12.0	1.73	
			LE			11.0	1.31	
TIA	22.7	38	eP	21 56 36.1	−0.2			
			LE	M_S=4.4		9.0	0.36	
BTO	23.1	20	P	21 56 40.4	0.4			
			pP	21 56 49.0	3.8			
			PP	21 57 10.0	0.6			
			eS	22 00 41.0	−6.1			
			LN	M_S=4.9		12.0	1.20	
			LE			10.0	0.80	
BJI	25.1	30	eP	21 56 59.0	−0.1			

JUL 24d 22h 16m 37.8±0.16s, SD1.24/29
6.61 S±1.36km, 152.80 E±1.38km, h35±0.55km
New Britain region (192)

MDJ	55.1	340	eP	22 26 08.5	−0.8
GYA	55.5	308	P	22 26 13.0	0.8
CN2	55.9	336	eP	22 26 15.5	0.2
BJI	57.4	327	eP	22 26 25.0	−0.7
XAN	57.9	317	P	22 26 29.4	−0.1
BTO	61.2	324	eP	22 26 53.0	0.6
LZH	62.5	316	eP	22 27 00.0	−1.1
			pP	22 27 08.5	−2.4
GTA	67.0	318	eP	22 27 30.2	0.3
WMQ	77.1	318	eP	22 28 31.0	1.0
KSH	84.1	311	eP	22 29 09.5	1.9

JUL 24d 22h 22m 50.7±0.09s, SD1.73/31
18.29 N±1.33km, 146.64 E±2.19km, h93±0.67km
Marianas (216)

BJI	34.0	316	eP	22 29 33.0	4.8
GTA	45.5	308	eP	22 31 06.4	3.3
WMQ	55.2	311	eP	22 32 17.5	0.5

JUL 24d 23h 41m 12.8±0.08s, SD1.19/58
1.48 N±0.94km, 127.48 E±1.59km, h157±0.40km
Molucca Passage (266)

GZH	25.5	328	P	23 46 28.4	0.0
WHN	31.5	338	P	23 47 23.5	1.4
GYA	31.9	323	P	23 47 26.6	0.7
KMI	33.5	317	+P	23 47 41.5	1.7
CD2	36.9	325	P	23 48 08.0	−0.3
TIY	38.6	341	eP	23 48 24.0	1.2
BJI	39.7	346	eP	23 48 31.5	−0.4
SNY	40.3	355	+P	23 48 36.9	0.2
LZH	40.8	330	eP	23 48 42.5	1.6
GTA	45.4	330	P	23 49 18.2	0.2
WMQ	55.0	326	P	23 50 31.0	0.5

JUL 25d 06h 46m 05.4±0.08s, SD1.02/100
6.11 S±1.13km, 133.79 E±1.60km, h27±0.19km
Aroe Islands region (204)
M_S6.6/44, m_B6.9/25, m_b6.5/16,

QZH	34.2	335	−iP	06 52 51.0	−0.4
			sP	06 53 04.0	0.8
			iS	06 58 13.0	−2.7

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			SMN		$m_B=6.9$		10.0	21.7	CN2	50.2	352	−iP	06 55 01.8	0.0		
			LN		$M_S=6.3$		17.0	33.9				PMZ		$m_B=6.9$	5.0	8.60
QZN	34.4	317	−P	06 52 52.0		−0.6						pP	06 55 10.5	0.4		
			pP	06 52 59.0		−1.8						eS	07 02 10.0	−1.5		
			sP	06 53 05.0		0.6						SMN		$m_B=6.8$	12.0	8.50
			S	06 58 10.0		−6.9						SME			12.0	10.8
			LN		$M_S=6.5$		15.0	38.1				LN		$M_S=6.7$	18.0	41.4
			LE				15.0	25.9	LZH	50.5	328	−iP	06 55 04.5	0.5		
SSE	38.9	343	+iP	06 53 31.8		0.9						PMZ		$m_b=6.8$	2.5	2.96
			PMZ		$m_b=6.6$		1.0	1.00				sP	06 55 20.0	4.3		
			pP	06 53 40.0		0.8						S	07 02 15.0	1.0		
			sP	06 53 43.0		0.1						SMN			14.0	41.1
			S	06 59 21.0		−5.6						SS	07 05 45.0	−0.4		
			SS	07 02 04.0		−6.3						LN		$M_S=6.7$	15.0	27.2
			LN		$M_S=6.5$		18.0	35.9				LE			14.0	17.6
			LE				16.0	16.3	MDJ	50.6	356	−iP	06 55 04.5	−0.3		
NJ2	40.5	340	−iP	06 53 45.5		1.1						pP	06 55 09.8	−3.2		
			PMZ				3.0	5.15				sP	06 55 18.0	1.4		
			iS	06 59 50.5		−1.4						S	07 02 16.0	0.3		
WHN	40.9	334	−iP	06 53 50.0		2.3			HHC	51.0	338	−iP	06 55 08.3	0.7		
			PMZ		$m_b=6.6$		1.0	0.89				PMZ		$m_B=6.6$	5.0	4.00
			pP	06 53 58.5		2.5						S	07 02 23.5	2.9		
			sP	06 54 04.0		4.4						LN		$M_S=6.5$	12.0	5.08
			PcS	06 59 40.0		2.6						LE			16.0	20.9
			S	06 59 58.0		1.1			BTO	51.4	337	−iP	06 55 10.0	−0.4		
			SMN				24.0	79.6				PMZ		$m_B=6.6$	5.0	3.67
			LN		$M_S=6.4$		18.0	29.7				sP	06 55 21.0	−1.1		
GYA	41.7	322	−P	06 53 55.0		0.8						PP	06 57 07.0	−0.3		
			pP	06 54 02.0		−0.4						iS	07 02 26.0	−1.1		
			S	07 00 08.0		−0.5						sS	07 02 40.0	−0.8		
			LN		$M_S=6.6$		16.0	35.2				SS	07 06 00.0	0.6		
			LE				16.0	20.6				LN		$M_S=6.7$	20.0	37.6
KMI	43.3	317	−iP	06 54 08.5		1.0						LE			20.0	28.5
			pP	06 54 20.0		4.4			LSA	54.2	313	−iP	06 55 36.0	3.7		
			LE		$M_S=6.6$		14.0	34.4				pP	06 55 40.8	0.5		
TIA	44.9	341	−iP	06 54 19.8		−0.3						sP	06 55 47.0	3.2		
			PMZ		$m_B=6.5$		10.0	7.80				S	07 03 10.0	4.9		
			sP	06 54 32.0		0.0						LE		$M_S=6.3$	17.0	13.7
			LN		$M_S=6.6$		14.0	9.80	GTA	55.1	328	−iP	06 55 38.6	0.3		
			LE				15.0	28.9				PMZ		$m_B=6.7$	4.0	3.66
XAN	46.3	331	−iP	06 54 32.3		0.7						sP	06 55 53.5	3.4		
			S	07 01 14.5		−1.1						iS	07 03 17.0	−1.1		
CD2	46.7	324	−iP	06 54 33.8		−0.5						LN		$M_S=6.4$	15.0	16.7
			iS	07 01 15.5		−6.2			WMQ	64.8	325	+iP	06 56 44.2	−0.3		
			LN		$M_S=6.7$		16.0	46.0				PMZ		$m_B=7.3$	5.0	17.4
TIY	47.9	337	−iP	06 54 44.2		0.2						PP	06 59 07.0	−1.0		
			PMZ		$m_b=6.5$		1.0	0.73				S	07 05 22.0	1.2		
			pP	06 54 53.0		0.7						LN		$M_S=6.8$	18.0	30.2
			PcP	06 56 16.0		4.2						LE			18.0	14.8
			S	07 01 36.0		−2.0			KSH	70.0	316	−iP	06 57 19.0	1.6		
			SMN				13.0	21.0				PP	06 59 56.0	2.9		
			SME				9.0	10.7				iS	07 06 30.0	4.7		
			ScS	07 04 36.5		4.8						LE		$M_S=7.1$	18.0	58.0
			LN		$M_S=6.3$		15.0	14.9								
SNY	48.6	350	−iP	06 54 48.0		−1.2										
			PMZ		$m_B=6.9$		4.0	7.52								
			sP	06 55 02.5		1.4										
			PcP	06 56 10.0		−4.2										
			iS	07 01 46.0		−2.6										
			SMN				21.0	22.6								
			LN		$M_S=6.8$		20.0	48.9								
			LE				17.5	24.5								
BJI	48.7	342	−iP	06 54 49.5		−0.5										
			PMZ				3.0	11.3								
			S	07 01 47.0		−2.0										
			LN		$M_S=6.8$		20.0	16.4								
			LE				20.0	55.5								
			LZ		$M_S=6.5$		26.0	60.8								

JUL 25d 07h 28m 30.9 ± 0.11s, SD1.54 / 26
3.50 S ± 1.58km, 149.52 E ± 1.76km, h83 ± 0.54km
Bismarck Sea **(203)**

QZN	45.0	301	eP	07 36 41.6	1.4	
WHN	47.7	318	eP	07 37 01.2	−0.1	
BJI	53.0	328	eP	07 37 39.5	−2.6	
CD2	55.4	312	eP	07 37 59.6	0.0	
WMQ	72.6	318	P	07 39 52.0	0.3	

JUL 25d 09h 45m 22.6 ± 0.11s, SD1.65 / 51
46.64 N ± 3.61km, 153.25 E ± 2.31km, h35 ± 0.65km
Kurile Islands **(221)**

MDJ	16.7	272	eP	09 49 16.0	0.8	
CN2	19.7	272	+P	09 49 49.0	−3.5	

SNY	21.7	268	eP	09 50 12.4	−0.6			
DL2	24.3	263	eP	09 50 40.0	1.4			
HHC	30.4	274	P	09 51 34.2	0.0			
TIY	31.2	268	+P	09 51 42.0	0.4			
BTO	31.6	275	eP	09 51 48.5	4.0			
WHN	34.0	256	−P	09 52 06.0	0.5			
XAN	35.6	265	P	09 52 19.6	0.3			
LZH	38.0	272	eP	09 52 40.0	0.4			
GTA	39.1	279	−P	09 52 49.4	0.8			
CD2	41.0	265	P	09 53 04.7	0.5			
GYA	41.8	258	+P	09 53 11.4	0.4			
WMQ	45.1	291	P	09 53 37.2	−0.2			

JUL 25d 10h 20m 42.3 ± 0.08s, SD1.88 / 38
39.40 N ± 2.32km, 142.74 E ± 2.31km, h26 ± 1.12km
Near east coast of Honshu (228)

MDJ	11.1	302	eP	10 23 24.5	2.1			
CN2	13.7	294	eP	10 24 00.0	3.0			
DL2	16.4	275	eP	10 24 34.5	2.2			
SSE	19.4	251	eP	10 25 08.3	−1.3			
BJI	20.4	280	eP	10 25 18.0	−2.4			
WHN	24.8	258	P	10 26 04.5	0.6			
GYA	32.7	258	P	10 27 14.6	−0.7			
CD2	32.8	267	eP	10 27 14.8	−1.1			
GTA	32.9	284	eP	10 27 17.2	−0.2			
WMQ	40.8	295	P	10 28 24.5	1.2			
KSH	50.5	293	eP	10 29 42.0	1.4			

JUL 25d 10h 28m 36.1 ± 0.12s, SD1.18 / 61
52.38 N ± 2.25km, 156.86 E ± 1.13km, h172 ± 0.68km
Kamchatka (217)
m_b4.9 / 2,

MDJ	19.6	258	eP	10 32 52.7	−0.5			
CN2	22.5	260	+iP	10 33 22.5	0.2			
DL2	27.8	255	eP	10 34 10.0	−1.3			
BJI	30.3	262	eP	10 34 33.5	−0.6			
TIY	34.1	262	+P	10 35 06.6	0.2			
NJ2	34.2	249	−P	10 35 08.0	0.8			
XAN	38.6	261	P	10 35 45.3	0.5			
GTA	40.7	275	+iP	10 36 02.6	0.5			
CD2	43.9	262	eP	10 36 27.6	−0.5			
WMQ	45.3	288	P	10 36 40.0	0.7			
GYA	45.4	255	−P	10 36 39.4	−0.6			
QZN	49.4	246	eP	10 37 12.6	2.2			
KSH	54.9	291	eP	10 37 51.5	−0.1			

JUL 25d 12h 00m 18.9 ± 0.16s, SD2.39 / 10
36.42 N ± 1.56km, 82.88 E ± 0.66km, h10 ± 0.02km
Tibet (306)
M_L4.1 / 6,

KSH	6.3	301	Pn	12 01 55.7	3.3			
			Pg	12 02 13.5	3.3			
			Sn	12 03 03.5	−3.1			
			Sg	12 03 31.5	−4.9			
			SMN	M_L = 4.5		0.6	0.30	
			SME			0.5	0.30	
WMQ	8.3	25	eP	12 02 22.6	0.8			
			S	12 03 59.2	3.4			

JUL 25d 13h 11m 32.1 ± 0.12s, SD3.85 / 10
31.26 N ± 1.06km, 103.90 E ± 1.16km, h12 ± 0.29km
Sichuan Province (307)
M_L3.2 / 7,

XAN	5.1	56	Pn	13 12 46.2	−2.1			
			Sn	13 13 44.3	−4.5			
			Sg	13 14 08.3	−2.4			
			SMN	M_L = 3.3		0.8	0.030	
			SME			0.6	0.040	

GYA	5.4	152	ePn	13 12 56.0	3.4			
			Pg	13 13 13.0	6.2			
			SMN	M_L = 3.4		1.0	0.030	
			SME			1.0	0.040	

JUL 25d 14h 27m 11.9 ± 0.08s, SD1.72 / 30
50.94 N ± 3.34km, 179.16 W ± 1.29km, h45 ± 1.06km
Andreanof Islands (7)

CN2	37.4	281	eP	14 34 22.5	−0.4
SNY	39.6	280	eP	14 34 42.6	1.2
BJI	45.2	282	eP	14 35 27.5	0.2
XAN	53.5	281	P	14 36 30.6	−0.4
GTA	55.5	292	+iP	14 36 45.3	−0.3

JUL 25d 16h 41m 05.6 ± 0.12s, SD2.26 / 21
34.85 N ± 1.14km, 79.64 E ± 1.31km, h51 ± 0.50km
Kashmir–Tibet border region (304)
M_L3.8 / 2,

KSH	5.5	329	P	16 42 31.0	3.4			
			S	16 43 31.0	1.8			
WMQ	10.9	32	eP	16 43 40.0	−2.1			
			S	16 45 43.0	0.7			
GTA	16.7	68	eP	16 45 02.6	4.4			
CD2	20.6	94	eP	16 45 42.8	−0.7			
GYA	24.7	102	P	16 46 23.6	0.3			

JUL 25d 18h 19m 21.3 ± 0.06s, SD1.35 / 13
30.29 N ± 1.23km, 141.96 E ± 1.49km, h34 ± 0.31km
South of Honshu (211)

MDJ	17.3	329	eP	18 23 24.0	1.7
CN2	18.8	320	eP	18 23 39.0	−1.8
BJI	23.1	302	eP	18 24 26.0	0.1
TIY	25.5	295	eP	18 24 50.2	1.5

JUL 25d 19h 24m 30.9 ± 0.15s, SD1.14 / 70
51.21 N ± 0.55km, 176.16 W ± 1.15km, h46 ± 1.62km
Andreanof Islands (7)
m_b5.8 / 2,

MDJ	36.2	281	eP	19 31 30.5	−1.4			
CN2	39.2	283	−P	19 31 57.4	0.7			
			pP	19 32 06.4	−2.0			
SNY	41.4	281	−iP	19 32 16.2	1.1			
DL2	44.4	279	eP	19 32 41.0	2.1			
BJI	47.0	284	P	19 33 00.5	0.4			
			eS	19 39 48.0	0.4			
HHC	49.3	288	−P	19 33 20.9	2.7			
BTO	50.4	288	+P	19 33 27.0	0.6			
TIY	50.8	284	eP	19 33 30.5	1.4			
XAN	55.3	283	P	19 34 02.6	−0.3			
LZH	57.0	288	eP	19 34 16.0	0.8			
			PMZ	m_b = 5.6		2.0	0.17	
GTA	57.2	294	+iP	19 34 15.8	−0.4			
CD2	60.6	284	eP	19 34 39.8	−0.4			
WMQ	60.8	304	P	19 34 40.7	−0.8			
GYA	62.0	278	P	19 34 49.0	−0.4			
KMI	65.4	280	+P	19 35 11.0	−0.8			
LSA	69.1	291	P	19 35 36.0	0.9			
KSH	69.9	308	P	19 35 41.4	1.2			

JUL 25d 20h 23m 04.7 ± 0.05s, SD1.17 / 32
30.17 N ± 1.40km, 138.01 E ± 1.38km, h508 ± 1.33km
South of Honshu (211)

SNY	16.5	319	+P	20 26 30.6	1.0
BJI	20.4	305	eP	20 27 06.0	−1.2
WHN	20.4	277	P	20 27 09.5	1.7
TIY	22.5	296	+P	20 27 27.0	0.2
XAN	24.9	287	−P	20 27 48.1	−0.6
GYA	27.8	270	−P	20 28 14.0	−0.3

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CD2	29.4	280	P	20 28 28.0	−0.6		
GTA	32.5	297	−P	20 28 54.0	−0.7		

JUL 25d 20h 52m 53.4 ± 0.14s, SD2.21 / 62
11.35 S ± 3.08km, 164.24 E ± 3.35km, h35 ± 1.13km
Solomon Islands (193)
M_S5.2 / 2,

GZH	60.4	305	eP	21 03 02.0	−0.4		
QZN	61.5	299	eP	21 03 07.0	−2.8		
			eS	21 11 25.0	−2.7		
WHN	63.5	312	eP	21 03 25.5	2.6		
			S	21 11 54.4	3.2		
			LZ	M_S = 4.9		20.0	0.76
DL2	63.8	324	eP	21 03 27.5	2.3		
			eS	21 12 00.0	3.3		
			LZ	M_S = 4.7		26.0	0.67
MDJ	63.9	333	eP	21 03 24.5	−1.3		
CN2	65.3	330	+P	21 03 33.2	−1.2		
GYA	67.4	305	P	21 03 50.6	2.6		
BJI	67.8	322	eP	21 03 51.5	1.0		
			eS	21 12 48.0	3.1		
			LZ	M_S = 4.6		20.0	0.36
TIY	68.8	318	eP	21 03 56.0	−0.8		
			LN	M_S = 5.2		18.0	0.73
XAN	69.2	313	eP	21 03 57.4	−2.1		
KMI	70.0	302	+P	21 04 04.0	−0.5		
			pP	21 04 12.0	−2.3		
			S	21 13 16.0	6.0		
HHC	71.1	320	eP	21 04 14.0	3.0		
			LN	M_S = 5.2		10.0	0.24
			LE			9.0	0.31
CD2	71.6	308	eP	21 04 12.7	−1.2		
BTO	72.0	319	eP	21 04 19.5	3.5		
LZH	73.9	313	eP	21 04 29.5	2.1		
GTA	78.2	314	eP	21 04 51.4	−0.6		
WMQ	88.3	315	P	21 05 42.0	−1.3		
			PP	21 09 09.0	−3.1		
			eSKS	21 16 08.0	2.3		
			LZ	M_S = 4.9		24.0	0.51

JUL 25d 23h 42m 34.4 ± 0.13s, SD0.93 / 76
51.05 N ± 1.91km, 157.67 E ± 1.01km, h88 ± 0.76km
Kurile Islands (221)
M_S4.4 / 2, m_b5.4 / 6,

MDJ	19.8	262	eP	23 46 59.5	−1.3		
CN2	22.8	264	eP	23 47 29.4	−1.4		
			eS	23 51 26.0	−3.9		
			LZ	M_S = 4.1		20.0	0.70
SNY	25.0	262	+P	23 47 52.2	0.1		
DL2	27.9	258	eP	23 48 19.0	0.1		
			LZ	M_S = 4.1		28.0	0.68
BJI	30.7	265	eP	23 48 42.5	−0.7		
			LZ	M_S = 4.1		24.0	0.45
SSE	33.5	248	+P	23 49 08.5	0.8		
			PMZ	m_b = 5.2		1.0	0.040
			eS	23 54 18.0	−4.2		
			LZ	M_S = 4.2		20.0	0.46
TIY	34.4	265	−iP	23 49 16.1	0.4		
			PMZ	m_b = 5.4		0.8	0.050
			eS	23 54 37.0	0.3		
			LN	M_S = 4.3		10.0	0.18
WHN	38.0	254	eP	23 49 45.0	−0.5		
XAN	38.9	263	+P	23 49 53.2	−0.5		
LZH	40.8	270	eP	23 50 10.0	0.5		
			PMZ	m_b = 5.6		1.5	0.13
GTA	41.4	277	+iP	23 50 14.2	0.5		
CD2	44.3	264	P	23 50 37.6	0.2		
GYA	45.6	257	+P	23 50 48.6	0.6		
WMQ	46.2	290	+iP	23 50 54.0	0.9		
			PcP	23 52 27.0	−0.1		
KMI	49.0	259	+iP	23 51 15.5	0.9		
QZN	49.3	248	+P	23 51 19.0	2.3		
			pP	23 51 38.8	1.2		
			eS	23 58 16.5	1.1		
LSA	53.0	273	P	23 51 45.8	0.1		
KSH	55.8	292	eP	23 52 05.2	−0.4		

JUL 26d 00h 31m 33.0 ± 0.15s, SD1.73 / 76
55.63 N ± 3.06km, 166.65 E ± 1.59km, h35 ± 0.49km
Komandorsky Islands region (4)
M_S5.5 / 24, m_B5.5 / 2, m_b5.3 / 2,

MDJ	25.9	260	eP	00 37 03.0	−0.7		
			S	00 41 28.0	−0.3		
			LZ	M_S = 5.0		16.0	3.80
CN2	28.7	263	−P	00 37 30.2	0.7		
			pP	00 37 37.0	−1.8		
			eS	00 42 16.0	0.9		
			LN	M_S = 5.3		14.0	3.00
SNY	31.0	262	eP	00 37 50.3	0.1		
			S	00 42 50.0	−1.0		
			LN	M_S = 5.3		13.0	2.07
			LE			13.0	1.46
DL2	34.1	260	eP	00 38 18.0	1.0		
			eS	00 43 41.0	1.1		
			LN	M_S = 5.2		12.0	1.36
			LE			12.0	1.33
BJI	36.4	266	eP	00 38 36.0	−0.5		
			eS	00 44 16.0	0.8		
			LN	M_S = 5.5		14.0	3.07
			LE			14.0	2.38
			LZ	M_S = 5.3		14.0	3.53
HHC	38.5	271	eP	00 38 56.0	2.0		
			eS	00 44 51.0	3.8		
			LN	M_S = 5.6		16.0	3.66
			LE			15.0	2.70
TIA	38.5	261	eP	00 38 55.8	1.4		
			LN	M_S = 5.3		14.0	0.83
			LE			13.0	1.55
BTO	39.5	272	eP	00 39 03.0	0.3		
			sP	00 39 13.0	−3.3		
			eS	00 45 02.5	−0.4		
			LN	M_S = 5.7		16.0	4.70
			LE			16.0	3.90
TIY	40.1	267	P	00 39 09.5	1.9		
			pP	00 39 18.0	0.9		
			eS	00 45 18.5	6.6		
			LN	M_S = 5.6		14.0	3.27
			LE			13.0	1.02
SSE	40.1	252	eP	00 39 11.0	3.3		
			eS	00 45 10.0	−1.9		
			LE	M_S = 5.1		15.0	1.36
NJ2	40.7	255	−P	00 39 14.5	2.4		
			S	00 45 20.5	1.6		
			LN	M_S = 5.2		12.0	0.74
			LE			14.0	1.02
			LZ	M_S = 4.9		13.0	1.08
WHN	44.3	258	eP	00 39 43.5	1.8		
			S	00 46 16.0	3.8		
			LE	M_S = 5.3		14.0	1.62
XAN	44.7	266	P	00 39 48.2	2.9		
GTA	46.1	279	P	00 39 55.0	−1.2		
			eS	00 46 38.0	−1.0		
			LN	M_S = 5.5		17.0	3.01
LZH	46.1	272	eP	00 39 56.5	−0.1		
			LN	M_S = 5.8		16.0	4.43
			LE			16.5	3.75

WMQ	49.7	291	P	00 40 23.5	−0.7		
			S	00 47 31.5	3.0		
			LN	M_S=6.0		18.0	7.36
			LE			18.0	2.83
CD2	50.0	268	eP	00 40 25.0	−1.4		
			S	00 47 38.0	5.5		
			LE	M_S=5.5		14.0	2.25
GYA	51.7	261	P	00 40 39.2	−0.6		
KMI	55.0	264	eP	00 41 04.0	0.1		
			pP	00 41 12.5	−1.0		
			eS	00 48 48.0	5.6		
			LE	M_S=5.0		16.0	0.60
KSH	58.9	295	eP	00 41 31.0	−0.8		
			eS	00 49 32.0	−2.1		
			LN	M_S=5.7		17.0	3.20

JUL 26d 01h 16m 30.0±0.12s, SD1.31/29
55.80 N±2.64km, 166.25 E±1.34km, h34±0.24km
Komandorsky Islands region (4)

BTO	39.3	272	eP	01 23 59.0	1.2		
WHN	44.1	257	eP	01 24 38.0	0.6		
GTA	45.8	278	P	01 24 51.5	0.2		
LZH	45.9	272	eP	01 24 53.0	1.1		
WMQ	49.4	291	eP	01 25 18.6	−0.6		

JUL 26d 05h 53m 39.3±0.13s, SD1.67/22
9.47 N±1.49km, 93.53 E±1.97km, h36±0.21km
Nicobar Islands region (704)

KMI	17.9	28	+P	05 57 50.0	2.8		
QZN	18.4	57	eP	05 57 55.0	1.0		
			eS	06 01 18.0	2.8		
GYA	21.0	35	−P	05 58 22.0	−0.3		
			pP	05 58 31.0	−0.3		
CD2	23.4	23	eP	05 58 45.5	−0.3		
XAN	28.2	28	P	05 59 28.7	−2.9		
GTA	30.3	10	eP	05 59 48.2	−2.1		

JUL 26d 11h 11m 30.2±0.17s, SD1.57/35
0.73 S±1.59km, 120.84 E±2.86km, h60±1.30km
Sulawesi (Celebes) (268)

QZN	22.4	332	eP	11 16 26.6	1.5		
GYA	30.3	334	P	11 17 39.2	0.7		
WHN	31.7	349	eP	11 17 50.5	−0.3		
CD2	35.4	334	eP	11 18 22.8	0.0		
TIY	39.0	349	eP	11 18 54.3	1.0		
BJI	40.8	355	eP	11 19 07.5	−0.3		
BTO	42.3	348	eP	11 19 21.7	1.5		
GTA	44.3	337	−iP	11 19 37.4	0.5		
MDJ	45.8	9	eP	11 19 47.0	−1.5		
WMQ	53.3	330	P	11 20 46.0	−0.1		

JUL 26d 11h 39m 40.4±0.15s, SD1.57/76
8.24 N±1.81km, 123.40 E±2.11km, h48±0.62km
Mindanao (259)
M_S4.8/17, m_g5.5/2, m_b5.2/2,

QZN	17.0	311	+P	11 43 39.0	2.9		
			sP	11 43 49.0	−2.4		
			eS	11 46 45.0	3.6		
			LN	M_S=4.7		15.0	1.90
			LE			14.0	0.80
QZH	17.2	345	+iP	11 43 41.0	1.6		
			LN	M_S=4.3		14.0	0.81
GZH	17.6	328	+P	11 43 45.0	0.6		
			LE	M_S=4.8		14.0	2.16
SSE	22.8	355	eP	11 44 41.5	1.0		
			eS	11 48 46.0	4.2		
			sS	11 49 02.0	1.0		
			LE	M_S=4.6		12.0	0.93

WHN	23.7	340	eP	11 44 50.0	0.6		
			S	11 49 02.0	4.8		
			LZ	M_S=4.7		16.0	1.90
NJ2	24.1	351	+P	11 44 52.0	−0.5		
			S	11 49 08.0	5.3		
GYA	24.1	321	P	11 44 54.0	1.0		
			pP	11 45 02.6	−1.7		
			LN	M_S=4.9		16.0	1.50
			LE			16.0	1.50
KMI	25.9	313	eP	11 45 12.0	1.9		
			pP	11 45 19.0	−2.3		
			S	11 49 40.0	6.9		
			sS	11 49 54.0	0.2		
			LE	M_S=4.8		15.0	1.30
TIA	28.4	349	eP	11 45 31.5	−1.5		
			eS	11 50 22.0	6.9		
			LZ	M_S=4.3		22.0	0.88
XAN	28.9	335	P	11 45 36.7	−0.9		
CD2	29.1	324	P	11 45 38.0	−0.8		
			S	11 50 28.0	3.4		
			LN	M_S=4.8		13.0	0.97
TIY	31.0	343	P	11 45 55.0	−0.8		
			eS	11 50 56.0	0.4		
			LN	M_S=4.7		16.0	0.92
BJI	32.3	350	eP	11 46 06.0	−1.5		
			eS	11 51 16.0	−0.5		
			LZ	M_S=4.4		24.0	0.84
LZH	33.0	330	eP	11 46 13.5	0.2		
			PMZ	m_b=5.5		1.5	0.11
			LN	M_S=4.8		10.0	0.29
			LE			14.0	0.80
SNY	33.4	0	eP	11 46 16.2	−1.1		
			eS	11 51 41.0	6.8		
			LZ	M_S=4.8		18.0	1.66
HHC	34.1	344	eP	11 46 22.2	−1.2		
BTO	34.4	342	eP	11 46 24.0	−1.2		
			sP	11 46 39.0	−3.2		
			eS	11 51 46.0	−2.5		
			LN	M_S=4.9		15.0	0.80
			LE			12.0	0.50
CN2	35.5	3	eP	11 46 33.0	−1.6		
MDJ	36.6	7	eP	11 46 44.0	−0.5		
LSA	37.0	310	eP	11 46 49.3	1.2		
			S	11 52 35.0	6.8		
GTA	37.6	329	eP	11 46 52.4	0.1		
			LE	M_S=4.9		15.0	0.92
WMQ	47.1	325	P	11 48 10.0	−0.4		
			S	11 55 02.0	4.8		
			LZ	M_S=4.9		20.0	1.34

JUL 26d 13h 49m 41.9±0.16s, SD1.84/39
6.60 S±1.67km, 152.85 E±2.32km, h31±0.38km
New Britain region (192)

WHN	52.2	317	+P	13 58 55.6	3.2
BJI	57.4	327	eP	13 59 30.0	−0.5
CD2	60.0	311	eP	13 59 48.0	−0.2
BTO	61.3	324	eP	13 59 58.0	0.8
LZH	62.6	316	eP	14 00 07.0	1.1
GTA	67.0	318	eP	14 00 35.4	0.7
WMQ	77.1	318	P	14 01 36.0	1.2
KSH	84.2	311	eP	14 02 16.0	3.6

JUL 26d 14h 46m 38.4±0.08s, SD2.10/40
39.44 N±1.01km, 118.20 E±0.92km, h11±0.16km
North-Eastern China (658)
M_L4.2/17,

DL2	2.7	100	−Pn	14 47 25.0	2.6
			Pg	14 47 31.5	5.2

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			Sg	14 48 06.0	2.5			
			SMN	$M_L = 4.1$		0.7	1.28	
			SME			0.7	0.71	
TIA	3.3	195	ePn	14 47 31.3	0.4			
			Pg	14 47 39.2	2.0			
			Sg	14 48 23.7	0.9			
			SMN	$M_L = 3.8$		0.4	0.27	
			SME			0.4	0.28	
SNY	4.7	58	ePn	14 47 51.2	1.1			
			Pg	14 48 06.3	4.3			
			Sg	14 49 09.0	2.2			
			SMN	$M_L = 4.5$		1.0	0.82	
			SME			1.0	0.47	
HHC	5.3	288	ePg	14 48 13.2	1.4			
			Sg	14 49 22.3	−1.4			
			SMN	$M_L = 4.5$		0.8	0.35	
			SME			0.8	0.70	
BTO	6.4	283	Pg	14 48 32.4	1.0			
			Sg	14 49 55.8	−2.6			
			SMN	$M_L = 3.9$		0.6	0.070	
			SME			0.6	0.080	
CN2	7.0	49	Pg	14 48 45.3	3.9			
			Sg	14 50 16.2	−0.3			
			SMN	$M_L = 4.8$		1.0	0.49	
			SME			1.0	0.46	
SSE	8.7	163	eP	14 48 46.0	−1.0			
			SME	$M_L = 3.8$		1.0	0.020	
XAN	9.2	237	P	14 48 54.3	0.1			
			SMN			0.8	0.050	
			SME			0.8	0.020	
WHN	9.4	201	eP	14 48 58.6	1.4			
			SMN			1.0	0.060	
			SME			1.0	0.050	
GTA	14.2	276	eP	14 50 03.4	1.1			
CD2	14.5	239	eP	14 50 04.0	−2.5			
GYA	16.1	220	P	14 50 29.4	2.1			
WMQ	23.1	291	eP	14 51 50.0	3.9			

JUL 26d 16h 13m 15.6 ± 0.10s, SD1.86 / 75
34.25 N ± 2.03km, 141.38 E ± 2.10km, h38 ± 0.92km
South of Honshu (211)
M_S4.7 / 14, m_b5.1 / 2,

MDJ	13.8	322	eP	16 16 30.5	−0.3			
			LZ	$M_S = 4.6$		22.0	4.40	
CN2	15.6	312	eP	16 16 56.0	1.3			
			eS	16 19 48.0	1.6			
			LN	$M_S = 4.4$		12.0	1.10	
SNY	15.9	304	eP	16 17 00.1	1.4			
			S	16 19 55.0	1.9			
			LZ	$M_S = 4.3$		16.0	1.41	
DL2	16.5	292	eP	16 17 09.0	2.6			
			epP	16 17 19.0	4.5			
			LN	$M_S = 4.7$		13.0	1.94	
SSE	17.3	265	eP	16 17 21.0	5.1			
			LN	$M_S = 4.7$		12.0	1.73	
NJ2	19.0	270	eP	16 17 38.2	1.3			
			LZ	$M_S = 4.1$		18.0	0.78	
BJI	20.9	293	eP	16 17 56.5	−0.6			
			eS	16 21 45.0	2.2			
			LN	$M_S = 4.4$		12.0	0.33	
			LE			12.0	0.45	
			LZ	$M_S = 4.1$		20.0	0.67	
WHN	23.1	268	eP	16 18 21.0	1.8			
			eS	16 22 27.0	3.4			
			LZ	$M_S = 4.4$		20.0	1.20	
TIY	23.6	287	eP	16 18 26.5	1.9			
			S	16 22 31.0	−1.4			
			LN	$M_S = 4.8$		15.0	1.55	
HHC	24.5	294	eP	16 18 33.5	0.8			
BTO	25.6	294	eP	16 18 45.0	1.4			
			PP	16 19 25.0	2.0			
			eS	16 23 11.0	4.1			
			LN	$M_S = 4.9$		19.0	1.43	
			LE			19.0	1.78	
XAN	26.8	279	P	16 18 53.3	−1.3			
LZH	30.6	284	eP	16 19 28.5	−0.5			
			LN	$M_S = 5.0$		20.0	2.40	
GYA	30.8	265	P	16 19 30.0	−0.8			
CD2	31.8	275	eP	16 19 37.4	−1.5			
GTA	33.5	291	P	16 19 53.0	−0.7			
WMQ	42.1	300	P	16 21 08.5	2.1			
			S	16 27 22.0	−0.3			
KSH	51.6	296	eP	16 22 23.0	2.0			
			eS	16 29 40.0	1.9			

JUL 26d 16h 35m 35.9 ± 0.13s, SD1.15 / 36
24.03 S ± 1.39km, 179.78 E ± 0.52km, h538 ± 1.79km
South of Fiji (171)

WHN	82.9	308	+P	16 47 07.0	1.0			
CN2	83.9	324	eP	16 47 10.8	0.1			
GYA	86.6	301	P	16 47 24.8	0.6			
BJI	87.0	316	eP	16 47 26.0	0.3			
TIY	88.1	313	−P	16 47 31.9	0.7			
XAN	88.7	308	−P	16 47 34.3	0.7			
KMI	89.1	298	eP	16 47 37.5	1.4			
CD2	91.0	303	eP	16 47 45.6	1.3			
GTA	97.6	310	P	16 48 14.4	−0.3			

JUL 26d 19h 12m 06.7 ± 0.13s, SD1.17 / 85
6.37 S ± 1.54km, 152.75 E ± 1.78km, h31 ± 0.28km
New Britain region (192)
M_S5.0 / 10, m_B5.8 / 7, m_b5.9 / 7,

SSE	47.9	323	eP	19 20 43.0	−1.7			
			eS	19 27 38.0	−1.5			
			sS	19 27 52.0	−2.7			
			LZ	$M_S = 5.0$		20.0	1.85	
QZN	49.2	302	eP	19 20 58.0	3.3			
			pP	19 21 03.0	−0.7			
			eS	19 27 59.0	1.4			
			LE	$M_S = 4.8$		12.0	0.40	
WHN	52.0	317	eP	19 21 16.3	1.0			
			PMZ	$m_b = 5.8$		1.5	0.18	
			sP	19 21 24.0	−4.3			
			S	19 28 37.0	2.8			
			LZ	$M_S = 5.1$		26.0	2.20	
TIA	53.9	324	eP	19 21 29.9	−0.3			
MDJ	54.9	340	eP	19 21 36.0	−0.9			
			pP	19 21 43.5	−2.7			
			S	19 29 16.0	2.4			
			LZ	$M_S = 5.2$		28.0	2.80	
SNY	54.9	334	eP	19 21 37.4	0.4			
			S	19 29 17.0	3.3			
			LZ	$M_S = 5.0$		29.0	2.03	
GYA	55.3	308	P	19 21 41.2	0.9			
			pP	19 21 49.0	−0.4			
CN2	55.7	336	+P	19 21 43.0	0.0			
			sP	19 21 55.0	−1.0			
BJI	57.2	327	eP	19 21 53.5	0.0			
			ePP	19 24 07.0	5.7			
			eS	19 29 46.0	0.6			
			LZ	$M_S = 4.9$		28.0	1.34	
XAN	57.7	317	−P	19 21 55.7	−1.8			
TIY	57.7	323	eP	19 21 56.5	−1.0			
			LN	$M_S = 5.0$		15.0	0.55	
KMI	57.8	305	eP	19 21 59.0	0.6			
			PP	19 24 10.0	2.7			

			eS	19 29 50.0	−4.5			
			LZ	M_S=4.8		24.0	0.90	
CD2	59.7	311	P	19 22 11.4	0.0			
			eS	19 30 21.0	2.1			
HHC	60.3	325	eP	19 22 15.3	0.0			
			pP	19 22 27.0	2.6			
			S	19 30 23.0	−1.8			
			SMN	m_B=5.7		9.0	0.50	
			SME			10.0	0.89	
BTO	61.0	324	−P	19 22 20.5	0.2			
			pP	19 22 26.5	−2.9			
			PP	19 24 37.5	1.5			
			S	19 30 36.5	2.3			
			SS	19 34 38.0	2.8			
			LN	M_S=5.0		13.0	0.30	
			LE			13.0	0.30	
LZH	62.3	316	P	19 22 30.0	0.9			
			PMZ	m_b=5.9		2.0	0.33	
			eS	19 30 57.0	4.8			
			LZ	M_S=4.9		28.0	1.22	
GTA	66.8	318	−P	19 22 58.6	0.6			
			eS	19 31 52.0	4.9			
			LZ	M_S=4.9		24.0	0.95	
LSA	69.1	305	P	19 23 13.4	0.6			
			SME	m_B=5.8		7.0	0.69	
WMQ	76.8	318	−P	19 23 58.2	0.0			
			PMZ	m_b=5.5		2.0	0.12	
			S	19 33 44.0	2.8			
			LZ	M_S=5.1		20.0	0.95	
KSH	83.9	311	P	19 24 38.0	1.9			
			eS	19 34 58.0	0.9			
			SME	m_B=5.5		8.0	0.30	

JUL 26d 19h 46m 59.3±0.09s, SD1.19/20
6.54 S±0.90km, 152.72 E±0.97km, h47±0.49km
New Britain region (192)

BJI	57.3	327	eP	19 56 45.0	−0.2			
BTO	61.1	324	eP	19 57 12.0	0.0			
LZH	62.4	316	eP	19 57 21.5	0.9			
GTA	66.9	318	eP	19 57 50.0	0.5			
WMQ	77.0	318	eP	19 58 50.0	0.4			

JUL 26d 21h 30m 46.7±0.09s, SD1.30/75
13.97 N±1.50km, 93.21 E±1.32km, h34±0.31km
Andaman Islands region (703)
M_S4.3/5, m_b5.1/2,

KMI	14.3	38	eP	21 34 12.0	3.3			
			LE	M_S=4.3		14.0	1.00	
LSA	15.8	353	P	21 34 25.4	−3.1			
QZN	16.7	70	eP	21 34 44.8	4.6			
			eS	21 37 45.0	1.0			
			LE	M_S=4.2		15.0	0.70	
GYA	17.7	43	P	21 34 54.4	1.9			
CD2	19.5	28	P	21 35 12.0	−1.5			
LZH	24.0	22	P	21 36 00.0	0.3			
			PMZ	m_b=4.8		1.5	0.060	
			LE	M_S=4.2		14.0	0.37	
XAN	24.5	33	P	21 36 04.0	−0.8			
WHN	25.5	46	eP	21 36 15.2	1.2			
GTA	26.0	12	+P	21 36 19.6	0.8			
TIY	29.2	32	−P	21 36 48.0	0.5			
			eS	21 41 39.0	2.5			
			SS	21 43 11.0	4.3			
			LN	M_S=4.5		11.0	0.44	
KSH	29.6	332	P	21 36 53.0	1.2			
WMQ	30.1	352	P	21 36 57.0	1.2			
			eS	21 41 54.0	2.7			
			LZ	M_S=4.1		20.0	0.47	

BTO	30.3	26	eP	21 36 57.5	−0.3			
			eS	21 41 55.0	0.2			
			LN	M_S=4.5		15.0	0.50	
			LE			15.0	0.30	
TIA	30.8	40	eP	21 37 01.3	−0.7			
SSE	30.8	52	eP	21 37 02.5	0.4			
			LZ	M_S=4.3		16.0	0.53	
HHC	31.2	27	eP	21 37 05.4	−0.2			
BJI	32.9	34	eP	21 37 19.5	−0.5			
			LZ	M_S=4.0		24.0	0.32	
CN2	40.5	36	eP	21 38 25.0	0.3			

JUL 26d 22h 55m 20.9±0.15s, SD3.33/22
35.28 N±1.16km, 118.57 E±1.51km, h12±0.42km
Eastern China (664)
M_L3.7/17,

TIA	1.5	309	ePn	22 55 47.5	−0.7			
			Pg	22 55 49.0	1.5			
			Sg	22 56 07.0	−1.1			
NJ2	3.2	176	+Pg	22 56 18.6	0.7			
			Sg	22 56 59.0	−3.0			
			SMN	M_L=4.1		0.5	0.76	
			SME			0.5	0.63	
DL2	4.4	33	Pg	22 56 42.5	4.4			
			eSg	22 57 34.7	−3.1			
			SMN	M_L=4.2		0.8	0.27	
			SME			0.8	0.57	
SSE	4.7	152	ePn	22 56 29.5	−2.7			
			Sn	22 57 26.5	−2.4			
			SME	M_L=3.3		0.5	0.040	
BJI	5.1	339	Pn	22 56 37.0	−0.9			
			Pg	22 56 53.5	2.2			
			Sg	22 58 00.0	−1.3			
			SMN	M_L=3.5		0.9	0.060	
			SME			0.8	0.050	
TIY	5.5	298	ePn	22 56 47.5	4.2			
			Sg	22 58 15.5	2.0			
			SMN	M_L=4.3		1.0	0.30	
			SME			1.0	0.24	
WHN	5.9	218	ePg	22 57 10.0	4.7			
			Sg	22 58 26.5	0.6			
			SMN	M_L=4.0		0.6	0.070	
			SME			0.7	0.18	
XAN	8.0	264	Pn	22 57 17.9	−0.3			
			Pg	22 57 42.9	−0.1			
			SMN	M_L=3.7		1.0	0.030	
			SME			0.8	0.010	

JUL 27d 04h 36m 11.8±0.17s, SD1.22/35
19.28 S±1.26km, 177.37 W±1.30km, h368±1.82km
Fiji region (181)

DL2	81.3	316	eP	04 47 52.5	2.8
CN2	81.7	322	−P	04 47 51.4	−0.7
WHN	82.2	306	eP	04 47 53.5	−1.1
BJI	85.4	315	eP	04 48 10.0	−0.8
GYA	86.6	299	P	04 48 17.6	1.3
TIY	86.9	312	eP	04 48 18.0	0.1
XAN	87.9	307	P	04 48 23.4	0.9

JUL 27d 05h 00m 06.0±0.07s, SD1.43/42
35.29 N±1.81km, 24.72 E±1.48km, h41±0.47km
Crete (370)

KSH	40.5	68	eP	05 07 43.5	0.7
WMQ	48.3	60	P	05 08 45.0	−0.6
GTA	58.2	62	eP	05 09 58.6	−0.7
CD2	64.7	69	eP	05 10 42.8	0.1
TIY	67.9	59	eP	05 11 02.8	−0.5
GYA	69.0	72	P	05 11 10.4	0.0

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BJI	69.4	55	eP	05 11 11.0	−1.1			
WHN	72.8	65	eP	05 11 35.0	2.0			
CN2	73.4	48	+P	05 11 35.4	−0.8			
QZN	75.4	77	eP	05 11 48.9	0.9			

JUL 27d 07h 07m 44.1 ± 0.17s, SD2.38 / 27
31.74 N ± 1.77km, 78.55 E ± 1.75km, h47 ± 0.56km
Tibet–India border region (305)
M_S4.4 / 1,

KSH	8.1	345	P	07 09 43.0	1.5			
			S	07 11 15.8	4.9			
			LE	M_S = 4.4		7.0	1.60	
WMQ	14.1	28	P	07 11 01.6	−1.0			
			S	07 13 43.2	6.5			
GTA	18.9	60	eP	07 11 59.4	−4.3			
LZH	21.4	71	eP	07 12 30.0	−0.5			
CD2	21.5	86	eP	07 12 30.6	−1.0			
GYA	25.1	95	P	07 13 05.0	−1.3			
XAN	25.6	77	P	07 13 11.3	0.5			
BTO	26.8	62	eP	07 13 26.2	4.0			

JUL 27d 12h 17m 18.0 ± 0.10s, SD1.34 / 51
3.28 S ± 2.50km, 68.07 E ± 2.10km, h10 ± 0.27km
Carlsberg Ridge (421)
M_S5.1 / 6, m_b5.3 / 3,

LSA	39.5	32	P	12 24 54.2	2.4			
KSH	43.2	9	eP	12 25 22.0	0.5			
			eS	12 31 50.0	1.8			
			LE	M_S = 5.1		8.0	0.60	
KMI	43.9	48	−P	12 25 29.0	1.5			
			LZ	M_S = 4.7		20.0	1.00	
QZN	46.7	60	eP	12 25 50.5	1.2			
			eS	12 32 41.0	2.7			
			LE	M_S = 5.0		18.0	0.90	
GYA	47.6	49	P	12 25 57.0	0.4			
			pP	12 26 03.6	1.6			
			S	12 32 52.0	1.8			
CD2	48.1	42	eP	12 26 01.2	0.7			
WMQ	50.1	18	P	12 26 16.4	0.5			
			S	12 33 28.0	2.9			
			LZ	M_S = 5.1		20.0	1.97	
LZH	51.5	37	eP	12 26 26.5	0.0			
			PMZ	m_b = 5.3		2.0	0.090	
			LZ	M_S = 4.6		20.0	0.53	
GTA	51.5	31	eP	12 26 26.0	−1.0			
			LZ	M_S = 5.0		22.0	1.82	
XAN	53.5	43	P	12 26 41.4	0.2			
WHN	55.5	49	eP	12 26 55.5	−0.5			
			S	12 34 39.0	0.4			
			LZ	M_S = 4.7		20.0	0.64	
TIY	57.9	41	eP	12 27 13.0	−0.3			
			S	12 35 10.0	−0.4			
			LN	M_S = 5.2		19.0	1.07	
BTO	58.1	37	P	12 27 15.5	0.8			
SSE	61.0	52	eP	12 27 34.0	−0.6			
			eSS	12 39 58.0	6.7			
			LZ	M_S = 5.0		18.0	0.90	
BJI	61.6	41	eP	12 27 38.5	−0.3			
			eS	12 36 00.0	0.4			
CN2	69.5	41	eP	12 28 29.0	−0.4			
MDJ	72.5	41	eP	12 28 45.0	−2.8			
			pP	12 28 48.0	−5.3			

JUL 27d 16h 50m 11.3 ± 0.13s, SD1.34 / 26
51.18 N ± 1.25km, 176.25 W ± 1.03km, h45 ± 1.26km
Andreanof Islands (7)
M_S5.3 / 2,

SNY	41.4	281	+P	16 57 55.6	0.3			
BTO	50.4	288	eP	16 59 07.0	0.4			
TIY	50.7	284	eP	16 59 10.0	0.7			
			S	17 06 20.0	1.3			
			LN	M_S = 5.3		14.0	1.21	
LZH	57.0	288	eP	16 59 54.5	−1.0			
GTA	57.1	293	eP	16 59 54.2	−2.3			
GYA	61.9	278	P	17 00 30.2	0.6			

JUL 27d 16h 58m 16.2 ± 0.09s, SD1.14 / 89
18.75 N ± 1.25km, 145.79 E ± 1.66km, h222 ± 0.31km
Marianas (216)
m_B5.4 / 3, m_b5.1 / 4,

SSE	25.4	304	P	17 03 25.0	−0.4			
			PMZ	m_b = 4.8		1.2	0.030	
			sP	17 04 32.5	−1.6			
			eS	17 07 33.0	−1.1			
			SS	17 09 04.0	1.2			
			LN			12.0	1.16	
QZH	26.0	289	eP	17 03 30.5	0.0			
NJ2	27.6	304	eP	17 03 48.0	2.5			
DL2	29.0	319	eP	17 03 57.5	−0.6			
			pP	17 04 44.0	2.0			
			PP	17 05 00.0	−2.2			
			sP	17 05 07.0	−0.7			
			eS	17 08 30.0	−2.2			
MDJ	29.1	336	eP	17 03 58.0	−1.1			
			pP	17 04 41.0	−2.0			
			S	17 08 34.0	1.0			
SNY	29.8	325	+iP	17 04 03.6	−1.2			
CN2	30.3	330	eP	17 04 08.6	−0.5			
TIA	30.6	310	+P	17 04 11.5	−0.9			
			pP	17 04 56.8	0.1			
			LE			14.0	0.53	
WHN	30.8	298	eP	17 04 14.0	0.4			
			pP	17 05 02.5	4.5			
			eS	17 09 00.0	0.1			
			sS	17 10 15.0	−3.3			
BJI	33.2	316	−P	17 04 33.0	−1.1			
			epP	17 05 16.0	−3.0			
			eS	17 09 31.0	−5.7			
			eScS	17 14 34.0	1.2			
			LE			13.0	0.61	
			LZ			16.0	0.59	
QZN	34.0	276	eP	17 04 41.6	0.5			
			S	17 09 51.0	2.5			
			sS	17 11 11.0	2.4			
			SS	17 12 17.5	6.4			
TIY	34.7	310	eP	17 04 47.2	0.0			
XAN	36.1	302	P	17 04 59.6	0.1			
HHC	36.6	314	P	17 05 03.5	−0.1			
GYA	36.8	289	+P	17 05 06.4	1.2			
			pP	17 05 50.4	−0.3			
			S	17 10 33.0	1.1			
			ScP	17 10 47.0	0.8			
			sS	17 11 52.0	−0.7			
			ScS	17 14 56.6	3.9			
BTO	37.6	313	eP	17 05 12.0	0.5			
			pP	17 05 59.0	1.9			
			sP	17 06 23.0	0.8			
			eS	17 10 44.0	−0.5			
			LN			10.0	0.30	
			LE			10.0	0.30	
CD2	39.8	296	eP	17 05 30.5	0.6			
			sP	17 06 41.0	0.2			
			S	17 11 16.0	−0.7			
			sS	17 12 35.0	−3.5			
			LN			11.0	1.08	
KMI	40.3	287	eP	17 05 35.5	1.3			

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			pP	17 06 20.0	−0.1			
			sP	17 06 45.0	0.0			
			S	17 11 26.0	1.9			
			SMN	$m_B = 5.3$		6.0	0.40	
			sS	17 12 45.0	−1.1			
LZH	40.7	304	P	17 05 37.5	0.2			
			PMZ	$m_b = 5.4$		1.0	0.12	
			pP	17 06 23.0	−0.4			
			LN			16.0	1.26	
GTA	44.6	307	P	17 06 08.0	−0.6			
			LN			15.0	1.20	
LSA	50.6	293	P	17 06 54.2	−1.2			
WMQ	54.3	311	−P	17 07 22.4	−0.1			
			pP	17 08 12.5	1.4			
			S	17 14 42.0	1.1			
			LZ			20.0	0.79	
KSH	63.0	305	P	17 08 23.0	1.0			
			pP	17 09 14.0	1.9			
			eS	17 16 34.0	0.5			
			sS	17 18 04.0	3.5			

JUL 27d 20h 18m 01.6 ± 0.04s, SD0.94 / 23
13.93 N ± 1.65km, 92.99 W ± 1.76km, h31 ± 0.46km
Off coast of Chiapas, Mexico (68)

GTA	125.6	348	ePKP	20 37 01.6	0.3			
LZH	127.8	343	ePKP	20 37 06.0	0.5			
GYA	135.5	335	ePKP	20 37 21.0	0.9			

JUL 27d 20h 50m 52.7 ± 0.09s, SD2.27 / 13
28.71 N ± 1.03km, 105.84 E ± 0.84km, h7 ± 0.39km
Sichuan Province (307)
M_L3.0 / 4,

GYA	2.4	162	+Pn	20 51 32.0	−0.3			
			Pg	20 51 38.2	3.8			
			Sn	20 52 03.8	0.5			
			Sg	20 52 12.4	5.7			
			SMN	$M_L = 3.2$		1.0	0.16	
			SME			1.0	0.14	
XAN	5.9	26	Pn	20 52 23.4	2.1			
			Pg	20 52 43.4	6.0			
			Sn	20 53 36.9	5.2			

JUL 27d 21h 55m 11.0 ± 0.13s, SD1.08 / 103
12.94 S ± 1.31km, 167.11 E ± 1.92km, h182 ± 0.82km
Vanuatu (New Hebrides) (186)
m_B6.3 / 53, m_b6.0 / 12,

SSE	62.1	316	−P	22 05 15.0	−0.4			
			PMZ	$m_B = 6.2$		7.0	2.93	
			pP	22 05 55.0	−2.3			
			sP	22 06 15.0	−2.2			
			S	22 13 26.0	2.4			
			SMN	$m_B = 6.0$		9.0	2.12	
			SME			9.0	2.50	
			sS	22 14 36.0	−1.7			
			ScS	22 14 45.0	0.3			
			LN			15.0	2.26	
			LE			14.0	2.70	
GZH	63.6	304	+iP	22 05 25.7	0.3			
			S	22 13 48.0	5.6			
			SMN	$m_B = 6.3$		9.0	2.98	
			SME			9.0	5.23	
			sS	22 14 56.0	−0.9			
			LN			18.0	10.0	
			LE			18.0	6.71	
NJ2	64.3	315	+iP	22 05 29.0	−0.6			
			PMZ	$m_B = 6.2$		7.5	3.04	
			S	22 13 52.0	1.6			
QZN	64.7	298	+P	22 05 33.0	0.5			
			PMZ	$m_B = 6.2$		8.0	3.20	
			PcP	22 06 04.0	0.3			
			pP	22 06 16.5	1.8			
			sP	22 06 35.0	0.5			
			PP	22 07 59.0	0.5			
			S	22 14 01.0	5.0			
			SMN	$m_B = 6.2$		11.0	3.10	
			SME			11.0	4.80	
			ScS	22 15 07.0	2.4			
			sS	22 15 13.0	2.3			
			SS	22 18 13.0	0.8			
MDJ	66.6	332	+P	22 05 44.8	0.2			
			PMZ	$m_B = 6.4$		7.0	4.90	
			pP	22 06 26.0	−0.9			
			S	22 14 24.0	5.1			
			SME	$m_B = 6.4$		10.0	7.20	
			sS	22 15 37.5	3.5			
			LZ			24.0	13.9	
WHN	66.6	312	+P	22 05 44.5	−0.1			
			PMZ	$m_b = 5.8$		0.8	0.14	
			S	22 14 18.0	−0.9			
			SME	$m_B = 6.0$		9.0	2.57	
			sS	22 15 30.0	−4.1			
DL2	66.8	323	+iP	22 05 46.0	0.5			
			pP	22 06 26.0	−1.9			
			sP	22 06 52.0	4.3			
			eS	22 14 19.0	−2.9			
			SMN	$m_B = 6.2$		10.0	2.85	
			SME			10.0	3.37	
			sS	22 15 37.0	1.2			
			LE			13.0	3.90	
SNY	67.6	326	+iP	22 05 50.0	−0.8			
			iS	22 14 34.0	1.9			
			SMN			24.0	10.1	
			SME			20.0	7.30	
			LN			17.0	7.33	
TIA	67.9	318	+P	22 05 51.9	−0.6			
			PMZ	$m_B = 6.0$		7.5	2.25	
			pP	22 06 36.0	1.0			
			PP	22 08 22.0	−4.1			
			S	22 14 35.8	1.8			
			SMN	$m_B = 6.0$		9.0	1.68	
			SME			10.5	2.46	
			ScS	22 15 30.0	0.9			
			LN			12.0	3.39	
			LE			14.0	5.27	
CN2	68.0	329	+iP	22 05 53.0	−0.4			
			PMZ	$m_B = 6.5$		5.0	4.60	
			pP	22 06 37.0	1.1			
			eS	22 14 33.0	−4.0			
			sS	22 15 52.0	0.9			
GYA	70.6	304	+P	22 06 09.0	0.0			
			PMZ	$m_B = 6.1$		8.0	3.20	
			pP	22 06 50.0	−1.6			
			sP	22 07 12.0	0.7			
			S	22 15 06.0	0.7			
			sS	22 16 20.0	−1.2			
BJI	70.8	321	+P	22 06 10.0	0.0			
			PMZ	$m_B = 6.4$		5.0	3.70	
			epP	22 06 54.0	1.2			
			esP	22 07 15.0	2.4			
			eS	22 15 08.0	−1.0			
			LN			15.0	4.10	
TIY	71.8	317	+iP	22 06 17.0	0.5			
			PMZ	$m_b = 6.2$		1.2	0.61	
			pP	22 06 59.0	−0.3			
			sP	22 07 20.5	1.5			
			S	22 15 24.5	4.7			

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			SMN		$m_B = 6.0$		11.5	3.30
			SMN		$m_B = 6.1$		10.0	3.02
XAN	72.4	312	+P	22 06 18.8		−0.8		
KMI	73.2	301	+iP	22 06 25.5		0.6		
			pP	22 07 06.5		−1.1		
			PP	22 09 15.0		3.4		
			iS	22 15 39.0		1.6		
			SMN		$m_B = 6.2$		8.0	2.94
			sS	22 16 51.0		−1.0		
HHC	74.1	319	+P	22 06 30.3		0.4		
			pP	22 07 13.0		0.1		
			S	22 15 47.0		1.6		
			LN				15.0	4.49
			LE				13.0	2.73
CD2	74.8	307	+iP	22 06 34.0		0.3		
			ipP	22 07 18.0		1.2		
			S	22 15 55.0		2.2		
			sS	22 17 09.0		−0.6		
			LN				14.0	3.48
BTO	75.0	319	+iP	22 06 36.0		1.2		
			PMZ		$m_B = 6.2$		8.0	3.85
			pP	22 07 20.0		2.1		
			ePP	22 09 28.0		1.7		
			SKS	22 16 21.0		0.8		
			sS	22 17 14.0		2.4		
			SS	22 20 51.0		1.3		
			LN				17.0	3.80
			LE				16.0	4.80
LZH	77.0	312	+iP	22 06 47.0		0.8		
			PMZ		$m_b = 6.3$		2.5	1.54
			pP	22 07 32.0		2.6		
			S	22 16 22.0		5.2		
			SME		$m_B = 6.3$		10.0	4.19
			LN				18.0	6.80
			LE				18.0	2.90
GTA	81.3	314	+iP	22 07 09.6		0.2		
			PMZ		$m_B = 6.3$		6.0	3.76
			pP	22 07 52.5		−0.5		
			S	22 17 07.0		5.0		
			LN				16.5	3.32
LSA	84.5	302	P	22 07 26.5		0.7		
			pP	22 08 12.0		2.6		
			sP	22 08 32.0		3.3		
			S	22 17 39.0		5.3		
			SME				17.0	12.8
WMQ	91.4	315	+P	22 07 58.0		−0.2		
			PMZ		$m_B = 6.4$		6.0	2.47
			pP	22 08 42.0		−0.7		
			SKS	22 18 11.0		0.8		
			LN				14.0	2.26
			LE				14.0	2.47
KSH	99.0	308	eP	22 08 34.0		0.8		
			pP	22 09 20.0		2.1		
			SKS	22 18 49.0		−2.3		
			S	22 19 44.0		1.3		
			LN				12.0	7.60

JUL 27d 22h 44m 35.0 ± 0.10s, SD0.97 / 86
13.05 S ± 1.18km, 167.19 E ± 2.02km, h186 ± 0.73km
Vanuatu (New Hebrides) (186)
m_B5.8 / 13, m_b6.0 / 9,

SSE	62.3	316	−P	22 54 39.4		−0.5		
			PMZ		$m_b = 5.8$		1.0	0.17
			pP	22 55 19.5		−3.1		
			S	23 02 50.0		1.4		
			SME		$m_B = 5.6$		6.0	0.90
			LE				12.0	0.87
GZH	63.8	304	+P	22 54 49.8		0.0		
			PMZ				3.0	1.31
			S	23 03 11.0		3.7		
			SME		$m_B = 5.6$		9.0	1.33
NJ2	64.4	315	+iP	22 54 54.0		−0.1		
QZN	64.9	298	eP	22 54 57.0		0.1		
			eS	23 03 20.0		−2.0		
MDJ	66.8	332	eP	22 55 09.3		0.2		
WHN	66.8	312	+P	22 55 08.8		−0.2		
			PMZ		$m_b = 5.6$		1.3	0.14
			epP	22 55 52.5		0.3		
			S	23 03 44.0		0.2		
DL2	66.9	323	eP	22 55 10.0		0.0		
			epP	22 55 50.5		−2.7		
			eS	23 03 45.0		−1.9		
			LN				13.0	0.78
SNY	67.8	326	+P	22 55 15.0		−0.3		
CN2	68.2	329	+iP	22 55 18.0		0.2		
GYA	70.7	304	+P	22 55 33.0		−0.3		
			pP	22 56 13.0		−3.7		
			S	23 04 33.0		2.9		
BJI	70.9	321	+P	22 55 34.0		−0.5		
			PMZ		$m_B = 5.8$		5.0	1.05
			epP	22 56 14.0		−4.0		
			eS	23 04 35.0		1.1		
TIY	72.0	317	+iP	22 55 41.5		0.6		
			PMZ		$m_b = 6.0$		1.2	0.38
			pP	22 56 22.0		−2.5		
			sP	22 56 41.0		−3.5		
			S	23 04 49.0		4.4		
			SME		$m_B = 5.3$		9.0	0.50
XAN	72.5	312	P	22 55 44.4		0.4		
KMI	73.4	301	+iP	22 55 50.0		0.8		
			pP	22 56 33.0		0.3		
			PP	22 58 39.5		3.2		
			S	23 05 06.0		5.8		
HHC	74.3	319	+P	22 55 55.0		0.7		
CD2	74.9	307	+iP	22 55 58.0		0.0		
BTO	75.1	319	+iP	22 56 00.0		0.8		
			pP	22 56 45.0		2.0		
			S	23 05 26.0		6.5		
			LN				16.0	0.90
			LE				16.0	1.08
LZH	77.1	312	+iP	22 56 11.5		1.0		
			PMZ		$m_b = 6.1$		2.0	0.82
			S	23 05 47.0		5.5		
			SME		$m_B = 5.9$		5.0	0.91
GTA	81.5	314	+iP	22 56 34.2		0.5		
WMQ	91.5	315	+P	22 57 22.4		0.0		
			PMZ		$m_B = 6.1$		4.0	0.83
			ePP	23 00 57.5		−6.2		
			SKS	23 07 37.0		2.8		
			LZ				20.0	1.74

JUL 27d 23h 44m 47.5 ± 0.27s, SD2.68 / 8
34.63 N ± 1.12km, 122.30 E ± 2.50km, h10 ± km
Yellow Sea (665)
M_L3.4 / 5,

SSE	3.6	195	ePg	23 45 54.0		2.2		
TIA	4.5	292	Pn	23 45 54.5		−1.8		
			Pg	23 46 06.3		−0.8		
			SMN		$M_L = 3.0$		0.3	0.020
			SME				0.3	0.030

JUL 28d 03h 58m 17.7 ± 0.14s, SD1.21 / 76
51.15 N ± 2.21km, 156.78 E ± 1.30km, h121 ± 0.64km
Kurile Islands (221)
m_B5.7 / 3, m_b5.1 / 4,

MDJ	19.3	261	−P	04 02 34.2		−1.7		

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			pP	04 02 57.0	0.3		
			sP	04 03 16.0	3.1		
			S	04 06 01.0	−1.4		
CN2	22.3	263	eP	04 03 03.6	−2.4		
SNY	24.5	261	eP	04 03 27.0	−0.3		
			sP	04 04 08.0	0.9		
			S	04 07 37.0	1.4		
DL2	27.4	257	eP	04 03 54.0	−0.4		
			eS	04 08 24.0	−0.4		
			LZ			25.0	0.39
BJI	30.1	264	eP	04 04 22.5	3.8		
TIA	31.9	258	eP	04 04 33.0	−1.1		
SSE	33.0	246	eP	04 04 45.0	1.2		
			sP	04 05 27.0	2.4		
			eS	04 09 52.0	−0.6		
			SMN	m_B = 5.1		8.0	0.47
TIY	33.9	264	eP	04 04 51.3	0.1		
			S	04 10 06.0	1.1		
			LN			14.0	0.28
WHN	37.5	253	eP	04 05 20.7	−0.7		
			S	04 11 00.0	0.2		
XAN	38.4	262	P	04 05 28.3	−1.1		
QZH	39.2	243	eP	04 05 37.5	1.7		
LZH	40.3	269	P	04 05 45.5	0.5		
			PMZ	m_b = 5.2		2.0	0.080
GTA	40.8	276	P	04 05 49.0	−0.2		
CD2	43.7	263	eP	04 06 12.8	−0.3		
GYA	45.1	256	P	04 06 23.4	−0.5		
WMQ	45.7	289	+P	04 06 29.0	0.3		
			S	04 13 01.5	0.7		
			LZ			16.0	0.30
QZN	48.8	247	eP	04 06 55.0	2.0		
			eS	04 13 47.5	1.5		

JUL 28d 04h 04m 56.9 ± 0.21s, SD1.48 / 60
51.08 N ± 1.95km, 176.06 W ± 1.41km, h51 ± 1.88km
Andreanof Islands (7)
m_b5.4 / 4,

CN2	39.3	283	eP	04 12 22.4	−0.5		
SNY	41.5	282	eP	04 12 40.7	−0.6		
DL2	44.4	279	eP	04 13 05.5	0.5		
BJI	47.1	284	eP	04 13 26.0	−0.3		
TIA	48.9	279	eP	04 13 40.0	−0.3		
HHC	49.4	288	eP	04 13 44.3	−0.1		
SSE	49.7	271	eP	04 13 46.4	−0.1		
			sP	04 14 02.5	−2.1		
BTO	50.5	289	+P	04 13 53.0	0.4		
TIY	50.8	284	−P	04 13 55.5	0.3		
			PMZ	m_b = 5.3		1.0	0.040
			S	04 21 06.5	1.6		
			SMN			14.0	0.47
WHN	54.4	276	eP	04 14 20.4	−1.1		
XAN	55.4	283	P	04 14 27.6	−1.4		
LZH	57.1	288	eP	04 14 40.5	−0.9		
			PMZ	m_b = 5.6		1.5	0.11
			pP	04 14 55.0	0.9		
GTA	57.3	294	P	04 14 40.4	−2.0		
CD2	60.7	284	eP	04 15 05.6	−0.6		
GYA	62.1	278	−P	04 15 16.4	1.0		
KSH	70.1	309	P	04 16 06.0	−0.4		
			eS	04 25 15.0	2.8		

JUL 28d 13h 15m 31.3 ± 0.11s, SD1.43 / 41
18.33 N ± 1.41km, 146.77 E ± 1.82km, h81 ± 0.54km
Marianas (216)

SSE	26.4	304	eP	13 21 03.0	0.5		
			LZ	M_S = 4.4		20.0	0.93
MDJ	29.9	335	eP	13 21 33.6	−0.4		
TIY	35.7	310	eP	13 22 26.7	2.7		
GYA	37.8	290	P	13 22 44.2	1.9		
BTO	38.5	313	eP	13 22 49.0	0.8		
GTA	45.6	308	eP	13 23 45.9	0.3		
WMQ	55.3	311	P	13 25 00.0	0.5		

JUL 28d 14h 38m 10.4 ± 0.28s, SD2.01 / 23
3.16 N ± 3.75km, 97.46 E ± 1.88km, h32 ± 0.41km
Northern Sumatera (706)

GYA	24.8	20	P	14 43 34.2	3.0		
XAN	32.5	18	P	14 44 38.8	−2.2		
GTA	36.1	3	eP	14 45 12.4	0.3		
BJI	40.4	22	eP	14 45 48.0	0.2		
WMQ	41.4	349	eP	14 45 56.5	0.7		
SNY	45.1	28	eP	14 46 24.7	−0.7		

JUL 28d 17h 12m 30.8 ± 0.19s, SD1.31 / 79
22.18 S ± 2.25km, 65.86 W ± 1.44km, h252 ± 1.55km
Jujuy Province, Argentina (128)
m_B6.0 / 2,

KSH	143.2	53	PKP	17 31 33.0	−3.2		
			pPKP	17 32 43.0	4.8		
			PP	17 34 48.0	−4.1		
			SKS	17 38 12.0	−5.7		
WMQ	149.3	39	+PKP	17 31 46.0	−0.3		
			PP	17 35 24.0	−2.7		
			SKKS	17 41 48.0	−1.2		
MDJ	154.3	334	ePKP	17 31 53.2	−0.2		
			PKP2	17 32 18.0	−0.1		
			PP	17 35 58.0	2.7		
CN2	156.5	339	PKP	17 31 56.5	0.1		
			PKP2	17 32 24.0	−3.6		
			PP	17 36 04.0	−3.4		
LSA	158.0	65	PKP	17 31 59.0	0.1		
			PKP2	17 32 33.0	−1.2		
			sPKP	17 33 31.0	3.8		
			PP	17 36 10.0	−6.0		
			PPMZ	m_B = 6.1		6.0	1.03
			SKKS	17 42 36.0	−0.6		
SNY	158.9	340	+iPKP	17 32 00.0	0.6		
			PKP2	17 32 36.0	−1.8		
			PP	17 36 16.0	−4.1		
GTA	158.9	32	PKP	17 31 59.2	−0.4		
			PKP2	17 32 36.4	−1.6		
			PP	17 36 15.0	−5.4		
HHC	161.3	6	ePKP	17 32 03.5	1.5		
			PKP2	17 32 47.0	−1.1		
			PP	17 36 30.0	−3.1		
BTO	161.3	10	+PKP	17 32 03.0	0.9		
			PKP2	17 32 48.0	−0.3		
			PP	17 36 32.0	−1.4		
			SKKS	17 42 49.0	−5.3		
BJI	162.1	355	ePKP	17 32 03.0	0.3		
			ePKP2	17 32 49.5	−2.4		
			ePP	17 36 33.0	−4.3		
			PPMZ	m_B = 5.9		8.0	1.07
DL2	162.1	341	ePKP	17 32 03.0	0.2		
			PKP2	17 32 52.0	0.0		
			PP	17 36 34.0	−3.4		
LZH	163.5	31	PKP	17 32 05.0	0.7		
			PKP2	17 32 57.5	−0.4		
			PP	17 36 41.0	−3.6		
			SKKS	17 43 05.0	0.1		
TIY	164.4	5	−PKP	17 32 06.7	1.5		
			PP	17 36 46.0	−4.1		
			eSKKS	17 43 10.0	0.3		
CD2	167.3	45	PKP	17 32 09.0	1.6		
			PKP2	17 33 13.0	−1.3		

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			PP	17 37 01.0	−3.3		
			SKKS	17 43 21.0	−2.9		
XAN	167.3	20	PKP	17 32 11.2	3.7		
SSE	169.1	326	ePKP	17 32 09.8	1.4		
			PKP2	17 33 22.5	0.1		
			cPP	17 37 10.0	−3.3		
			eSKKS	17 43 35.0	2.0		
			SS	17 57 50.0	6.4		
KMI	169.2	72	+PKP	17 32 09.0	0.3		
			iPP	17 37 12.0	−1.6		
NJ2	169.3	338	+PKP	17 32 08.0	−0.6		
WHN	171.7	359	iPKP	17 32 10.0	0.0		
			PKP2	17 33 30.0	−3.7		
			PP	17 37 22.0	−4.0		
GYA	172.0	56	PKP	17 32 11.0	0.7		
			PKP2	17 33 39.0	4.0		
			PP	17 37 26.0	−1.4		
			SKKS	17 43 44.0	−3.3		
QZN	174.9	127	PKP	17 32 12.0	0.7		
			PKP2	17 33 48.0	−0.1		
			PP	17 37 39.0	−2.9		
			SKKS	17 44 01.0	0.2		
QZH	175.1	305	PKP	17 32 12.0	0.7		

JUL 28d 22h 22m 30.7 ± 0.17s, SD1.53 / 44
41.97 N ± 1.04km, 142.45 E ± 1.07km, h79 ± 1.67km
Hokkaido region (224)
m_b4.5 / 2,

MDJ	9.7	290	eP	22 24 52.5	2.2		
DL2	16.1	266	eP	22 26 15.5	1.1		
BJI	19.9	273	eP	22 26 56.5	−2.2		
SSE	20.2	244	eP	22 27 01.8	0.1		
			S	22 30 38.0	−0.6		
TIA	20.4	262	P	22 27 02.5	−1.8		
TIY	23.4	270	eP	22 27 33.3	−0.1		
WHN	25.3	252	eP	22 27 51.5	0.1		
XAN	27.5	264	P	22 28 13.6	1.9		
GTA	32.2	280	eP	22 28 54.0	0.1		
GYA	33.1	254	P	22 29 01.0	−1.0		
WMQ	39.5	292	eP	22 29 57.4	1.4		

JUL 28d 22h 36m 24.5 ± 0.05s, SD1.09 / 82
29.45 N ± 1.37km, 142.16 E ± 1.50km, h39 ± 0.94km
Bonin Islands region (212)
M_S4.9 / 35, m_B5.3 / 9, m_b5.5 / 4,

MDJ	18.1	330	eP	22 40 34.2	−1.0		
			LZ	M_S = 5.0		18.0	6.00
SSE	18.2	280	P	22 40 36.6	0.7		
			sP	22 40 49.0	−0.5		
			LN	M_S = 4.7		11.0	1.57
DL2	19.4	305	eP	22 40 51.0	0.9		
			epP	22 40 55.0	−3.8		
			eS	22 44 22.0	0.7		
			LN	M_S = 5.1		15.0	2.70
			LE			15.0	3.24
SNY	19.5	314	+iP	22 40 49.0	−1.9		
			sP	22 41 03.0	−1.7		
			S	22 44 21.0	−1.1		
			LN	M_S = 4.8		14.0	1.68
			LE			13.0	1.12
CN2	19.6	322	+P	22 40 52.0	−0.1		
			pP	22 40 58.8	−2.2		
			eS	22 44 21.0	−4.4		
			LE	M_S = 4.9		13.0	2.50
NJ2	20.2	283	−P	22 40 59.0	0.2		
			S	22 44 36.0	−1.8		
			LN	M_S = 4.7		15.0	1.12
			LE			15.0	1.17
			LZ	M_S = 4.6		16.0	2.01
QZH	21.4	264	eP	22 41 12.0	0.6		
			LN	M_S = 4.7		10.0	0.92
TIA	22.1	294	eP	22 41 17.6	−0.2		
			S	22 45 18.0	5.1		
			LN	M_S = 4.9		16.0	2.00
			LE			16.0	1.40
BJI	23.7	303	eP	22 41 34.0	−0.3		
			PMZ	m_B = 5.0		5.0	0.31
			eS	22 45 44.0	0.3		
			LN	M_S = 5.2		16.0	0.74
			LE			16.0	3.65
WHN	24.1	280	eP	22 41 38.0	0.4		
			PMZ	m_B = 5.4		4.0	0.63
			sP	22 41 50.5	−1.6		
			eS	22 45 50.0	0.4		
			LN	M_S = 4.9		12.0	1.20
			LE			9.0	0.80
TIY	26.0	296	eP	22 41 56.4	0.3		
			S	22 46 24.0	2.9		
			LN	M_S = 4.8		14.0	1.40
HHC	27.3	303	eP	22 42 07.5	−0.9		
			LN	M_S = 5.2		16.0	1.53
			LE			16.0	3.20
BTO	28.4	302	eP	22 42 18.0	−0.1		
			pP	22 42 25.0	−3.1		
			PP	22 43 10.0	0.6		
			eS	22 47 01.0	−0.2		
			SS	22 48 26.0	−0.5		
			LN	M_S = 5.4		17.0	1.97
			LE			17.0	4.49
XAN	28.6	288	P	22 42 16.9	−2.3		
QZN	31.1	258	eP	22 42 43.0	0.8		
			eS	22 47 49.0	5.0		
			LN	M_S = 4.9		12.0	0.50
			LE			14.0	1.00
GYA	31.4	273	−P	22 42 44.2	−0.6		
			sP	22 42 56.0	−3.3		
LZH	32.7	292	eP	22 42 55.0	−1.3		
			PMZ	m_b = 5.1		1.3	0.040
			LN	M_S = 5.0		11.0	1.02
			LE			12.0	0.56
KMI	35.2	273	+P	22 43 17.0	−0.4		
			eS	22 48 46.0	−1.4		
			LE	M_S = 5.0		15.0	1.30
GTA	36.0	297	eP	22 43 24.0	−0.5		
			LN	M_S = 4.9		15.0	0.94
WMQ	45.2	304	+P	22 44 40.0	−0.1		
			S	22 51 22.0	6.3		
			LN	M_S = 5.1		13.0	0.71
			LE			13.0	0.59
KSH	54.4	299	P	22 45 52.0	1.3		
			eS	22 53 26.0	0.9		
			LE	M_S = 5.3		13.0	1.00

JUL 28d 23h 28m 12.7 ± 0.14s, SD2.04 / 16
40.21 N ± 0.93km, 77.83 E ± 0.73km, h14 ± 0.84km
Southern Xinjiang Province (321)
M_L4.4 / 5,

KSH	1.6	246	+iPg	23 28 40.5	−1.1		
			Sg	23 29 03.0	−0.7		
			SMN	M_L = 4.4		0.5	4.50
			SME			0.5	4.70
WMQ	8.2	61	P	23 30 14.2	0.0		
			S	23 31 49.5	2.4		
			SMN	M_L = 4.3		0.8	0.070
			SME			0.8	0.090
GTA	16.9	86	eP	23 32 09.4	−1.6		

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XAN	25.5	94	P	23 33 42.9	0.6			
GYA	27.6	111	P	23 34 02.4	0.5			

JUL 29d 03h 37m 20.2 ± 0.08s, SD1.49 / 22
4.47 N ± 1.22km, 97.80 E ± 1.60km, h32 ± 0.41km
Northern Sumatera (706)

QZN	18.7	38	eP	03 41 37.0	−0.9			
			eS	03 45 00.0	−1.7			
GYA	23.5	20	P	03 42 32.0	3.9			
SSE	34.4	37	P	03 44 07.0	−0.3			
GTA	34.8	3	eP	03 44 10.4	−0.5			
BJI	39.1	23	eP	03 44 46.5	−0.2			
WMQ	40.2	349	P	03 44 56.7	1.0			

JUL 29d 04h 06m 27.7 ± 0.03s, SD1.05 / 5
25.34 N ± 0.24km, 99.99 E ± 0.16km, h10 ± 0.03km
Yunnan Province (318)
M_L3.3 / 2,

KMI	2.5	94	ePg	04 07 12.0	−0.1			
			Sg	04 07 44.5	−1.5			
			SMN	M_L = 3.1		1.0	0.13	
			SME			1.0	0.070	

JUL 29d 07h 35m 59.2 ± 0.04s, SD2.83 / 5
37.61 N ± 0.48km, 80.69 E ± 0.49km, h9 ± 0.62km
Southern Xinjiang Province (321)
M_L3.6 / 3,

KSH	4.2	298	ePn	07 37 05.0	1.2			
			SMN	M_L = 3.9		0.5	0.20	
			SME			0.5	0.30	

JUL 29d 08h 31m 38.6 ± 0.18s, SD1.50 / 40
7.08 S ± 1.31km, 153.68 E ± 1.60km, h49 ± 1.06km
New Britain region (192)

MDJ	55.8	339	eP	08 41 14.0	0.0			
GYA	56.5	308	P	08 41 19.6	1.0			
BJI	58.3	327	eP	08 41 31.0	−0.1			
XAN	58.9	317	P	08 41 35.5	0.1			
KMI	59.0	305	eP	08 41 37.5	1.1			
CD2	60.9	311	eP	08 41 49.2	0.0			
LZH	63.5	316	eP	08 42 04.5	−2.1			
GTA	67.9	318	eP	08 42 35.4	0.4			
WMQ	78.0	317	P	08 43 35.0	0.7			

JUL 29d 09h 59m 31.5 ± 0.08s, SD1.62 / 55
33.41 N ± 1.33km, 132.65 E ± 1.33km, h66 ± 0.85km
Shikoku (236)
M_S4.4 / 7,

SSE	10.0	260	−P	10 01 56.5	1.9			
			SMN			1.2	0.050	
			SME			1.1	0.030	
MDJ	11.4	349	eP	10 02 15.0	0.6			
NJ2	11.7	267	+P	10 02 20.5	2.6			
			LZ	M_S = 3.8		26.0	0.95	
BJI	14.8	301	eP	10 02 58.5	0.3			
			esP	10 03 14.5	−4.0			
			LZ	M_S = 3.8		22.0	0.69	
WHN	15.8	265	eP	10 03 12.0	0.6			
			eS	10 06 05.0	0.5			
			LN	M_S = 4.6		7.0	0.60	
			LE			9.0	0.80	
TIY	17.0	290	eP	10 03 28.2	1.6			
			pP	10 03 40.5	0.0			
			eS	10 06 34.0	1.7			
			LN	M_S = 4.2		7.0	0.34	
HHC	18.4	300	eP	10 03 43.0	−0.3			
			PP	10 04 05.0	5.0			
			LN	M_S = 4.2		10.0	0.24	
			LE			10.0	0.32	
BTO	19.4	298	eP	10 03 53.6	−1.8			
			pP	10 04 05.0	−2.8			
			eS	10 07 20.0	−6.2			
GYA	23.5	260	P	10 04 37.0	0.2			
LZH	23.8	285	eP	10 04 39.0	−0.4			
CD2	24.6	272	eP	10 04 45.4	−1.3			
GTA	27.0	292	eP	10 05 09.2	−0.5			
KMI	27.3	260	eP	10 05 11.5	−1.0			
			LZ	M_S = 4.4		18.0	0.90	
WMQ	36.2	300	P	10 06 29.0	−1.5			
KSH	45.4	295	eP	10 07 46.0	0.1			

JUL 29d 14h 10m 56.6 ± 0.27s, SD1.57 / 31
5.54 S ± 3.41km, 80.69 W ± 3.49km, h16 ± 1.91km
Near coast of Northern Peru (109)

WMQ	140.5	13	PKP	14 30 27.0	0.3			
BJI	142.4	339	ePKP	14 30 29.0	−0.9			
BTO	143.8	346	ePKP	14 30 30.2	−2.1			
TIA	145.4	334	ePKP	14 30 34.9	−0.1			
TIY	145.8	341	ePKP	14 30 35.8	0.0			
GTA	146.3	359	ePKP	14 30 36.6	−0.1			
GYA	158.0	342	PKP	14 30 54.4	0.5			

JUL 29d 19h 08m 59.5 ± 0.09s, SD1.47 / 33
0.34 N ± 1.29km, 126.35 E ± 2.30km, h44 ± 0.20km
Molucca Sea (269)

GYA	32.1	325	eP	19 15 28.6	3.0			
KMI	33.6	319	eP	19 15 41.0	2.8			
			LZ	M_S = 4.1		20.0	0.40	
TIY	39.3	342	eP	19 16 26.6	0.0			
			LZ	M_S = 4.3		24.0	0.54	
BJI	40.6	348	eP	19 16 37.0	0.1			
LZH	41.3	332	eP	19 16 42.5	−0.1			
SNY	41.4	357	eP	19 16 43.9	0.5			
MDJ	44.2	3	eP	19 17 07.5	1.2			
GTA	45.8	331	eP	19 17 18.8	−0.8			
WMQ	55.3	327	P	19 18 30.2	−1.2			

JUL 30d 01h 33m 40.5 ± 0.10s, SD1.35 / 62
13.73 N ± 1.70km, 124.53 E ± 1.52km, h33 ± 0.19km
Luzon (249)
M_S4.6 / 14,

QZN	15.0	292	eP	01 37 12.8	0.3			
			eS	01 39 53.0	−5.8			
			LE	M_S = 4.5		20.0	2.30	
SSE	17.6	350	eP	01 37 49.0	4.6			
			sP	01 38 01.5	4.8			
			S	01 41 03.0	6.8			
			LZ	M_S = 4.2		20.0	1.30	
WHN	19.2	332	P	01 38 05.1	0.7			
			S	01 41 38.0	5.0			
			LZ	M_S = 4.4		16.0	1.20	
GYA	21.0	310	P	01 38 24.2	0.4			
			pP	01 38 29.0	−3.3			
			S	01 42 08.0	−2.1			
			LN	M_S = 4.8		14.0	1.30	
			LE			14.0	1.10	
TIA	23.3	345	eP	01 38 47.1	0.0			
KMI	23.4	302	+P	01 38 49.5	1.4			
			pP	01 38 59.0	2.2			
			eS	01 43 00.0	4.1			
			LE	M_S = 4.6		16.0	1.00	
DL2	25.2	355	eP	01 39 05.3	0.3			
			esP	01 39 19.0	0.9			
			eS	01 43 26.0	0.2			
			esS	01 43 38.0	−2.6			
			LN	M_S = 4.6		13.0	0.84	

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CD2	25.6	315	eP	01 39 09.0	−0.2			
			eS	01 43 39.0	5.9			
			LE	M_S=4.6		14.0	0.79	
TIY	26.2	338	−P	01 39 14.0	−0.4			
			eS	01 43 37.0	−5.4			
			LN	M_S=4.5		13.0	0.56	
BJI	27.2	346	eP	01 39 22.5	−1.2			
			eS	01 43 57.0	−1.8			
			LZ	M_S=4.1		20.0	0.45	
SNY	28.0	358	eP	01 39 30.1	−0.7			
			eS	01 44 12.0	0.5			
			LZ	M_S=4.5		18.0	1.07	
LZH	29.0	324	eP	01 39 39.5	−0.3			
			LN	M_S=4.9		14.0	1.36	
HHC	29.3	340	eP	01 39 42.6	0.1			
BTO	29.6	337	eP	01 39 44.0	−1.4			
			sP	01 39 58.0	−0.6			
			eS	01 44 34.0	−3.7			
GTA	33.6	324	eP	01 40 19.4	−0.9			
WMQ	43.5	321	P	01 41 43.0	0.2			
			S	01 48 12.5	4.8			
			LZ	M_S=4.7		16.0	0.75	
KSH	49.7	310	eP	01 42 32.0	−0.2			

JUL 30d 02h 45m 16.8 ± 0.27s, SD2.37 / 31
23.51 S ± 5.39km, 116.72 W ± 7.92km, h11 ± 0.99km
Easter Island Cordillera (684)

MDJ	122.8	309	ePKP	03 04 18.0	4.0			
BJI	132.8	303	PKP	03 04 33.0	−0.3			
GYA	140.7	284	PKP	03 04 48.0	0.0			
LZH	142.9	299	ePKP	03 04 48.0	−3.8			
CD2	143.4	291	ePKP	03 04 50.0	−2.6			
KMI	144.1	281	+PKP	03 04 51.0	−2.9			
			pPKP	03 04 57.0	0.9			
			ePP	03 08 12.0	1.5			
			LZ	M_S=5.5		30.0	1.10	
GTA	145.3	306	PKP	03 04 54.8	−1.2			
			LZ	M_S=5.7		23.0	1.32	
KSH	160.8	329	ePKP	03 05 19.0	1.1			

JUL 30d 10h 44m 30.7 ± 0.09s, SD2.12 / 28
39.60 N ± 1.01km, 118.87 E ± 0.92km, h10 ± 0.23km
North−Eastern China (658)
M_L3.8 / 17,

BJI	2.1	283	Pn	10 45 05.0	−1.5			
			Pg	10 45 08.0	−0.2			
			Sn	10 45 31.0	−3.8			
			Sg	10 45 34.5	−2.7			
			SMN	M_L=3.3		0.5	0.26	
			SME			0.5	0.22	
DL2	2.3	107	+Pn	10 45 10.7	2.3			
			Pg	10 45 16.5	5.9			
			Sn	10 45 37.8	−0.3			
			Sg	10 45 46.6	5.2			
			SMN	M_L=3.8		0.7	0.93	
			SME			0.7	0.48	
TIA	3.7	203	Pn	10 45 28.2	0.5			
			Pg	10 45 37.4	2.2			
			Sn	10 46 08.4	−4.4			
			Sg	10 46 23.4	−1.8			
			SMN	M_L=3.6		0.3	0.13	
			SME			0.3	0.19	
SNY	4.2	57	ePn	10 45 36.6	1.2			
			Pg	10 45 48.6	3.4			
			Sg	10 46 45.3	2.5			
			SMN	M_L=3.8		0.9	0.25	
			SME			0.9	0.13	
TIY	5.4	252	ePn	10 45 51.8	0.4			
			Pg	10 46 09.0	3.4			
			Sn	10 46 52.4	−3.0			
			Sg	10 47 14.6	−4.5			
			SMN	M_L=4.0		0.8	0.13	
			SME			0.8	0.15	
HHC	5.7	285	Pg	10 46 14.0	1.9			
			Sg	10 47 29.0	−1.1			
			SMN	M_L=4.1		0.8	0.18	
			SME			0.8	0.13	
BTO	6.9	281	ePg	10 46 33.3	1.3			
			Sg	10 48 01.4	−4.1			
NJ2	7.5	180	ePn	10 46 19.3	−1.6			
GTA	14.7	275	eP	10 48 01.8	0.6			

JUL 30d 11h 19m 38.7 ± 0.08s, SD1.48 / 33
21.27 S ± 2.51km, 174.17 W ± 1.84km, h79 ± 1.15km
Tonga (173)

MDJ	83.2	323	eP	11 31 59.0	0.4			
DL2	84.8	315	eP	11 32 07.8	1.5			
WHN	85.8	305	−P	11 32 13.2	1.8			
TIA	86.5	311	eP	11 32 14.8	0.2			
BJI	89.0	314	P	11 32 26.5	−0.2			
GYA	90.2	298	P	11 32 34.0	1.6			
TIY	90.5	311	eP	11 32 35.5	1.7			

JUL 30d 16h 26m 22.7 ± 0.23s, SD1.36 / 45
33.15 S ± 4.23km, 83.92 E ± 2.50km, h10 ± 0.14km
Amsterdam−Naturaliste Ridge (434)

KMI	60.7	20	eP	16 36 39.0	1.8			
GYA	63.1	23	P	16 36 54.4	0.9			
CD2	66.4	19	eP	16 37 15.0	0.0			
WHN	69.6	28	eP	16 37 35.2	0.5			
LZH	71.4	17	eP	16 37 46.0	0.3			
			LZ	M_S=4.5		18.0	0.26	
KSH	72.7	354	eP	16 37 58.0	4.4			
GTA	73.7	13	eP	16 38 00.0	0.5			
TIY	75.3	23	eP	16 38 08.9	−0.1			
			ScS	16 48 18.0	0.6			
TIA	75.7	27	+P	16 38 10.7	−0.1			
WMQ	76.7	3	P	16 38 16.2	−0.4			
			S	16 48 00.0	−0.8			
			LZ	M_S=5.1		26.0	1.16	
BTO	77.2	20	eP	16 38 20.0	0.2			
			sP	16 38 27.0	−0.7			
BJI	78.7	25	eP	16 38 27.5	−0.2			
			eS	16 48 26.0	1.8			
DL2	79.8	29	eP	16 38 33.6	0.1			
			LZ	M_S=4.7		21.0	0.37	

JUL 30d 21h 07m 20.1 ± 0.06s, SD1.11 / 91
44.93 N ± 1.78km, 149.68 E ± 1.26km, h53 ± 0.55km
Kurile Islands (221)
M_S5.1 / 37, m_B5.9 / 16, m_b5.8 / 10,

MDJ	14.3	276	eP	21 10 41.7	0.6			
			pP	21 10 48.0	−2.3			
			S	21 13 20.0	2.6			
			LZ	M_S=5.1		26.0	15.5	
SNY	19.2	270	+iP	21 11 42.0	−0.5			
			PMZ	m_B=5.8		3.5	1.74	
			sP	21 11 58.0	−1.3			
			S	21 15 12.0	2.1			
			SMN	m_B=5.8		7.0	2.58	
			sS	21 15 27.5	0.2			
			LN	M_S=4.9		13.0	1.26	
			LE			14.0	2.24	
DL2	21.7	264	+P	21 12 08.0	−0.2			
			sP	21 12 29.0	2.9			
			S	21 16 00.0	1.2			

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			SMN				14.0	2.69
			SME				15.0	2.34
			sS	21	16	24.0	4.5		
			eScS	21	23	22.0	0.0		
			LZ			$M_S=4.6$		30.0	3.31
BJI	25.1	271	+P	21	12	41.5	0.0		
			PMZ			$m_B=5.3$		8.0	0.71
			epP	21	12	56.0	2.2		
			esP	21	13	04.0	4.5		
			eS	21	16	58.0	−1.4		
			esS	21	17	20.0	−0.5		
			eScS	21	23	35.0	−0.2		
			LE			$M_S=5.2$		18.0	3.93
			LZ			$M_S=5.0$		22.0	5.50
TIA	26.1	262	+P	21	12	50.0	−0.9		
			S	21	17	17.0	1.9		
			SMN			$m_B=5.8$		7.0	1.25
			SME					7.0	1.50
			ScS	21	23	37.2	−2.1		
			LN			$M_S=5.0$		15.0	1.07
			LE					15.0	1.87
SSE	26.2	248	−P	21	12	52.0	0.0		
			pP	21	13	07.0	2.7		
			sP	21	13	15.0	4.8		
			S	21	17	20.0	2.9		
			sS	21	17	40.0	0.6		
			SS	21	18	30.0	2.6		
			LE			$M_S=4.8$		14.0	1.16
NJ2	27.2	252	+P	21	13	00.5	−0.4		
			S	21	17	34.0	1.2		
			LN			$M_S=5.2$		14.0	2.18
			LE					13.0	1.34
			LZ			$M_S=5.3$		23.0	8.97
HHC	28.0	275	+iP	21	13	09.8	0.7		
			pP	21	13	17.0	−4.4		
			S	21	17	50.0	2.9		
			SMN			$m_B=6.1$		4.0	1.51
			SME					4.0	1.07
			sS	21	18	07.0	−2.6		
			LN			$M_S=5.1$		15.0	2.24
TIY	28.7	269	+iP	21	13	15.5	0.7		
			PMZ			$m_b=5.7$		1.1	0.18
			S	21	18	01.5	4.1		
			sS	21	18	18.0	−2.1		
			LN			$M_S=5.0$		11.0	1.46
BTO	29.2	276	+iP	21	13	20.0	0.4		
			pP	21	13	35.0	2.9		
			S	21	18	09.0	3.0		
			SS	21	19	38.0	−1.1		
			LN			$M_S=5.5$		14.0	2.81
			LE					11.0	3.21
WHN	31.1	255	+iP	21	13	36.2	−0.2		
			PMZ			$m_b=5.6$		0.9	0.10
			sP	21	13	56.5	1.8		
			S	21	18	36.0	0.0		
			LN			$M_S=5.1$		8.0	1.00
QZH	32.1	242	eP	21	13	44.0	−0.5		
			S	21	18	56.0	5.4		
			LZ			$M_S=4.7$		32.0	2.50
LZH	35.5	272	−iP	21	14	16.0	1.3		
			pP	21	14	31.0	3.6		
			S	21	19	46.0	1.5		
			SME			$m_B=5.9$		5.0	1.36
			sS	21	20	12.0	4.5		
			LN			$M_S=5.1$		12.0	1.02
			LE					14.0	0.73
GZH	36.7	246	P	21	14	24.0	−0.6		
			S	21	20	04.0	1.1		
			LE			$M_S=5.3$		13.0	2.01
GTA	36.9	279	+iP	21	14	27.1	1.1		
			PcP	21	16	47.0	0.9		
			S	21	20	06.0	0.8		
			LE			$M_S=5.1$		11.5	1.11
CD2	38.3	265	+iP	21	14	38.0	0.1		
			S	21	20	27.0	0.0		
			LN			$M_S=5.0$		12.0	0.94
GYA	39.0	257	+P	21	14	43.0	−0.3		
			pP	21	14	58.0	1.9		
			PcP	21	16	53.0	0.5		
			S	21	20	35.8	−1.0		
			ScP	21	20	36.6	1.9		
			PcS	21	20	41.0	0.2		
			LZ			$M_S=4.9$		18.0	1.50
QZN	41.9	245	eP	21	15	08.0	0.4		
			sP	21	15	29.0	2.8		
			eS	21	21	19.0	−2.7		
			LN			$M_S=5.2$		16.0	1.30
			LE					16.0	1.20
KMI	42.5	258	+iP	21	15	13.0	0.1		
			pP	21	15	27.0	1.3		
			sP	21	15	35.0	3.7		
			iS	21	21	29.0	−2.2		
			sS	21	21	55.0	2.0		
			LE			$M_S=5.3$		12.0	1.60
WMQ	43.3	291	+iP	21	15	20.5	1.1		
			PMZ					3.0	1.39
			S	21	21	45.0	3.4		
			ScS	21	25	13.0	2.2		
			LN			$M_S=5.4$		16.0	2.11
			LE					14.0	1.17
LSA	48.0	272	+P	21	15	57.1	0.6		
			PMZ					3.0	0.79
			pP	21	16	13.0	4.0		
			iS	21	22	51.0	1.5		
			sS	21	23	13.0	1.8		
			SS	21	26	10.5	−1.2		
KSH	53.1	292	+iP	21	16	36.6	1.1		
			PMZ			$m_B=6.2$		4.0	1.20
			pP	21	16	52.0	3.4		
			S	21	24	02.0	2.8		
			LE			$M_S=5.5$		12.0	1.50

JUL 30d 22h 01m 21.8 ± 0.08s, SD1.01 / 25
60.03 N ± 0.63km, 153.72 W ± 0.76km, h164 ± 0.59km
Southern Alaska (2)

BJI	56.4	293	eP	22	10	49.0	0.1
GTA	64.1	304	+P	22	11	41.2	−0.3
WMQ	65.0	315	P	22	11	47.8	0.7
WHN	65.0	288	eP	22	11	45.6	−1.4
LZH	65.2	299	eP	22	11	48.5	0.0
GYA	72.1	292	P	22	12	30.8	0.1

JUL 30d 23h 40m 41.1 ± 0.13s, SD2.34 / 61
35.04 N ± 2.39km, 139.46 E ± 2.32km, h10 ± 0.63km
Near south coast of Honshu (230)
M_S4.7 / 18, m_B5.1 / 2,

MDJ	12.2	325	eP	23	43	40.5	2.3		
			S	23	45	56.0	1.1		
			LZ			$M_S=4.5$		16.0	3.10
DL2	14.8	290	eP	23	44	17.0	4.8		
			LN			$M_S=4.7$		13.0	2.34
SSE	15.8	261	eP	23	44	30.5	4.7		
			LN			$M_S=4.6$		12.0	1.73
TIA	18.2	280	eP	23	44	56.3	0.5		
			LN			$M_S=4.6$		12.0	0.68
			LE					12.0	1.13

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BJI	19.1	292	eP	23 45 04.5	−2.5			
			LN	M_S=4.5		13.0	0.68	
			LE			12.0	0.72	
			LZ	M_S=4.0		16.0	0.59	
WHN	21.6	265	eP	23 45 34.0	0.9			
			sS	23 49 32.0	−3.7			
			LN	M_S=4.9		9.0	1.00	
			LE			6.0	0.60	
HHC	22.7	293	eP	23 45 44.2	−0.4			
			LN	M_S=4.8		13.0	1.12	
			LE			13.0	0.93	
BTO	23.9	292	eP	23 45 56.0	0.1			
			pP	23 46 04.5	3.5			
			eS	23 50 06.0	−2.8			
			LN	M_S=4.9		14.0	1.57	
			LE			13.0	0.99	
LZH	28.9	283	eP	23 46 44.0	1.1			
			LZ	M_S=4.9		12.0	1.80	
GYA	29.4	262	P	23 46 46.0	−0.9			
CD2	30.1	272	P	23 46 49.0	−4.8			
			LE	M_S=5.1		16.0	2.34	
GTA	31.7	290	eP	23 47 06.4	−1.3			
KMI	33.1	263	eP	23 47 17.5	−2.7			
WMQ	40.4	299	P	23 48 21.0	−0.3			
			LZ	M_S=4.6		18.0	0.77	

JUL 31d 01h 28m 52.5±0.11s, SD1.13/79
6.40 S±1.46km, 153.08 E±1.54km, h33±0.23km
New Britain region (192)
M_S4.9/6, m_B5.7/6, m_b5.6/3,

QZH	45.8	314	+P	01 37 14.0	0.6			
			LZ	M_S=4.7		24.0	1.08	
SSE	48.2	323	P	01 37 32.2	0.1			
			PMZ	m_b=5.4		2.0	0.10	
			sP	01 37 44.0	−1.3			
			sS	01 44 42.0	−1.7			
QZN	49.5	302	eP	01 37 46.0	3.4			
			eS	01 44 54.0	6.7			
NJ2	50.3	322	−P	01 37 49.0	0.8			
			LZ	M_S=5.1		19.0	1.87	
WHN	52.2	317	eP	01 38 03.6	0.8			
			LZ	M_S=5.1		24.0	2.10	
DL2	53.7	330	−P	01 38 13.7	−0.2			
			esP	01 38 32.0	4.8			
			PcP	01 39 14.0	−5.2			
			eS	01 45 46.0	1.6			
			LN	M_S=5.1		10.0	0.57	
MDJ	55.0	340	eP	01 38 23.0	−0.6			
SNY	55.0	333	eP	01 38 22.6	−1.3			
			eS	01 46 06.0	3.3			
			LZ	M_S=4.9		40.0	1.90	
GYA	55.6	308	P	01 38 28.0	0.1			
			S	01 46 14.0	5.1			
BJI	57.4	327	eP	01 38 40.0	−0.6			
			PMZ	m_B=5.6		8.0	0.64	
			eS	01 46 34.0	0.4			
			LZ	M_S=4.9		26.0	1.20	
TIY	57.9	322	+P	01 38 44.9	0.1			
			S	01 46 45.0	4.9			
			LN	M_S=5.0		13.0	0.48	
KMI	58.1	305	eP	01 38 44.0	−2.0			
			LZ	M_S=4.9		24.0	1.10	
CD2	60.0	311	eP	01 38 59.3	0.4			
			eS	01 47 13.5	5.7			
HHC	60.5	325	−P	01 39 02.6	0.2			
			SMN	m_B=5.7		9.0	0.33	
			SME			9.0	0.86	
BTO	61.2	324	−P	01 39 07.0	−0.4			
			sP	01 39 22.0	1.4			
			ePP	01 41 27.0	3.3			
			S	01 47 25.0	2.5			
LZH	62.6	316	eP	01 39 17.0	0.6			
			PMZ	m_b=5.7		2.0	0.19	
			eS	01 47 40.0	−0.9			
			LZ	M_S=4.8		30.0	0.96	
GTA	67.0	318	eP	01 39 45.4	0.3			
			SME	m_B=5.6		8.0	0.52	
WMQ	77.1	318	P	01 40 45.0	−0.2			
			PP	01 43 39.5	0.2			
			eS	01 50 29.0	−2.1			
			LZ	M_S=4.9		24.0	0.77	
KSH	84.2	311	−P	01 41 24.0	0.9			
			eS	01 51 48.0	2.7			

JUL 31d 03h 42m 36.8±0.11s, SD2.04/20
34.72 N±1.99km, 139.72 E±2.10km, h34±1.04km
Near south coast of Honshu (230)
M_S4.3/4,

MDJ	12.6	325	eP	03 45 36.5	0.1			
SNY	14.5	304	eP	03 46 03.0	1.1			
DL2	15.1	291	eP	03 46 13.5	4.2			
			LZ	M_S=4.0		14.0	0.59	
TIA	18.5	281	eP	03 46 52.0	0.0			
BJI	19.4	293	eP	03 47 00.0	−3.3			
WHN	21.7	266	eP	03 47 26.5	−1.0			
TIY	22.2	286	eP	03 47 31.6	−0.4			
			sS	03 51 39.5	−4.4			
			LN	M_S=4.2		10.0	0.30	
GYA	29.5	263	P	03 48 39.2	−1.6			

JUL 31d 03h 45m 09.9±0.15s, SD1.49/43
6.38 S±1.44km, 153.19 E±1.96km, h30±0.36km
New Britain region (192)

QZH	45.9	314	eP	03 53 33.0	1.3
WHN	52.3	317	eP	03 54 21.5	0.4
DL2	53.7	330	eP	03 54 32.5	0.5
TIA	54.2	324	eP	03 54 35.3	−0.3
GYA	55.7	308	eP	03 54 46.6	0.4
BJI	57.4	327	eP	03 54 59.0	0.3
TIY	58.0	322	+P	03 55 03.0	0.1
CD2	60.1	311	eP	03 55 17.0	−0.1
HHC	60.5	325	eP	03 55 21.4	0.8
BTO	61.3	324	eP	03 55 26.6	1.0
LZH	62.6	316	eP	03 55 35.5	0.9
GTA	67.1	318	eP	03 56 03.4	0.1
WMQ	77.2	318	P	03 57 04.0	0.7
KSH	84.3	311	eP	03 57 45.0	3.8

JUL 31d 08h 27m 23.9±0.15s, SD4.01/8
39.83 N±1.47km, 113.64 E±1.22km, h10±0.10km
North-Eastern China (658)
M_L3.1/7,

BJI	2.0	83	Pg	08 27 59.0	0.4		
			Sg	08 28 24.0	−1.4		
			SMN	M_L=2.9		0.5	0.10
			SME			0.5	0.094
TIY	2.3	204	−iPg	08 28 07.2	2.3		
			Sg	08 28 37.8	1.3		
			SMN	M_L=3.2		0.5	0.14
			SME			0.4	0.20
BTO	2.9	287	ePn	08 28 05.4	−5.0		
			Pg	08 28 15.2	0.5		
			Sg	08 28 52.4	−1.6		
			SMN	M_L=2.9		0.4	0.080
			SME			0.4	0.030

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JUL 31d 11h 59m 20.1 ± 0.08s, SD1.11 / 34
20.02 N ± 1.22km, 147.37 E ± 1.39km, h33 ± 0.22km
Marianas region (215)
m_b4.9 / 2,

SSE	26.0	300	+P	12 04 51.0	−1.2			
			PMZ		m_b = 4.7		1.0	0.020
			LZ		M_S = 4.1		15.0	0.44
DL2	29.1	316	eP	12 05 23.0	2.7			
SNY	29.6	322	eP	12 05 25.4	0.3			
GYA	37.8	288	P	12 06 37.0	1.0			
LZH	41.2	302	eP	12 07 04.5	0.1			
			PMZ		m_b = 5.1		2.0	0.060
GTA	45.0	306	eP	12 07 35.0	0.0			
WMQ	54.6	310	eP	12 08 48.5	−0.2			

JUL 31d 12h 50m 07.4 ± 0.12s, SD1.36 / 87
22.17 S ± 2.40km, 171.18 E ± 2.70km, h58 ± 0.87km
Loyalty Islands region (189)
M_S6.2 / 38, m_B6.3 / 27, m_b6.2 / 8,

QZH	69.3	310	+P	13 01 11.0	−0.1			
			PMZ		m_B = 6.3		10.0	4.36
			PP	13 03 47.0	1.3			
			iS	13 10 06.0	−5.4			
			SMN		m_B = 6.6		12.0	7.67
			LN		M_S = 6.1		20.0	6.89
SSE	71.4	316	P	13 01 23.0	−1.2			
			PMZ		m_b = 5.8		1.5	0.20
			S	13 10 35.0	−0.2			
			SMN		m_B = 6.3		11.0	3.27
			SS	13 15 09.0	−3.9			
			LN		M_S = 6.2		22.0	6.79
			LE				22.0	5.50
QZN	72.6	300	P	13 01 31.5	0.4			
			PP	13 04 18.0	4.1			
			S	13 10 52.0	3.4			
			SMN		m_B = 6.5		11.0	3.70
			SME				15.0	6.30
			ScS	13 11 25.0	−3.1			
			SS	13 15 29.0	−1.9			
			LE		M_S = 6.1		20.0	6.40
NJ2	73.6	316	+P	13 01 36.0	−0.8			
			S	13 10 54.0	−5.5			
			LN		M_S = 6.1		18.0	3.45
			LE				18.0	5.13
			LZ		M_S = 6.3		20.0	15.9
WHN	75.7	312	+P	13 01 48.5	−0.3			
			PMZ		m_b = 6.5		1.4	1.00
			PP	13 04 41.0	1.4			
			S	13 11 16.0	−6.7			
			SMN		m_B = 6.2		11.0	2.40
			LN		M_S = 6.2		18.0	6.20
DL2	76.4	322	+P	13 01 52.8	−0.5			
			ePP	13 04 48.0	2.1			
			eS	13 11 29.0	−3.8			
			SMN				23.0	7.91
			SS	13 16 33.0	3.3			
			LN		M_S = 6.5		22.0	14.8
			LE				22.0	8.25
MDJ	76.6	331	+P	13 01 53.5	−0.5			
			PP	13 04 47.0	0.3			
			S	13 11 36.0	3.4			
			LZ		M_S = 6.5		30.0	33.0
TIA	77.3	318	+P	13 01 57.9	−0.4			
			PMZ		m_B = 6.0		10.0	2.12
			S	13 11 43.0	2.0			
			SMN				16.0	3.70
			SME				14.0	2.27
			LN		M_S = 6.3		23.0	4.51
			LE				19.0	8.99
SNY	77.4	326	+iP	13 01 58.0	−0.8			
			lS	13 11 46.0	2.5			
			LN		M_S = 6.3		20.0	5.36
			LE				20.0	6.32
GYA	79.0	304	+P	13 02 07.6	0.1			
			S	13 12 00.0	1.5			
			SS	13 17 14.0	6.4			
			LN		M_S = 6.2		18.0	3.40
			LE				18.0	5.30
BJI	80.3	320	+P	13 02 14.0	−0.7			
			PMZ		m_B = 6.1		10.0	2.45
			ePP	13 05 18.0	−0.4			
			eS	13 12 12.0	−2.5			
			eSS	13 17 32.0	3.9			
			LN		M_S = 6.5		22.0	9.40
			LE				23.0	12.0
			LZ		M_S = 6.3		24.0	17.8
TIY	81.2	317	+P	13 02 19.5	0.1			
			PMZ		m_b = 6.0		1.6	0.35
			sP	13 02 45.0	4.7			
			PP	13 05 27.0	0.9			
			S	13 12 26.5	4.7			
			SMN				13.0	5.60
			LN		M_S = 6.3		19.0	8.58
KMI	81.4	301	+iP	13 02 21.5	1.2			
			eS	13 12 20.5	−4.9			
			SKS	13 12 28.5	0.4			
			LN		M_S = 6.1		20.0	5.40
CD2	83.4	307	eP	13 02 31.0	0.1			
			eS	13 12 42.0	−4.3			
			LN		M_S = 6.4		24.0	13.3
HHC	83.6	319	+P	13 02 32.4	0.6			
			SS	13 18 14.0	−2.4			
			LN		M_S = 6.5		21.0	8.08
			LE				24.0	12.9
BTO	84.4	318	P	13 02 36.5	0.6			
			PMZ		m_B = 6.2		10.0	2.74
			PP	13 05 56.0	4.3			
			S	13 12 54.0	−0.2			
			SS	13 18 28.0	−0.1			
			LN		M_S = 6.3		18.0	4.50
			LE				18.0	5.20
LZH	86.0	311	+iP	13 02 45.0	1.1			
			PMZ		m_b = 6.4		2.0	0.69
			PP	13 06 06.0	1.6			
			S	13 13 07.0	−2.9			
			LN		M_S = 6.3		17.0	3.70
			LE				20.0	6.80
GTA	90.4	313	+iP	13 03 05.0	0.0			
			PP	13 06 39.0	−1.4			
			SKS	13 13 32.0	4.5			
			LE		M_S = 6.1		18.0	4.40
LSA	92.6	301	P	13 03 12.0	−3.3			
			PP	13 06 59.8	1.9			
			SME		m_B = 6.5		11.0	4.50
WMQ	100.5	313	P	13 03 50.3	−0.6			
			PP	13 07 59.0	−0.4			
			SKS	13 14 22.0	0.4			
			LN		M_S = 6.3		19.0	5.53
			LE				20.0	2.76

JUL 31d 14h 19m 08.2 ± 0.12s, SD2.92 / 15
27.25 N ± 0.98km, 100.85 E ± 1.25km, h9 ± 0.09km
Yunnan Province (318)
M_L3.8 / 7,

KMI	2.7	141	ePg	14 19 57.5	1.1			
			Sg	14 20 34.0	0.8			

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			SMN		$M_L=4.0$		1.5	0.90
			SME				1.5	0.70
CD2	4.5	34	ePn	14 20 17.8		1.6		
			Pg	14 20 27.5		0.8		
			Sn	14 21 14.7		4.6		
			Sg	14 21 29.0		1.4		
			SMN		$M_L=4.2$		1.5	0.31
			SME				1.5	0.53
GYA	5.3	97	Pn	14 20 30.4		3.0		
			Sn	14 21 27.0		−3.1		
			Sg	14 21 59.0		6.2		
			SMN		$M_L=3.8$		1.4	0.070
			SME				1.4	0.13

JUL 31d 15h 22m 47.2 ± 0.13s, SD1.11 / 71
31.91 S ± 2.49km, 57.38 E ± 2.22km, h9 ± 0.20km
Atlantic–Indian Ridge (428)
M_S6.0 / 31, m_B6.1 / 9, m_b6.0 / 5,

LSA	69.2	31	P	15 33 57.5		0.3		
			pP	15 34 03.0		0.9		
			iS	15 43 03.0		0.6		
			LE		$M_S=6.0$		19.0	5.94
QZN	71.4	52	P	15 34 12.0		1.9		
			PP	15 36 54.0		4.4		
			S	15 43 28.0		2.1		
			SME				12.5	1.20
			SS	15 48 02.0		−0.1		
			LN		$M_S=6.1$		21.0	4.90
			LE				20.0	3.80
KMI	71.4	43	+P	15 34 10.0		−0.4		
			S	15 43 24.0		−2.0		
			LZ		$M_S=5.7$		24.0	5.40
KSH	73.1	15	eP	15 34 22.0		1.2		
			pP	15 34 28.0		2.0		
			S	15 43 47.0		0.9		
			LE		$M_S=6.1$		16.0	5.40
GYA	74.7	45	P	15 34 29.4		−0.4		
			S	15 44 03.0		−0.6		
			SS	15 48 50.0		−2.8		
			LN		$M_S=6.1$		20.0	3.80
			LE				20.0	5.20
CD2	76.4	40	eP	15 34 38.7		−0.8		
			S	15 44 21.0		−1.3		
			LE		$M_S=6.0$		15.0	3.30
WMQ	80.3	22	eP	15 35 01.4		0.4		
			S	15 45 05.0		0.9		
			LZ		$M_S=6.4$		20.0	18.1
LZH	80.4	37	eP	15 35 02.5		0.6		
			PMZ		$m_b=6.1$		2.0	0.39
			eS	15 45 07.0		−0.6		
			SME		$m_B=6.0$		12.0	1.38
			LN		$M_S=6.0$		20.0	3.60
			LE				19.0	2.52
GTA	81.2	32	−iP	15 35 05.6		−0.1		
			S	15 45 14.5		1.4		
			LN		$M_S=6.2$		21.0	6.74
QZH	81.3	54	+P	15 35 08.0		1.8		
			PMZ		$m_B=5.9$		10.0	1.22
			eS	15 45 21.0		4.8		
			LN		$M_S=5.8$		17.0	2.44
WHN	82.3	47	P	15 35 12.5		1.1		
			S	15 45 25.5		0.7		
			LN		$M_S=5.8$		6.0	0.40
			LE				5.0	0.50
TIY	86.2	41	eP	15 35 31.0		−0.3		
			SKS	15 45 50.0		−3.4		
			S	15 45 59.0		−4.6		
			SME				14.0	3.92
			LN		$M_S=6.0$		17.0	2.94
BTO	87.0	37	P	15 35 35.0		−0.3		
			sP	15 35 42.0		−1.0		
			PP	15 39 04.5		4.7		
			SKS	15 46 02.0		3.3		
			S	15 46 14.0		2.7		
			LN		$M_S=5.9$		17.0	1.50
			LE				17.0	1.80
SSE	87.0	50	P	15 35 35.7		0.5		
			PMZ		$m_b=5.5$		1.0	0.040
			sP	15 35 48.0		4.9		
			eSKS	15 45 54.0		−4.8		
			eSS	15 51 54.0		−3.3		
			LN		$M_S=5.8$		16.0	1.61
			LE				16.0	1.08
TIA	87.9	44	P	15 35 38.4		−0.8		
			S	15 46 22.5		3.2		
			SME		$m_B=6.3$		12.0	3.17
			SS	15 52 08.0		−1.8		
HHC	88.0	38	eP	15 35 39.6		−0.4		
			sP	15 35 52.0		4.2		
			SKS	15 46 09.0		4.1		
			S	15 46 25.0		4.5		
			SS	15 52 17.0		5.2		
			LN		$M_S=6.0$		18.0	2.63
			LE				17.0	2.29
BJI	89.9	41	eP	15 35 48.0		−1.0		
			eSKS	15 46 18.0		1.2		
			eS	15 46 40.0		−0.1		
			eSS	15 52 36.0		−3.7		
			LN		$M_S=5.8$		15.0	1.60
			LZ		$M_S=5.9$		22.0	5.00
DL2	92.3	45	eP	15 36 00.0		−0.1		
			eSKS	15 46 30.0		−0.7		
			eSS	15 53 16.0		2.4		
			LN		$M_S=5.9$		19.0	2.33
SNY	95.3	43	eP	15 36 14.2		0.3		

JUL 31d 16h 10m 16.7 ± 0.11s, SD1.70 / 31
34.83 N ± 1.88km, 139.78 E ± 2.58km, h30 ± 0.99km
Near south coast of Honshu (230)
M_S4.6 / 2,

MDJ	12.5	324	eP	16 13 16.5		0.7		
SNY	14.5	304	eP	16 13 44.0		2.1		
DL2	15.1	291	eP	16 13 53.0		3.4		
TIA	18.5	281	eP	16 14 32.1		−0.5		
BJI	19.4	292	eP	16 14 41.0		−2.6		
WHN	21.8	266	eP	16 15 10.4		2.0		
TIY	22.2	285	eP	16 15 12.0		−0.5		
LZH	29.2	283	eP	16 16 18.0		−0.3		
GYA	29.6	263	P	16 16 23.0		1.3		
GTA	32.0	290	eP	16 16 42.0		−1.2		
WMQ	40.7	299	P	16 17 57.5		0.9		

JUL 31d 20h 57m 14.8 ± 0.06s, SD1.05 / 71
51.46 N ± 2.79km, 176.26 W ± 1.07km, h27 ± 0.65km
Andreanof Islands (7)
M_S4.9 / 5, m_b5.9 / 3,

MDJ	36.1	281	eP	21 04 16.0		−0.9		
SNY	41.3	281	+P	21 05 00.9		0.6		
			pP	21 05 12.0		3.4		
			eS	21 11 12.0		−1.0		
			LZ		$M_S=4.6$		20.0	0.85
DL2	44.3	279	eP	21 05 24.0		−0.1		
			eS	21 12 00.0		4.1		
			LZ		$M_S=4.8$		16.0	0.95
BJI	46.9	284	eP	21 05 45.0		−0.2		
			ePP	21 07 36.0		1.3		

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			eS	21 12 36.0	2.2		
			LZ	$M_S = 4.6$		20.0	0.61
TIA	48.7	279	P	21 06 01.0	1.5		
HHC	49.2	287	eP	21 06 04.0	0.8		
			eS	21 13 12.5	6.2		
SSE	49.6	271	+P	21 06 06.5	0.4		
			PMZ	$m_b = 5.1$		1.2	0.030
			esS	21 13 30.0	4.3		
			LZ	$M_S = 4.5$		20.0	0.46
BTO	50.3	288	+iP	21 06 13.0	1.6		
			eS	21 13 21.0	−0.3		
			LN	$M_S = 5.3$		17.0	0.90
			LE			17.0	1.20
TIY	50.6	284	eP	21 06 15.2	1.0		
			S	21 13 26.0	0.9		
			LN	$M_S = 4.9$		15.0	0.55
WHN	54.2	276	eP	21 06 40.8	−0.2		
LZH	56.9	288	eP	21 07 00.0	−0.4		
			PMZ	$m_b = 5.9$		1.5	0.24
GTA	57.0	293	P	21 07 00.0	−1.2		
			LZ	$M_S = 5.0$		20.0	1.25
CD2	60.5	283	eP	21 07 25.0	−0.5		
WMQ	60.6	304	eP	21 07 26.0	−0.3		
			eS	21 15 33.0	−6.5		
			LZ	$M_S = 5.1$		16.0	1.20
GYA	61.9	278	P	21 07 34.2	−0.7		
KMI	65.3	280	+P	21 07 56.5	−0.8		
QZN	65.4	270	eP	21 07 58.0	0.5		
LSA	68.9	291	P	21 08 22.0	1.6		
KSH	69.7	308	P	21 08 26.5	1.4		

JUL 31d 21h 06m 19.4 ± 0.20s, SD1.57 / 60
51.06 N ± 1.68km, 176.02 W ± 1.11km, h55 ± 1.72km
Andreanof Islands (7)
M_S5.2 / 3, m_b5.9 / 3,

SNY	41.6	282	eP	21 14 03.3	−0.3		
BJI	47.1	284	eP	21 14 47.0	−1.6		
TIA	48.9	280	eP	21 15 01.6	−1.0		
HHC	49.5	288	+P	21 15 06.5	−0.2		
BTO	50.5	289	+iP	21 15 15.5	0.6		
TIY	50.9	284	−iP	21 15 17.8	0.3		
WHN	54.4	276	−P	21 15 43.4	−0.4		
LZH	57.1	288	+P	21 16 03.0	−0.6		
			PMZ	$m_b = 5.9$		1.5	0.22
			LZ	$M_S = 5.0$		16.0	1.03
GTA	57.3	294	P	21 16 03.0	−1.7		
CD2	60.7	284	eP	21 16 26.5	−2.0		
WMQ	61.0	305	+P	21 16 27.7	−2.3		
GYA	62.1	278	P	21 16 36.6	−1.0		
KMI	65.5	280	+P	21 16 59.0	−1.0		
QZN	65.5	270	eP	21 17 00.0	0.2		
LSA	69.2	292	P	21 17 24.0	0.6		
KSH	70.1	309	+P	21 17 28.0	−0.7		

JUL 31d 22h 33m 28.5 ± 0.08s, SD1.85 / 26
36.68 N ± 1.53km, 71.17 E ± 1.28km, h66 ± 0.69km
Hindu Kush region (718)
M_L4.5 / 2,

KSH	4.7	52	eP	22 34 44.0	5.0
			S	22 35 37.0	4.7
WMQ	14.5	55	eP	22 36 51.0	−0.7
GTA	22.7	74	P	22 38 26.8	1.1
GYA	31.8	99	P	22 39 48.8	−0.3