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BULLETIN OF SEISMOLOGICAL  
OBSERVATIONS OF CHINESE STATIONS

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(1—6月)



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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<sup>[1]</sup>。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<sup>[2,3]</sup>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  $M_s$  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:

$$M_s = \log(A / T) + \sigma_{PEK}(\Delta)$$

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

$\sigma_{PEK}(\Delta)$  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

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

在  $\Delta = 20^\circ - 130^\circ$  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  $\sigma_{IASPEI}(\Delta)$  测定面波震级  $M_s$ ,故此我国测定的  $M_s$  比国际上系统地偏高 0.2 级。此外,量规函数  $\sigma_{PEK}(\Delta)$  代表的面波衰减  $\Delta^{-1.66}$  在近距离处( $\Delta = 1^\circ - 20^\circ$ )过大,使得近距离测得的  $M_s$  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—里克特公式测定:

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

$m_B$  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  $M_{sz}$  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。

## 参 考 文 献

[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 seismological observatory practice, World Data Center A for Solid Earth Geophysics, Report SE-20.



## 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 Chinese places and persons are spelt with Chinese 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<sup>[1]</sup>. 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<sup>[2,3]</sup>. 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  $M_s$  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).

$$M_s = \log(A / T) + \sigma_{PEK}(\Delta)$$

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

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

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

Both the most authoritative seismological institution in the world: ISC and NEIC have been adopting the  $\sigma_{IASPEI}(\Delta)$  to determine magnitude  $M_s$ . Therefore, the magnitude  $M_s$  calculated by  $\sigma_{PEK}(\Delta)$  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  $\Delta^{-1.66}$  in the range  $\Delta = 1^\circ - 20^\circ$  characterized by  $\sigma_{PEK}(\Delta)$  is so large that the  $M_s$  measured for smaller epicentral distance is too small. In spite of this, in order to maintain continuity of data, the values of  $M_s$  computed by  $\sigma_{PEK}(\Delta)$  are still given.

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

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

$m_B$  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  $M_{sz}$  (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 seismological observatory practice, World Data Center A for Solid Earth Geophysics, Report SE-20.



# 台 站 目 录

## List of seismological observatories

Station name	Code	Geographic coordinates		Altitude (m)	Foundation	Instruments
		Lat N	Long E			
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
Qiongzong	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



# 仪器常数

## Constants of seismograph

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	$T_1$	$T_2$	$D_1$	$D_2$	$\sigma^2$	$V_0$	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	0.103	2.54E3	1986.4.10	30	照像纸 Photo paper	
		E-W	12.5	1.2	0.45	5.0	0.101	2.37E3	1987.5.9			
		U-D	12.5	1.2	0.45	5.0	0.297	1.45E3				
		N-S	12.5	1.2	0.45	5.0	0.101	2.66E3				
		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				
	473	N-S	1.5		0.50			.607E4		1986.9.1	120	熏烟纸 Smoked paper
		E-W	1.5		0.50			.508E4	1987.8.27			
		U-D	1.5		0.50			1.02E4				
		N-S	1.5		0.50			.584E4				
		E-W	1.5		0.50			.499E4				
		U-D	1.5		0.50			.861E4				
BJI	SK	N-S	12.5	1.1	0.45	5.4	0.089	1.76E3		1986.7.26	30	照像纸 Photo paper
		E-W	12.5	1.1	0.45	5.4	0.076	1.65E3	1987.8.1			
		U-D	12.5	1.1	0.59	5.3	0.286	.908E3				
		N-S	12.5	1.1	0.45	5.5	0.090	1.77E3				
		E-W	12.5	1.1	0.45	5.4	0.070	1.30E3				
		U-D	12.6	1.1	0.59	5.0	0.280	.905E3				
	JD-2	N-S	0.8		0.50			16.4E4		1986.3.29	120	墨水笔 Pen and ink
		E-W	0.8		0.50			11.4E4	1987.8.1			
		U-D	0.8		0.50			9.48E4				
		N-S	0.8		0.50			9.54E4				
		E-W	0.8		0.50			7.79E4				
		U-D	0.8		0.50			6.03E4				
CN2	SK	N-S	12.5	1.2	0.45	5.0	0.076	1.86E3		1987.1.1	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.072	2.30E3				
		U-D	12.5	1.2	0.65	4.9	0.035	1.39E3				
	473	N-S	1.5		0.45			1.17E4	1986.7.30	120	熏烟纸 Smoked paper	
		E-W	1.5		0.45			1.11E4	1987.7.6			
		U-D	1.5		0.45			4.26E4				
		N-S	1.5		0.45			1.20E4				
		E-W	1.5		0.45			1.15E4				
		U-D	1.5		0.45			4.50E4				
	CD2	SK	N-S	12.5	1.2	0.45	5.0	0.040		1.40E3	1986.12.30	30
			E-W	12.5	1.2	0.45	5.0	0.043	1.40E3			
			U-D	12.5	1.2	0.53	5.0	0.171	1.00E3			
DD1		N-S	1.0		0.45			5.91E4	1986.3.28	120	墨水笔 Pen and ink	
		E-W	1.0		0.45			5.40E4	1987.11.29			
		U-D	1.0		0.45			5.29E4				
		N-S	1.0		0.45			5.10E4				
		E-W	1.0		0.45			6.21E4				
		U-D	1.0		0.45			5.12E4				
DL2		SK	N-S	12.5	1.2	0.45	5.1	0.106		1.70E3	1986.10.22	30
			E-W	12.5	1.2	0.45	4.9	0.098	1.70E3			
			U-D	12.5	1.2	0.59	4.9	0.231	1.25E3			



续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T <sub>1</sub>	T <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	$\sigma^2$	V <sub>0</sub>	测定日期 Date determined	记录纸速 R <sub>v</sub> (mm / min)	记录方式 Recorder type
DL2	SK	N-S	12.5	1.2	0.45	4.9	0.109	1.70E3	1987.10.27	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.100	1.70E3			
		U-D	12.5	1.2	0.58	4.9	0.241	1.70E3			
	DD1	N-S	1.0		0.45			3.14E4	1986.10.9	120	墨水笔 Pen and ink
		E-W	1.0		0.45			2.15E4	1987.4.28		
		U-D	1.0		0.45			1.79E4			
		N-S	1.0		0.45			2.36E4			
		E-W	1.0		0.45			1.68E4			
		U-D	1.0		0.45			.998E4			
		N-S	1.0		0.45			3.14E4	1987.10.17		
		E-W	1.0		0.45			2.28E4			
		U-D	1.0		0.45			1.42E4			
GTA	SK	N-S	12.5	1.2	0.45	5.1	0.079	2.26E3	1986.11.7	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	4.9	0.076	2.21E3	1987.11.7		
		U-D	12.5	1.2	0.53	5.1	0.289	1.16E3			
		N-S	12.5	1.2	0.45	5.0	0.084	2.14E3			
		E-W	12.5	1.2	0.45	5.0	0.076	2.00E3			
		U-D	12.5	1.2	0.45	5.0	0.349	1.14E3			
	DD1	N-S	1.0		0.45			1.57E5	1986.9.26	120	墨水笔 Pen and ink
		E-W	1.0		0.45			1.76E5	1987.9.26		
		U-D	1.0		0.45			1.54E5			
		N-S	1.0		0.45			1.46E5			
		E-W	1.0		0.45			1.54E5			
		U-D	1.0		0.45			1.30E5			
	62	N-S	1.0	0.5	0.6	1.5	0.25	2.75E5	1986.5.30	120	照像纸 Photo paper
		E-W	1.0	0.5	0.6	1.5	0.25	2.50E5	1987.3.8		
		U-D	1.0	0.5	0.6	1.5	0.25	2.14E5			
		N-S	1.0	0.5	0.6	1.5	0.25	2.38E5			
		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			
GZH	SK	N-S	12.5	1.2	0.45	4.9	0.072	1.81E3	1986.3.19	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.066	1.99E3	1987.3.7		
		U-D	12.5	1.2	0.56	5.0	0.249	1.28E3			
		N-S	12.5	1.2	0.45	5.0	0.068	1.78E3			
		E-W	12.5	1.2	0.45	5.0	0.065	1.96E3			
		U-D	12.5	1.2	0.56	5.1	0.025	1.23E3			
	DD1	N-S	1.0		0.45			3.26E4	1986.8.26	120	墨水笔 Pen and ink
		E-W	1.0		0.45			2.85E4	1987.2.25		
		U-D	1.0		0.45			2.78E4			
		N-S	1.0		0.45			3.88E4			
		E-W	1.0		0.45			2.84E4			
		U-D	1.0		0.45			2.61E4			
		N-S	1.0		0.45			3.59E4	1987.8.10		
		E-W	1.0		0.45			2.14E4			
		U-D	1.0		0.45			2.46E4			



台站代号 Station code	仪器型号 Type of instruments	分向 Comp.	$T_1$	$T_2$	$D_1$	$D_2$	$\sigma^2$	$V_0$	测定日期 Date determined	记录纸速 $R_V$ (mm / min)	记录方式 Recorder type
GYA	SK	N-S	12.5	1.2	0.45	5.0	0.092	1.33E3	1986.7.9	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	4.9	0.071	1.45E3			
		U-D	12.5	1.2	0.56	5.0	0.307	.877E3			
		N-S	12.5	1.2	0.45	5.0	0.089	1.24E3	1987.7.9		
		E-W	12.5	1.2	0.45	4.9	0.069	1.29E3			
		U-D	12.5	1.2	0.56	5.1	0.297	.924E3			
	DD1	N-S	1.0		0.45			7.16E4	1986.7.14	120	墨水笔 Pen and ink
		E-W	1.0		0.45			5.28E4			
		U-D	1.0		0.45			4.96E4			
		N-S	1.0		0.45			6.87E4	1987.7.12		
		E-W	1.0		0.45			5.88E4			
		U-D	1.0		0.45			5.92E4			
HHC	SK	N-S	12.5	1.2	0.45	4.4	0.104	3.39E3	1986.8.9	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	4.5	0.114	2.89E3			
		U-D	12.5	1.2	0.60	4.9	0.308	1.40E3			
		N-S	12.5	1.2	0.45	4.4	0.112	3.44E3	1987.7.8		
		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			
	DD1	N-S	1.0		0.45			4.25E4	1986.7.25	120	墨水笔 Pen and ink
		E-W	1.0		0.45			5.05E4			
		U-D	1.0		0.45			6.20E4			
		N-S	1.0		0.45			5.77E4	1987.7.3		
		E-W	1.0		0.45			5.65E4			
		U-D	1.0		0.45			6.57E4			
KSH	SK	N-S	12.5	1.2	0.45	4.9	0.039	1.79E3	1986.8.4	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.045	1.47E3			
		U-D	12.5	1.2	0.56	4.9	0.280	1.26E3			
		N-S	12.5	1.2	0.45	5.0	0.038	1.58E3	1987.8.27		
		E-W	12.5	1.2	0.45	5.0	0.041	1.63E3			
		U-D	12.5	1.2	0.56	5.0	0.272	1.23E3			
KMI	SK	N-S	12.5	1.1	0.45	5.5	0.090	1.54E3		30	照像纸 Photo paper
		E-W	12.5	1.1	0.45	5.5	0.081	1.48E3	1987.1.1		
		U-D	12.5	1.1	0.60	5.5	0.300	.990E3			
	62	N-S	3.1	0.1	0.60	5.0	0.120	3.23E4		60	照像纸 Photo paper
		E-W	3.0	0.1	0.60	5.0	0.120	3.26E4	1987.1.21		
		U-D	2.0	0.1	0.30	4.0	0.316	5.00E4			
LZH	SK	N-S	12.5	1.2	0.45	5.0	0.080	1.94E3	1986.10.13	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.1	0.077	2.09E3			
		U-D	12.5	1.2	0.59	5.0	0.344	1.20E3			
		N-S	12.5	1.2	0.45	5.0	0.079	2.08E3	1987.7.20		
		E-W	12.5	1.2	0.45	5.1	0.079	2.07E3			
		U-D	12.5	1.2	0.59	4.9	0.332	1.30E3			
		N-S	12.5	1.2	0.45	5.0	0.076	1.74E3	1987.10.14		
		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			



续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	$T_1$	$T_2$	$D_1$	$D_2$	$\sigma^2$	$V_0$	测定日期 Date determined	记录纸速 $R_V$ (mm/min)	记录方式 Recorder type	
LZH	64	N-S	2.5	0.1	0.50	6.0	0.25	2.58E4	1986.6.17	60	照像纸 Photo paper	
		E-W	2.5	0.1	0.50	6.0	0.25	2.32E4	1987.7.9			
		U-D	2.5	0.1	0.50	6.0	0.25	2.69E4				
		N-S	2.5	0.1	0.50	6.0	0.25	2.17E4				
		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				
513		N-S	5.0		0.33			4.31E1	1987.6.19	30	熏烟纸 Smoked paper	
		E-W	5.0		0.35			5.42E1				
LSA	SK	N-S	12.5	1.2	0.45	5.0	0.085	1.51E3	1986.9.29	30	照像纸 Photo paper	
		E-W	12.5	1.2	0.45	5.0	0.110	2.12E3	1987.8.22			
		U-D	12.5	1.2	0.56	4.9	0.264	.940E3				
		N-S	12.5	1.2	0.45	5.0	0.096	2.09E3				
		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				
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				
	DD1	N-S	1.0		0.45			5.21E4	1986.11.8	120	墨水笔 Pen and ink	
		E-W	1.0		0.45			4.87E4				
		U-D	1.0		0.45			4.67E4				
		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				
NJ2	SK	N-S	12.5	1.2	0.45	5.0	0.083	2.05E3	1986.1.1	30	照像纸 Photo paper	
		E-W	12.5	1.2	0.45	5.0	0.093	2.48E3	1987.6.3			
		U-D	12.5	1.2	0.45	5.0	0.285	1.29E3				
		N-S	12.5	1.2	0.45	5.0	0.082	2.27E3				
		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				
DD1		N-S	1.0		0.45			2.84E4	1986.10.14	120	墨水笔 Pen and ink	
		E-W	1.0		0.45			2.96E4				
		U-D	1.0		0.45			4.45E4				
		N-S	1.0		0.45			3.61E4				1987.6.28
		E-W	1.0		0.45			3.41E4				
		U-D	1.0		0.45			3.69E4				
QZH	SK	N-S	12.5	1.2	0.45	5.0	0.081	2.41E3	1986.11.28	30	照像纸 Photo paper	
		E-W	12.5	1.2	0.45	5.0	0.075	1.98E3	1987.11.20			
		U-D	12.5	1.2	0.45	4.9	0.097	1.12E3				
		N-S	12.5	1.2	0.45	4.9	0.092	2.14E3				
		E-W	12.5	1.2	0.45	5.0	0.076	2.07E3				
		U-D	12.5	1.2	0.45	5.0	0.100	1.12E3				
473		N-S	1.5		0.45			.455E4	1986.4.17	120	熏烟纸 Smoked paper	
		E-W	1.5		0.45			.690E4				
		U-D	1.5		0.45			.390E4				



台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T <sub>1</sub>	T <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	$\sigma^2$	V <sub>0</sub>	测定日期 Date determined	记录纸速 R <sub>v</sub> (mm / min)	记录方式 Recorder type
QZH	473	N-S	1.5		0.45			.455E4	1987.5.1	120	熏烟纸 Smoked paper
		E-W	1.5		0.45			.660E4			
		U-D	1.5		0.45			.430E4			
QZN	SK	N-S	12.5	1.2	0.45	5.0	0.040	1.65E3	1986.12.25	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.039	1.55E3			
		U-D	12.5	1.2	0.59	5.0	0.288	1.23E3			
		N-S	12.5	1.2	0.45	5.0	0.038	1.58E3			
		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			2.21E4	1986.7.7	120	墨水笔 Pen and ink
		E-W	1.0		0.45			2.25E4			
		U-D	1.0		0.45			2.17E4			
		N-S	1.0		0.45			3.18E4			
		E-W	1.0		0.45			4.48E4			
		U-D	1.0		0.45			3.47E4			
SNY	SK	N-S	12.5	1.2	0.45	5.1	0.082	2.21E3	1986.4.1	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.094	2.44E3			
		U-D	12.5	1.2	0.61	5.0	0.315	1.19E3			
		N-S	12.5	1.2	0.45	5.1	0.085	2.30E3			
		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			
	DD1	N-S	1.0		0.45			5.48E4	1986.11.28	120	墨水笔 Pen and ink
		E-W	1.0		0.45			6.16E4			
		U-D	1.0		0.45			5.13E4			
		N-S	1.0		0.45			5.39E4			
		E-W	1.0		0.45			5.85E4			
		U-D	1.0		0.45			4.45E4			
SSE	SK	N-S	12.5	1.2	0.45	5.1	0.082	2.37E3	1986.12.16	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.1	0.085	2.02E3			
		U-D	12.5	1.2	0.54	4.9	0.231	1.11E3			
		N-S	12.5	1.2	0.45	5.0	0.078	2.01E3			
		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			6.67E4	1986.12.12	120	墨水笔 Pen and ink
		E-W	1.0		0.45			6.04E4			
		U-D	1.0		0.45			4.04E4			
		N-S	1.0		0.45			5.59E4			
		E-W	1.0		0.45			5.44E4			
		U-D	1.0		0.45			4.02E4			
DD1	N-S	1.0		0.45			5.53E4	1987.6.13	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			5.53E4				
	E-W	1.0		0.45			5.32E4				
	U-D	1.0		0.45			3.96E4				



续表

台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	T <sub>1</sub>	T <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	$\sigma^2$	V <sub>0</sub>	测定日期 Date determined	记录纸速 R <sub>v</sub> (mm/min)	记录方式 Recorder type
TIA	SK	N-S	12.5	1.2	0.45	4.9	0.078	2.14E3	1986.10.18	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	4.9	0.079	2.19E3	1987.10.24		
		U-D	12.5	1.2	0.53	5.0	0.270	.616E3			
		N-S	12.5	1.2	0.45	5.0	0.083	2.26E3			
		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			
	473	N-S	1.5		0.45			3.25E4		1986.10.11	120
		E-W	1.5		0.45			3.95E4	1987.10.30		
		U-D	1.5		0.45			3.15E4			
		N-S	1.5		0.45			4.55E4			
		E-W	1.5		0.45			2.75E4			
		U-D	1.5		0.45			5.60E4			
TIY	SK	N-S	12.5	1.2	0.45	5.1	0.086	1.65E3		1986.3.30	30
		E-W	12.5	1.2	0.45	5.1	0.080	1.91E3	1987.4.2		
		U-D	12.5	1.2	0.59	4.9	0.305	.811E3			
		N-S	12.5	1.2	0.45	1.2	0.085	1.67E3			
		E-W	12.5	1.2	0.45	1.2	0.082	1.72E3			
		U-D	12.5	1.2	0.59	1.2	0.307	.832E3			
	DD1	N-S	1.0		0.45			1.24E4		1986.3.12	120
		E-W	1.0		0.45			1.43E4	1987.3.14		
		U-D	1.0		0.45			3.11E4			
		N-S	1.0		0.45			1.29E4			
		E-W	1.0		0.45			1.34E4			
		U-D	1.0		0.45			3.84E4			
WHN	SK	N-S	12.5	1.2	0.45	4.9	0.114	2.62E3		1986.1.1	30
		E-W	12.5	1.2	0.45	4.9	0.100	2.34E3	1987.2.1		
		U-D	12.5	1.2	0.65	5.0	0.339	1.46E3			
		N-S	12.5	1.2	0.45	5.0	0.125	2.69E3			
		E-W	12.5	1.2	0.45	5.1	0.107	3.40E3			
		U-D	12.5	1.2	0.65	5.1	0.350	.929E3			
DD1	N-S	1.0		0.45			3.77E4	1986.1.1		120	墨水笔 Pen and ink
	E-W	1.0		0.45			2.73E4	1987.2.1			
	U-D	1.0		0.45			3.83E4				
	N-S	1.0		0.45			2.40E4				
	E-W	1.0		0.45			2.28E4				
	U-D	1.0		0.45			4.24E4				
WMQ	SK	N-S	12.5	1.2	0.45	5.0	0.090		1.74E3	1986.12.11	30
		E-W	12.5	1.2	0.45	5.0	0.097	1.26E3	1987.11.7		
		U-D	12.5	1.2	0.58	5.0	0.323	1.02E3			
		N-S	12.5	1.2	0.45	5.0	0.098	1.74E3			
		E-W	12.5	1.2	0.45	5.0	0.096	1.49E3			
		U-D	12.5	1.2	0.57	5.0	0.329	.926E3			



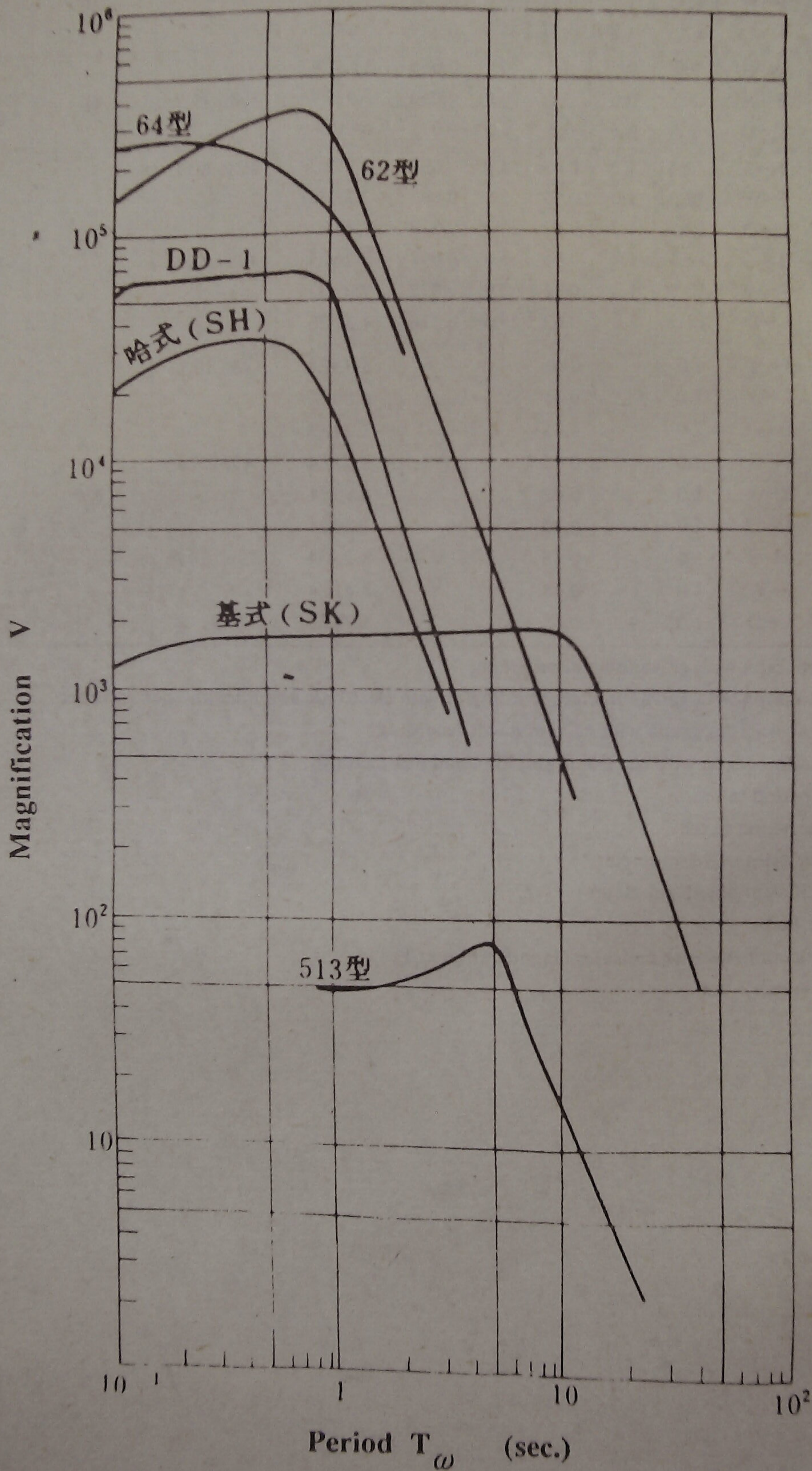
台站代号 Station code	仪器型号 Type of instrument	分向 Comp.	$T_1$	$T_2$	$D_1$	$D_2$	$\sigma^2$	$V_0$	测定日期 Date determined	记录纸速 $R_v$ (mm / min)	记录方式 Recorder type
WMQ	SK	N-S	12.5	1.2	0.45	5.0	0.098	1.74E3	1987.12.2	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.094	1.37E3			
		U-D	12.5	1.2	0.57	5.0	0.329	.926E3			
	62	N-S	2.0	0.5	0.5	0.8	0.055	11.1E4	1986.11.7	60	照像纸 Photo paper
		E-W	2.0	0.5	0.5	0.8	0.050	7.93E4			
		U-D	2.0	0.5	0.5	0.5	0.078	6.90E4			
XAN	SK	N-S	12.5	1.2	0.45	5.0	0.093	2.27E3	1986.6.11	30	照像纸 Photo paper
		E-W	12.5	1.2	0.45	5.0	0.093	2.29E3			
		U-D	12.5	1.2	0.62	5.1	0.327	1.41E3			
		N-S	12.5	1.2	0.45	5.0	0.091	2.26E3			
		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			
	DD1	N-S	1.0		0.45			8.35E4	1986.10.11	120	墨水笔 Pen and ink
		E-W	1.0		0.45			6.80E4			
		U-D	1.0		0.45			1.24E5			
		N-S	1.0		0.45			8.55E4			
		E-W	1.0		0.45			6.95E4			
		U-D	1.0		0.45			1.29E4			
		N-S	1.0		0.45			8.15E4			
		E-W	1.0		0.45			8.45E4			
U-D	1.0		0.45			1.23E5					

- 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
- $\sigma^2$  : 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





1987 年 地 震 目 录  
(1-6 月)

Catalogue of earthquakes of 1987  
(January to June)







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

No.	Origin time			Geographic coordinates		Depth (km)	Magnitudes					SD No. Sta. used	Region and comments	
	U	T	C	Lat	Long		Ms	M <sub>L</sub>	m <sub>B</sub>	Msz	m <sub>p</sub>			
	d	h	min	s			China	NEIC						
January 1987														
1	1	04	01	51.7	49.47N	156.25E	41	4.5			4.5	1.6	25	千岛群岛 Kurile Islands
	1	12		(BTC)										
2	1	04	55	35.0	44.05N	148.55E	45				4.7	1.8	29	千岛群岛地区 Kurile Islands region
	1	12												
3	1	06	07	26.7	4.64S	153.14E	68				5.1	1.4	59	新不列颠地区 New Britain region
	1	14												
4	1	07	22	45.3	11.02N	124.26E	39				4.3	1.3	40	宿务岛 Cebu
	1	15												
5	1	14	56	41.5	35.31N	71.41E	244				3.9	2.6	11	阿富汗 Afghanistan
	1	22												
6	1	15	59	03.1	40.67N	113.72E	24	3.2				1.5	11	中国东北部 North-Eastern China
	1	23												
7	1	16	25	33.8	2.61S	138.43E	72	5.0	5.8	5.8	1.2	97	西伊里安 West Irian	
	2	00												
8	1	21	12	33.3	10.13S	161.15E	93				5.0	0.9	47	所罗门群岛 Solomon Islands
	2	05												
9	2	05	45	50.1	10.46N	126.15E	70				4.6	1.4	36	棉兰老岛 Mindanao
	2	13												
10	2	07	42	43.2	42.35S	18.40W	7			5.1	5.1	2.8	17	南大西洋海岭 South Atlantic Ridge
	2	15												
11	2	17	08	26.7	42.50N	87.28E	15	3.2				2.0	7	新疆自治区北部 Northern Xinjiang Province
	3	01												
12	2	18	52	45.2	36.18N	140.75E	71				4.2	0.6	13	本州东海岸近海 Near east coast of Honshu
	3	02												
13	3	12	31	26.6	37.44N	114.44E	9	2.9				3.2	10	中国东部 Eastern China
	3	20												
14	3	15	35	00.6	3.34S	146.35E	4	6.2	6.1	6.0	5.5	1.6	101	新几内亚北海岸近海 Near north coast of New Guinea
	3	23												
15	3	16	30	26.8	3.36S	146.41E	5	6.3	6.3	6.2	5.6	1.3	101	新几内亚北海岸近海 Near north coast of New Guinea
	4	00												
16	3	17	45	07.2	28.71N	139.44E	465				4.4	1.2	32	小笠原群岛地区 Bonin Islands region
	4	01												
17	3	17	51	29.7	2.74S	138.34E	60				5.0	0.9	51	西伊里安 West Irian
	4	01												
18	3	17	52	07.5	44.48N	83.82E	8	3.2				2.0	7	新疆自治区北部 Northern Xinjiang Province
	4	01												
19	3	20	37	21.4	34.86N	103.72E	11	3.3				2.8	11	甘肃省 Gansu Province
	4	04												
20	3	22	04	03.8	14.98S	168.18E	17	6.4	6.5	6.5	6.0	1.1	103	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	4	06												
21	3	22	36	58.4	14.57S	167.93E	35				5.0	0.9	33	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	4	06												
22	4	00	05	36.8	51.45N	177.28W	31	4.7			4.9	1.0	47	安德烈亚诺夫群岛 Andreasnof Islands
	4	08												
23	4	00	32	15.3	20.82S	178.77W	568				5.1	1.3	30	斐济地区 Fiji region
	4	08												



24	4	01-38-52.2	27.22S	176.21W	40	5.2	5.9	5.4	5.4	1.4	51	克马德克群岛地区 Kermadec Islands region	
	4	09											
25	4	07-05-23.3	57.19S	26.05W	123					5.2	1.7	12	南桑德韦奇群岛地区 South Sandwich Islands region
	4	15											
26	4	08-01-27.8	4.65S	145.16E	69					5.0	1.2	15	新几内亚 New Guinea
	4	16											
27	4	10-21-44.6	49.69N	149.46E	490		4.8		5.1	1.0	82	千岛群岛西北以远地区 North-west of Kurile Islands	
	4	18											
28	4	10-43-21.2	27.47S	176.46W	33		5.6		5.1	1.7	27	克马德克群岛地区 Kermadec Islands region	
	4	18											
29	4	13-22-02.0	2.33S	139.53E	32	5.5	6.0	5.6	5.5	1.1	91	西伊里安北海岸近海 Near north coast of West Irian	
	4	21											
30	4	17-52-36.2	6.05N	82.63W	8	6.2		5.8	5.6	2.8	72	中美洲海岸远海 Off coast of Central America	
	5	01											
31	5	03-32-41.7	3.38S	146.49E	10	5.2		5.0	5.2	1.2	54	新几内亚北海岸近海 Near north coast of New Guinea	
	5	11											
32	5	04-54-08.2	24.20N	122.12E	32	4.0	4.0		3.6	1.8	30	台湾岛 Taiwan	
	5	12											
33	5	10-43-01.1	7.79S	127.41E	193				4.8	1.2	26	帝汶岛 Timor	
	5	18											
34	5	12-11-54.5	52.64N	169.48W	29	7.0	6.6	6.7	6.1	1.4	103	福克斯群岛 Fox Islands	
	5	20											
35	5	13-29-30.3	4.02N	96.66E	69				4.4	2.3	20	苏门答腊北部 Northern Sumatra	
	5	21											
36	5	18-47-09.5	52.78N	169.48W	32				4.7	0.9	18	福克斯群岛 Fox Islands	
	6	02											
37	5	20-51-46.8	14.90S	167.31E	131				5.5	0.9	57	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)	
	6	04											
38	5	21-24-21.1	40.48N	116.47E	13		3.0			3.0	12	中国东北部 North-Eastern China	
	6	05											
39	5	22-52-31.8	0.11N	126.20E	39	5.7		5.0	5.2	2.3	22	马鲁古海 Molucca Sea	
	6	06											
40	5	22-52-46.0	41.95N	81.31E	16	5.8		5.6	5.8	5.9	1.5	104	新疆维吾尔自治区南部 Southern Xinjiang Province
	6	06											
41	6	00-05-10.5	22.55N	118.76E	29	3.8	4.1			2.5	17	台湾地区 Taiwan region	
	6	08											
42	6	05-07-47.5	24.01N	121.78E	40	5.9		6.2	5.5	5.8	1.3	82	台湾岛 Taiwan
	6	13											
43	6	06-25-48.8	9.71S	149.14E	8				4.9	1.3	17	新几内亚东部地区 Eastern New Guinea region	
	6	14											
44	6	10-45-54.4	21.56N	106.23E	9	4.5	4.5			2.5	39	印度支那半岛 Indo-Pacific Peninsula	
	6	18											
45	6	10-57-28.7	6.22S	130.51E	149				5.1	0.9	35	班达海 Banda Sea	
	6	18											
46	6	14-21-14.1	23.16N	117.34E	19		3.3			2.2	5	中国东南沿海 Near south-eastern coast of China	
	6	22											
47	6	16-55-31.5	25.32N	100.08E	11		3.7			2.6	8	云南省 Yunnan Province	
	7	00											
48	6	19-49-54.3	27.28N	101.43E	9		2.8			2.4	10	云南省 Yunnan Province	
	7	03											
49	6	23-46-16.5	23.96N	121.69E	32	4.1	4.3		4.1	2.0	36	台湾岛 Taiwan	
	7	07											



50	7	00-39-26.8	40.46N	20.84E	16		3.6	5.0	1.8	33	希腊—阿尔巴尼亚边境地区 Greece-Albania border region	
	7	08										
51	7	00-44-33.5	37.26N	114.89E	31	2.7			2.9	7	中国东部 Eastern China	
	7	08										
52	7	02-23-47.8	52.35N	169.48W	32		4.3	4.9	1.1	49	福克斯群岛 Fox Islands	
	7	10										
53	7	08-28-48.9	38.01N	73.08E	136			4.8	1.3	17	塔吉克 Tadzhikistan	
	7	16										
54	7	14-19-20.1	17.94S	178.41W	577			4.7	1.1	30	斐济地区 Fiji region	
	7	22										
55	7	15-23-14.8	20.91S	168.51E	22		4.3	4.9	1.4	34	洛亚尔提群岛 Loyalty Islands	
	7	23										
56	7	17-11-50.5	25.16N	123.75E	19	4.5			2.7	31	琉球群岛西南部 South-western Ryukyu Islands	
	8	01										
57	7	18-19-06.2	34.26N	103.36E	20	5.8	5.8	5.5	5.5	2.0	103	四川省 Sichuan Province
	8	02										
58	7	18-48-21.7	34.38N	103.48E	7	2.8			3.7	5	四川省 Sichuan Province	
	8	02										
59	7	20-01-51.6	19.79S	133.94E	7	5.0		5.2	1.2	57	澳北区 Northern Territory, Australia	
	8	04										
60	7	21-36-39.2	34.14N	103.37E	4	2.8			2.1	5	四川省 Sichuan Province	
	8	05										
61	7	21-40-52.7	34.18N	103.60E	8	3.2			3.3	10	甘肃省 Gansu Province	
	8	05										
62	7	22-39-17.5	34.19N	103.27E	14	3.1			1.6	7	四川省 Sichuan Province	
	8	06										
63	7	22-43-59.1	44.34N	81.70E	23	4.1			3.0	15	新疆自治区北部 Northern Xinjiang Province	
	8	06										
64	8	00-50-59.0	22.62S	172.09E	51		4.7	5.4	1.0	20	洛亚尔提群岛地区 Loyalty Islands region	
	8	08										
65	8	01-18-04.6	7.17S	106.03E	32			4.7	0.7	20	爪哇岛 Java	
	8	09										
66	8	03-36-14.0	14.94S	167.43E	128			5.2	1.5	28	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)	
	8	11										
67	8	11-20-04.1	26.18N	124.54E	245		4.6	4.9	1.2	57	台湾东北以远地区 North-east of Taiwan	
	8	19										
68	8	11-35-27.6	34.32N	103.49E	6	3.2			2.2	8	四川省 Sichuan Province	
	8	19										
69	8	16-03-57.9	33.98N	103.32E	10	2.8			3.5	5	四川省 Sichuan Province	
	9	00										
70	8	18-09-43.4	18.95N	147.19E	33	4.7		4.9	1.3	44	马里亚纳群岛 Marianas	
	9	02										
71	8	18-49-03.0	3.63S	144.27E	14		4.8	4.9	1.8	23	新几内亚 New Guinea	
	9	02										
72	8	19-41-55.1	8.06S	118.32E	72			4.7	1.5	26	松巴哇地区 Sumbawa region	
	9	03										
73	8	19-48-55.1	4.64S	153.26E	47	4.9	4.8	5.5	1.0	94	新不列颠地区 New Britain region	
	9	03										
74	8	21-20-26.8	27.82N	101.24E	19	3.4	3.7		2.3	19	云南省 Yunnan Province	
	9	05										
75	9	00-30-26.1	25.13N	123.85E	28	4.3	4.0		4.8	2.8	27	琉球群岛西南部 South-western Ryukyu Islands
	9	08										





76	9	01-00-40.4	28.62N	95.20E	33	4.3	4.3	4.6	2.2	61	印度——中国边境地区 India-China border region
	9	09									
77	9	02-01-21.2	34.25N	103.42E	6		2.9		2.8	5	四川省 Sichuan Province
	9	10									
78	9	04-22-22.2	27.80N	96.24E	7		3.5		4.3	7	缅甸——印度边境地区 Burma-India border region
	9	12									
79	9	06-14-43.1	39.75N	141.60E	66	6.2	6.4	6.4	1.5	100	本州岛 Honshu
	9	14									
80	9	08-01-35.4	19.73S	176.26W	34	6.4	6.4	6.6	5.9	2.4	69 斐济地区 Fiji region
	9	16									
81	9	09-18-33.4	20.28S	168.87E	47				4.8	1.0	35 洛亚尔提群岛 Loyalty Islands
	9	17									
82	9	09-55-22.1	20.39S	168.92E	33	5.5		5.4	5.3	1.1	47 洛亚尔提群岛 Loyalty Islands
	9	17									
83	9	11-27-12.5	19.81S	133.95E	5				5.2	1.7	54 澳北区 Northern Territory, Australia
	9	19									
84	9	14-25-29.1	43.09N	81.21E	19		3.6			3.3	10 吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	9	22									
85	9	17-16-50.8	39.54N	96.95E	12		3.6			3.5	8 甘肃省 Gansu Province
	10	01									
86	9	17-40-34.1	39.83N	141.73E	88				5.0	1.6	79 本州岛 Honshu
	10	01									
87	9	19-01-57.3	20.34S	168.84E	48				5.1	2.2	39 洛亚尔提群岛 Loyalty Islands
	10	03									
88	10	00-44-05.7	24.88N	121.53E	10	3.9	3.8			2.7	18 台湾岛 Taiwan
	10	08									
89	10	03-55-49.3	5.82S	110.94E	557				4.9	1.3	29 爪哇岛 Java
	10	11									
90	10	04-47-06.3	9.25N	126.57E	61	4.9	5.5	4.5	5.3	1.6	95 棉兰老岛 Mindanao
	10	12									
91	10	13-06-58.2	26.59N	61.14E	30	4.6			4.6	2.3	28 伊朗南部 Southern Iran
	10	21									
92	10	18-27-27.9	25.14N	120.71E	15	3.9	3.7			2.3	20 台湾岛 Taiwan
	11	02									
93	10	18-33-24.1	24.10N	121.76E	25	3.9	4.0			2.1	21 台湾岛 Taiwan
	11	02									
94	11	06-02-49.4	36.72N	80.97E	15		4.2			3.1	10 新疆自治区南部 Southern Xinjiang Province
	11	14									
95	11	07-30-10.6	18.77S	174.35W	103				5.1	1.4	41 汤加 Tonga
	11	15									
96	11	11-03-55.2	9.14N	126.72E	55	4.4			4.9	1.5	50 棉兰老岛 Mindanao
	11	19									
97	11	12-12-27.3	23.98N	122.28E	31	3.6	3.9		4.0	2.0	29 台湾岛 Taiwan
	11	20									
98	11	12-31-25.4	29.92N	51.80E	9	4.7		4.1	4.9	1.8	35 伊朗南部 Southern Iran
	11	20									
99	11	13-43-47.4	36.04N	100.42E	9		2.9			4.6	9 青海省 Qinghai Province
	11	21									
100	11	17-39-48.2	34.27N	103.39E	8		3.4			2.9	15 四川省 Sichuan Province
	12	01									
101	12	02-20-33.7	41.99N	84.48E	9		3.5			2.2	8 新疆自治区南部 Southern Xinjiang Province
	12	10									



102	12	04-47-29.5	42.07N	118.54E	19	2.9		3.5	7	中国东北部	
	12	12								North-Eastern China	
103	12	12-23-13.5	51.66N	175.81W	31	4.6		5.0	1.3	49 安德烈亚诺夫群岛	
	12	20								Andreanof Islands	
104	12	17-04-42.9	1.54S	120.34E	32			4.7	2.0	43 苏拉威西(西里伯斯)岛	
	13	01								Sulawesi (Celebes)	
105	12	18-54-34.0	31.28N	133.67E	10	4.6		4.5	5.0	1.4	61 四国东南以远地区
	13	02									South-east of Shikoku
106	12	19-04-29.5	51.42N	175.45W	32			4.7	1.3	17 安德烈亚诺夫群岛	
	13	03									Andreanof Islands
107	12	23-16-28.2	31.42N	132.00E	29			4.4	2.2	30 九州岛	
	13	07									Kyushu
108	12	23-52-55.3	36.40N	114.25E	21	3.1			1.9	10 中国东部	
	13	07									Eastern China
109	13	06-22-19.5	59.63S	25.90W	34			5.4	2.9	37 南桑德韦奇群岛地区	
	13	14									South Sandwich Islands region
110	13	08-03-00.0	13.46S	166.58E	53			5.1	5.4	1.2	79 瓦努阿图(新赫布里底)
	13	16									Vanuatu (New Hebrides)
111	13	10-55-14.3	29.49S	177.27W	44		5.6		5.3	1.4	44 克马德克群岛
	13	18									Kermadec Islands
112	13	11-47-33.1	36.09N	81.07E	22	4.2			2.1	8 克什米尔——西藏边境地区	
	13	19									Kashmir-Tibet border region
113	13	13-24-00.2	6.08N	78.92W	6	5.9		5.2	5.5	2.9	47 巴拿马以南地区
	13	21									South of Panama
114	13	16-35-36.0	37.92N	78.10E	19	3.6			3.7	5 新疆维吾尔自治区南部	
	14	00									Southern Xinjiang Province
115	13	20-22-08.8	15.36S	174.84W	288			4.9	0.9	40 汤加	
	14	04									Tonga
116	13	22-49-02.0	53.43N	167.26W	31			4.6	2.9	22 福克斯群岛	
	14	06									Fox Islands
117	13	23-04-42.7	54.88N	162.05E	33	5.0		4.6	5.2	1.6	42 堪察加东海岸近海
	14	07									Near east coast of Kamchatka
118	14	05-39-07.8	34.10N	103.54E	6	3.1			1.9	8 甘肃省	
	14	13									Gansu Province
119	14	09-38-56.1	49.78S	114.37W	15			5.6	5.0	3.4	32 复活节岛海山
	14	17									Easter Island Cordillera
120	14	11-03-47.6	42.55N	142.91E	104		6.9		6.5	1.3	111 北海道地区
	14	19									Hokkaido region
121	14	12-44-50.4	32.54S	67.26W	153			5.5	1.9	48 阿根廷门多萨省	
	14	20									Mendoza Province, Argentina
122	14	17-37-11.4	34.18N	103.22E	5	2.8			4.4	5 四川省	
	15	01									Sichuan Province
123	15	01-56-49.2	35.41N	105.21E	14	3.5			2.7	19 甘肃省	
	15	09									Gansu Province
124	15	06-46-08.4	36.86N	81.16E	10	3.9			4.7	6 新疆维吾尔自治区南部	
	15	14									Southern Xinjiang Province
125	15	08-10-17.1	44.01N	82.82E	16	3.4			1.9	7 新疆维吾尔自治区北部	
	15	16									Northern Xinjiang Province
126	15	08-13-54.9	38.23N	121.88E	21	3.6	3.7		3.0	19 中国东北部	
	15	16									North-Eastern China
127	15	09-21-39.4	2.47S	139.55E	31	4.6		4.8	4.8	1.1	44 西伊里安北海岸近海
	15	17									Near north coast of West Irian



128	15	11-19-06.4	7.87S	129.94E	37	4.9	5.0	5.1	1.7	68	帝汶海 Timor Sea
	15	19									
129	15	12-24-44.2	25.95N	125.07E	179		4.4	1.4		17	台湾东北以远地区 North-east of Taiwan
	15	20									
130	15	12-36-50.3	45.11N	82.54E	17	3.2			1.2	6	新疆自治区北部 Northern Xinjiang Province
	15	20									
131	15	19-41-41.6	22.96N	120.22E	16	4.9	4.7	4.3	4.9	1.8	91 台湾地区 Taiwan region
	16	03									
132	15	22-39-52.2	39.06N	101.35E	1	2.8			2.9	5	甘肃省 Gansu Province
	16	06									
133	15	22-41-40.1	53.52N	167.21W	35			4.6	0.8	14	福克斯群岛 Fox Islands
	16	06									
134	15	23-59-11.7	34.23N	103.32E	4	3.0			3.6	5	四川省 Sichuan Province
	16	07									
135	16	00-05-26.4	51.15N	176.09W	41			4.6	1.2	30	安德烈亚诺夫群岛 Andreanof Islands
	16	08									
136	16	00-27-46.7	58.68S	26.99W	39			4.9	1.8	7	南桑德韦奇群岛地区 South Sandwich Islands region
	16	08									
137	16	01-35-42.7	17.00N	147.45E	33			4.5	2.3	24	马里亚纳群岛 Marianas
	16	09									
138	16	02-43-31.6	29.83N	138.37E	85			4.7	2.4	32	本州以南地区 South of Honshu
	16	10									
139	16	04-36-06.1	28.04N	101.01E	4	3.1			2.9	8	云南省 Yunnan Province
	16	12									
140	16	05-12-47.7	42.84N	145.13E	54	4.7	5.5	5.1	5.1	1.9	95 北海道地区 Hokkaido region
	16	13									
141	16	08-37-38.7	40.10N	75.31E	10	3.8			4.5	6	新疆自治区南部 Southern Xinjiang Province
	16	16									
142	16	09-11-18.5	34.27N	103.57E	26	3.2			2.6	9	甘肃省 Gansu Province
	16	17									
143	16	10-42-43.2	10.69S	161.33E	64			4.5	4.8	1.6	36 所罗门群岛 Solomon Islands
	16	18									
144	16	13-18-08.7	22.06S	173.62W	35			5.1	1.2	35	汤加地区 Tonga region
	16	21									
145	16	14-09-54.6	28.36N	103.35E	7	2.8			3.2	8	四川省 Sichuan Province
	16	22									
146	16	14-13-50.0	17.90S	178.38W	597			4.9	1.2	38	斐济地区 Fiji region
	16	22									
147	16	14-42-08.8	10.58S	161.23E	46			4.7	4.5	3.2	25 所罗门群岛 Solomon Islands
	16	22									
148	16	21-36-57.4	19.97N	121.07E	51	3.4	3.3	4.2	2.0	36	菲律宾群岛地区 Philippine Islands region
	17	05									
149	17	03-35-30.0	1.29N	132.91E	33	4.5		5.0	1.8	42	西伊里安地区 West Irian region
	17	11									
150	17	10-04-04.1	39.64N	141.83E	64	4.3		5.0	2.1	82	本州岛 Honshu
	17	18									
151	17	11-14-52.2	10.74S	161.30E	51			4.5	2.6	35	所罗门群岛 Solomon Islands
	17	19									
152	17	11-22-03.9	10.70S	161.43E	56	5.5	5.7	5.4	4.8	2.8	65 所罗门群岛 Solomon Islands
	17	19									
153	17	12-13-21.6	37.35N	112.66E	20	3.1			2.1	10	中国东部 Eastern China
	17	20									



154	17	12-51-56.4	44.02N	80.62E	5	2.9				4.9	5	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	17	20										
155	17	13-03-44.6	36.01N	71.00E	85					4.8	3.0	10 兴都库什地区 Hindu Kush region
	17	21										
156	17	21-00-27.5	37.95N	77.52E	27	3.5				4.4	5	5 新疆自治区南部 Southern Xinjiang Province
	18	05										
157	18	01-20-04.0	37.78N	77.57E	17	3.5				2.8	6	6 新疆自治区南部 Southern Xinjiang Province
	18	09										
158	18	13-03-39.2	36.06N	70.40E	45	4.8				2.8	16	16 兴都库什地区 Hindu Kush region
	18	21										
159	18	14-04-11.9	37.53N	114.58E	15	3.1				1.5	17	17 中国东北部 North-Eastern China
	18	22										
160	18	18-16-10.6	19.43S	175.57W	238					5.2	0.9	44 斐济地区 Fiji region
	19	02										
161	18	18-33-55.5	25.32N	100.06E	9	3.6				1.5	11	11 云南省 Yunnan Province
	19	02										
162	18	23-35-26.6	30.72N	142.72E	34					4.4	1.0	21 本州以南地区 South of Honshu
	19	07										
163	19	04-12-28.1	43.84N	147.68E	51					4.8	1.4	55 千岛群岛 Kurile Islands
	19	12										
164	19	06-47-41.6	54.89N	163.08E	41	5.5	5.1	5.2	5.4	1.4	86	86 堪察加东海岸近海 Near east coast of Kamchatka
	19	14										
165	19	07-46-23.8	28.41N	83.69E	32	4.6	5.2	4.3	5.2	1.4	84	84 尼泊尔——印度边境地区 Nepal-India border region
	19	15										
166	19	08-12-06.1	28.50N	83.66E	29	4.5	5.0	4.9	1.8	73	73 尼泊尔 Nepal	
	19	16										
167	19	15-54-51.1	2.14N	127.21E	34					5.1	1.4	61 马鲁古海峡 Molucca Passage
	19	23										
168	19	19-40-39.1	29.00S	178.10W	89					5.0	0.9	24 克马德克群岛 Kermadec Islands
	20	03										
169	19	21-24-00.4	56.04N	164.31E	33	5.6	5.2	4.9	4.9	1.6	72	72 堪察加东海岸远海 Off east coast of Kamchatka
	20	05										
170	19	23-52-01.5	0.93N	99.52E	24					4.9	1.3	17 苏门答腊北部 Northern Sumatra
	20	07										
171	20	15-53-01.4	14.57S	167.42E	194					4.9	1.1	50 瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	20	23										
172	20	23-36-04.2	38.64N	141.90E	62	4.6	5.4	5.0	1.7	90	90 本州东海岸近海 Near east coast of Honshu	
	21	07										
173	20	23-43-51.5	51.59N	174.39W	33			4.5	5.2	1.5	63	63 安德烈亚诺夫群岛 Andreanof Islands
	21	07										
174	21	01-09-34.0	26.88N	143.87E	33	4.3	5.0	5.1	1.4	74	74 小笠原群岛地区 Bonin Islands region	
	21	09										
175	21	01-17-02.5	58.00S	25.79W	26					5.4	2.7	17 南桑德韦奇群岛地区 South Sandwich Islands region
	21	09										
176	21	01-51-16.9	5.63S	130.85E	53			5.4	5.3	1.1	84	84 班达海 Banda Sea
	21	09										
177	21	04-47-02.4	6.72S	129.79E	156			5.3	5.4	1.2	93	93 班达海 Banda Sea
	21	12										
178	21	05-54-45.8	3.26S	137.44E	70					5.1	1.9	20 西伊里安 West Irian
	21	13										
179	21	05-59-51.2	40.77N	120.11E	22	2.8				3.2	12	12 中国东北部 North-Eastern China
	21	13										



180	21	11-26-35.7	20.75N	145.00E	120		5.8	5.6	1.2	104	马里亚纳群岛 Marianas	
	21	19										
181	21	12-49-34.7	34.20N	103.42E	16		3.0		1.4	6	四川省 Sichuan Province	
	21	20										
182	21	17-08-23.1	30.41N	131.42E	49			4.6	2.1	26	琉球群岛 Ryukyu Islands	
	22	01										
183	21	17-16-57.1	35.17N	111.04E	11	3.3	3.6		2.4	24	中国东部 Eastern China	
	22	01										
184	21	20-37-03.1	6.02S	128.83E	268		5.5	5.3	1.1	80	班达海 Banda Sea	
	22	04										
185	22	01-21-36.7	36.49N	81.01E	25		4.3		2.0	10	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	22	09										
186	22	01-30-58.9	5.22S	102.64E	41			4.1	5.1	1.2	64	苏门答腊南部 Southern Sumatra
	22	09										
187	22	05-33-15.0	18.83S	175.66W	263		5.6	5.2	1.3	61	斐济地区 Fiji region	
	22	13										
188	22	05-47-22.5	29.33N	142.11E	41	4.5	4.9	4.9	1.2	61	小笠原群岛地区 Bonin Islands region	
	22	13										
189	22	09-26-21.6	8.13N	137.47E	35			4.6	1.3	22	加罗林群岛西部 Western Caroline Islands	
	22	17										
190	22	12-15-43.6	43.34N	146.42E	58	4.5	5.2	5.4	1.4	86	北海道地区 Hokkaido region	
	22	20										
191	22	14-07-58.2	31.19S	179.97E	407		5.6	5.1	1.1	47	克马德克群岛地区 Kermadec Islands region	
	22	22										
192	22	14-44-09.4	45.94N	90.23E	18		3.4		3.3	9	新疆自治区北部 Northern Xinjiang Province	
	22	22										
193	22	16-44-23.1	37.82S	78.06E	5			5.1	0.9	21	中印度洋海丘 Mid-Indian Rise	
	23	00										
194	22	17-58-39.4	24.27N	121.79E	10	4.0	4.0		2.0	25	台湾岛 Taiwan	
	23	01										
195	22	20-15-11.4	15.13N	122.86E	35	4.1		4.6	1.9	58	吕宋岛 Luzon	
	23	04										
196	22	22-32-04.2	35.61N	81.13E	16		3.9		3.3	6	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	23	06										
197	23	01-52-53.3	52.34N	171.31W	33			4.7	0.8	38	福克斯群岛 Fox Islands	
	23	09										
198	23	04-55-06.4	52.28N	169.64W	33			4.5	0.9	29	福克斯群岛 Fox Islands	
	23	12										
199	23	12-24-04.0	21.68N	119.15E	10		3.9		2.5	9	台湾地区 Taiwan region	
	23	20										
200	23	17-51-08.5	1.68N	126.50E	71	5.3	5.9	5.6	1.0	106	马鲁古海峡 Molucca Passage	
	24	01										
201	23	18-16-41.0	2.88S	141.49E	30	5.0		5.1	5.3	1.1	70	西伊里安 West Irian
	24	02										
202	23	20-14-44.2	34.21N	103.18E	5		3.3		3.3	11	四川省 Sichuan Province	
	24	04										
203	23	20-34-12.3	9.83S	158.65E	56			4.7	2.2	20	所罗门群岛 Solomon Islands	
	24	04										
204	23	21-18-09.0	13.96N	144.76E	151		5.1	5.0	1.3	84	马里亚纳群岛 Marianas	
	24	05										
205	24	08-09-20.3	41.47N	79.34E	26	6.4	6.1	5.9	5.9	1.8	101	新疆自治区南部 Southern Xinjiang Province
	24	16										



206	24	08-59-34.3	41.38N	79.32E	28	4.2	4.3	4.7	3.0	27	新疆维吾尔自治区南部 Southern Xinjiang Province	
	24	16										
207	24	10-34-25.9	27.63N	92.74E	26	4.5	4.8	4.9	2.0	68	印度——中国边境地区 India-China border region	
	24	18										
208	24	13-13-27.7	4.52N	62.54E	9	5.0		4.9	2.1	25	卡尔斯伯格海岭 Carlsberg Ridge	
	24	21										
209	24	13-40-38.5	41.45N	79.23E	23	4.6	5.1	5.2	1.9	59	新疆维吾尔自治区南部 Southern Xinjiang Province	
	24	21										
210	24	16-21-35.0	11.43N	125.56E	78			4.9	0.9	34	莱特岛 Leyte	
	25	00										
211	25	00-32-46.6	2.91S	141.51E	31			5.0	1.5	42	新几内亚 New Guinea	
	25	08										
212	25	04-40-07.9	18.11S	178.12W	577			5.2	0.7	44	斐济地区 Fiji region	
	25	12										
213	25	05-14-43.2	40.84N	93.47E	13			2.7		5	新疆维吾尔自治区南部 Southern Xinjiang Province	
	25	13										
214	25	06-10-57.0	41.55N	79.43E	32	4.2	4.2	4.5	3.0	23	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	25	14										
215	25	09-48-21.4	35.27N	99.38E	16		3.3	4.9		6	青海省 Qinghai Province	
	25	17										
216	25	10-31-23.6	3.28N	79.33W	12	5.8		5.2	5.6	3.3	55	巴拿马以南地区 South of Panama
	25	18										
217	25	18-29-10.8	41.63N	79.15E	26		3.7	3.4		7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	26	02										
218	25	20-55-28.6	39.96N	118.88E	18		3.1	3.0		13	中国东北部 North-Eastern China	
	26	04										
219	25	20-56-38.3	25.04N	99.43E	10	3.9	3.8	3.0		16	缅甸——中国边境地区 Burma-China border region	
	26	04										
220	25	22-49-11.8	41.49N	79.23E	26	3.8	4.1	4.5	2.7	23	新疆维吾尔自治区南部 Southern Xinjiang Province	
	26	06										
221	25	23-45-23.5	41.42N	79.44E	30		3.6	4.4		8	新疆维吾尔自治区南部 Southern Xinjiang Province	
	26	07										
222	26	05-28-41.8	42.13N	79.04E	11	4.3	4.3	4.5	2.2	21	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	26	13										
223	26	09-26-58.9	37.92N	100.98E	17		2.6	4.1		6	青海省 Qinghai Province	
	26	17										
224	26	11-11-40.9	36.06N	1.32E	8			4.3	4.9	1.2	44	阿尔及利亚 Algeria
	26	19										
225	26	17-19-28.6	13.00N	125.22E	29			4.6	1.9	34	萨马岛 Samar	
	27	01										
226	26	21-52-39.3	14.81N	54.56E	10			4.4	2.9	14	阿拉伯海 Arabian Sea	
	27	05										
227	27	00-25-17.2	41.93N	142.68E	70	4.3		5.1	1.3	76	北海道地区 Hokkaido region	
	27	08										
228	27	00-36-27.1	14.96N	54.61E	11	5.0	5.5	5.0	1.4	47	阿拉伯海 Arabian Sea	
	27	08										
229	27	00-38-47.5	41.31N	79.87E	30		4.0	2.4		8	新疆维吾尔自治区南部 Southern Xinjiang Province	
	27	08										
230	27	01-18-05.3	25.34N	100.10E	11		3.3	1.6		6	云南省 Yunnan Province	
	27	09										
231	27	01-30-36.5	35.51N	140.71E	54	4.7	4.9	5.1	1.5	68	本州东海岸近海 Near east coast of Honshu	
	27	09										



232	27	04-01-57.5	14.81N	54.65E	10		4.3	4.6	1.9	18	阿拉伯海 Arabian Sea	
	27	12										
233	27	06-48-02.2	41.27N	79.26E	25	3.8			3.5	6	新疆维吾尔自治区南部 Southern Xinjiang Province	
	27	14										
234	27	07-06-50.6	31.94S	71.97W	7	5.4	5.4	5.0	3.4	20	中智利海岸远海 Off coast of Central Chile	
	27	15										
235	27	07-27-30.4	41.52N	79.46E	22	3.5			4.2	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	27	15										
236	27	09-27-01.2	10.72N	56.95E	10		4.8	1.3		49	卡尔斯伯格海岭 Carlsberg Ridge	
	27	17										
237	27	15-26-20.8	41.87N	143.57E	46		4.4	1.5		41	北海道地区 Hokkaido region	
	27	23										
238	27	16-39-56.3	32.98N	141.87E	36	4.3	4.7	1.5		32	本州以南地区 South of Honshu	
	28	00										
239	27	19-10-52.7	41.76N	73.73E	31	4.9	4.7	2.0		27	吉尔吉斯 Kirgiziya	
	28	03										
240	27	22-56-33.2	47.41N	129.14E	21	3.0			3.6	9	中国东北部 North-Eastern China	
	28	06										
241	27	23-34-16.4	24.23N	122.81E	57	4.1	4.5	4.6	1.7	68	台湾地区 Taiwan region	
	28	07										
242	28	00-01-39.5	41.44N	79.21E	29	4.3	4.5	2.6		31	新疆维吾尔自治区南部 Southern Xinjiang Province	
	28	08										
243	28	00-03-38.3	8.38N	58.66E	10	4.8	5.3	4.7	2.2	30	卡尔斯伯格海岭 Carlsberg Ridge	
	28	08										
244	28	00-08-52.6	41.50N	79.29E	5	3.6			3.5	5	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	28	08										
245	28	01-59-37.1	28.32N	103.01E	15	3.5			2.4	15	四川省 Sichuan Province	
	28	09										
246	28	02-39-51.7	1.85S	99.42E	34		4.0	1.6		20	苏门答腊西南以远地区 South-west of Sumatera	
	28	10										
247	28	04-59-10.8	16.37N	122.37E	34		4.5	1.9		17	吕宋岛 Luzon	
	28	12										
248	28	09-07-56.8	9.02N	126.36E	49	5.0	5.2	5.1	1.0	68	棉兰老岛 Mindanao	
	28	17										
249	28	09-12-48.3	1.23S	129.73E	15	5.4	5.5	5.5	5.5	2.1	81	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	28	17										
250	28	12-12-15.5	45.36N	96.08E	33	4.9	5.4	5.1	1.8	82	蒙古 Mongolia	
	28	20										
251	28	17-35-45.5	35.41N	106.52E	18	3.0			3.0	9	甘肃省 Gansu Province	
	29	01										
252	28	20-14-36.1	61.31S	153.46E	14	5.5	5.5	5.5	1.2	13	巴勒尼群岛地区 Balleny Islands region	
	29	04										
253	28	23-24-26.4	18.59N	147.73E	59	4.8	5.2	5.2	1.3	79	马里亚纳群岛地区 Marianas region	
	29	07										
254	29	02-06-16.0	24.47N	122.22E	71	3.2		4.1	2.2	26	台湾岛 Taiwan	
	29	10										
255	29	02-43-47.0	1.31N	126.22E	48	5.9	6.1	5.9	5.8	1.2	101	马鲁古海峡 Molucca Passage
	29	10										
256	29	03-04-39.1	6.25S	155.09E	74		5.5	1.0		43	所罗门群岛 Solomon Islands	
	29	11										
257	29	07-06-50.0	35.73N	80.85E	31	4.3		5.0		6	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	29	15										



258	29	07-16-03.3	24.57N	97.51E	15	3.6				2.7	6	缅甸——中国边境地区 Burma-China border region	
	29	15											
259	29	11-30-50.4	12.58N	143.39E	376				4.6	1.6	37	马里亚纳群岛以南地区 South of the Marianas	
	29	19											
260	29	17-22-38.8	29.47S	71.42W	50				5.4	2.9	34	中智利海岸近海 Near coast of Central Chile	
	30	01											
261	29	20-17-57.7	39.73N	122.83E	16	2.9			2.7	6	中国东北部 North-Eastern China		
	30	04											
262	29	23-14-50.9	37.22N	141.53E	68				4.2	1.9	26	本州东海岸近海 Near east coast of Honshu	
	30	07											
263	30	03-00-18.1	41.01N	129.14E	17	3.1			1.6	7	北朝鲜 North Korea		
	30	11											
264	30	06-10-21.5	30.57N	116.79E	8	2.7			2.1	5	中国东部 Eastern China		
	30	14											
265	30	12-00-18.2	41.51N	79.10E	30	3.5			4.4	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region		
	30	20											
266	30	12-16-39.1	31.93N	103.50E	14	2.9			2.5	6	四川省 Sichuan Province		
	30	20											
267	30	13-11-12.7	36.04N	81.12E	11	4.3			2.3	9	克什米尔——西藏边境地区 Kashmir-Tibet border region		
	30	21											
268	30	13-46-21.7	36.05N	81.06E	17	4.2			3.7	5	克什米尔——西藏边境地区 Kashmir-Tibet border region		
	30	21											
269	30	14-45-31.6	43.17N	87.56E	19	3.6			2.2	7	新疆自治区北部 Northern Xinjiang Province		
	30	22											
270	30	17-34-39.0	37.99N	102.02E	8	3.2			2.4	9	青海省 Qinghai Province		
	31	01											
271	30	22-29-41.4	59.94S	26.68W	51	7.1	6.8	7.0	6.2	2.8	94	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	06											
272	31	00-22-25.7	59.92S	26.92W	28	5.8			5.1	2.3	19	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	08											
273	31	01-49-12.3	59.78S	26.68W	24				5.1	2.3	27	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	09											
274	31	02-23-45.4	18.09S	178.16W	648				5.2	0.8	44	斐济地区 Fiji region	
	31	10											
275	31	02-24-49.8	59.84S	26.63W	29				5.0	0.9	6	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	10											
276	31	03-19-34.5	60.05S	26.82W	37				5.1	4.5	8	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	11											
277	31	04-40-15.6	59.88S	26.57W	30	5.3			5.4	2.4	35	南桑德韦奇群岛地区 South Sandwich Islands region	
	31	12											
278	31	06-26-17.6	17.94S	178.38W	592				5.3	0.9	54	斐济地区 Fiji region	
	31	14											
279	31	08-43-44.3	59.91S	26.47W	30				5.0	5.2	3.6	37	南桑德韦奇群岛地区 South Sandwich Islands region
	31	16											
280	31	13-17-41.5	34.20N	141.61E	34				4.3	2.3	24	本州东海岸远海 Off east coast of Honshu	
	31	21											
281	31	19-30-03.6	60.10S	26.38W	28				4.9	5.3	3.1	27	南桑德韦奇群岛地区 South Sandwich Islands region
	1	03											
282	31	22-02-34.6	14.18N	123.12E	51				4.6	3.3	27	吕宋岛 Luzon	
	1	06											



283	1	02-59-25.7	2.51S	138.88E	60	4.7					5.1	1.0	62	西伊里安 West Irian	
	1	10													
284	1	04-05-14.3	44.33N	81.49E	12		3.0					2.5	7	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region	
	1	12													
285	1	04-11-39.1	53.09N	158.64E	158						4.8	1.0	39	堪察加东海岸近海 Near east coast of Kamchatka	
	1	12													
286	1	06-27-45.2	41.58N	119.97E	15		2.8					3.9	8	中国东北部 North-Eastern China	
	1	14													
287	1	09-08-13.3	24.08N	122.54E	31	5.1	4.7	5.2	4.7	5.2	1.6		97	台湾地区 Taiwan region	
	1	17													
288	1	11-43-46.3	28.08N	104.80E	10		3.0					1.6	8	云南省 Yunnan Province	
	1	19													
289	1	20-21-48.7	19.31N	121.09E	22	4.5	4.3	5.1	4.3	5.0	1.9		84	吕宋岛 Luzon	
	2	04													
290	2	06-29-56.3	5.63S	154.23E	42						3.9	5.4	1.6	39	新不列颠地区 New Britain region
	2	14													
291	2	06-55-58.6	41.26N	142.20E	55						4.8	1.6	22	本州东海岸近海 Near east coast of Honshu	
	2	14													
292	2	18-12-56.1	38.71N	75.57E	25		3.9				4.1	3.5	13	新疆维吾尔自治区南部 Southern Xinjiang Province	
	3	02													
293	2	19-22-02.9	16.36N	99.24W	33						5.3	2.1	11	墨西哥格雷罗海岸远海 Off coast of Guerrero, Mexico	
	3	03													
294	2	19-32-21.6	54.26N	162.66E	33						4.4	4.9	2.6	24	堪察加东海岸远海 Off east coast of Kamchatka
	3	03													
295	2	20-18-42.1	4.21S	151.80E	11						4.1	5.6	2.6	30	新不列颠地区 New Britain region
	3	04													
296	2	22-17-15.2	35.03N	75.60E	81	3.9					4.4	2.3	17	克什米尔东部 Eastern Kashmir	
	3	06													
297	3	00-22-13.0	12.98N	88.37W	56						5.3	2.8	42	中美洲海岸远海 Off coast of Central America	
	3	08													
298	3	06-29-09.1	6.84S	124.82E	562						4.9	1.7	44	班达海 Banda Sea	
	3	14													
299	3	06-44-39.0	46.65N	153.38E	32						4.2	5.1	1.3	62	千岛群岛 Kurile Islands
	3	14													
300	3	10-14-25.7	17.26S	89.90E	10	5.1	5.5	4.9	0.8				43	南印度洋 South Indian Ocean	
	3	18													
301	3	16-42-41.1	37.64S	73.18W	33	5.7	5.9	5.5	5.8	1.1			58	中智利海岸近海 Near coast of Central Chile	
	4	00													
302	3	19-21-11.5	41.67N	79.72E	22	3.8	3.5				3.3		8	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	03													
303	3	20-12-00.8	41.56N	79.79E	25	4.3	4.0				2.6		12	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	04													
304	3	22-52-04.7	5.32S	152.20E	34						4.8	1.0	20	新不列颠地区 New Britain region	
	4	06													
305	4	01-42-36.4	9.07N	125.92E	140								1.0	12	棉兰老岛 Mindanao
	4	09													
306	4	02-22-32.7	20.27N	156.58W	2	5.5					4.9	5.2	2.1	56	夏威夷群岛地区 Hawaiian Islands region
	4	10													
307	4	03-29-13.3	41.69N	79.52E	23	3.9	3.8				3.5		10	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	11													
308	4	04-41-13.7	15.05S	173.07W	40	5.6					5.2	5.2	1.7	20	汤加 Tonga
	4	12													



309	4	06-12-34.3	5.32S	152.15E	30				5.3	1.7	43	新不列颠地区 New Britain region	
	4	14											
310	4	07-08-04.0	34.34N	103.46E	16		3.0			1.3	6	四川省 Sichuan Province	
	4	15											
311	4	10-22-52.7	19.36N	120.86E	31	4.2	3.9		4.5	2.7	61	吕宋岛 Luzon	
	4	18											
312	4	12-15-17.3	24.41N	122.01E	21	4.6	4.4	4.8	5.0	1.9	92	台湾岛 Taiwan	
	4	20											
313	4	18-53-33.1	24.18N	102.69E	14		3.2			4.0	5	云南省 Yunnan Province	
	5	02											
314	4	20-14-18.5	22.44S	173.32E	34	4.9		4.9	4.9	3.0	27	洛亚尔提群岛地区 Loyalty Islands region	
	5	04											
315	4	20-47-28.2	39.60N	114.43E	9		2.7			0.7	5	中国东北部 North-Eastern China	
	5	04											
316	5	02-38-59.8	48.59N	85.88E	13		3.7			4.4	5	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region	
	5	10											
317	5	11-04-28.2	22.91N	121.15E	32	4.1	3.9			1.9	28	台湾岛 Taiwan	
	5	19											
318	5	14-43-29.5	4.73S	103.12E	66				5.2	1.0	37	苏门答腊南部 Southern Sumatara	
	5	22											
319	5	17-04-53.2	4.78S	153.63E	107				4.8	1.5	46	新爱尔兰地区 New Ireland region	
	6	01											
320	6	01-56-23.5	9.65S	112.73E	35				4.6	1.5	15	爪哇以南地区 South of Java	
	6	09											
321	6	06-22-21.4	11.67N	143.28E	30				5.0	1.1	32	马里亚纳群岛以南地区 South of the Marianas	
	6	14											
322	6	10-27-38.8	34.13N	141.14E	69				4.8	2.1	30	本州以南地区 South of Honshu	
	6	18											
323	6	10-48-10.2	41.96N	84.20E	17		3.0			4.6	5	新疆维吾尔自治区南部 Southern Xinjiang Province	
	6	18											
324	6	12-02-16.5	44.94N	81.78E	13		3.8			4.9	6	新疆维吾尔自治区北部 Northern Xinjiang Province	
	6	20											
325	6	12-23-45.8	37.01N	141.63E	28	6.4		6.4	6.1	5.9	1.5	113	本州东海岸近海 Near east coast of Honshu
	6	20											
326	6	13-16-15.9	37.04N	141.63E	42	6.8		6.7	6.3	6.1	1.6	110	本州东海岸近海 Near east coast of Honshu
	6	21											
327	6	14-51-34.7	29.28N	102.39E	10		2.8			4.5	7	四川省 Sichuan Province	
	6	22											
328	6	15-31-29.5	48.76N	89.44E	15		3.9			2.8	9	蒙古 Mongolia	
	6	23											
329	6	17-41-20.8	24.08N	121.83E	32	4.1	4.0	4.5	4.1	2.1	41	台湾岛 Taiwan	
	7	01											
330	6	19-12-28.3	40.21N	77.81E	21		4.1			3.0	11	新疆维吾尔自治区南部 Southern Xinjiang Province	
	7	03											
331	6	21-22-13.8	37.02N	69.48E	27	4.3	4.7		4.3	3.0	21	兴都库什地区 Hindu Kush region	
	7	05											
332	7	00-39-23.0	58.16S	24.65W	30				5.1	2.7	15	南桑德韦奇群岛地区 South Sandwich Islands region	
	7	08											
333	7	03-12-18.1	47.23N	154.59E	60				4.7	2.4	9	千岛群岛地区 Kurile Islands region	
	7	11											
334	7	04-39-37.2	23.59N	94.41E	92				4.6	2.3	22	缅甸——印度边境地区 Burma-India border region	
	7	12											



335	7	05-04-04.1	35.13N	82.25E	10	4.2		4.6	5	西藏自治区 Tibet	
	7	13									
336	7	06-48-02.4	20.54N	145.74E	30	4.2		4.7	2.1	39 马里亚纳群岛 Marianas	
	7	14									
337	7	07-30-04.4	35.63N	80.57E	9	4.4		4.0	12	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	7	15									
338	7	11-31-33.8	1.62N	126.63E	32			5.0	1.1	57 马鲁古海峡 Molucca Passage	
	7	19									
339	7	11-57-34.3	5.72S	147.67E	27	6.1	6.0	6.1	5.6	1.6	99 新几内亚东部地区 Eastern New Guinea region
	7	19									
340	7	12-29-03.0	52.76N	168.44W	43	5.0		4.8	1.0	17 福克斯群岛 Fox Islands	
	7	20									
341	7	12-35-49.9	39.55N	123.14E	6	2.8			2.0	8 中国东北部 North-Eastern China	
	7	20									
342	7	12-39-41.2	5.84S	147.81E	12	5.2		5.3	1.8	55 新几内亚东部地区 Eastern New Guinea region	
	7	20									
343	7	13-07-56.2	11.74N	143.39E	19	4.9		5.1	2.0	44 马里亚纳群岛以南地区 South of the Marianas	
	7	21									
344	7	14-11-55.2	5.76S	147.85E	37	4.7	4.3	4.5	1.1	35 新几内亚东部地区 Eastern New Guinea region	
	7	22									
345	7	15-24-21.4	4.96S	103.17E	60	4.8		5.4	1.4	93 苏门答腊南部 Southern Sumatra	
	7	23									
346	7	15-38-00.8	5.82S	147.85E	31			5.0	2.0	19 新几内亚东部地区 Eastern New Guinea region	
	7	23									
347	7	18-08-33.1	46.61N	149.86E	152		5.1	5.1	0.9	88 千岛群岛 Kurile Islands	
	8	02									
348	7	19-21-60.0	8.77S	118.57E	97			4.9	1.9	42 松巴哇地区 Sumbawa region	
	8	03									
349	7	20-29-08.6	10.02S	161.15E	84			5.0	1.8	35 所罗门群岛 Solomon Islands	
	8	04									
350	8	00-44-00.4	7.46S	128.39E	126			4.9	0.9	54 班达海 Banda Sea	
	8	08									
351	8	03-29-18.8	34.61N	81.08E	33	4.4	3.9	4.5	2.8	15 西藏自治区 Tibet	
	8	11									
352	8	17-48-48.2	1.55N	126.42E	17	5.7	5.9	5.9	5.8	1.1	96 马鲁古海峡 Molucca Passage
	9	01									
353	8	18-33-55.8	5.89S	147.75E	38	7.3	7.0	7.4	1.9	103 新几内亚东部地区 Eastern New Guinea region	
	9	02									
354	8	20-30-25.0	5.98S	147.55E	33			4.7	1.3	13 新几内亚东部地区 Eastern New Guinea region	
	9	04									
355	8	20-53-22.0	6.10S	151.16E	33			4.8	0.9	29 新不列颠地区 New Britain region	
	9	04									
356	8	22-51-18.6	6.10S	147.70E	38			4.7	2.1	28 新几内亚东部地区 Eastern New Guinea region	
	9	06									
357	9	01-32-56.0	6.06S	147.81E	16	4.9		4.4	5.1	1.0	63 新几内亚东部地区 Eastern New Guinea region
	9	09									
358	9	01-44-59.3	6.05S	147.61E	31			4.8	1.5	32 新几内亚东部地区 Eastern New Guinea region	
	9	09									
359	9	02-11-10.3	5.97S	147.71E	33	5.4	5.4	5.1	5.6	1.9	74 新几内亚东部地区 Eastern New Guinea region
	9	10									
360	9	02-15-26.2	6.12S	147.75E	31	5.1		5.4	5.6	4.3	45 新几内亚东部地区 Eastern New Guinea region
	9	10									



361	9	05-10-52.0	34.26N	103.27E	11	3.8				2.6	17	四川省
	9	13										Sichuan Province
362	9	06-47-59.1	6.06S	147.82E	32	5.3	5.5	5.1	5.6	1.8	82	新几内亚东部地区
	9	14										Eastern New Guinea region
363	9	12-28-25.4	35.33N	26.04E	31				4.4	2.4	31	克里特岛
	9	20										Crete
364	9	13-40-08.1	34.29N	103.30E	11	3.1				1.7	6	四川省
	9	21										Sichuan Province
365	9	14-25-30.8	6.11S	147.86E	49	5.1	5.0	5.5	2.2		64	新几内亚东部地区
	9	22										Eastern New Guinea region
366	9	17-07-04.0	5.54S	148.10E	42				4.8	1.1	45	新几内亚东部地区
	10	01										Eastern New Guinea region
367	9	18-17-28.5	5.98S	147.96E	31	5.7	5.7	5.7	5.7	1.7	91	新几内亚东部地区
	10	02										Eastern New Guinea region
368	9	19-30-17.1	35.27N	110.99E	12	2.9				3.7	9	中国东部
	10	03										Eastern China
369	9	20-30-20.9	6.47S	147.96E	46	5.1	4.6	4.8	1.9		52	新几内亚东部地区
	10	04										Eastern New Guinea region
370	9	22-42-58.5	12.90N	144.26E	107		5.2	5.1	1.3		78	马里亚纳群岛以南地区
	10	06										South of the Marianas
371	10	00-59-29.8	19.37S	177.38W	406		6.4	6.2	0.8		90	斐济地区
	10	08										Fiji region
372	10	02-09-17.4	27.96S	176.54W	49	5.4		5.0	1.2		38	克马德克群岛地区
	10	10										Kermadec Islands region
373	10	02-48-57.5	3.12N	79.29W	28		5.0	5.1	1.7		28	巴拿马以南地区
	10	10										South of Panama
374	10	05-55-18.9	42.83N	147.72E	10	4.3	5.3	4.5	5.2	2.1	79	北海道海岸远海
	10	13										Off coast of Hokkaido
375	10	08-25-11.7	9.27N	126.36E	33			5.2	1.6		50	棉兰老岛
	10	16										Mindanao
376	10	12-21-58.8	5.99S	147.95E	38	4.9	5.1	5.4	3.3		62	新几内亚东部地区
	10	20										Eastern New Guinea region
377	10	12-28-14.4	54.31S	119.80W	10		5.4	4.8	2.0		16	复活节岛海山
	10	20										Easter Island Cordillera
378	10	16-23-49.1	35.73N	142.93E	22	4.7	5.4	5.2	5.1	1.5	81	本州东海岸远海
	11	00										Off east coast of Honshu
379	10	17-22-43.5	27.40N	126.59E	22	5.2	5.1	5.2	5.1	2.1	87	琉球群岛
	11	01										Ryukyu Islands
380	10	17-51-45.3	36.04N	139.88E	83			4.6	2.7		33	本州南海岸近海
	11	01										Near south coast of Honshu
381	10	21-20-14.8	44.36N	10.25E	24			4.0	0.9		15	科西嘉岛
	11	05										Corsica
382	10	23-03-00.9	21.89S	175.40E	12			4.9	1.4		31	洛亚尔提群岛地区
	11	07										Loyalty Islands region
383	11	00-06-33.4	4.34S	126.62E	35			4.2	1.2		18	班达海
	11	08										Banda Sea
384	11	00-58-20.5	62.70N	157.02E	8	5.1	5.0	4.9	4.6	1.1	34	西伯利亚东部
	11	08										Eastern Siberia
385	11	01-14-40.9	6.85S	147.18E	25	5.2	5.7	4.9	5.3	1.6	69	新几内亚东部地区
	11	09										Eastern New Guinea region
386	11	03-07-51.8	5.52S	148.36E	39			4.8	2.0		32	新几内亚东部地区
	11	11										Eastern New Guinea region



387	11	06-12-53.7	18.91N	120.95E	26	5.9	5.0	6.2	5.8	5.6	1.7	103	吕宋岛 Luzon
	11	14											
388	11	07-56-17.6	15.99S	167.54E	73	6.3		6.5	6.4	5.9	1.1	87	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	11	15											
389	11	10-50-25.5	17.83N	119.48E	36	4.2	4.1			5.0	2.5	45	菲律宾群岛地区 Philippine Islands region
	11	18											
390	11	10-52-27.2	26.13N	100.65E	3						4.8	5	云南省 Yunnan Province
	11	18											
391	11	13-38-44.8	5.71N	123.68E	562						4.7	1.4	26 棉兰老岛 Mindanao
	11	21											
392	11	17-42-50.8	43.13N	132.38E	512			5.8		5.5	1.0	100	俄罗斯东部——中国东北边境地区 E. Russia-N.E. China border region
	12	01											
393	11	20-11-08.1	34.35N	103.19E	10		3.3				2.2	8	四川省 Sichuan Province
	12	04											
394	11	21-37-29.5	44.04N	84.66E	13		3.3				1.1	8	新疆自治区北部 Northern Xinjiang Province
	12	05											
395	12	06-52-31.0	54.65N	162.90W	23			4.3	5.0	1.0		52	乌尼马克岛地区 Unimak Island region
	12	14											
396	12	12-26-24.2	5.68N	94.23E	55					4.8	1.3	37	北苏门答腊西海岸远海 Off west coast of Northern Sumatera
	12	20											
397	12	13-23-42.3	36.34N	141.01E	52	4.5		5.1		4.9	2.1	62	本州东海岸近海 Near east coast of Honshu
	12	21											
398	12	15-41-22.6	45.88N	142.76E	332					4.6	0.9	64	北海道地区 Hokkaido region
	12	23											
399	12	16-35-13.8	39.90N	77.23E	9		3.4				3.3	7	新疆自治区南部 Southern Xinjiang Province
	13	00											
400	13	03-36-15.4	15.70S	167.55E	153					4.9	1.8	40	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	13	11											
401	13	04-21-00.4	30.96N	131.67E	72					4.2	2.4	21	九州岛 Kyushu
	13	12											
402	13	05-48-55.7	4.69S	153.58E	53					4.7	2.0	41	新爱尔兰地区 New Ireland region
	13	13											
403	13	07-18-30.4	0.69N	126.17E	55	6.5		6.6	6.5	6.2	1.1	102	马鲁古海峡 Molucca Passage
	13	15											
404	13	10-01-36.4	36.55N	140.90E	49	4.6		5.1		5.1	1.6	93	本州东海岸近海 Near east coast of Honshu
	13	18											
405	13	11-08-02.7	0.71N	126.11E	33					4.7	2.4	19	马鲁古海峡 Molucca Passage
	13	19											
406	13	13-58-06.1	40.27N	19.90E	8	5.3		4.4	5.1	2.0		49	希腊——阿尔巴尼亚边境地区 Greece-Albania border region
	13	21											
407	13	19-20-17.6	23.17N	93.94E	58	4.2	3.9			4.8	3.0	46	缅甸——印度边境地区 Burma-India border region
	14	03											
408	13	19-54-16.4	11.39S	117.42E	34					5.3	1.2	45	松巴哇以南地区 South of Sumbawa
	14	03											
409	13	21-33-50.6	34.78N	80.10E	20		4.0				2.6	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	14	05											
410	14	05-06-34.6	5.57S	147.71E	33					5.0	1.2	45	新几内亚东部地区 Eastern New Guinea region
	14	13											
411	14	06-34-38.7	15.49S	167.65E	125			5.8		5.5	0.7	72	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	14	14											
412	14	09-00-49.7	0.65N	126.27E	56	4.4				5.2	1.2	51	马鲁古海峡 Molucca Passage
	14	17											



413	14	12-08-35.7	0.75N	126.13E	65							5.0	1.1	30	马鲁古海峡		
		14 20													Molucca Passage		
414	14	13-38-22.0	17.96S	178.55W	565							5.5	5.7	0.7	75 斐济地区		
		14 21													Fiji region		
415	14	15-44-15.8	45.54S	76.79W	12							5.7	5.8	5.3	2.4	18 智利南部海岸远海	
		14 23													Off coast of Southern Chile		
416	14	16-42-17.2	54.81N	161.54E	32							5.3	5.5	5.0	5.7	1.4	80 堪察加东海岸近海
		15 00													Near east coast of Kamchatka		
417	14	19-20-34.6	16.02S	176.13W	382									4.6	1.7	35 斐济地区	
		15 03													Fiji region		
418	14	23-03-13.8	41.51N	79.52E	26							4.4	4.3	4.0	4.7	2.7	36 吉尔吉斯——新疆边境地区
		15 07													Kirgiziya-Xinjiang border region		
419	15	02-55-22.9	36.87N	142.22E	61							4.4		4.3	2.1	42 本州东海岸近海	
		15 10													Near east coast of Honshu		
420	15	03-14-58.4	5.20N	94.42E	32									4.2	1.5	26 北苏门答腊西海岸远海	
		15 11													Off west coast of Northern Sumatera		
421	15	06-58-59.6	15.11S	175.57W	32									4.9	5.0	2.3	13 斐济地区
		15 14													Fiji region		
422	15	09-02-37.8	29.04N	104.75E	18									3.3		2.3	11 四川省
		15 17													Sichuan Province		
423	15	09-39-54.4	36.81N	141.96E	55							4.0		4.5	4.7	2.5	39 本州东海岸近海
		15 17													Near east coast of Honshu		
424	15	13-34-38.4	48.12N	122.08E	9									2.4		3.2	5 中国东北部
		15 21													North-Eastern China		
425	15	19-26-30.3	24.35N	94.68E	110									5.1	4.6	2.1	55 缅甸——印度边境地区
		16 03													Burma-India border region		
426	15	19-41-01.1	37.01N	141.28E	44							4.5	5.2	4.5	4.9	2.0	67 本州东海岸近海
		16 03													Near east coast of Honshu		
427	15	22-38-45.6	15.33S	177.12W	36							5.6	5.6	5.5	5.2	1.9	58 斐济地区
		16 06													Fiji region		
428	16	02-22-46.0	22.85N	120.71E	29							4.4	4.4	4.9	4.8	2.6	50 台湾岛
		16 10													Taiwan		
429	16	04-24-28.6	2.88S	147.44E	9									4.3	1.8	30 俾斯麦海	
		16 12													Bismarck Sea		
430	16	09-38-12.5	0.75N	126.14E	26							4.9	5.4	4.8	5.3	1.3	82 马鲁古海峡
		16 17													Molucca Passage		
431	16	10-26-07.8	5.61S	147.69E	56									5.0	1.5	51 新几内亚东部地区	
		16 18													Eastern New Guinea region		
432	16	15-23-50.2	36.02N	81.27E	20									4.2		3.0	6 克什米尔——西藏边境地区
		16 23													Kashmir-Tibet border region		
433	16	16-39-48.8	0.77N	126.23E	32							4.4		5.0	1.2	63 马鲁古海峡	
		17 00													Molucca Passage		
434	16	17-20-41.2	0.78N	126.27E	32									4.8	0.9	42 马鲁古海峡	
		17 01													Molucca Passage		
435	16	17-28-09.1	0.85N	126.18E	15							5.9	5.9	5.9	5.7	1.1	100 马鲁古海峡
		17 01													Molucca Passage		
436	16	17-45-59.4	0.89N	126.16E	33									5.0	1.7	30 马鲁古海峡	
		17 01													Molucca Passage		
437	16	20-08-07.5	0.88N	126.36E	33									4.4	0.9	13 马鲁古海峡	
		17 04													Molucca Passage		
438	16	22-20-48.8	0.90N	126.23E	32							4.6	5.4	5.0	1.6	57 马鲁古海峡	
		17 06													Molucca Passage		



439	16	22-58-03.2	0.80N	126.44E	115						4.3	1.8	32	马鲁古海峡 Molucca Passage	
	17	06													
440	17	00-51-08.7	33.56N	120.17E	11		2.8					3.0	7	中国东部 Eastern China	
	17	08													
441	17	01-26-01.7	33.49N	119.92E	10		2.7					1.2	7	中国东部 Eastern China	
	17	09													
442	17	03-03-22.8	33.57N	120.76E	11	5.0	5.5	4.5	5.1	1.6			96	中国东部 Eastern China	
	17	11													
443	17	04-19-58.1	19.55S	168.84E	35	5.6		5.9	5.6	5.6	0.9		82	洛亚尔提群岛 Loyalty Islands	
	17	12													
444	17	05-17-43.8	19.55S	168.95E	37							5.3	1.8	41 洛亚尔提群岛 Loyalty Islands	
	17	13													
445	17	05-56-43.7	37.85N	101.87E	7		3.4					2.8	10	青海省 Qinghai Province	
	17	13													
446	17	06-16-15.6	32.79S	179.05W	45	6.5		6.3	6.6	5.9	1.8		81	克马德克群岛以南地区 South of Kermadec Islands	
	17	14													
447	17	12-42-30.8	0.79N	126.37E	32							4.7	1.9	24 马鲁古海峡 Molucca Passage	
	17	20													
448	17	12-56-55.7	58.84S	25.73W	27							5.1	5.3	3.2	22 南桑德韦奇群岛地区 South Sandwich Islands region
	17	20													
449	17	13-56-34.8	39.93N	75.19E	32		3.7						2.3	6	新疆自治区南部 Southern Xinjiang Province
	17	21													
450	17	17-12-03.9	40.63N	107.87E	10		3.2						3.3	9	中国北部 Northern China
	18	01													
451	18	00-00-50.2	51.42N	179.31W	22	6.0		6.3	5.9	6.2	1.4		102	安德烈亚诺夫群岛 Andreanof Islands	
	18	08													
452	18	02-17-18.6	38.15N	100.78E	7		3.1						5.0	6	青海省 Qinghai Province
	18	10													
453	18	05-28-22.2	51.37N	179.30W	32	5.0		5.4	4.7	5.5	0.7		83	安德烈亚诺夫群岛 Andreanof Islands	
	18	13													
454	18	09-40-03.7	37.75N	101.55E	9		2.7						2.9	5	青海省 Qinghai Province
	18	17													
455	18	10-32-13.2	55.67S	27.07W	32	5.3		5.0	5.5	2.2			39	南桑德韦奇群岛地区 South Sandwich Islands region	
	18	18													
456	18	14-22-54.1	1.00N	126.48E	34							4.8	1.3	34 马鲁古海峡 Molucca Passage	
	18	22													
457	18	18-49-25.6	38.45N	116.56E	13		2.9						1.3	6	中国东北部 North-Eastern China
	19	02													
458	18	20-46-57.5	26.25N	57.30E	33	4.8						4.6	1.7	30 阿拉伯半岛东部 Eastern Arabian Peninsula	
	19	04													
459	18	22-26-59.7	16.19N	120.81E	8	4.2						4.5	3.2	33 吕宋岛 Luzon	
	19	06													
460	19	09-32-44.9	27.95S	176.00W	12			5.8	5.0	4.9	1.9		30	克马德克群岛地区 Kermadec Islands region	
	19	17													
461	19	19-38-01.4	16.52N	148.58E	44							5.1	2.3	24 马里亚纳群岛地区 Marianas region	
	20	03													
462	20	00-16-16.7	9.79N	126.31E	49	4.1						4.9	2.1	29 棉兰老岛 Mindanao	
	20	08													
463	20	13-10-35.6	24.22N	122.08E	31	3.6	4.2					3.9	2.3	37 台湾岛 Taiwan	
	20	21													
464	20	14-27-34.4	7.03S	129.70E	48							5.0	1.3	54 班达海 Banda Sea	
	20	22													



465	20	18-30-54.4	2.32S	138.57E	25					4.8	1.9	24	西伊里安 West Irian	
	21	02												
466	21	01-05-19.6	0.56N	126.13E	40	4.6	5.3	4.3	5.2	1.9		67	马鲁古海峡 Molucca Passage	
	21	09												
467	21	01-50-08.3	30.49N	101.61E	9		3.8				2.6	21	四川省 Sichuan Province	
	21	09												
468	21	12-55-14.4	6.38S	104.31E	35	4.6				4.8	2.9	20	苏门答腊西南以远地区 South-west of Sumatera	
	21	20												
469	21	14-22-31.7	14.61N	123.41E	75					4.5	3.3	27	吕宋岛 Luzon	
	21	22												
470	21	15-26-27.2	6.11S	147.80E	44	5.2	5.6	5.2	5.4	3.0		69	新几内亚东部地区 Eastern New Guinea region	
	21	23												
471	21	16-04-26.4	42.66N	79.89E	17		3.7				3.0	9	阿拉木图地区 Alma-Ata region	
	22	00												
472	21	18-53-13.9	2.56S	138.75E	39					4.3	4.5	2.0	34	西伊里安 West Irian
	22	02												
473	21	20-39-01.3	35.78N	139.80E	111					4.7	2.4	21	本州南海岸近海 Near south coast of Honshu	
	22	04												
474	21	22-19-53.6	54.99N	111.24E	32	4.6				4.7	4.7	2.8	49	贝加尔湖地区 Lake Baykal region
	22	06												
475	22	01-22-28.6	78.89N	125.66E	10	5.3	5.3	5.1	5.2	2.2		81	北地群岛以东地区 East of Severnaya Zemlya	
	22	09												
476	22	06-51-40.3	38.39N	40.45E	10					4.9	1.6	24	土耳其 Turkey	
	22	14												
477	22	13-15-25.4	36.05N	101.28E	15		3.1				3.2	9	青海省 Qinghai Province	
	22	21												
478	22	20-38-02.7	25.41N	100.03E	7		3.6				1.0	7	云南省 Yunnan Province	
	23	04												
479	23	00-21-21.5	38.99N	70.68E	33	4.9	5.0	5.0	4.7	5.0	2.2	66	阿富汗——苏联边境地区 Afghanistan-USSR border region	
	23	08												
480	23	02-43-38.1	57.77S	25.05W	29	6.2	6.5	5.7	5.9	2.9		88	南桑德韦奇群岛地区 South Sandwich Islands region	
	23	10												
481	23	07-07-28.8	33.78N	116.47E	5		2.9				2.6	7	中国东部 Eastern China	
	23	15												
482	23	07-19-57.3	13.43N	123.90E	23	4.0	4.8		4.8	2.5		45	吕宋岛 Luzon	
	23	15												
483	23	07-45-23.9	24.44N	123.49E	29	3.9	3.2		4.4	2.6		23	台湾地区 Taiwan region	
	23	15												
484	23	11-23-46.3	34.56N	57.41E	24				4.6	3.5		9	伊朗 Iran	
	23	19												
485	23	11-27-52.8	15.66S	177.16W	12				5.1	5.0	2.0	30	斐济地区 Fiji region	
	23	19												
486	23	13-14-19.5	7.30S	119.99E	625				5.2	1.6		70	佛罗勒斯海 Flores Sea	
	23	21												
487	23	15-03-53.9	25.00N	123.81E	15	4.7	4.2		4.7	2.3		49	琉球群岛西南部 South-western Ryukyu Islands	
	23	23												
488	23	15-49-56.5	15.84S	167.94E	254			6.3	5.9	1.0		106	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)	
	23	23												
489	23	18-19-01.9	25.06N	123.84E	15	5.4	5.8		4.7	2.0		86	琉球群岛西南部 South-western Ryukyu Islands	
	24	02												
490	23	20-41-27.9	15.93N	147.15E	36				4.5	1.4		22	马里亚纳群岛 Marianas	
	24	04												



491	23	22-31-04.4	41.43N	79.24E	24	4.4	4.5		4.6	2.2	40	新疆维吾尔自治区南部 Southern Xinjiang Province	
	24	06											
492	23	23-49-34.3	0.81N	126.27E	37				5.1	1.6	62	马鲁古海峡 Molucca Passage	
	24	07											
493	24	00-51-26.4	56.62S	147.25E	15	5.8	6.2	5.8	5.8	1.7	60	麦阔里岛以西地区 West of Macquarie Island	
	24	08											
494	24	01-18-51.0	51.55N	176.77W	31	5.1	5.5	5.1	5.1	1.3	57	安德烈亚诺夫群岛 Andreanof Islands	
	24	09											
495	24	05-36-00.6	0.12S	98.84E	53				4.3	1.3	26	苏门答腊南部 Southern Sumatera	
	24	13											
496	24	06-15-21.7	51.74N	174.91W	32	5.7		4.7	5.0	1.2	61	安德烈亚诺夫群岛 Andreanof Islands	
	24	14											
497	24	07-40-07.4	52.51N	157.89E	120				5.0	0.9	60	堪察加半岛 Kamchatka	
	24	15											
498	24	09-09-54.6	39.73N	118.20E	14		3.1			2.7	13	中国东北部 North-Eastern China	
	24	17											
499	24	09-58-35.7	40.67N	122.79E	12		2.8			1.9	8	中国东北部 North-Eastern China	
	24	17											
500	24	14-52-48.2	4.25N	95.19E	50	4.8		4.4	5.1	1.5	77	北苏门答腊西海岸远海 Off west coast of Northern Sumatera	
	24	22											
501	25	01-07-51.5	2.37S	141.97E	20	5.1	5.7	5.1	5.4	1.1	91	新几内亚北海岸近海 Near north coast of New Guinea	
	25	09											
502	25	04-00-29.8	5.50S	103.76E	42				4.9	1.1	25	苏门答腊西南以远地区 South-west of Sumatera	
	25	12											
503	25	11-27-12.8	6.14S	147.68E	67	5.7	5.9	5.6	1.2		98	新几内亚东部地区 Eastern New Guinea region	
	25	19											
504	25	14-28-02.7	21.73N	111.73E	15	4.7	5.1	4.1	1.9		45	中国东部 Eastern China	
	25	22											
505	25	14-37-05.7	7.75S	116.97E	305				5.4	1.1	82	松巴哇地区 Sumbawa region	
	25	22											
506	25	15-20-18.2	18.85N	121.03E	14	5.3	5.2	5.8	5.3	5.3	1.8	102	吕宋岛 Luzon
	25	23											
507	25	19-56-34.3	38.06N	91.25E	24	6.1	6.1	5.7	5.7	1.7	98	新疆维吾尔自治区南部 Southern Xinjiang Province	
	26	03											
508	25	20-27-23.1	38.14N	91.26E	23	4.3	4.6	5.1	5.0	2.1	52	新疆维吾尔自治区南部 Southern Xinjiang Province	
	26	04											
509	26	00-24-02.6	30.09N	141.94E	32	5.1		4.8	5.2	1.2	82	本州以南地区 South of Honshu	
	26	08											
510	26	04-05-26.7	6.73S	126.08E	483				5.0	1.0	64	班达海 Banda Sea	
	26	12											
511	26	04-30-36.1	19.76S	168.72E	46				5.2	2.6	34	洛亚尔提群岛 Loyalty Islands	
	26	12											
512	26	04-36-06.8	19.79S	168.67E	29	5.4	5.6	5.2	5.4	2.7	39	洛亚尔提群岛 Loyalty Islands	
	26	12											
513	26	04-58-22.8	49.88N	78.07E	10	4.7	5.0	5.0	5.3	5.4	1.2	70	哈萨克东部 Eastern Kazakhstan
	26	12											
514	26	08-58-41.1	37.97N	91.22E	20	3.7	4.3		4.3	3.2	22	新疆维吾尔自治区南部 Southern Xinjiang Province	
	26	16											
515	26	10-48-53.3	53.43N	163.63W	35	5.0	5.4		4.8	1.4	46	阿拉斯加以南地区 South of Alaska	
	26	18											
516	26	12-16-47.3	6.14S	104.61E	35	4.6		4.6	5.2	2.0	47	巽他海峡 Sunda Strait	
	26	20											



517	26	13-13-23.4	14.45N	119.29E	57		4.5	2.1	19	菲律宾群岛地区		
	26	21								Philippine Islands region		
518	26	13-20-32.7	14.43N	119.07E	44	4.4	4.7	2.4	36	菲律宾群岛地区		
	26	21								Philippine Islands region		
519	26	13-24-06.9	14.59N	119.22E	32	4.7	5.1	2.4	58	菲律宾群岛地区		
	26	21								Philippine Islands region		
520	27	06-50-53.2	17.52S	176.91W	6		5.2	1.9	35	斐济地区		
	27	14								Fiji region		
521	27	08-31-53.0	53.45N	167.30W	10	7.1	6.6	6.7	6.2	1.2	102	福克斯群岛
	27	16										Fox Islands
522	27	10-46-03.6	5.47S	148.20E	43		4.7	2.3	25	新几内亚东部地区		
	27	18										Eastern New Guinea region
523	27	12-34-51.1	2.70S	126.29E	33		4.5	2.5	31	斯兰海		
	27	20										Ceram Sea
524	27	21-51-11.6	6.11S	112.84E	582		5.1	5.4	1.1	89	爪哇岛	
	28	05										Java
525	27	23-34-51.0	38.57N	20.52E	7	5.8	5.7	5.5	5.5	1.1	85	希腊
	28	07										Greece
526	28	04-00-08.2	0.44N	126.44E	32		4.8	1.9	39	马鲁古海		
	28	12										Molucca Sea
527	28	04-15-06.3	9.71S	118.36E	58		4.9	1.1	58	松巴哇以南地区		
	28	12										South of Sumbawa
528	28	05-00-01.0	29.94N	101.82E	14	3.1			2.2	11	四川省	
	28	13										Sichuan Province
529	28	06-51-58.8	37.03N	141.62E	20	5.2	5.4	5.3	5.3	1.7	94	本州东海岸近海
	28	14										Near east coast of Honshu
530	28	07-32-43.3	37.82N	141.12E	102				4.8	2.2	63	本州岛
	28	15										Honshu
531	28	16-45-50.0	38.09N	69.68E	22		4.2	4.2	2.0	24	阿富汗——苏联边境地区	
	1	00										Afghanistan-USSR border region
532	28	17-23-03.1	39.83N	106.35E	4	3.8	4.3		2.8	29	中国北部	
	1	01										Northern China
March 1987												
533	1	00-38-21.5	36.48N	70.81E	178		4.6	1.8	16	兴都库什地区		
	1	08										Hindu Kush region
534	1	03-19-30.5	33.73N	22.93E	30		4.6	0.8	66	地中海		
	1	11										Mediterranean Sea
535	1	03-52-24.7	3.79S	137.01E	34		4.8	4.9	1.5	33	西伊里安地区	
	1	11										West Irian region
536	1	04-55-03.8	32.60S	57.27E	9		4.9	1.8	19	大西洋——印度洋海岭		
	1	12										Atlantic-Indian Ridge
537	1	07-48-46.8	37.22N	141.44E	70	4.2	4.8	1.6	65	本州东海岸近海		
	1	15										Near east coast of Honshu
538	1	09-26-57.3	43.83N	86.26E	5	2.8			4.8	7	新疆自治区北部	
	1	17										Northern Xinjiang Province
539	1	11-48-57.0	37.30N	114.99E	21	2.7			4.3	6	中国东部	
	1	19										Eastern China
540	1	13-31-07.4	28.73N	95.91E	16	3.9	5.1	2.4	45	印度——中国边境地区		
	1	21										India-China border region
541	1	16-45-48.0	23.73N	105.92E	9	3.5	3.8		2.8	15	云南省	
	2	00										Yunnan Province



542	1	17-59-09.1	49.85N	102.65E	25	5.3	5.2	4.8	2.2	78	蒙古		
	2	01									Mongolia		
543	1	21-37-00.3	21.65S	178.00W	412			5.1	0.7	50	斐济以南地区		
	2	05									South of Fiji		
544	2	01-42-32.6	37.96S	177.03E	19	6.6	6.3	6.6	5.9	1.9	69	新西兰北岛	
	2	09										North Island, New Zealand	
545	2	02-58-02.4	25.43N	99.99E	16		3.7			2.3	7	云南省	
	2	10										Yunnan Province	
546	2	05-57-49.8	45.80S	96.43E	71	6.1	6.2	6.2	5.6	1.4	76	东南印度洋海岭	
	2	13										South-East Indian Ridge	
547	2	06-27-27.5	37.80N	101.59E	14		3.6			2.4	9	青海省	
	2	14										Qinghai Province	
548	2	09-47-56.3	45.79S	95.83E	15					4.6	0.6	18	东南印度洋海岭
	2	17											South-East Indian Ridge
549	2	21-51-07.7	25.39N	63.08E	33	4.7				4.4	0.8	26	巴基斯坦海岸近海
	3	05											Near coast of Pakistan
550	3	00-03-56.8	40.07N	76.12E	14		3.8			5.0		7	新疆维吾尔自治区南部
	3	08											Southern Xinjiang Province
551	3	00-06-02.5	52.83N	174.79W	163					5.0	1.0	37	安德烈亚诺夫群岛
	3	08											Andreasnof Islands
552	3	01-27-25.9	34.37N	103.61E	16	4.4	4.6			4.3	3.0	38	甘肃省
	3	09											Gansu Province
553	3	01-32-10.9	46.54N	151.96E	92			5.9	5.8	1.1		92	千岛群岛
	3	09											Kurile Islands
554	3	09-41-31.1	41.35N	79.29E	15	5.0	5.0	5.0	5.0	5.1	1.9	62	新疆维吾尔自治区南部
	3	17											Southern Xinjiang Province
555	3	14-20-31.4	57.93S	24.96W	23	5.4		5.0	5.4	3.8		46	南桑德韦奇群岛地区
	3	22											South Sandwich Islands region
556	3	14-23-05.9	40.76N	63.97E	17	4.4				4.5	1.4	10	乌兹别克
	3	22											Uzbekistan
557	3	18-23-48.4	30.37N	106.76E	16		2.7				2.4	6	四川省
	4	02											Sichuan Province
558	3	22-34-00.7	45.82N	150.73E	107			5.7	4.9	1.4		72	千岛群岛
	4	06											Kurile Islands
559	3	22-38-16.9	23.87N	121.65E	16	4.3	4.3				3.1	20	台湾岛
	4	06											Taiwan
560	4	00-08-52.8	34.34N	103.41E	19		3.3				2.0	7	四川省
	4	08											Sichuan Province
561	4	00-12-27.1	21.72N	143.16E	315					4.5	0.6	41	马里亚纳群岛地区
	4	08											Marianas region
562	4	02-55-47.2	24.14N	121.98E	30	3.4	3.9			3.9	1.3	34	台湾岛
	4	10											Taiwan
563	4	03-45-15.9	36.08N	105.92E	15		2.9				2.6	6	甘肃省
	4	11											Gansu Province
564	4	06-25-21.7	6.52S	148.10E	19	5.5		5.2	5.2	1.3		55	新几内亚东部地区
	4	14											Eastern New Guinea region
565	4	10-04-57.5	19.97S	69.06W	96					5.2	1.7	52	智利北部
	4	18											Northern Chile
566	4	22-10-36.2	38.57N	77.41E	15		3.8				3.8	8	新疆维吾尔自治区南部
	5	06											Southern Xinjiang Province
567	5	00-46-42.6	0.41S	129.65E	32	4.5		4.3	4.9	2.0		48	查伊洛洛贾洛洛(哈马黑拉)岛
	5	08											Djailolo Gilolo (Halmahera)



568	5	01-45-60.0	37.01N	141.46E	61	4.2		4.8	2.0	80	本州东海岸近海 Near east coast of Honshu	
	5	09										
569	5	02-33-40.3	35.56N	87.38E	31	4.8		4.5	2.5	40	西藏自治区 Tibet	
	5	10										
570	5	02-56-15.4	48.28N	155.11E	18	4.8	5.0	4.8	2.0	72	千岛群岛 Kurile Islands	
	5	10										
571	5	09-17-04.0	24.15S	69.97W	44	7.4	7.0	6.5	1.4	90	智利北部海岸近海 Near coast of Northern Chile	
	5	17										
572	5	09-51-53.7	24.26S	70.19W	39			5.6	1.9	49	智利北部海岸近海 Near coast of Northern Chile	
	5	17										
573	5	09-56-07.4	24.22S	70.22W	34			5.6	2.0	42	智利北部海岸近海 Near coast of Northern Chile	
	5	17										
574	5	10-55-12.5	24.30S	70.49W	24	6.5	6.5	5.7	2.0	83	智利北部海岸近海 Near coast of Northern Chile	
	5	18										
575	5	19-13-21.0	40.85N	123.27E	6		2.9		1.8	7	中国东北部 North-Eastern China	
	6	03										
576	5	19-47-08.4	5.86S	146.75E	57	4.8		5.2	5.4	1.2	82	新几内亚东部地区 Eastern New Guinea region
	6	03										
577	5	20-39-19.3	52.54N	132.62E	16	4.9	5.2	5.0	1.5	79	俄罗斯东部 Eastern Russia	
	6	04										
578	5	22-10-45.2	38.80N	125.92E	29	3.9	4.3		2.6	20	北朝鲜 North Korea	
	6	06										
579	5	23-32-54.7	39.52N	118.25E	16		2.7		1.0	6	中国东北部 North-Eastern China	
	6	07										
580	6	01-54-49.7	0.08N	77.59W	13	6.4	6.6	6.1	6.1	3.0	87	厄瓜多尔 Ecuador
	6	09										
581	6	03-56-55.3	40.26N	77.64E	17		3.7		3.5	7	新疆维吾尔自治区南部 Southern Xinjiang Province	
	6	11										
582	6	04-10-40.0	0.17N	77.70W	10	7.2	6.8	6.9	6.5	3.5	91	厄瓜多尔 Ecuador
	6	12										
583	6	06-33-02.8	0.06N	77.48W	8			5.2	1.9	23	厄瓜多尔 Ecuador	
	6	14										
584	6	07-06-44.3	24.06S	70.23W	39	5.7	6.0	5.5	5.9	1.0	85	智利北部海岸近海 Near coast of Northern Chile
	6	15										
585	6	08-14-53.4	0.64N	77.69W	28	5.7		5.4	5.5	2.3	50	哥伦比亚——厄瓜多尔边境地区 Colombia-Ecuador border region
	6	16										
586	6	09-39-55.3	23.92S	70.10W	43	6.1	6.1	5.7	5.7	1.7	92	智利北部海岸近海 Near coast of Northern Chile
	6	17										
587	6	10-15-55.8	31.74S	178.94W	298			4.9	1.6	25	克马德克群岛以南地区 South of Kermadec Islands	
	6	18										
588	6	10-23-26.8	14.88N	92.17W	83	5.7		5.1	1.5	40	墨西哥恰帕斯海岸近海 Near coast of Chiapas, Mexico	
	6	18										
589	6	13-48-40.4	51.16N	179.58E	54	5.4	5.8	5.4	0.9	89	拉特群岛 Rat Islands	
	6	21										
590	6	15-27-40.0	16.65N	59.77E	11			4.8	1.0	36	阿拉伯海 Arabian Sea	
	6	23										
591	6	16-30-24.9	51.83N	178.88E	44			4.8	1.0	26	拉特群岛 Rat Islands	
	7	00										
592	6	16-54-49.6	51.05N	179.60E	33			5.1	1.0	65	拉特群岛 Rat Islands	
	7	00										
593	7	01-36-28.7	5.31N	126.30E	117			4.7	2.0	26	塔劳群岛 Talaud Islands	
	7	09										



594	7	03-16-30.7	35.31N	141.68E	60	4.4		4.5	2.3	42	本州东海岸远海 Off east coast of Honshu
	7	11									
595	7	06-11-16.0	16.00S	167.57E	37	5.5	5.8	5.5	5.6	1.0	75 瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	7	14									
596	7	14-50-53.4	6.07S	147.92E	42	4.9		5.4	1.4	48	新几内亚东部地区 Eastern New Guinea region
	7	22									
597	7	15-25-43.2	24.76N	123.49E	36	3.8	3.2	4.1	2.3	22	台湾地区 Taiwan region
	7	23									
598	7	17-05-18.4	6.93S	129.50E	147			5.3	0.8	68	班达海 Banda Sea
	8	01									
599	7	17-20-55.3	7.30N	121.81E	34	4.5	4.9	5.2	1.0	70	棉兰老岛 Mindanao
	8	01									
600	7	17-34-55.6	30.74N	137.84E	454			4.2	0.8	35	本州以南地区 South of Honshu
	8	01									
601	7	19-43-05.4	16.12S	172.56W	31	5.3	5.9	5.5	5.3	1.1	71 汤加 Tonga
	8	03									
602	7	19-49-03.9	35.90N	95.53E	5		3.0			3.0	5 青海省 Qinghai Province
	8	03									
603	7	21-48-50.7	14.98S	172.57W	33			5.4	1.0	20	汤加 Tonga
	8	05									
604	7	22-58-15.7	0.12N	77.21W	10			4.7	2.2	13	厄瓜多尔 Ecuador
	8	06									
605	7	23-18-56.2	0.75N	126.05E	32			4.2	1.0	23	马鲁古海峡 Molucca Passage
	8	07									
606	8	05-10-02.1	25.55N	124.64E	179			4.3	1.2	39	台湾东北以远地区 North-east of Taiwan
	8	13									
607	8	11-26-26.7	43.86N	87.24E	13		3.0			1.8	6 新疆自治区北部 Northern Xinjiang Province
	8	19									
608	8	12-51-43.8	20.14S	70.34W	21			5.2	2.1	51	智利北部海岸近海 Near coast of Northern Chile
	8	20									
609	8	13-12-33.4	10.04N	56.81E	10			4.9	3.3	21	卡尔斯伯格海岭 Carlsberg Ridge
	8	21									
610	8	14-35-58.5	37.86N	102.05E	8		3.3			2.0	12 青海省 Qinghai Province
	8	22									
611	9	02-48-41.3	25.28N	100.05E	6		3.8			3.2	8 云南省 Yunnan Province
	9	10									
612	9	03-13-36.3	38.22N	73.92E	21	4.3	4.4	4.4	4.8	2.2	32 塔吉克 Tadzhikistan
	9	11									
613	9	10-05-00.1	7.58N	126.70E	79	4.4		5.1	1.7	78	棉兰老岛 Mindanao
	9	18									
614	9	12-06-23.5	0.88S	129.96E	23			4.4	1.6	10	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	9	20									
615	9	14-24-18.9	29.59N	103.36E	17		3.1			4.9	7 四川省 Sichuan Province
	9	22									
616	9	17-46-02.9	36.37N	80.96E	2		3.8			3.5	7 克什米尔——西藏边境地区 Kashmir-Tibet border region
	10	01									
617	9	20-32-18.7	22.22N	120.32E	36	4.3	4.0	4.5	4.5	2.7	57 台湾地区 Taiwan region
	10	04									
618	9	23-37-57.1	30.06N	101.78E	17		2.8			3.6	5 四川省 Sichuan Province
	10	07									
619	10	00-22-35.8	18.23S	71.99W	31	5.9	6.1	5.6	5.7	2.1	75 智利北部海岸远海 Off coast of Northern Chile
	10	08									



620	10	02-18-09.9	18.09S	72.08W	24	5.7	3.9	5.5	1.7	63	智利北部海岸远海	
	10	10									Off coast of Northern Chile	
621	10	03-24-10.9	37.01N	141.53E	39	5.3	5.4	5.5	5.2	1.6	101	本州东海岸近海
	10	11										Near east coast of Honshu
622	10	04-22-22.4	25.82S	178.79W	362				4.9	1.2	39	斐济以南地区
	10	12										South of Fiji
623	10	07-43-46.3	51.72N	175.26W	32				5.0	1.3	41	安德烈亚诺夫群岛
	10	15										Andreanof Islands
624	10	08-58-40.6	16.59S	176.88E	29				4.4	1.8	16	斐济地区
	10	16										Fiji region
625	10	12-02-35.6	28.36N	103.43E	11		3.0			2.3	6	四川省
	10	20										Sichuan Province
626	10	16-14-52.3	40.77N	145.20E	33	5.4	5.8	5.2	5.7	1.1	103	本州东海岸远海
	11	00										Off east coast of Honshu
627	10	18-24-33.1	40.85N	145.16E	27	5.1	5.8	5.0	5.7	1.1	97	本州东海岸远海
	11	02										Off east coast of Honshu
628	10	19-03-33.8	27.12N	103.07E	7		2.6			1.9	5	四川省
	11	03										Sichuan Province
629	10	19-04-12.3	2.81N	128.46E	33				4.9	2.5	45	马鲁古海峡
	11	03										Molucca Passage
630	11	02-15-02.2	25.03N	123.15E	169				4.8	1.2	79	台湾地区
	11	10										Taiwan region
631	11	04-49-34.5	18.89N	147.04E	47	4.8		4.9	4.8	1.1	58	马里亚纳群岛
	11	12										Marianas
632	11	08-31-51.1	51.43N	178.34W	32				4.8	1.1	52	安德烈亚诺夫群岛
	11	16										Andreanof Islands
633	11	12-24-55.3	4.79S	153.65E	92				5.3	1.3	62	新爱尔兰地区
	11	20										New Ireland region
634	11	13-27-31.6	3.19S	134.29E	32				4.6	1.0	17	西伊里安地区
	11	21										West Irian region
635	11	16-18-44.9	5.34S	148.02E	35	4.5			4.8	1.5	42	新几内亚东部地区
	12	00										Eastern New Guinea region
636	11	16-39-24.5	46.92N	90.36E	13		3.7			2.5	7	新疆自治区北部
	12	00										Northern Xinjiang Province
637	11	17-04-14.0	24.62S	88.22E	9	4.9		5.5	5.1	1.0	50	南印度洋
	12	01										South Indian Ocean
638	11	23-04-39.4	4.07N	127.85E	71				4.8	1.7	36	塔劳群岛
	12	07										Talau Islands
639	12	01-57-17.8	49.93N	78.82E	9	4.5	5.3	3.9	5.5	1.1	71	哈萨克东部
	12	09										Eastern Kazakhstan
640	12	04-23-59.1	35.06N	117.10E	10		2.8			0.8	5	中国东部
	12	12										Eastern China
641	12	07-35-45.0	2.67N	126.50E	60				5.0	1.8	49	马鲁古海峡
	12	15										Molucca Passage
642	12	11-59-24.5	9.90S	119.24E	32				4.5	1.3	37	松巴哇以南地区
	12	19										South of Sumbawa
643	12	12-18-11.1	15.75N	94.45W	32	6.0		5.6	5.7	1.0	49	墨西哥瓦哈卡海岸近海
	12	20										Near coast of Oaxaca, Mexico
644	12	15-21-41.5	29.78N	69.61E	32				4.0	1.4	22	巴基斯坦
	12	23										Pakistan
645	12	19-25-60.0	35.79N	80.93E	16		4.4			2.2	11	克什米尔——西藏边境地区
	13	03										Kashmir-Tibet border region



646	12	20-21-19.2	28.13N	142.65E	33			4.7	0.9	26	小笠原群岛地区 Bonin Islands region
	13	04									
647	13	06-56-32.9	12.46N	87.30W	55			5.1	1.6	56	尼加拉瓜海岸近海 Near coast of Nicaragua
	13	14									
648	13	07-40-18.4	23.89S	177.06W	47	5.4		5.3	5.2	2.5	21 斐济以南地区 South of Fiji
	13	15									
649	13	08-21-48.5	23.80S	177.22W	31	6.3	6.2	6.0	5.8	2.0	74 斐济以南地区 South of Fiji
	13	16									
650	13	09-28-14.7	1.79N	127.00E	65	4.7		5.0	1.6	71	马鲁古海峡 Molucca Passage
	13	17									
651	13	10-28-12.9	15.56S	74.65W	49			5.3	2.3	39	秘鲁海岸远海 Off coast of Peru
	13	18									
652	14	01-45-19.4	35.73N	117.84E	17		3.1			4.4	5 中国东部 Eastern China
	14	09									
653	14	04-25-57.6	10.73N	139.03E	19	4.5	5.4	4.2	5.3	0.6	56 加罗林群岛西部 Western Caroline Islands
	14	12									
654	14	05-21-10.5	0.18S	132.65E	67				5.1	0.9	40 西伊里安地区 West Irian region
	14	13									
655	14	05-35-58.5	13.17N	143.93E	148			5.1	5.2	0.9	82 马里亚纳群岛以南地区 South of the Marianas
	14	13									
656	14	06-10-03.7	23.72S	177.42W	31	5.6	5.7	5.4	5.3	2.5	31 斐济以南地区 South of Fiji
	14	14									
657	14	09-23-57.5	51.69N	173.53W	32	4.8		4.4	5.1	1.2	77 安德烈亚诺夫群岛 Andreanof Islands
	14	17									
658	14	20-18-38.6	38.54S	92.09W	3	5.6		5.6	5.4	3.1	39 太平洋南部 Southern Pacific Ocean
	15	04									
659	14	23-14-54.8	24.00N	122.28E	33	3.7	4.0		4.4	1.8	39 台湾岛 Taiwan
	15	07									
660	15	05-06-52.2	24.98N	127.32E	26	4.7		5.5	4.9	1.9	63 琉球群岛 Ryukyu Islands
	15	13									
661	15	05-11-16.7	15.74N	94.39W	38	5.8		5.5	5.6	0.7	41 墨西哥瓦哈卡海岸近海 Near coast of Oaxaca, Mexico
	15	13									
662	15	06-03-03.9	23.90S	70.32W	15			5.2	5.0	3.7	30 智利北部海岸近海 Near coast of Northern Chile
	15	14									
663	15	07-40-10.5	18.79N	146.93E	57	4.6		4.6	4.7	1.3	50 马里亚纳群岛 Marianas
	15	15									
664	15	08-06-25.8	18.79N	147.00E	41	4.7		4.6	4.8	1.5	48 马里亚纳群岛 Marianas
	15	16									
665	15	08-17-30.5	18.89N	147.06E	33	4.7		4.5	4.7	1.9	48 马里亚纳群岛 Marianas
	15	16									
666	15	11-35-24.0	18.77N	147.05E	53	5.2	5.2		5.3	1.7	84 马里亚纳群岛 Marianas
	15	19									
667	15	11-56-11.5	18.85N	147.03E	43	4.7		5.2	4.9	2.0	40 马里亚纳群岛 Marianas
	15	19									
668	15	12-16-45.8	18.84N	147.02E	50				4.4	1.2	23 马里亚纳群岛 Marianas
	15	20									
669	15	16-14-45.5	10.41S	91.55E	11	5.2	5.8	4.8	5.6	1.3	99 南印度洋 South Indian Ocean
	16	00									
670	15	19-00-00.8	18.73N	146.50E	83	4.7			4.6	1.6	41 马里亚纳群岛 Marianas
	16	03									
671	15	19-08-21.6	18.82N	146.42E	51			4.6	1.5	24	马里亚纳群岛 Marianas
	16	03									



672	15	21-42-16.8	5.28S	151.63E	64	5.1		5.7	1.1	90	新不列颠地区 New Britain region
	16	05									
673	16	03-46-13.5	40.78N	145.24E	28	4.3	5.0	5.0	5.3	1.2	80 本州东海岸远海 Off east coast of Honshu
	16	11									
674	16	03-50-16.6	15.86S	172.64W	27	5.1	5.7	4.8	5.0	1.8	36 汤加 Tonga
	16	11									
675	16	09-57-20.2	26.49N	100.86E	2	3.0				2.9	5 云南省 Yunnan Province
	16	17									
676	16	10-28-57.6	39.37N	72.99E	52	3.9	4.3		4.5	1.9	26 塔吉克 Tadzhikistan
	16	18									
677	16	12-01-02.0	26.54N	100.83E	10	3.4				2.9	6 云南省 Yunnan Province
	16	20									
678	16	12-21-37.3	6.36S	147.84E	23	5.6	5.4	5.5	5.8	1.1	73 新几内亚东部地区 Eastern New Guinea region
	16	20									
679	16	12-33-35.1	6.33S	147.63E	29	5.6	5.6	5.5	5.5	1.7	79 新几内亚东部地区 Eastern New Guinea region
	16	20									
680	16	13-23-20.2	26.38N	100.94E	2	3.1				2.5	7 云南省 Yunnan Province
	16	21									
681	16	13-28-06.9	18.74N	147.13E	50				4.7	1.1	32 马里亚纳群岛 Marianas
	16	21									
682	16	14-35-45.2	14.60S	167.25E	189				5.0	1.1	54 瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	16	22									
683	16	15-27-58.1	6.44S	147.80E	50				5.2	0.9	28 新几内亚东部地区 Eastern New Guinea region
	16	23									
684	16	15-49-35.8	6.38S	147.78E	28	6.1	5.9	6.1	5.7	1.9	95 新几内亚东部地区 Eastern New Guinea region
	16	23									
685	16	16-39-55.8	10.82S	166.07E	59	5.3			5.4	0.7	76 圣克鲁斯群岛 Santa Cruz Islands
	17	00									
686	16	17-20-43.7	53.44N	167.19W	9	5.2		5.0	5.1	1.8	46 福克斯群岛 Fox Islands
	17	01									
687	16	21-00-23.1	34.25N	103.35E	6	3.2				2.4	6 四川省 Sichuan Province
	17	05									
688	16	21-11-19.2	0.58N	126.41E	29				4.8	2.5	21 马鲁古海峡 Molucca Passage
	17	05									
689	17	01-44-59.2	43.88N	138.32E	271				4.3	0.8	30 日本海东部 Eastern Sea of Japan
	17	09									
690	17	10-11-16.7	37.99N	120.61E	14	3.2				0.6	5 中国东北部 North-Eastern China
	17	18									
691	17	15-12-00.2	35.57N	81.00E	0	4.3				3.0	10 克什米尔——西藏边境地区 Kashmir-Tibet border region
	17	23									
692	17	16-29-58.6	37.57N	114.54E	12	3.2				1.9	12 中国东北部 North-Eastern China
	18	00									
693	17	16-44-23.3	37.60N	114.52E	18	3.3				3.6	12 中国东北部 North-Eastern China
	18	00									
694	17	21-31-01.5	9.31S	123.71E	34	4.8			4.9	1.8	40 帝汶岛 Timor
	18	05									
695	18	00-22-48.3	2.11N	126.53E	29	5.5	6.0	5.5	5.8	0.8	100 马鲁古海峡 Molucca Passage
	18	08									
696	18	03-36-29.5	31.95N	131.85E	56	6.1	6.9		6.4	1.1	109 九州岛 Kyushu
	18	11									
697	18	03-58-12.3	31.95N	131.95E	50				4.8	1.6	32 九州岛 Kyushu
	18	11									



698	18	05-00-17.3	31.94N	131.98E	52	4.1		4.9	1.4	61	九州岛
	18	13									Kyushu
699	18	05-50-10.6	27.30N	129.64E	37	4.5		5.0	1.9	57	琉球群岛
	18	13									Ryukyu Islands
700	18	08-02-19.8	26.52N	142.47E	34	4.2		5.0	1.5	39	小笠原群岛地区
	18	16									Bonin Islands region
701	18	08-52-48.9	29.97S	177.69W	32	5.3		5.0	5.3	1.0	45 克马德克群岛
	18	16									Kermadec Islands
702	18	09-14-06.0	37.55N	114.56E	5	2.8			3.9	6	中国东北部
	18	17									North-Eastern China
703	18	13-12-10.2	6.62S	147.83E	21			4.5	0.7	24	新几内亚东部地区
	18	21									Eastern New Guinea region
704	18	14-06-12.7	26.03N	96.90E	14	3.6			4.3	5	缅甸
	18	22									Burma
705	18	17-11-27.9	34.46N	80.84E	15	4.1			4.8	5	西藏自治区
	19	01									Tibet
706	18	20-59-56.7	24.79N	102.31E	9	3.5			2.1	12	云南省
	19	04									Yunnan Province
707	18	21-29-22.3	5.77S	146.34E	34			5.0	1.0	51	新几内亚
	19	05									New Guinea
708	19	01-28-52.3	6.84N	76.46W	11	5.5		4.2	5.7	1.9	60 哥伦比亚北部
	19	09									Northern Colombia
709	19	07-13-35.5	24.10N	122.19E	34	4.3	4.3	4.4	2.2	50	台湾岛
	19	15									Taiwan
710	19	08-31-39.1	0.71N	126.13E	36			5.0	2.3	46	马鲁古海峡
	19	16									Molucca Passage
711	19	14-32-15.1	23.61N	64.65E	10	4.7		4.2	5.1	0.9	56 巴基斯坦海岸近海
	19	22									Near coast of Pakistan
712	19	17-14-40.8	14.85S	167.25E	150		5.4	5.5	1.2	78	瓦努阿图(新赫布里底)
	20	01									Vanuatu (New Hebrides)
713	19	17-58-13.9	31.94N	132.07E	74	4.1		4.6	2.0	46	九州岛
	20	01									Kyushu
714	19	21-27-49.4	29.29N	138.02E	538		5.5	5.3	1.0	93	小笠原群岛地区
	20	05									Bonin Islands region
715	19	22-51-38.5	20.37S	176.09W	213		6.4	5.9	1.0	95	斐济地区
	20	06									Fiji region
716	20	01-58-18.3	13.28N	121.08E	20	4.4		4.9	2.8	29	民都洛岛
	20	09									Mindoro
717	20	05-28-58.8	36.39N	70.67E	105			4.6	1.1	25	兴都库什地区
	20	13									Hindu Kush region
718	20	12-53-29.3	23.47S	174.54W	33			4.1	5.1	1.2	29 汤加地区
	20	20									Tonga region
719	20	13-03-02.2	7.44N	123.93E	609			4.5	1.0	22	棉兰老岛
	20	21									Mindanao
720	20	13-57-30.0	18.87N	120.89E	24	3.9	3.7	4.4	1.9	43	吕宋岛
	20	21									Luzon
721	20	17-12-24.8	44.93N	92.44E	14	3.9	4.2		2.7	13	新疆自治区北部
	21	01									Northern Xinjiang Province
722	20	23-00-22.8	38.34N	114.32E	16	3.9	4.2	4.3	2.1	52	中国东北部
	21	07									North-Eastern China
723	21	04-43-02.2	31.18N	79.83E	50		4.9		2.6	6	西藏——印度边境地区
	21	12									Tibet-India border region



724	21	07-13-52.3	3.76S	149.33E	12		4.5	4.8	0.8	21	俾斯麦海 Bismarck Sea		
	21	15											
725	21	10-41-35.0	52.18N	177.57W	93		6.5	6.0	0.9	106	安德烈亚诺夫群岛 Andreanof Islands		
	21	18											
726	21	12-08-58.7	8.93N	83.22W	22		5.3	5.3	1.8	23	哥斯达黎加 Costa Rica		
	21	20											
727	21	12-11-46.8	24.37N	141.74E	94			4.7	0.8	11	硫黄列岛地区 Volcano Islands region		
	21	20											
728	21	13-15-12.3	25.66N	124.95E	90	4.3		4.6	2.3	41	台湾东北以远地区 North-east of Taiwan		
	21	21											
729	21	13-29-04.9	0.49N	126.41E	33			4.6	1.5	29	马鲁古海 Molucca Sea		
	21	21											
730	21	14-46-37.6	36.60N	70.87E	206			4.8	1.2	19	兴都库什地区 Hindu Kush region		
	21	22											
731	22	02-49-14.6	51.73N	173.62W	18	6.3	6.0	6.0	5.9	1.3	104 安德烈亚诺夫群岛 Andreanof Islands		
	22	10											
732	22	03-23-57.6	23.85S	69.99W	32	6.0	6.0	5.8	5.8	1.1	85 智利北部海岸近海 Near coast of Northern Chile		
	22	11											
733	22	10-04-52.1	52.07N	173.64W	35			4.8	1.2	29	安德烈亚诺夫群岛 Andreanof Islands		
	22	18											
734	22	10-30-20.5	25.86N	96.74E	11	4.2	4.3			4.7	2.4	42 缅甸 Burma	
	22	18											
735	22	11-27-02.6	2.72N	128.61E	225		4.4		5.0	1.0	52	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)	
	22	19											
736	22	15-24-42.2	7.28S	128.56E	145				5.0	1.0	60	班达海 Banda Sea	
	22	23											
737	22	17-35-15.1	42.19N	143.99E	47				4.5	1.0	21	北海道地区 Hokkaido region	
	23	01											
738	22	17-45-03.8	52.23N	171.52W	32	5.0		4.9	5.3	0.7	91	安德烈亚诺夫群岛 Andreanof Islands	
	23	01											
739	23	00-01-06.5	52.07N	171.49W	32				4.7	0.8	42	福克斯群岛 Fox Islands	
	23	08											
740	23	01-05-49.5	2.29N	96.18E	33				4.3	1.4	15	北苏门答腊西海岸远海 Off west coast of Northern Sumatera	
	23	09											
741	23	02-00-40.1	5.63S	147.90E	57	4.9		4.6	5.0	2.2	73	新几内亚东部地区 Eastern New Guinea region	
	23	10											
742	23	04-58-18.9	31.88N	132.04E	59	4.9		5.5	5.1	5.2	2.0	77	九州岛 Kyushu
	23	12											
743	23	13-29-53.0	17.33S	176.26E	33			5.6	4.9	4.9	1.0	17	斐济地区 Fiji region
	23	21											
744	23	16-32-34.5	34.27N	103.53E	12	3.7				3.5	9	甘肃省 Gansu Province	
	24	00											
745	23	17-09-01.2	0.09N	119.32E	64				4.9	1.6	23	米那哈沙半岛(西里伯斯) Minahassa Peninsula (Celebes)	
	24	01											
746	24	03-49-33.6	11.37N	125.54E	69	4.5		5.1	5.2	1.2	67	莱特岛 Leyte	
	24	11											
747	24	07-44-28.8	5.39S	148.01E	59				4.7	0.6	27	新几内亚东部地区 Eastern New Guinea region	
	24	15											
748	24	12-49-46.0	37.35N	138.09E	30	5.6		5.9	5.1	5.7	1.7	101	本州岛 Honshu
	24	20											
749	24	13-22-24.5	37.41N	138.24E	43	4.3			4.8	2.1	49	本州岛 Honshu	
	24	21											



750	24	15-23-33.1	33.44N	121.31E	9	3.5				3.6	9	中国东部 Eastern China				
	24	23														
751	24	17-31-20.2	44.01N	151.28E	25					4.9	1.3	52 千岛群岛地区 Kurile Islands region				
	25	01														
752	24	21-38-10.4	22.09N	143.93E	124					5.1	4.9	1.1	63 马里亚纳群岛地区 Marianas region			
	25	05														
753	25	00-39-43.3	37.17N	138.22E	63	4.2				5.0	4.7	2.4	41 本州岛 Honshu			
	25	08														
754	25	05-02-50.6	51.69N	173.56W	32						4.7	1.1	37 安德烈亚诺夫群岛 Andreanof Islands			
	25	13														
755	25	06-07-58.3	3.19N	96.23E	65						4.9	1.1	46 北苏门答腊西海岸远海 Off west coast of Northern Sumatera			
	25	14														
756	25	12-25-19.8	40.65N	122.65E	8					3.1			10 中国东北部 North-Eastern China			
	25	20														
757	25	13-42-23.3	40.77N	142.09E	80						4.7	2.0	25 本州东海岸近海 Near east coast of Honshu			
	25	21														
758	25	18-36-18.8	29.05N	101.12E	11						3.4		15 四川省 Sichuan Province			
	26	02														
759	25	22-14-54.4	2.29N	126.55E	69						4.6	1.1	27 马鲁古海峡 Molucca Passage			
	26	06														
760	25	22-58-21.2	18.81N	147.36E	39						4.8	1.7	28 马里亚纳群岛 Marianas			
	26	06														
761	26	01-05-16.1	56.02S	27.57W	107						5.2	2.0	22 南桑德韦奇群岛地区 South Sandwich Islands region			
	26	09														
762	26	06-47-09.7	21.49S	173.68W	20					5.2	6.0	5.3	5.4	1.2	64 汤加 Tonga	
	26	14														
763	26	09-47-60.0	36.80N	111.54E	16						3.3			10 中国东部 Eastern China		
	26	17														
764	26	10-13-47.8	39.74N	118.46E	7						3.1			10 中国东北部 North-Eastern China		
	26	18														
765	26	11-56-53.5	41.88N	69.85E	17					4.8	5.1	4.3	5.1	1.0	60 吉尔吉斯 Kirgiziya	
	26	19														
766	26	16-17-38.0	13.67S	167.20E	192						6.1			5.5	0.8	99 瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	27	00														
767	26	18-32-25.5	21.36S	174.32W	82					5.8	6.1			5.4	1.3	73 汤加 Tonga
	27	02														
768	26	18-56-20.3	5.27S	133.94E	58					5.2				5.1	1.4	47 阿鲁群岛地区 Aroe Islands region
	27	02														
769	26	21-09-19.7	24.88N	96.28E	18					4.6	4.3			4.7	2.0	62 缅甸 Burma
	27	05														
770	27	11-35-48.6	36.66N	70.91E	237									4.6	0.9	21 兴都库什地区 Hindu Kush region
	27	19														
771	27	15-54-36.3	21.56N	121.11E	31						3.7	3.9		4.1	2.1	37 台湾地区 Taiwan region
	27	23														
772	27	17-10-50.8	51.19N	178.18W	35									5.1	0.9	49 安德烈亚诺夫群岛 Andreanof Islands
	28	01														
773	27	20-01-55.9	39.80N	75.25E	17						4.0			2.6		5 新疆维吾尔自治区南部 Southern Xinjiang Province
	28	04														
774	27	22-53-17.5	31.81N	90.98E	32					4.2				3.9	2.1	29 西藏自治区 Tibet
	28	06														
775	28	04-42-08.8	46.92N	83.06E	10						3.2			1.8		5 哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	28	12														



776	28	05-04-09.8	58.01S	25.23W	34		5.5	3.1	40	南桑德韦奇群岛地区		
	28	13								South Sandwich Islands region		
777	28	06-33-04.6	43.71N	88.25E	8	3.7		4.0	8	新疆自治区北部		
	28	14								Northern Xinjiang Province		
778	28	08-24-07.6	29.20N	104.77E	19	2.9		2.5	5	四川省		
	28	16								Sichuan Province		
779	28	08-48-49.5	26.45N	103.14E	17	4.0	4.1	4.2	2.9	44 云南省		
	28	16								Yunnan Province		
780	28	11-04-12.3	30.55N	131.61E	60	4.5		5.1	4.7	1.8	61 九州岛	
	28	19									Kyushu	
781	28	11-26-37.9	30.65N	131.47E	46	5.5		5.7	5.8	5.1	1.6	90 九州岛
	28	19										Kyushu
782	28	11-44-55.7	30.76N	131.65E	55			4.5	2.2	2.5	25	九州岛
	28	19										Kyushu
783	28	16-02-19.3	34.19N	103.26E	16	3.6	4.1			2.9	21	四川省
	29	00										Sichuan Province
784	28	20-35-04.3	21.73N	111.64E	3		3.1			3.1	5	中国东部
	29	04										Eastern China
785	28	23-27-36.2	30.51N	131.63E	47	4.1		4.8	1.8	2.8	28	九州岛
	29	07										Kyushu
786	28	23-31-57.7	5.18S	152.68E	55	5.3		5.4	5.2	5.8	0.9	85 新不列颠地区
	29	07										New Britain region
787	29	01-17-19.0	51.56N	173.25W	32			4.6	1.6	3.3	33	安德烈亚诺夫群岛
	29	09										Andreanof Islands
788	29	01-30-55.2	51.86N	173.26W	32	4.7		5.0	1.0	6.2	62	安德烈亚诺夫群岛
	29	09										Andreanof Islands
789	29	07-32-19.9	40.65N	122.89E	14		3.1			1.4	8	中国东北部
	29	15										North-Eastern China
790	29	09-17-34.6	17.17S	167.90E	22	5.3		5.7	5.4	5.3	1.4	76 瓦努阿图(新赫布里底)
	29	17										Vanuatu (New Hebrides)
791	29	14-10-08.5	42.83N	84.11E	13		3.4			3.4	6	新疆自治区北部
	29	22										Northern Xinjiang Province
792	29	14-59-28.3	6.24S	129.91E	181			5.3	1.0	5.3	86	班达海
	29	22										Banda Sea
793	29	18-01-35.9	37.59N	102.80E	2		2.6			2.8	5	甘肃省
	30	02										Gansu Province
794	29	20-28-31.0	38.09N	95.39E	6		3.2			3.3	5	青海省
	30	04										Qinghai Province
795	29	21-16-41.6	48.03N	155.94E	6	4.4		4.9	2.1	5.9	59	千岛群岛地区
	30	05										Kurile Islands region
796	29	21-45-10.0	4.64N	125.19E	42	4.0		5.1	1.7	5.1	31	西里伯斯海
	30	05										Celebes Sea
797	29	23-16-44.7	27.14N	100.08E	17	4.5	4.4	5.0	1.9	5.0	73	云南省
	30	07										Yunnan Province
798	29	23-24-04.0	2.22N	126.96E	68			5.1	1.0	5.1	66	马鲁古海峡
	30	07										Molucca Passage
799	30	02-15-57.5	30.39N	131.82E	58	4.2		4.9	2.3	4.9	30	琉球群岛地区
	30	10										Ryukyu Islands region
800	30	03-13-39.8	74.63N	130.63W	10	5.1		4.6	5.5	0.9	91	波弗特海
	30	11										Beaufort Sea
801	30	09-11-05.4	46.01N	149.56E	191			4.6	0.5	4.6	13	千岛群岛
	30	17										Kurile Islands



802	30	15-53-06.5	2.58N	126.85E	71			4.9	1.3	36	马鲁古海峡 Molucca Passage
	30	23									
803	30	20-27-28.1	20.75S	174.10W	32	4.9		5.5	5.0	1.0	43 汤加 Tonga
	31	04									
804	30	22-33-45.1	38.66N	116.07E	3		3.1			3.1	9 中国东北部 North-Eastern China
	31	06									
805	31	01-18-36.3	53.10N	156.79E	177		5.3	5.2	1.2	85	堪察加半岛 Kamchatka
	31	09									
806	31	06-55-50.7	37.17N	104.24E	5		2.8			4.3	5 甘肃省 Gansu Province
	31	14									
807	31	06-57-52.9	29.90N	102.80E	12		3.6			4.1	13 四川省 Sichuan Province
	31	14									
808	31	15-36-01.2	2.54N	126.87E	88	4.4		4.8	1.1	52	马鲁古海峡 Molucca Passage
	31	23									
809	31	21-07-34.7	30.51N	138.38E	448		4.8	4.8	0.9	76	本州以南地区 South of Honshu
	1	05									
April 1987											
810	1	01-48-07.3	22.66S	66.27W	233		6.4	6.1	1.4	93	阿根廷胡胡伊省 Jujuy Province, Argentina
	1	09									
811	1	02-49-45.5	0.13N	130.15E	32			4.2	1.3	19	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	1	10									
812	1	04-49-11.8	4.50S	102.67E	90			4.8	1.0	25	苏门答腊南部 Southern Sumatra
	1	12									
813	1	10-38-47.6	2.18N	125.68E	186			4.5	1.0	10	马鲁古海峡 Molucca Passage
	1	18									
814	1	12-59-54.4	36.62N	70.87E	216		4.9	5.0	1.5	92	兴都库什地区 Hindu Kush region
	1	20									
815	1	16-01-45.9	21.87N	98.58E	14	5.2	5.2	5.4	4.7	2.2	76 缅甸 Burma
	2	00									
816	1	17-35-26.8	33.20N	120.44E	13	3.5	4.1			2.6	26 中国东部 Eastern China
	2	01									
817	1	20-19-37.5	1.34S	89.43E	11	4.9	5.4	5.0	1.0	57	南印度洋 South Indian Ocean
	2	04									
818	1	21-39-04.7	37.15N	71.93E	147			4.1	2.1	19	阿富汗——苏联边境地区 Afghanistan-USSR border region
	2	05									
819	2	05-46-05.0	12.00N	87.10W	22			4.6	5.0	1.7	20 尼加拉瓜海岸近海 Near coast of Nicaragua
	2	13									
820	2	10-48-02.1	34.73N	136.92E	332		4.5	4.6	1.3	57	本州南部 Southern Honshu
	2	18									
821	2	11-23-15.5	8.41S	116.70E	9	4.9	5.3	4.3	5.0	2.7	50 松巴哇地区 Sumbawa region
	2	19									
822	2	11-42-48.7	8.50S	116.70E	30			4.5	3.3	11	松巴哇地区 Sumbawa region
	2	19									
823	2	13-13-36.5	40.39N	141.49E	126			4.4	1.2	18	本州岛 Honshu
	2	21									
824	2	13-28-03.6	36.43N	81.04E	15		4.0			3.8	7 克什米尔——西藏边境地区 Kashmir-Tibet border region
	2	21									
825	2	13-30-42.5	35.88N	80.76E	21	4.6	4.9	4.1	4.8	2.2	44 克什米尔——西藏边境地区 Kashmir-Tibet border region
	2	21									
826	2	15-38-27.4	52.80N	168.31W	33			4.3	4.8	1.2	34 福克斯群岛 Fox Islands
	2	23									



827	2	18-45-41.7	36.22N	71.09E	103	5.7	5.7	1.3	105	兴都库什地区 Hindu Kush region	
	3	02									
828	2	19-21-13.4	29.89N	139.23E	389		4.4	0.7	45	本州以南地区 South of Honshu	
	3	03									
829	2	22-55-45.4	15.91N	122.17E	41	4.2	4.6	4.9	2.2	57 吕宋岛 Luzon	
	3	06									
830	3	01-17-10.7	49.90N	78.82E	23	5.2	5.9	4.7	6.2	1.2	104 哈萨克东部 Eastern Kazakhstan
	3	09									
831	3	03-32-21.4	25.19S	179.93E	485		5.2	0.9	47	斐济以南地区 South of Fiji	
	3	11									
832	3	05-48-00.5	24.90N	95.18E	152		4.6	1.3	29	缅甸—印度边境地区 Burma-India border region	
	3	13									
833	3	11-10-21.0	27.32S	63.49W	577		4.7	3.0	17	阿根廷圣地亚哥德尔埃斯特罗省 Santiago del Estero Province, Argenti	
	3	19									
834	3	17-44-49.7	4.17S	129.64E	33	4.7	5.1	1.5	53	班达海 Banda Sea	
	4	01									
835	3	17-54-22.7	4.67S	144.27E	90	5.9	5.7	1.3	98	新几内亚 New Guinea	
	4	01									
836	4	00-17-01.4	14.48S	70.95W	159		5.1	2.4	41	秘鲁 Peru	
	4	08									
837	4	07-58-39.0	22.16S	179.54W	587	5.5	5.4	0.8	55	斐济以南地区 South of Fiji	
	4	15									
838	4	09-51-38.2	16.83S	172.44W	37	5.2	5.4	1.2	52	汤加地区 Tonga region	
	4	17									
839	4	11-00-27.4	41.54N	79.14E	27	3.1		3.0	8	吉尔吉斯—新疆边境地区 Kirgiziya-Xinjiang border region	
	4	19									
840	4	12-12-16.3	14.48S	75.23W	40		5.2	2.7	43	秘鲁海岸近海 Near coast of Peru	
	4	20									
841	4	12-40-35.1	34.01N	114.59E	12	2.8		4.0	8	中国东部 Eastern China	
	4	20									
842	4	15-59-06.7	36.71N	28.33E	21		4.7	1.7	46	多德卡尼斯群岛 Dodecanese Islands	
	4	23									
843	4	17-41-56.8	11.56S	117.39E	35		4.6	1.6	25	松巴哇以南地区 South of Sumbawa	
	5	01									
844	4	17-45-12.7	42.55N	80.10E	29	4.2	4.3	4.1	4.1	2.2	33 阿拉木图地区 Alma-Ata region
	5	01									
845	4	20-32-14.8	58.86S	25.30W	33		5.0	2.0	10	南桑德韦奇群岛地区 South Sandwich Islands region	
	5	04									
846	5	11-33-29.7	41.93S	18.77W	10	5.5	5.0	5.1	2.5	17 南大西洋海岭 South Atlantic Ridge	
	5	19									
847	6	00-24-08.7	51.97N	173.67W	27	5.0	4.6	4.7	1.6	58 安德烈亚诺夫群岛 Andreanof Islands	
	6	08									
848	6	08-42-46.4	39.48N	118.15E	12	2.9		3.3	9	中国东北部 North-Eastern China	
	6	16									
849	6	09-25-39.7	8.01S	156.54E	35	5.0	4.3	5.2	1.0	66 所罗门群岛 Solomon Islands	
	6	17									
850	6	10-23-12.7	51.91N	176.19W	64		5.1	1.0	68	安德烈亚诺夫群岛 Andreanof Islands	
	6	18									
851	6	15-01-15.8	37.19N	71.66E	112		4.4	2.4	14	阿富汗—苏联边境地区 Afghanistan-USSR border region	
	6	23									
852	6	18-51-37.3	5.94S	151.07E	34	5.1	5.6	5.2	1.4	52 新不列颠地区 New Britain region	
	7	02									



853	6	18-56-52.5	19.39N	146.45E	64						4.7	2.1	32	马里亚纳群岛 Marianas
	7	02												
854	6	21-07-32.1	3.50N	128.29E	33						4.7	2.4	25	塔劳群岛 Talaud Islands
	7	05												
855	6	23-28-35.2	26.59N	96.11E	93						4.5	2.7	32	缅甸——印度边境地区 Burma-India border region
	7	07												
856	7	00-40-41.2	37.36N	141.68E	26	6.6	6.6	6.6	6.4	1.7	96			本州东海岸近海 Near east coast of Honshu
	7	08												
857	7	00-51-36.8	22.76S	66.08W	205						5.5	1.5	35	阿根廷胡胡伊省 Jujuy Province, Argentina
	7	08												
858	7	05-57-03.1	2.53N	126.81E	121						4.8	1.5	32	马鲁古海峡 Molucca Passage
	7	13												
859	7	15-31-50.3	44.06N	84.66E	15	2.6					3.4		5	新疆自治区北部 Northern Xinjiang Province
	7	23												
860	7	17-10-08.2	35.37N	105.10E	17	3.0					1.2		7	甘肃省 Gansu Province
	8	01												
861	7	20-17-34.7	23.26N	143.85E	35						4.1	1.5	31	硫黄列岛地区 Volcano Islands region
	8	04												
862	7	21-17-11.1	35.44N	77.88E	20	4.4					3.7		10	克什米尔东部 Eastern Kashmir
	8	05												
863	7	22-48-20.6	11.59N	125.67E	29						3.7	2.3	9	萨马岛 Samar
	8	06												
864	8	06-30-32.3	0.14N	130.16E	34	4.6		4.5	5.3	1.3	70			查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	8	14												
865	8	06-58-40.8	36.73N	142.04E	50	4.2					4.4	1.7	54	本州东海岸近海 Near east coast of Honshu
	8	14												
866	8	09-49-38.1	5.33S	153.05E	59	5.3	5.6	5.2	5.4	1.3	80			新不列颠地区 New Britain region
	8	17												
867	8	15-42-33.1	37.01N	81.23E	15	4.1					4.3		7	新疆自治区南部 Southern Xinjiang Province
	8	23												
868	8	15-45-13.5	11.88N	87.20W	31	5.1		4.4	4.8	2.2	32			尼加拉瓜海岸近海 Near coast of Nicaragua
	8	23												
869	8	17-42-36.7	11.82N	86.42W	51	6.6	5.9		5.3	2.6	77			尼加拉瓜海岸近海 Near coast of Nicaragua
	9	01												
870	8	19-58-04.1	8.51S	111.13E	63						4.8	1.6	33	爪哇以南地区 South of Java
	9	03												
871	8	22-43-46.2	25.04S	179.75E	508						5.0	1.6	42	斐济以南地区 South of Fiji
	9	06												
872	9	00-48-53.9	1.26N	128.54E	33	6.1	5.9	6.1	5.5	1.3	98			查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	9	08												
873	9	01-36-02.9	1.19N	128.73E	36						4.5	2.5	22	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	9	09												
874	9	02-51-50.5	1.17N	128.88E	33						4.8	2.5	17	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	9	10												
875	9	04-55-45.0	44.15N	149.29E	38						4.7	1.1	31	千岛群岛地区 Kurile Islands region
	9	12												
876	9	05-18-42.5	38.69N	98.61E	20	3.0					1.9		8	青海省 Qinghai Province
	9	13												
877	9	07-25-33.4	35.48N	87.01E	24	5.2	5.3	4.9	4.8	1.9	74			西藏自治区 Tibet
	9	15												
878	9	07-50-34.7	35.86N	140.79E	63						4.9	1.5	33	本州东海岸近海 Near east coast of Honshu
	9	15												



879	9	16-44-23.6	51.28N	175.98W	52				4.7	1.5	26	安德烈亚诺夫群岛 Andreanof Islands	
	10	00											
880	9	17-12-14.9	46.47N	144.47E	339				4.3	1.4	33	北海道地区 Hokkaido region	
	10	01											
881	9	17-26-22.4	21.76N	111.67E	10		4.4			3.7	16	中国东部 Eastern China	
	10	01											
882	9	18-04-04.7	21.98N	112.47E	30		3.2			4.5	5	中国东部 Eastern China	
	10	02											
883	9	20-01-17.8	35.83N	80.65E	27		4.7	4.6	5.0	4.9	2.6	60	克什米尔——西藏边境地区 Kashmir-Tibet border region
	10	04											
884	9	22-59-53.8	52.95N	168.33W	32		5.4	5.3	5.1	5.3	1.0	80	福克斯群岛 Fox Islands
	10	06											
885	10	06-13-46.2	6.27S	147.55E	84					5.2	1.5	57	新几内亚东部地区 Eastern New Guinea region
	10	14											
886	10	06-43-24.6	37.13N	57.60E	48		5.1	5.3		4.9	1.6	68	伊朗 Iran
	10	14											
887	10	09-29-24.3	40.42N	109.01E	14			3.4			2.6	9	中国北部 Northern China
	10	17											
888	10	10-32-29.6	37.61N	79.09E	22			4.2			3.4	7	新疆自治区南部 Southern Xinjiang Province
	10	18											
889	10	10-59-38.1	35.98N	139.79E	61		4.4	5.2		5.1	1.7	74	本州南海岸近海 Near south coast of Honshu
	10	18											
890	10	18-43-06.5	0.20N	130.39E	34				4.2	4.8	1.9	38	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	11	02											
891	10	22-10-01.0	16.72S	174.25W	207					5.0	1.0	31	汤加 Tonga
	11	06											
892	10	23-03-28.5	46.29N	152.40E	31		4.6		4.1	5.2	1.8	66	千岛群岛 Kurile Islands
	11	07											
893	11	01-59-02.8	7.52S	147.11E	11					5.3	1.1	57	新几内亚东部地区 Eastern New Guinea region
	11	09											
894	11	09-05-10.9	20.36S	173.97W	36					4.8	1.5	29	汤加 Tonga
	11	17											
895	11	11-50-26.7	11.55N	144.60E	42					4.7	1.3	32	马里亚纳群岛以南地区 South of the Marianas
	11	19											
896	11	12-43-50.3	0.65N	126.38E	66					4.8	2.3	29	马鲁古海峡 Molucca Passage
	11	20											
897	11	14-25-01.5	11.68S	166.52E	190			5.4		5.1	1.1	77	圣克鲁斯群岛 Santa Cruz Islands
	11	22											
898	11	16-22-08.3	53.43N	167.39W	33		4.9		4.4	5.1	2.0	48	福克斯群岛 Fox Islands
	12	00											
899	11	17-17-43.4	23.68N	121.69E	13		4.5	4.5		4.2	2.6	71	台湾岛 Taiwan
	12	01											
900	11	18-13-24.9	23.97N	122.09E	26		5.4	5.1	5.3	5.6	1.9	105	台湾岛 Taiwan
	12	02											
901	11	18-53-59.8	1.02N	128.53E	47		5.0			5.1	2.1	52	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	12	02											
902	11	19-02-06.2	1.10N	128.63E	35		5.1	5.8	5.3	5.2	1.7	78	查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	12	03											
903	11	19-09-23.0	4.60N	146.79E	52					4.2	1.3	13	马里亚纳群岛 Marianas
	12	03											
904	11	20-44-31.2	39.48N	106.81E	20			3.4			3.4	15	中国北部 Northern China
	12	04											



905	11	22-01-30.0	31.25N	132.06E	5	4.4	5.0	4.8	2.2	65	九州岛 Kyushu
	12	06									
906	11	23-50-28.2	31.57N	55.96E	23	5.4	5.5	4.5	5.0	1.7	59 伊朗 Iran
	12	07									
907	12	02-47-18.4	35.41N	23.39E	49		5.3	5.1	1.3	78	地中海 Mediterranean Sea
	12	10									
908	12	03-25-48.9	27.51N	101.18E	13	2.5			2.8	5	云南省 Yunnan Province
	12	11									
909	12	14-15-55.6	40.36N	142.40E	79			4.6	2.0	15	本州岛 Honshu
	12	22									
910	12	19-30-00.4	5.03N	94.15E	46	4.5		4.8	1.2	41	北苏门答腊西海岸远海 Off west coast of Northern Sumatera
	13	03									
911	12	19-59-29.9	10.74S	162.47E	111			5.1	1.3	30	所罗门群岛 Solomon Islands
	13	03									
912	13	08-06-40.9	37.21S	78.22E	11	5.6	5.7	5.8	5.3	1.9	63 中印度洋海丘 Mid-Indian Rise
	13	16									
913	13	09-11-00.2	16.89S	179.16W	517			5.0	1.6	41	斐济地区 Fiji region
	13	17									
914	13	10-34-57.5	11.58S	117.63E	32			4.9	2.0	19	松巴哇以南地区 South of Sumbawa
	13	18									
915	13	15-05-14.5	32.75N	104.02E	15	3.3			2.8	14	四川省 Sichuan Province
	13	23									
916	13	15-58-51.3	15.15S	167.32E	145			4.6	0.6	6	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	13	23									
917	13	17-18-42.6	7.10S	124.76E	515			5.0	1.1	42	班达海 Banda Sea
	14	01									
918	13	21-43-56.6	6.24S	103.82E	33			4.3	0.8	12	苏门答腊西南以远地区 South-west of Sumatera
	14	05									
919	14	02-08-13.3	18.85N	146.97E	22	6.1	6.1	6.1	5.7	1.1	95 马里亚纳群岛 Marianas
	14	10									
920	14	02-25-23.4	19.00N	147.07E	35			5.0	1.0	26	马里亚纳群岛 Marianas
	14	10									
921	14	03-04-11.8	18.85N	146.98E	50			4.9	1.5	58	马里亚纳群岛 Marianas
	14	11									
922	14	03-11-20.4	18.84N	146.98E	39	5.0	5.0	5.0	1.8	74	马里亚纳群岛 Marianas
	14	11									
923	14	03-51-09.8	18.79N	146.81E	34	4.4		4.9	1.4	30	马里亚纳群岛 Marianas
	14	11									
924	14	03-53-57.2	18.83N	147.00E	33	4.6		5.1	1.1	36	马里亚纳群岛 Marianas
	14	11									
925	14	04-35-20.0	18.92N	147.17E	36			4.7	2.0	22	马里亚纳群岛 Marianas
	14	12									
926	14	05-21-04.8	18.85N	147.17E	59	4.8		5.1	1.5	53	马里亚纳群岛 Marianas
	14	13									
927	14	06-10-47.5	18.90N	147.21E	23	5.5	5.8	5.2	5.2	1.5	91 马里亚纳群岛 Marianas
	14	14									
928	14	12-22-04.5	42.33N	79.57E	20	3.6			1.6	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	14	20									
929	14	13-12-20.6	48.09N	147.09E	445		4.9	4.6	1.3	82	千岛群岛西北以远地区 North-west of Kurile Islands
	14	21									
930	14	17-20-38.9	58.34S	25.14W	34	5.5	5.1	5.5	2.4	72	南桑德韦奇群岛地区 South Sandwich Islands region
	15	01									



931	14	19-10-15.7	18.99N	147.12E	33				4.0	1.0	14	马里亚纳群岛 Marianas
	15	03										
932	14	21-25-48.9	11.83N	142.38E	33	4.1			4.8	1.3	31	加罗林群岛西部 Western Caroline Islands
	15	05										
933	14	22-33-56.5	1.08N	128.77E	35	4.6			4.4	5.1	1.6	65 查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	15	06										
934	15	02-43-44.0	40.91N	141.29E	114				4.5	1.5	55	本州岛 Honshu
	15	10										
935	15	04-53-49.5	20.60N	120.13E	27	4.2	3.7		4.6	2.6	54	菲律宾群岛地区 Philippine Islands region
	15	12										
936	15	18-32-07.8	31.00N	130.44E	193			4.9	4.8	1.5	55	九州岛 Kyushu
	16	02										
937	15	20-45-56.9	1.13S	127.52E	32	4.8		5.4	4.6	5.4	2.1	82 查伊洛洛贾洛洛(哈马黑拉)岛 Djailolo Gilolo (Halmahera)
	16	04										
938	15	21-51-54.0	35.98N	77.47E	20		4.2				3.8	7 克什米尔东部 Eastern Kashmir
	16	05										
939	15	21-56-40.2	19.00N	146.95E	36				4.9	1.4	43	马里亚纳群岛 Marianas
	16	05										
940	15	23-19-39.7	18.88N	147.19E	35				4.4	1.2	19	马里亚纳群岛 Marianas
	16	07										
941	16	01-10-22.0	54.98N	157.99E	339			5.0	5.0	0.7	75	堪察加半岛 Kamchatka
	16	09										
942	16	04-06-21.5	36.59N	105.64E	13		2.8				1.6	6 中国北部 Northern China
	16	12										
943	16	06-38-37.6	20.02N	145.83E	73				4.9	1.7	63	马里亚纳群岛 Marianas
	16	14										
944	16	07-01-51.1	1.87N	127.15E	123				5.1	2.3	43	马鲁古海峡 Molucca Passage
	16	15										
945	16	08-46-58.8	18.88N	147.21E	35				4.4	1.0	21	马里亚纳群岛 Marianas
	16	16										
946	16	12-14-53.8	10.67N	125.90E	86			5.0	4.8	1.5	63	莱特岛 Leyte
	16	20										
947	16	13-23-38.0	22.27S	171.86E	26	5.6		5.7	5.7	5.6	1.3	79 洛亚尔提群岛地区 Loyalty Islands region
	16	21										
948	16	19-23-24.0	37.06N	141.39E	49	5.8		6.0	5.7	1.5	97	本州东海岸近海 Near east coast of Honshu
	17	03										
949	16	22-03-09.9	22.15N	144.34E	66	4.5			5.1	1.1	80	马里亚纳群岛地区 Marianas region
	17	06										
950	17	00-12-24.7	8.98N	124.07E	558			4.8	5.3	1.1	91	棉兰老岛 Mindanao
	17	08										
951	17	00-33-48.1	15.36N	145.97E	108			5.7	5.3	1.6	79	马里亚纳群岛 Marianas
	17	08										
952	17	01-03-07.3	49.87N	78.65E	24	4.9	5.9	5.5	4.3	6.0	1.1	94 哈萨克东部 Eastern Kazakhstan
	17	09										
953	17	05-10-47.9	24.27N	122.13E	15	4.4	4.6		4.7	1.9	72	台湾岛 Taiwan
	17	13										
954	17	05-14-31.3	20.36S	174.28W	92				5.1	1.9	23	汤加 Tonga
	17	13										
955	17	07-33-39.1	35.68N	140.11E	78	4.2		5.0	5.1	1.5	87	本州南海岸近海 Near south coast of Honshu
	17	15										
956	17	08-33-35.3	17.23S	173.10W	37				4.7	5.3	1.3	41 汤加 Tonga
	17	16										



957	17	13-13-08.3	29.57N	101.96E	10	2.8		1.8	5	四川省	
	17	21								Sichuan Province	
958	17	15-37-06.2	39.33N	72.72E	25	4.5	4.1	4.0	2.7	23 塔吉克	
	17	23								Tadzhikistan	
959	17	15-47-18.6	37.08N	104.41E	20	2.8		1.3	7	甘肃省	
	17	23								Gansu Province	
960	17	19-39-48.6	4.08S	152.54E	145			5.0	1.9	35 新不列颠地区	
	18	03								New Britain region	
961	17	20-10-52.8	23.46N	114.68E	10	3.4		2.4	12	中国东南沿海	
	18	04								Near south-eastern coast of China	
962	17	21-24-03.0	2.59S	138.98E	81			4.4	1.3	28 西伊里安	
	18	05								West Irian	
963	17	23-57-53.6	42.47N	80.19E	26	3.5		2.8	6	吉尔吉斯——新疆边境地区	
	18	07								Kirgiziya-Xinjiang border region	
964	18	00-03-12.9	33.57N	132.02E	99			4.7	1.9	41 九州岛	
	18	08								Kyushu	
965	18	01-08-15.4	37.36N	142.76E	27	4.6		4.9	1.8	79 本州东海岸远海	
	18	09								Off east coast of Honshu	
966	18	02-01-36.1	61.58N	150.93W	60	5.0		5.7	0.7	96 阿拉斯加州南部	
	18	10								Southern Alaska	
967	18	05-36-28.8	6.69S	154.54E	24		5.5	4.5	5.0	1.3	65 所罗门群岛
	18	13									Solomon Islands
968	18	12-49-36.2	23.97N	121.82E	28	4.5	4.8	5.0	1.7	76 台湾岛	
	18	20									Taiwan
969	18	13-39-59.9	37.23N	116.53W	10			4.0	5.5	1.5	59 加利福尼亚州——内华达州边境地区
	18	21									California-Nevada border region
970	18	13-41-35.2	44.05N	114.14E	7	3.2			2.6	6	中国东北部
	18	21									North-Eastern China
971	18	15-48-42.8	23.51N	114.64E	10	3.2			2.7	9	中国东南沿海
	18	23									Near south-eastern coast of China
972	18	16-59-48.6	22.43N	79.26E	32			4.9	1.4	48	印度
	19	00									India
973	18	17-42-18.0	23.46N	114.65E	11	3.3			3.2	8	中国东南沿海
	19	01									Near south-eastern coast of China
974	18	19-31-02.7	23.70N	114.51E	10	3.1			3.3	7	中国东南沿海
	19	03									Near south-eastern coast of China
975	18	20-48-27.1	34.54N	80.17E	32	4.8	4.7	4.7	4.6	2.1	50 克什米尔——西藏边境地区
	19	04									Kashmir-Tibet border region
976	18	20-53-41.5	13.50N	146.01E	62	5.0		5.0	5.1	1.1	71 马里亚纳群岛
	19	04									Marianas
977	18	21-22-45.3	23.96N	121.80E	26	3.9		3.9	2.3	28	台湾岛
	19	05									Taiwan
978	19	03-10-21.7	29.92N	141.82E	41			4.3	2.5	16	本州以南地区
	19	11									South of Honshu
979	19	14-52-41.5	2.96S	129.56E	47	4.4		4.9	1.7	36	斯兰岛
	19	22									Seram
980	20	08-21-52.1	42.02N	142.69E	80			4.6	1.6	22	北海道地区
	20	16									Hokkaido region
981	20	09-31-38.7	21.85S	179.02W	594		5.4	5.4	1.5	75	斐济以南地区
	20	17									South of Fiji
982	20	09-31-58.3	6.97S	120.39E	471			4.5	2.5	12	佛罗勒斯海
	20	17									Flores Sea



983	20	10-09-09.0	37.47N	141.60E	57	4.1					5.0	1.7	78	本州东海岸近海 Near east coast of Honshu
	20	18												
984	20	12-43-12.2	4.80N	94.47E	64						4.3	1.1	23	北苏门答腊西海岸远海 Off west coast of Northern Sumatera
	20	20												
985	20	17-17-14.6	21.74N	120.32E	45	3.7					4.1	2.0	28	台湾地区 Taiwan region
	21	01												
986	21	01-52-37.9	2.63N	126.89E	33						4.6	1.0	12	马鲁古海峡 Molucca Passage
	21	09												
987	21	03-37-36.9	10.20S	161.26E	101						5.0	1.0	52	所罗门群岛 Solomon Islands
	21	11												
988	21	12-55-07.9	1.25S	149.85E	34						4.2	3.5	11	新爱尔兰地区 New Ireland region
	21	20												
989	21	14-12-02.4	8.22S	116.40E	179						4.8	0.9	20	巴厘地区 Bali region
	21	22												
990	21	14-17-13.6	40.62N	87.24E	25	3.7						2.6	8	新疆维吾尔自治区南部 Southern Xinjiang Province
	21	22												
991	21	14-58-19.5	36.28N	71.05E	36	4.8					4.6	2.1	32	兴都库什地区 Hindu Kush region
	21	22												
992	21	15-28-43.5	22.75S	170.26E	43	5.8	6.3	6.0	6.0	1.1			94	洛亚尔提群岛地区 Loyalty Islands region
	21	23												
993	21	17-20-39.4	39.57N	118.51E	17	3.4						2.7	16	中国东北部 North-Eastern China
	22	01												
994	22	02-11-10.5	36.89N	141.72E	61						4.4	1.6	21	本州东海岸近海 Near east coast of Honshu
	22	10												
995	22	09-02-32.0	40.40N	122.19E	25	3.0						4.9	5	中国东北部 North-Eastern China
	22	17												
996	22	14-26-52.3	3.82S	135.58E	32						3.8	1.2	19	西伊里安地区 West Irian region
	22	22												
997	22	16-06-47.2	50.57N	172.62W	33						5.0	0.8	38	安德烈亚诺夫群岛 Andreasnof Islands
	23	00												
998	22	16-20-12.8	23.78S	179.42E	604						4.2	1.0	14	斐济以南地区 South of Fiji
	23	00												
999	22	17-23-05.5	50.60S	138.71E	5						4.8	1.2	9	澳大利亚以南地区 South of Australia
	23	01												
1000	22	20-13-23.4	37.11N	141.35E	42	6.6	6.5	6.6	6.1	1.4			101	本州东海岸近海 Near east coast of Honshu
	23	04												
1001	22	20-40-10.0	24.25N	116.33E	19	3.0						2.2	8	中国东南沿海 Near south-eastern coast of China
	23	04												
1002	22	22-42-58.9	20.50N	121.30E	33	3.5					4.5	2.3	25	菲律宾群岛地区 Philippine Islands region
	23	06												
1003	23	03-45-24.3	37.33N	71.35E	19	4.3						5.0	5	兴都库什地区 Hindu Kush region
	23	11												
1004	23	05-54-53.1	5.52N	126.37E	93		5.2				5.2	1.5	80	棉兰老岛 Mindanao
	23	13												
1005	23	07-56-21.3	8.23S	75.37W	16	5.5					5.0	3.1	20	秘鲁 Peru
	23	15												
1006	23	08-10-17.2	43.71N	82.71E	27	2.9						3.7	6	新疆维吾尔自治区北部 Northern Xinjiang Province
	23	16												
1007	23	08-22-00.2	18.85N	147.09E	35	4.5					4.3	2.2	25	马里亚纳群岛 Marianas
	23	16												
1008	23	09-05-55.1	27.88N	87.10E	46	4.7					4.7	1.7	40	尼泊尔 Nepal
	23	17												



1009	23	12-14-28.2	43.56N	83.13E	13	3.6		3.3	9	新疆自治区北部 Northern Xinjiang Province	
	23	20									
1010	23	12-25-12.8	23.29S	115.07W	9		4.5	4.9	2.3	15 复活节岛海山 Easter Island Cordillera	
	23	20									
1011	23	16-39-24.7	5.84N	125.87E	152		5.4	5.3	1.6	88 棉兰老岛 Mindanao	
	24	00									
1012	23	16-50-03.2	25.48S	179.53E	494		5.5	5.4	0.8	72 斐济以南地区 South of Fiji	
	24	00									
1013	23	17-06-03.3	24.06N	123.61E	51	3.7	3.4		4.5	1.7	26 琉球群岛西南部 South-western Ryukyu Islands
	24	01									
1014	23	18-45-21.8	23.28N	93.89E	32				2.5		6 缅甸——印度边境地区 Burma-India border region
	24	02									
1015	23	19-26-39.3	21.57S	174.05W	42				4.9	1.6	22 汤加地区 Tonga region
	24	03									
1016	23	20-40-44.1	24.04N	121.80E	31	4.1	4.2		4.2	2.1	49 台湾岛 Taiwan
	24	04									
1017	24	04-32-11.3	37.25N	141.36E	62	3.9			4.6	1.5	52 本州东海岸近海 Near east coast of Honshu
	24	12									
1018	24	05-47-08.9	47.21N	83.67E	15		4.4			3.0	11 哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	24	13									
1019	24	08-52-05.4	27.35N	129.56E	32	4.6			4.2	2.3	19 琉球群岛 Ryukyu Islands
	24	16									
1020	24	09-19-18.1	11.11N	93.43E	124				4.2	2.7	19 安达曼群岛地区 Andaman Islands region
	24	17									
1021	24	10-21-09.7	46.60N	83.49E	19		2.9			2.9	6 哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	24	18									
1022	24	12-41-03.9	5.77S	127.69E	388			5.4	5.4	0.9	94 班达海 Banda Sea
	24	20									
1023	24	22-25-31.0	36.52N	70.40E	207				4.3	1.0	22 兴都库什地区 Hindu Kush region
	25	06									
1024	25	04-02-08.4	8.42S	77.10W	75				4.8	2.2	14 秘鲁 Peru
	25	12									
1025	25	08-08-59.2	6.77N	126.11E	75	4.6	5.3		5.1	1.9	80 棉兰老岛 Mindanao
	25	16									
1026	25	08-19-13.4	19.94N	121.39E	34		3.8		4.4	2.0	29 菲律宾群岛地区 Philippine Islands region
	25	16									
1027	25	09-33-20.4	58.41N	164.11E	32				4.6	0.9	16 堪察加东海岸近海 Near east coast of Kamchatka
	25	17									
1028	25	12-16-47.8	15.93N	120.43E	103			6.8	5.6	1.3	106 吕宋岛 Luzon
	25	20									
1029	25	17-02-38.1	34.21N	103.27E	20		3.6			2.5	15 四川省 Sichuan Province
	26	01									
1030	25	18-34-55.9	37.24N	141.66E	62				4.2	1.5	21 本州东海岸近海 Near east coast of Honshu
	26	02									
1031	25	19-09-40.7	19.13S	169.48E	260				4.7	1.4	22 瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	26	03									
1032	25	19-22-06.3	2.21N	98.80E	12	7.1	6.2	6.6	5.9	1.6	97 苏门答腊北部 Northern Sumatra
	26	03									
1033	25	21-45-11.5	46.94N	153.83E	21	4.9	5.3		5.2	1.3	68 千岛群岛 Kurile Islands
	26	05									
1034	25	22-29-56.2	47.48N	153.28E	55				4.6	1.8	22 千岛群岛 Kurile Islands
	26	06									



1035	26	06-21-27.2	12.32S	166.64E	80		4.9	1.3	48	圣克鲁斯群岛		
	26	14								Santa Cruz Islands		
1036	26	07-50-53.4	17.27S	174.81W	279		5.5	5.4	1.5	75 汤加		
	26	15								Tonga		
1037	26	09-05-52.6	38.03N	99.49E	15		2.8		3.2	6 青海省		
	26	17								Qinghai Province		
1038	26	11-57-31.1	40.60N	122.77E	15		2.9		2.1	7 中国东北部		
	26	19								North-Eastern China		
1039	26	15-47-40.4	57.32S	24.42W	32		5.9	5.7	5.2	2.5	45 南桑德韦奇群岛地区	
	26	23									South Sandwich Islands region	
1040	26	20-02-06.5	31.96N	139.76E	159		5.1	5.2	1.3	86 本州以南地区		
	27	04									South of Honshu	
1041	26	20-07-35.9	39.83N	73.71E	10		4.0		5.1	7 塔吉克——新疆边境地区		
	27	04									Tadzhikistan-Xinjiang border region	
1042	26	20-35-27.6	23.38N	121.66E	18		4.4	4.3	4.5	2.1	41 台湾地区	
	27	04									Taiwan region	
1043	26	21-15-24.7	38.21N	94.19E	16		4.2		2.1	13 青海省		
	27	05									Qinghai Province	
1044	27	04-38-36.6	3.08S	101.47E	54		4.8	5.5	5.3	1.9	70 苏门答腊南部	
	27	12									Southern Sumatra	
1045	27	04-53-48.2	44.48N	149.60E	36			4.7	1.3	31 千岛群岛地区		
	27	12									Kurile Islands region	
1046	27	05-23-35.5	27.63N	139.97E	483			4.7	1.0	70 小笠原群岛地区		
	27	13									Bonin Islands region	
1047	27	06-20-46.1	6.03S	130.49E	149		5.5	5.2	0.8	74 班达海		
	27	14									Banda Sea	
1048	27	07-45-44.0	4.80S	153.72E	100			5.2	1.1	51 新爱尔兰地区		
	27	15									New Ireland region	
1049	27	10-09-54.7	45.66N	130.03E	13		2.9		4.1	7 中国东北部		
	27	18									North-Eastern China	
1050	27	11-47-35.8	40.58N	79.77E	22		3.8		4.1	9 新疆自治区南部		
	27	19									Southern Xinjiang Province	
1051	27	11-35-50.0	9.43S	125.15E	33			5.1	1.8	28 帝汶岛		
	27	19									Timor	
1052	27	12-13-38.4	13.43N	124.18E	143			4.5	1.4	12 吕宋岛		
	27	20									Luzon	
1053	27	12-39-58.4	52.07N	159.79E	31		5.4	4.1	4.5	1.5	55 堪察加东海岸远海	
	27	20									Off east coast of Kamchatka	
1054	27	13-56-22.9	33.25N	103.63E	14		2.7		3.6	5 四川省		
	27	21									Sichuan Province	
1055	27	16-58-57.0	37.80N	142.57E	25		5.1	5.2	5.1	5.1	1.4	94 本州东海岸远海
	28	00										Off east coast of Honshu
1056	27	21-47-45.1	16.38S	174.09W	10			4.7	4.8	2.1	27 汤加	
	28	05										Tonga
1057	28	00-01-16.8	38.72S	47.38E	10			4.4	5.1	0.8	21 大西洋——印度洋海岭	
	28	08										Atlantic-Indian Ridge
1058	28	02-11-06.0	5.20S	68.89E	6		4.7	4.7	4.9	1.8	48 查戈斯群岛地区	
	28	10										Chagos Archipelago region
1059	28	13-27-10.1	3.38S	134.49E	34			4.9	0.9	33 西伊里安地区		
	28	21										West Irian region
1060	28	15-32-30.6	2.05N	99.06E	25		6.1	5.6	5.6	5.6	1.6	94 苏门答腊北部
	28	23										Northern Sumatra



1061	28	18-55-20.2	57.88N	32.62W	10		4.3	4.2	0.9	13	北大西洋		
	29	02									North Atlantic Ocean		
1062	28	22-41-33.2	27.65N	56.02E	29	5.1		4.5	2.1	12	伊朗南部		
	29	06									Southern Iran		
1063	28	22-44-32.5	1.98N	99.05E	32	4.9		4.9	1.7	28	苏门答腊北部		
	29	06									Northern Sumatera		
1064	28	23-03-11.2	2.84N	65.83E	7			4.9	1.0	22	卡尔斯伯格海岭		
	29	07									Carlsberg Ridge		
1065	29	01-45-22.8	27.60N	56.03E	15	5.6	5.9	5.3	5.9	0.9	94	伊朗南部	
	29	09										Southern Iran	
1066	29	05-15-34.5	24.11N	94.57E	105		5.3	5.1	1.8	76	缅甸——印度边境地区		
	29	13										Burma-India border region	
1067	29	14-27-35.9	19.00S	177.70W	391		6.3	5.9	1.0	81	斐济地区		
	29	22										Fiji region	
1068	29	19-43-26.2	35.46N	77.73E	15	3.9				2.8	9	克什米尔东部	
	30	03										Eastern Kashmir	
1069	29	21-41-35.8	1.76N	99.47E	184			4.5	2.9	12	苏门答腊北部		
	30	05										Northern Sumatera	
1070	30	01-10-31.5	28.34N	129.56E	30	4.6	5.0	5.0	2.0	65	琉球群岛		
	30	09										Ryukyu Islands	
1071	30	01-34-04.4	43.18N	86.68E	31	3.1				3.6	5	新疆自治区北部	
	30	09										Northern Xinjiang Province	
1072	30	02-40-03.6	3.18S	138.75E	44	5.0	5.3	5.2	5.3	1.0	78	西伊里安	
	30	10										West Irian	
1073	30	03-42-34.1	39.45N	124.18E	13	4.0				2.7	16	中国东北部	
	30	11										North-Eastern China	
1074	30	05-17-38.9	39.78N	74.53E	26	5.8	6.0	5.8	5.6	5.7	1.3	92	新疆自治区南部
	30	13											Southern Xinjiang Province
1075	30	06-27-39.5	39.77N	74.15E	12	4.3				3.4	10	塔吉克——新疆边境地区	
	30	14											Tadzhikistan-Xinjiang border region
1076	30	06-54-57.3	39.76N	74.47E	16	4.3	4.3	4.3	2.1	24	塔吉克——新疆边境地区		
	30	14											Tadzhikistan-Xinjiang border region
1077	30	10-35-56.3	34.41N	100.32E	20	3.4	3.6			3.0	14	青海省	
	30	18											Qinghai Province
1078	30	10-53-35.1	34.40N	100.43E	19	3.8	3.8			3.0	19	青海省	
	30	18											Qinghai Province
1079	30	13-01-20.4	32.41N	132.34E	56	4.4		4.6	1.7	56	九州岛		
	30	21											Kyushu
1080	30	13-29-59.5	37.28N	116.32W	8			4.4	5.5	0.9	44	加利福尼亚州——内华达州边境地区	
	30	21											California-Nevada border region
1081	30	13-46-05.8	37.10N	141.51E	33	4.3		4.9	1.5	69	本州东海岸近海		
	30	21											Near east coast of Honshu
1082	30	19-30-31.6	6.37S	131.03E	82			5.1	0.9	61	班达海		
	1	03											Banda Sea
1083	30	21-20-07.8	2.13N	99.02E	54	4.9		4.0	4.7	1.9	33	苏门答腊北部	
	1	05											Northern Sumatera
May 1987													
1084	1	04-32-29.9	25.07N	104.27E	5	3.1				4.5	5	云南省	
	1	12											Yunnan Province
1085	1	06-52-10.5	35.53N	140.89E	55	4.2				2.3	49	本州东海岸近海	
	1	14											Near east coast of Honshu



1086	1	10-57-39.2	37.66N	102.67E	4	2.8				2.3	6	甘肃省 Gansu Province	
	1	18											
1087	1	16-42-43.7	24.33N	120.29E	14	2.7				2.7	9	台湾地区 Taiwan region	
	2	00											
1088	1	23-06-15.4	37.17N	141.76E	40	4.8		5.1	5.0	1.6	84	本州东海岸近海 Near east coast of Honshu	
	2	07											
1089	2	08-10-38.9	33.61N	103.96E	14	3.8	3.9			3.1	20	甘肃省 Gansu Province	
	2	16											
1090	2	12-48-25.1	31.43N	141.83E	36				4.4	1.8	21	本州以南地区 South of Honshu	
	2	20											
1091	2	13-58-48.6	7.48S	128.13E	183				4.7	2.5	11	班达海 Banda Sea	
	2	21											
1092	2	18-16-59.6	6.08N	125.96E	144				5.0	1.1	27	棉兰老岛 Mindanao	
	3	02											
1093	2	19-21-28.4	54.98N	160.15W	31	5.0		5.7	4.6	5.1	0.9	85	阿拉斯加半岛 Alaska Peninsula
	3	03											
1094	2	20-43-52.5	44.72N	10.55E	13				4.8	2.6	27	意大利北部 Northern Italy	
	3	04											
1095	2	21-38-29.0	39.82N	74.22E	13	4.1				2.9	14	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	3	05											
1096	3	00-39-22.8	37.86N	68.46E	33	4.3			4.3	2.4	21	阿富汗——苏联边境地区 Afghanistan-USSR border region	
	3	08											
1097	3	01-55-56.1	37.05N	141.55E	64				4.6	2.2	33	本州东海岸近海 Near east coast of Honshu	
	3	09											
1098	3	10-28-06.5	24.09N	118.97E	19	3.2				3.2	7	台湾地区 Taiwan region	
	3	18											
1099	3	11-35-17.7	25.24S	178.48E	598				5.4	0.8	61	斐济以南地区 South of Fiji	
	3	19											
1100	3	12-26-53.7	49.39S	164.28E	25			4.6	5.5	1.1	14	奥克兰群岛地区 Auckland Islands region	
	3	20											
1101	3	14-34-28.2	41.92N	84.08E	13	3.5				2.0	10	新疆自治区南部 Southern Xinjiang Province	
	3	22											
1102	3	15-46-07.2	37.97N	102.10E	11	3.2				1.6	8	青海省 Qinghai Province	
	3	23											
1103	3	16-46-10.7	20.81S	178.54W	575			5.6	5.4	0.7	70	斐济地区 Fiji region	
	4	00											
1104	3	17-21-22.7	28.46N	127.74E	222			5.5	5.3	1.6	90	琉球群岛 Ryukyu Islands	
	4	01											
1105	3	23-18-54.8	34.18N	103.43E	3	3.5				3.0	12	四川省 Sichuan Province	
	4	07											
1106	4	06-24-33.4	2.08N	126.58E	62				5.2	1.4	64	马鲁古海峡 Molucca Passage	
	4	14											
1107	4	06-29-35.7	4.50S	137.30E	33				5.2	1.4	32	西伊里安地区 West Irian region	
	4	14											
1108	4	09-47-46.3	37.58N	72.28E	192				4.5	1.5	28	阿富汗——苏联边境地区 Afghanistan-USSR border region	
	4	17											
1109	4	10-22-55.6	28.79N	131.63E	37	4.3			4.8	1.9	53	琉球群岛地区 Ryukyu Islands region	
	4	18											
1110	4	17-04-15.2	43.90N	145.95E	30	4.5		4.4	4.9	1.9	58	北海道地区 Hokkaido region	
	5	01											
1111	4	17-37-43.1	28.31S	176.58W	81			5.7	4.9	1.9	24	克马德克群岛地区 Kermadec Islands region	
	5	01											



1112	4	19-06-52.5	21.86N	121.70E	30	4.4	3.8	4.4	2.3	53	台湾地区 Taiwan region
	5	03									
1113	4	23-17-20.7	46.95N	27.41W	10	5.4		5.2	4.9	1.7	37 北大西洋海岭 North Atlantic Ridge
	5	07									
1114	5	00-31-17.2	28.17S	176.38W	32			5.0	0.9	25	克马德克群岛地区 Kermadec Islands region
	5	08									
1115	5	04-04-07.6	34.48N	104.61E	14		3.8			3.3	23 甘肃省 Gansu Province
	5	12									
1116	5	04-33-44.0	45.00N	93.79E	14		3.9			2.4	11 新疆自治区北部 Northern Xinjiang Province
	5	12									
1117	5	05-19-42.4	37.29N	141.41E	90			4.7	2.0	51	本州东海岸近海 Near east coast of Honshu
	5	13									
1118	5	10-40-44.1	42.56N	46.79E	32			4.6	1.7	25	高加索东部 Eastern Caucasus
	5	18									
1119	5	15-40-46.9	36.52N	70.59E	203		5.9	5.8	1.1	96	兴都库什地区 Hindu Kush region
	5	23									
1120	5	18-10-26.4	2.36S	128.26E	35			4.6	2.2	41	斯兰海 Ceram Sea
	6	02									
1121	5	21-34-15.3	6.17S	147.02E	114			4.6	1.7	20	新几内亚东部地区 Eastern New Guinea region
	6	05									
1122	6	01-47-29.6	28.82N	103.68E	14		2.5			2.5	5 四川省 Sichuan Province
	6	09									
1123	6	04-02-07.1	49.81N	78.00E	16		5.5	5.6	1.4	64	哈萨克东部 Eastern Kazakhstan
	6	12									
1124	6	04-06-13.2	51.29N	179.91W	20	6.6	6.6	6.4	6.3	1.2	100 安德烈亚诺夫群岛 Andreanof Islands
	6	12									
1125	6	04-18-24.0	51.29N	179.77W	32			5.2	1.0	29	安德烈亚诺夫群岛 Andreanof Islands
	6	12									
1126	6	05-16-15.9	51.37N	179.94W	33			4.9	1.0	29	安德烈亚诺夫群岛 Andreanof Islands
	6	13									
1127	6	09-10-35.7	35.06N	106.78E	18		3.1			1.5	8 甘肃省 Gansu Province
	6	17									
1128	6	12-39-49.2	5.56S	152.76E	24	6.0	6.0	6.2	5.9	2.1	91 新不列颠地区 New Britain region
	6	20									
1129	6	19-31-02.8	9.28S	148.52E	16			4.5	5.3	1.7	58 新几内亚东部地区 Eastern New Guinea region
	7	03									
1130	7	01-52-03.9	5.64S	152.87E	23			5.3	1.5	39	新不列颠地区 New Britain region
	7	09									
1131	7	03-05-48.5	46.75N	139.36E	437		6.6	6.0	0.9	98	东俄罗斯东海岸近海 Near east coast of Eastern Russia
	7	11									
1132	7	04-14-44.4	37.65N	102.55E	6		3.1			2.1	8 甘肃省 Gansu Province
	7	12									
1133	7	08-56-52.0	36.70N	26.80E	150			4.9	1.3	46	多德卡尼斯群岛 Dodecanese Islands
	7	16									
1134	7	14-20-24.2	43.56N	148.14E	41			4.7	1.2	37	千岛群岛 Kurile Islands
	7	22									
1135	7	15-22-55.8	28.20N	129.06E	96			4.1	1.9	24	琉球群岛 Ryukyu Islands
	7	23									
1136	7	15-30-06.3	42.01N	84.09E	5		3.3			2.2	10 新疆自治区南部 Southern Xinjiang Province
	7	23									
1137	7	17-51-58.9	41.40N	79.57E	6		3.6			3.5	10 新疆自治区南部 Southern Xinjiang Province
	8	01									



1138	7	21-52-41.1	27.02N	129.44E	38	4.1		4.7	2.9	25	琉球群岛 Ryukyu Islands	
	8	05										
1139	7	22-12-17.6	8.88N	126.31E	68			4.5	2.8	26	棉兰老岛 Mindanao	
	8	06										
1140	8	03-09-39.7	5.55S	146.08E	58			5.0	1.0	66	新几内亚 New Guinea	
	8	11										
1141	8	07-39-08.1	5.47S	152.82E	49		4.2	5.2	1.4	50	新不列颠地区 New Britain region	
	8	15										
1142	8	09-17-00.2	23.62N	120.52E	14	3.1			2.0	8	台湾岛 Taiwan	
	8	17										
1143	8	12-49-42.1	4.19S	152.73E	129			5.2	1.0	49	新不列颠地区 New Britain region	
	8	20										
1144	8	18-20-22.7	26.17N	100.53E	14	3.9			3.0	13	云南省 Yunnan Province	
	9	02										
1145	8	19-45-32.1	18.18N	119.79E	22	4.5	3.9	4.4	2.1	46	菲律宾群岛地区 Philippine Islands region	
	9	03										
1146	8	19-54-27.1	26.11N	100.57E	17	3.6			2.9	13	云南省 Yunnan Province	
	9	03										
1147	8	20-35-57.1	9.81N	126.21E	50	4.4	5.2	4.5	5.0	1.5	66	棉兰老岛 Mindanao
	9	04										
1148	8	23-45-32.4	23.06N	119.10E	16	2.9			3.1	13	台湾地区 Taiwan region	
	9	07										
1149	9	03-54-31.7	34.05N	135.66E	20	4.9	5.5	4.7	5.1	1.8	73	本州南部南海岸近海 Near south coast of Southern Honshu
	9	11										
1150	9	06-32-35.1	11.28S	165.76E	48	5.3	5.7	5.3	5.5	1.3	87	圣克鲁斯群岛 Santa Cruz Islands
	9	14										
1151	9	08-05-37.5	19.33N	145.64E	152		5.3	5.3	1.8	86	马里亚纳群岛 Marianas	
	9	16										
1152	9	10-12-14.3	35.14N	80.10E	5	4.4			3.5	7	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	9	18										
1153	9	16-51-22.3	36.32N	141.56E	33	5.1	5.4	5.0	5.2	1.8	93	本州东海岸近海 Near east coast of Honshu
	10	00										
1154	9	19-04-37.4	26.41N	99.55E	15	3.8			3.2	11	云南省 Yunnan Province	
	10	03										
1155	10	00-37-09.0	7.73S	116.11E	40	5.0	5.4	4.6	5.3	1.7	77	巴厘地区 Bali region
	10	08										
1156	10	03-23-23.2	36.59N	71.12E	245			4.5	1.5	43	兴都库什地区 Hindu Kush region	
	10	11										
1157	10	03-36-21.4	36.87N	82.85E	11	4.5		4.6	2.5	15	新疆维吾尔自治区南部 Southern Xinjiang Province	
	10	11										
1158	10	05-10-34.3	27.43N	86.69E	16				2.5	6	尼泊尔——印度边境地区 Nepal-India border region	
	10	13										
1159	10	05-12-27.8	25.84N	98.51E	7	3.4			2.8	6	缅甸——中国边境地区 Burma-China border region	
	10	13										
1160	10	09-39-05.6	51.35N	179.87W	33			5.0	1.3	39	安德烈亚诺夫群岛 Andreanof Islands	
	10	17										
1161	10	10-45-06.2	6.54N	145.35E	31			4.6	1.5	31	加罗林群岛地区 Caroline Islands region	
	10	18										
1162	10	12-23-17.3	37.55N	141.85E	37	4.3		4.6	5.1	1.4	76	本州东海岸近海 Near east coast of Honshu
	10	20										
1163	10	15-16-21.6	30.86S	65.39W	168			5.4	1.7	39	阿根廷科尔多瓦省 Cordoba Province, Argentina	
	10	23										



1164	10	20-19-29.5	44.20N	79.53E	16	4.4	4.5	4.5	2.9	27	阿拉木图地区 Alma-Ata region
	11	04									
1165	10	20-47-55.0	25.82N	98.52E	5		3.5		2.0	6	缅甸——中国边境地区 Burma-China border region
	11	04									
1166	10	21-35-18.0	34.97N	139.70E	34	4.5		4.2	4.6	2.4	39 本州南海岸近海 Near south coast of Honshu
	11	05									
1167	10	21-38-15.3	32.88N	104.25E	14	3.7	4.1			3.0	23 四川省 Sichuan Province
	11	05									
1168	11	02-37-43.6	20.40S	178.30W	568			5.3	0.9	60	斐济地区 Fiji region
	11	10									
1169	11	05-19-10.2	51.76N	105.57E	26	4.9		4.2	5.0	2.2	52 贝加尔湖地区 Lake Baykal region
	11	13									
1170	11	06-56-38.0	34.88N	139.86E	47	4.3		4.6	2.9	37	本州南海岸近海 Near south coast of Honshu
	11	14									
1171	11	07-47-39.4	14.59S	167.33E	164			5.1	0.8	59	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	11	15									
1172	11	09-21-40.2	32.78N	104.42E	10		3.5			2.5	12 四川省 Sichuan Province
	11	17									
1173	11	09-59-33.5	4.42N	127.93E	97		6.3	5.9	1.2	95	塔劳群岛 Talaud Islands
	11	17									
1174	11	10-14-27.1	7.29S	129.06E	124			4.4	1.3	25	班达海 Banda Sea
	11	18									
1175	11	14-12-26.7	32.89N	104.23E	14		3.7			2.4	20 四川省 Sichuan Province
	11	22									
1176	11	14-51-27.5	38.63N	143.34E	35	4.1		4.7	1.8	52	本州东海岸近海 Near east coast of Honshu
	11	22									
1177	11	16-05-19.6	21.79N	144.65E	32			4.9	1.1	21	马里亚纳群岛地区 Marianas region
	12	00									
1178	11	18-12-52.3	7.07S	129.17E	161			5.2	1.0	55	班达海 Banda Sea
	12	02									
1179	11	20-09-59.6	3.03S	147.57E	5	4.8		5.0	1.9	34	俾斯麦海 Bismarck Sea
	12	04									
1180	11	20-51-42.5	38.84N	141.94E	51	5.4	5.7	5.6	1.7	95	本州东海岸近海 Near east coast of Honshu
	12	04									
1181	12	01-03-50.9	43.54N	142.62E	155			4.4	1.1	35	北海道地区 Hokkaido region
	12	09									
1182	12	01-30-24.4	7.23N	126.92E	25	6.3	6.3	6.4	6.2	1.5	97 棉兰老岛 Mindanao
	12	09									
1183	12	04-03-57.3	50.01N	156.42E	45			5.3	1.4	46	千岛群岛 Kurile Islands
	12	12									
1184	12	04-17-10.9	28.63S	176.72W	173			4.5	2.0	21	克马德克群岛 Kermadec Islands
	12	12									
1185	12	07-15-12.1	28.16N	55.52E	40	5.2	5.4	4.9	5.2	1.3	76 伊朗南部 Southern Iran
	12	15									
1186	12	08-16-47.3	43.86N	85.51E	9		3.1			3.3	6 新疆自治区北部 Northern Xinjiang Province
	12	16									
1187	12	12-10-29.9	42.02N	83.56E	9		3.6			3.3	9 新疆自治区南部 Southern Xinjiang Province
	12	20									
1188	12	13-56-26.0	5.25S	151.54E	90		5.9	5.8	1.2	94	新不列颠地区 New Britain region
	12	21									
1189	12	16-12-37.0	21.69S	68.65W	67			5.5	1.9	59	智利北部 Northern Chile
	13	00									



1190	12	20-13-41.8	7.27N	126.90E	81			4.8	1.9	39	棉兰老岛 Mindanao	
	13	04										
1191	12	20-51-22.3	38.84N	142.28E	62			4.7	1.6	52	本州东海岸近海 Near east coast of Honshu	
	13	04										
1192	12	22-22-41.4	48.07N	154.65E	47			4.8	1.7	22	千岛群岛 Kurile Islands	
	13	06										
1193	12	23-06-13.2	37.61N	94.67E	6	3.5		2.5		11	青海省 Qinghai Province	
	13	07										
1194	13	05-11-11.0	35.75N	81.19E	17	4.1		5.0		6	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	13	13										
1195	13	05-37-42.2	27.58N	101.68E	14	3.2		3.0		9	四川省 Sichuan Province	
	13	13										
1196	13	12-34-19.6	15.38N	120.01E	69			4.6	4.4	2.4	25	吕宋岛 Luzon
	13	20										
1197	13	21-27-07.8	6.27S	147.88E	49			4.3	5.1	3.1	38	新几内亚东部地区 Eastern New Guinea region
	14	05										
1198	14	00-24-58.2	34.97N	140.81E	61	4.0		4.7	2.1	46	本州东海岸近海 Near east coast of Honshu	
	14	08										
1199	14	05-05-37.2	51.65N	176.48W	28			3.9	4.7	1.1	26	安德烈亚诺夫群岛 Andreanof Islands
	14	13										
1200	14	12-04-03.1	4.84N	122.84E	612			5.0	0.9	61	西里伯斯海 Celebes Sea	
	14	20										
1201	14	13-52-23.1	39.91N	104.78E	16	2.8				3.8	6	中国北部 Northern China
	14	21										
1202	14	15-31-02.2	22.55N	121.35E	37	4.6	4.7	3.9	5.0	1.6	72	台湾岛 Taiwan
	14	23										
1203	14	16-04-24.6	5.50S	81.27W	21	6.0		5.7	5.7	2.8	76	秘鲁北部海岸近海 Near coast of Northern Peru
	15	00										
1204	14	21-11-35.6	13.57N	120.61E	70			4.6	1.7	34	民都洛岛 Mindoro	
	15	05										
1205	14	22-24-04.3	39.92N	40.09E	48			3.6	4.7	1.8	36	土耳其 Turkey
	15	06										
1206	15	01-45-52.8	19.66S	67.01E	10	5.0		4.8	3.8	21	马斯卡林群岛地区 Mascarene Islands region	
	15	09										
1207	15	03-41-27.8	31.70N	103.57E	16	3.9	4.1	4.5	2.3	42	四川省 Sichuan Province	
	15	11										
1208	15	08-44-02.9	56.42N	153.24W	33			4.5	4.8	0.8	43	阿拉斯加以南地区 South of Alaska
	15	16										
1209	15	11-26-27.6	37.58N	101.92E	12	2.7				4.2	6	青海省 Qinghai Province
	15	19										
1210	15	11-30-30.0	38.72N	116.49E	4	2.5				1.7	5	中国东北部 North-Eastern China
	15	19										
1211	15	13-20-39.2	24.37N	121.34E	1	3.4				1.3	10	台湾岛 Taiwan
	15	21										
1212	15	13-49-13.3	49.58S	115.25W	15			4.8	5.5	2.8	41	复活节岛海山 Easter Island Cordillera
	15	21										
1213	15	18-39-51.1	25.45N	96.50E	22	4.3		4.0	2.3	16	缅甸 Burma	
	16	02										
1214	15	20-15-31.3	19.63S	177.74W	598			4.6	1.6	28	斐济地区 Fiji region	
	16	04										
1215	16	03-34-51.3	7.49S	128.22E	116		5.9	5.4	1.3	79	班达海 Banda Sea	
	16	11										



1216	16	04-10-33.4	26.03N	98.48E	15	4.3		4.1	3.0	22	缅甸——中国边境地区 Burma—China border region	
	16	12										
1217	16	09-29-41.7	48.59N	130.81E	14	3.3		4.5		7	俄罗斯东部——中国东北边境地区 E. Russia—N.E. China border region	
	16	17										
1218	16	13-06-09.2	6.67S	105.27E	69	5.0		5.1	2.2	52	苏门答腊西南以远地区 South-west of Sumatera	
	16	21										
1219	16	16-08-28.4	51.52N	175.76W	32			5.1	1.8	54	安德烈亚诺夫群岛 Andreanof Islands	
	17	00										
1220	16	18-21-08.1	39.53N	73.06E	10	4.0	4.6		2.5	13	吉尔吉斯 Kirgiziya	
	17	02										
1221	16	23-12-11.6	28.90N	105.11E	12	4.0	4.0	4.0	2.9	28	四川省 Sichuan Province	
	17	07										
1222	17	00-35-49.8	35.90N	140.70E	71			4.7	1.9	34	本州东海岸近海 Near east coast of Honshu	
	17	08										
1223	17	00-55-11.8	42.46N	126.45E	14	3.3		4.9		6	中国东北部 North-Eastern China	
	17	08										
1224	17	05-12-12.1	13.49S	167.17E	179		5.6	5.6	0.9	94	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)	
	17	13										
1225	17	06-16-47.2	28.68N	104.78E	16	3.1			2.6	7	四川省 Sichuan Province	
	17	14										
1226	17	09-57-53.0	10.43S	119.50E	33			4.8	1.3	22	松巴地区 Sumba region	
	17	17										
1227	17	11-48-07.3	18.03S	178.44W	611		5.4	5.3	1.0	57	斐济地区 Fiji region	
	17	19										
1228	17	12-11-08.8	2.98N	97.06E	75			5.1	1.9	55	苏门答腊北部 Northern Sumatera	
	17	20										
1229	17	13-43-38.9	0.88N	122.31E	79	4.6	5.3	5.2	1.1	86	米那哈沙半岛(西里伯斯) Minahassa Peninsula (Celebes)	
	17	21										
1230	17	18-44-15.9	42.00N	83.40E	6	3.3			3.9	8	新疆自治区南部 Southern Xinjiang Province	
	18	02										
1231	18	01-53-49.9	25.27N	94.16E	50	6.2	6.5	5.9	5.7	1.7	97	缅甸——印度边境地区 Burma—India border region
	18	09										
1232	18	02-03-09.4	26.22N	100.26E	4	5.0			2.6	14	云南省 Yunnan Province	
	18	10										
1233	18	03-07-33.0	49.16N	147.83E	546		6.4	6.1	0.9	92	鄂霍次克海 Sea of Okhotsk	
	18	11										
1234	18	04-45-07.8	26.22N	100.12E	16	4.0			3.3	14	云南省 Yunnan Province	
	18	12										
1235	18	07-18-02.4	44.54N	147.10E	108		5.3	5.3	1.6	76	千岛群岛 Kurile Islands	
	18	15										
1236	18	07-23-23.7	2.26S	100.03E	33	6.2	5.7	6.0	5.3	0.9	75	苏门答腊南部 Southern Sumatera
	18	15										
1237	18	07-26-59.0	8.31N	125.47E	16	6.1	5.9	5.9	5.5	2.2	59	棉兰老岛 Mindanao
	18	15										
1238	18	16-01-01.6	3.78N	96.27E	108			4.2	1.3	27	北苏门答腊西海岸远海 Off west coast of Northern Sumatera	
	19	00										
1239	18	18-26-33.9	29.87N	129.87E	161			4.5	1.1	36	琉球群岛 Ryukyu Islands	
	19	02										
1240	18	18-27-24.9	16.28S	178.36E	20			5.0	1.7	25	斐济 Fiji	
	19	02										
1241	18	18-33-19.3	16.13S	178.37E	35	5.3	5.5	5.2	5.4	1.2	49	斐济 Fiji
	19	02										



1242	19	00-14-32.2	29.85N	139.03E	416		5.6		1.6	89	本州以南地区	
	19	08									South of Honshu	
1243	19	01-54-49.6	24.88N	98.65E	6		3.5		5.0	5	缅甸——中国边境地区	
	19	09									Burma-China border region	
1244	19	03-17-18.6	38.18N	71.33E	65		4.8		4.6	5	阿富汗——苏联边境地区	
	19	11									Afghanistan-USSR border region	
1245	19	03-55-55.5	33.05N	119.40E	6		2.6		2.1	5	中国东部	
	19	11									Eastern China	
1246	19	08-12-05.3	59.76S	26.08W	30			5.3	2.3	14	南桑德韦奇群岛地区	
	19	16									South Sandwich Islands region	
1247	19	09-23-48.3	41.97N	87.94E	12		3.1		3.0	6	新疆自治区南部	
	19	17									Southern Xinjiang Province	
1248	19	12-56-26.3	30.13S	71.65W	44	6.1		6.0	5.6	1.9	73	中智利海岸远海
	19	20									Off coast of Central Chile	
1249	19	16-58-18.6	21.24S	174.09W	37	5.4	5.3	5.2	5.5	1.2	63	汤加
	20	00									Tonga	
1250	19	17-37-46.3	22.18N	144.35E	85	4.8	5.4	5.5	1.0	84	马里亚纳群岛地区	
	20	01									Marianas region	
1251	20	05-40-18.1	56.62N	152.84W	32	5.4	4.8	5.1	0.8	74	科迪亚克岛地区	
	20	13									Kodiak Island region	
1252	20	05-59-16.9	56.66N	152.81W	32	5.4	4.7	4.8	0.8	48	科迪亚克岛地区	
	20	13									Kodiak Island region	
1253	20	06-09-20.9	56.64N	152.79W	32	5.3	4.4	4.8	0.6	51	科迪亚克岛地区	
	20	14									Kodiak Island region	
1254	20	07-05-39.3	24.14N	125.46E	37	3.7		4.7	2.1	28	琉球群岛西南部	
	20	15									South-western Ryukyu Islands	
1255	20	07-11-19.0	24.23N	125.23E	43	3.8		4.8	1.8	54	琉球群岛西南部	
	20	15									South-western Ryukyu Islands	
1256	20	12-12-39.6	39.01N	106.52E	14	3.1			1.3	7	中国北部	
	20	20									Northern China	
1257	20	12-48-35.7	7.95N	125.46E	31			4.3	2.5	16	棉兰老岛	
	20	20									Mindanao	
1258	20	13-54-12.9	61.23S	52.13W	5		4.9	5.5	2.5	49	南设得兰群岛	
	20	21									South Shetland Islands	
1259	20	15-52-05.3	44.01N	88.51E	18	3.5			3.4	9	新疆自治区北部	
	20	23									Northern Xinjiang Province	
1260	20	23-40-45.3	19.30S	173.34W	35		4.9	5.2	1.9	27	汤加	
	21	07									Tonga	
1261	21	09-20-22.7	7.38S	128.52E	32			5.0	1.3	69	班达海	
	21	17									Banda Sea	
1262	21	12-05-24.7	32.16N	120.71E	3	3.4			2.5	9	中国东部	
	21	20									Eastern China	
1263	21	12-25-26.3	24.24N	125.25E	43	4.8	5.3	5.1	5.0	1.8	81	琉球群岛西南部
	21	20									South-western Ryukyu Islands	
1264	21	12-34-19.6	23.85N	125.65E	46				2.1	12	琉球群岛西南部	
	21	20									South-western Ryukyu Islands	
1265	21	13-37-51.5	10.40S	119.54E	33		4.9	1.3		14	松巴地区	
	21	21									Sumba region	
1266	21	13-39-41.8	24.19N	125.41E	52	4.2	4.5	2.1		46	琉球群岛西南部	
	21	21									South-western Ryukyu Islands	
1267	21	13-52-59.8	24.01N	125.54E	56	4.2	4.4	4.2	2.6	44	琉球群岛西南部	
	21	21									South-western Ryukyu Islands	



1268	21	14-30-20.8	24.35N	123.04E	44	3.2		4.7	2.0	36	台湾地区 Taiwan region	
	21	22										
1269	21	15-36-08.0	24.20N	125.40E	47	4.2	4.6	4.9	1.9	59	琉球群岛西南部 South-western Ryukyu Islands	
	21	23										
1270	21	17-54-10.7	28.29N	131.29E	34	3.7		4.1	2.9	24	琉球群岛 Ryukyu Islands	
	22	01										
1271	21	20-21-57.5	36.17N	80.97E	16	4.1			4.1	5	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	22	04										
1272	21	21-18-37.4	5.69S	153.65E	26	4.9	5.5	4.7	5.1	1.2	60	新不列颠地区 New Britain region
	22	05										
1273	21	23-00-44.4	22.77N	122.23E	15	3.5			1.9	7	台湾地区 Taiwan region	
	22	07										
1274	22	03-50-43.0	39.85N	116.67E	11	3.8			2.1	18	中国东北部 North-Eastern China	
	22	11										
1275	22	08-43-17.0	52.54N	173.93E	42			4.7	1.1	36	尼尔群岛 Near Islands	
	22	16										
1276	22	11-35-39.1	24.86N	121.36E	15	2.8			1.9	10	台湾岛 Taiwan	
	22	19										
1277	22	12-46-50.3	39.55N	118.30E	14	3.7			1.9	16	中国东北部 North-Eastern China	
	22	20										
1278	22	16-20-44.5	52.77N	163.97W	27			4.7	1.3	37	阿拉斯加以南地区 South of Alaska	
	23	00										
1279	22	17-06-53.2	38.24N	74.50E	147			4.6	1.9	23	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	23	01										
1280	22	17-59-35.9	40.69N	122.72E	4	3.0			1.2	7	中国东北部 North-Eastern China	
	23	01										
1281	22	18-20-29.2	33.62S	77.90E	8			4.7	2.8	8	中印度洋海丘 Mid-Indian Rise	
	23	02										
1282	22	18-30-36.9	40.31N	78.70E	10	3.9			3.4	8	新疆自治区南部 Southern Xinjiang Province	
	23	02										
1283	23	07-01-03.0	51.22N	176.00W	37			4.7	0.9	57	安德烈亚诺夫群岛 Andreanof Islands	
	23	15										
1284	23	08-49-35.2	30.11N	103.10E	15	3.6		4.3	3.2	19	四川省 Sichuan Province	
	23	16										
1285	23	12-53-33.8	37.42N	115.02E	14	3.4			2.0	14	中国东部 Eastern China	
	23	20										
1286	23	17-09-05.0	8.17N	125.63E	32	5.4	5.9	5.2	5.1	2.3	81	棉兰老岛 Mindanao
	24	01										
1287	23	23-18-01.2	51.48N	176.31W	33			4.5	1.3	23	安德烈亚诺夫群岛 Andreanof Islands	
	24	07										
1288	24	02-08-19.4	11.44N	93.06E	77	4.4		4.7	1.9	59	安达曼群岛地区 Andaman Islands region	
	24	10										
1289	24	10-34-02.2	39.08N	123.75E	4	3.0			3.5	5	中国东北部 North-Eastern China	
	24	18										
1290	24	19-51-25.9	24.41N	121.17E	52	3.5			0.9	7	台湾岛 Taiwan	
	25	03										
1291	24	22-45-09.1	23.92N	122.60E	22	3.3			2.9	7	台湾地区 Taiwan region	
	25	06										
1292	25	11-31-53.6	63.86N	19.87W	7	6.3	6.2	5.8	5.8	1.5	90	冰岛 Iceland
	25	19										
1293	25	11-40-42.0	56.33N	152.94W	37			5.0	1.6	48	阿拉斯加以南地区 South of Alaska	
	25	19										



1294	25	12-05-00.1	37.81N	139.66E	45					4.7	1.9	34	本州岛	
	25	20											Honshu	
1295	25	15-07-33.9	28.64N	101.14E	10	3.4					3.6	11	四川省	
	25	23											Sichuan Province	
1296	25	19-01-11.3	28.62N	101.21E	9	3.2					2.4	11	四川省	
	26	03											Sichuan Province	
1297	26	01-37-41.5	5.55S	134.02E	33	5.0				5.3	1.4	74	阿鲁群岛地区	
	26	09											Aroe Islands region	
1298	26	01-49-51.7	29.70N	142.36E	80	4.3				4.7	2.3	41	本州以南地区	
	26	09											South of Honshu	
1299	26	07-09-39.2	3.58N	126.84E	63					4.9	1.3	16	塔劳群岛	
	26	15											Talaud Islands	
1300	26	07-16-11.3	36.43N	100.85E	15	3.0					3.0	8	青海省	
	26	15											Qinghai Province	
1301	26	10-55-33.0	23.79S	179.85W	480					4.9	1.1	38	斐济以南地区	
	26	18											South of Fiji	
1302	26	12-07-51.1	38.20N	142.22E	32	5.3	5.8	5.2	5.3	1.6		87	本州东海岸近海	
	26	20											Near east coast of Honshu	
1303	26	13-44-19.6	42.90N	77.99E	20	4.5				4.6	2.4	31	阿拉木图地区	
	26	21											Alma-Ata region	
1304	26	14-56-56.2	51.71N	175.52W	32					4.3	2.0	20	安德烈亚诺夫群岛	
	26	22											Andreanof Islands	
1305	26	19-23-57.3	31.77N	60.30E	16	4.8				4.0	4.8	1.5	44	伊朗
	27	03											Iran	
1306	26	22-26-31.7	1.75N	126.75E	32					4.7	1.2	25	马鲁古海峡	
	27	06											Molucca Passage	
1307	27	04-24-48.1	23.68N	121.22E	15	3.2					2.4	8	台湾岛	
	27	12											Taiwan	
1308	27	19-32-23.3	19.90N	122.61E	27					4.1	1.1	16	菲律宾群岛地区	
	28	03											Philippine Islands region	
1309	27	20-35-34.0	12.03N	142.74E	34					4.7	0.8	16	马里亚纳群岛以南地区	
	28	04											South of the Marianas	
1310	27	21-03-32.9	34.84N	136.17E	39	4.3				4.2	4.9	2.6	60	本州南部南海岸近海
	28	05											Near south coast of Southern Honshu	
1311	29	02-35-45.9	25.73N	122.34E	15	4.0					3.2	7	台湾岛	
	29	10											Taiwan	
1312	29	03-26-05.8	5.09S	102.57E	47	4.8				4.2	5.1	1.1	66	苏门答腊南部
	29	11											Southern Sumatera	
1313	29	06-27-49.8	34.08N	48.21E	39	5.0				4.6	4.9	2.1	52	伊朗西部
	29	14											Western Iran	
1314	29	09-46-48.0	3.37N	128.53E	58					4.7	2.2	36	查伊洛洛贾洛洛(哈马黑拉)岛	
	29	17											Djailolo Gilolo (Halmahera)	
1315	29	11-02-12.7	40.23N	63.19E	33	4.8				4.5	1.6	30	土库曼	
	29	19											Turkmeniya	
1316	29	14-20-50.1	12.05N	143.98E	26	4.7				4.9	3.1	33	马里亚纳群岛以南地区	
	29	22											South of the Marianas	
1317	29	17-37-36.7	22.60N	143.41E	120		5.3			5.2	1.2	88	硫黄列岛地区	
	30	01											Volcano Islands region	
1318	29	18-40-30.7	37.65N	21.75E	50	4.8				4.5	5.2	1.6	74	希腊南部
	30	02											Southern Greece	
1319	29	20-52-06.3	54.29N	160.43E	33					4.2	4.9	1.1	31	堪察加东海岸近海
	30	04											Near east coast of Kamchatka	



1320	29	22-21-26.1	37.03N	141.29E	58					4.6	1.8	41	本州东海岸近海
	30	06											Near east coast of Honshu
1321	29	23-33-47.3	3.73S	86.44E	8					4.6	1.1	12	南印度洋
	30	07											South Indian Ocean
1322	30	02-59-36.8	15.27S	173.25W	36	5.5	5.6	5.6	5.2	2.6		45	汤加
	30	10											Tonga
1323	30	03-14-22.1	40.62N	122.69E	8	3.6				3.1		13	中国东北部
	30	11											North-Eastern China
1324	30	06-34-05.0	40.61N	93.52E	25	3.0				3.9		5	新疆维吾尔自治区南部
	30	14											Southern Xinjiang Province
1325	30	15-21-41.2	22.64N	94.48E	109					4.5	2.3	44	缅甸——印度边境地区
	30	23											Burma-India border region
1326	30	16-13-29.3	40.47N	123.15E	5	2.8				2.5		6	中国东北部
	31	00											North-Eastern China
1327	30	16-24-37.6	40.42N	123.19E	8	2.9				2.0		6	中国东北部
	31	00											North-Eastern China
1328	30	16-54-03.9	6.10S	130.49E	136		5.6	5.6	1.0			89	班达海
	31	00											Banda Sea
1329	30	17-18-59.1	44.77N	150.14E	45	5.1	5.4	5.3	1.2			82	千岛群岛
	31	01											Kurile Islands
1330	30	17-23-41.8	38.92N	101.45E	5	2.8				1.3		5	甘肃省
	31	01											Gansu Province
1331	30	19-25-13.2	33.95N	141.25E	113					4.0	2.1	15	本州以南地区
	31	03											South of Honshu
1332	30	19-37-30.4	6.91S	156.09E	79					4.7	1.2	29	所罗门群岛
	31	03											Solomon Islands
1333	30	23-24-29.3	21.94S	179.41W	505					4.8	1.5	22	斐济以南地区
	31	07											South of Fiji
1334	31	01-00-52.8	7.92S	122.40E	224					5.3	1.6	76	佛罗勒斯地区
	31	09											Flores region
1335	31	18-06-29.7	15.39N	119.40E	35	4.4				4.1	2.6	16	菲律宾群岛地区
	1	02											Philippine Islands region
1336	31	18-32-16.8	0.77N	121.98E	76	4.6				5.2	1.1	70	米那哈沙半岛(西里伯斯)
	1	02											Minahassa Peninsula (Celebes)
1337	31	18-45-33.4	5.59S	152.80E	17			4.4	5.2	1.2		52	新不列颠地区
	1	02											New Britain region
1338	31	20-28-18.6	42.55N	96.43E	16	3.3				3.8		5	新疆维吾尔自治区北部
	1	04											Northern Xinjiang Province
1339	31	21-18-12.0	1.81N	126.70E	83					4.7	2.8	13	马鲁古海峡
	1	05											Molucca Passage
1340	31	22-35-16.7	47.14N	146.23E	311					4.5	2.6	31	鄂霍次克海
	1	06											Sea of Okhotsk
1341	31	23-38-38.4	36.19N	102.73E	16	4.0	4.0			4.4	2.1	37	青海省
	1	07											Qinghai Province
June 1987													
1342	1	00-15-13.3	51.55N	177.48W	32	5.1	5.6	4.9	5.3	1.1		85	安德烈亚诺夫群岛
	1	08											Andreasnof Islands
1343	1	00-55-41.8	51.13N	177.59W	44					4.9	1.6	37	安德烈亚诺夫群岛
	1	08											Andreasnof Islands
1344	1	01-19-29.5	2.36S	139.01E	32			3.8	4.8	1.2		29	西伊里安
	1	09											West Irian



1345	1	01-50-16.5	22.21S	68.67W	103			5.4	2.5	45	智利北部
	1	09									Northern Chile
1346	1	04-17-04.9	59.90S	26.66W	39			4.7	5.1	2.1	22 南桑德韦奇群岛地区
	1	12									South Sandwich Islands region
1347	1	04-23-07.8	38.50N	76.51E	17	4.4		4.4	2.6	23	新疆自治区南部
	1	12									Southern Xinjiang Province
1348	1	11-39-06.8	51.70N	176.21W	53			4.9	1.0	72	安德烈亚诺夫群岛
	1	19									Andreanof Islands
1349	1	15-56-01.2	38.05N	90.98E	11	3.8	4.4	4.1	3.0	22	新疆自治区南部
	1	23									Southern Xinjiang Province
1350	1	16-45-11.1	30.90N	50.13E	38			4.6	1.9	34	伊朗西部
	2	00									Western Iran
1351	1	17-44-18.6	41.61N	81.35E	12	3.4			4.5	10	新疆自治区南部
	2	01									Southern Xinjiang Province
1352	1	20-01-00.2	24.83N	122.26E	33	3.7	3.5	4.3	3.1	16	台湾岛
	2	04									Taiwan
1353	1	21-33-37.9	25.01N	122.43E	163			4.7	1.5	60	台湾岛
	2	05									Taiwan
1354	1	23-00-46.2	15.54N	119.31E	38	5.2	5.5	4.5	5.0	2.0	85 菲律宾群岛地区
	2	07									Philippine Islands region
1355	2	03-11-51.1	9.17N	83.89W	38			4.9	4.9	2.6	32 哥斯达黎加海岸远海
	2	11									Off coast of Costa Rica
1356	2	06-26-48.1	38.75N	116.24E	9	3.4			2.4	16	中国东北部
	2	14									North-Eastern China
1357	2	16-44-50.7	4.49S	152.14E	151		5.3	5.3	1.3	89	新不列颠地区
	3	00									New Britain region
1358	2	18-09-26.9	2.44S	139.21E	34			4.1	0.9	16	西伊里安
	3	02									West Irian
1359	2	21-46-39.2	41.33N	141.41E	130			4.7	1.3	73	本州岛
	3	05									Honshu
1360	3	01-14-34.0	40.48N	122.02E	6	2.7			1.6	5	中国东北部
	3	09									North-Eastern China
1361	3	08-15-46.2	6.28S	148.93E	65	5.2	5.2	5.2	1.7	60	新不列颠地区
	3	16									New Britain region
1362	3	13-12-23.9	24.17N	121.75E	30	3.2			1.3	6	台湾岛
	3	21									Taiwan
1363	3	14-03-37.9	39.83N	73.47E	17	3.6		3.8	2.8	10	吉尔吉斯
	3	22									Kirgiziya
1364	3	19-18-18.1	24.06N	121.72E	16	3.0			1.9	7	台湾岛
	4	03									Taiwan
1365	4	00-50-35.8	5.30N	95.07E	75			4.9	2.3	33	北苏门答腊西海岸远海
	4	08									Off west coast of Northern Sumatera
1366	4	10-54-35.8	38.29N	119.61E	8	3.0			1.8	5	中国东北部
	4	18									North-Eastern China
1367	4	12-45-20.8	7.76S	156.23E	41	5.0		4.7	1.7	31	所罗门群岛
	4	20									Solomon Islands
1368	4	23-37-10.2	39.86N	142.94E	50			4.7	2.4	27	本州东海岸近海
	5	07									Near east coast of Honshu
1369	4	23-45-41.1	4.68S	101.91E	44	5.8	5.8	5.8	5.5	1.5	87 苏门答腊西南以远地区
	5	07									South-west of Sumatera
1370	4	23-48-11.3	19.93S	178.32W	628			5.2	1.1	40	斐济地区
	5	07									Fiji region



1371	5	00-34-18.9	48.98S	127.13E	10						5.0	5.2	2.0	29	澳大利亚以南地区 South of Australia
	5	08													
1372	5	01-32-56.6	51.06N	179.46E	37						4.8	1.1		37	拉特群岛 Rat Islands
	5	09													
1373	5	04-49-36.6	6.16S	105.87E	124						5.0	1.3		24	巽他海峡 Sunda Strait
	5	12													
1374	5	05-00-00.1	41.46N	88.77E	16	5.2	5.7	5.4	4.4	6.2	1.4			96	新疆维吾尔自治区南部 Southern Xinjiang Province
	5	13													
1375	5	16-23-16.3	11.58N	141.66E	33	5.2			5.1	5.3	1.4			77	加罗林群岛西部 Western Caroline Islands
	6	00													
1376	5	16-58-06.4	41.47N	88.81E	5		4.0				2.2			14	新疆维吾尔自治区南部 Southern Xinjiang Province
	6	00													
1377	5	20-11-04.7	32.60N	104.16E	5		2.8				2.6			5	四川省 Sichuan Province
	6	04													
1378	5	21-25-10.9	5.44N	127.58E	46	5.7		5.7	5.7	5.5	1.4			94	塔劳群岛 Talaud Islands
	6	05													
1379	5	22-00-02.2	5.28N	127.54E	47	5.5		5.8	5.4	5.4	1.6			93	塔劳群岛 Talaud Islands
	6	06													
1380	5	22-50-47.1	5.50N	127.40E	67	4.9				5.0	1.4			83	棉兰老岛 Mindanao
	6	06													
1381	6	02-37-06.9	49.84N	77.97E	9	4.1	5.2			5.3	1.4			70	哈萨克东部 Eastern Kazakhstan
	6	10													
1382	6	03-14-25.5	30.56N	79.34E	33	4.1	4.3			4.7	2.5			25	印度北部 Northern India
	6	11													
1383	5	07-14-54.6	0.17S	125.20E	33					4.8	1.4			13	马鲁古海 Molucca Sea
	6	15													
1384	6	08-39-47.1	15.93N	147.28E	43	4.8		5.5	4.6	5.3	1.1			84	马里亚纳群岛 Marianas
	6	16													
1385	6	11-02-41.7	30.40N	79.18E	45	4.1	4.7			4.9	1.7			33	印度北部 Northern India
	6	19													
1386	6	12-21-57.1	30.22N	103.29E	11	3.8	3.7			4.2	2.7			24	四川省 Sichuan Province
	6	20													
1387	6	12-47-59.2	50.92N	179.80W	29					4.8	1.5			21	安德烈亚诺夫群岛 Andreanof Islands
	6	20													
1388	6	13-22-07.0	10.75N	126.16E	30					4.8	1.0			21	莱特岛 Leyte
	6	21													
1389	6	13-23-43.9	51.38N	174.51W	32					5.0	1.4			49	安德烈亚诺夫群岛 Andreanof Islands
	6	21													
1390	6	15-33-34.5	24.81N	98.78E	21		3.0				2.4			5	缅甸——中国边境地区 Burma-China border region
	6	23													
1391	6	15-44-00.3	57.60S	142.58W	5	5.8		5.6	5.4	2.0				28	南太平洋海山 South Pacific Cordillera
	6	23													
1392	6	18-37-46.8	6.79S	128.79E	31					4.5	2.1			13	班达海 Banda Sea
	7	02													
1393	6	18-40-26.8	10.75N	126.19E	14	6.4		6.4	6.3	5.7	1.6			103	莱特岛 Leyte
	7	02													
1394	7	01-49-29.5	10.73N	126.26E	59					4.9	1.6			36	莱特岛 Leyte
	7	09													
1395	7	02-50-35.2	38.24N	77.66E	6		3.6				1.9			6	新疆维吾尔自治区南部 Southern Xinjiang Province
	7	10													
1396	7	03-06-38.2	10.81N	126.33E	53	4.5		5.3	4.1	4.9	1.5			69	莱特岛 Leyte
	7	11													



1397	7	04-26-23.6	39.51N	118.13E	15	3.6	4.1	4.1	3.0	34	中国东北部 North-Eastern China		
	7	12											
1398	7	04-45-01.8	16.61S	177.37W	438			4.7	0.9	31	斐济地区 Fiji region		
	7	12											
1399	7	05-49-42.9	20.51N	121.32E	12	6.2	6.2	6.1	5.8	1.6	108	菲律宾群岛地区 Philippine Islands region	
	7	13											
1400	7	09-15-31.4	10.68N	126.17E	64	4.6			5.0	1.8	71	莱特岛 Leyte	
	7	17											
1401	7	10-02-09.8	10.76N	126.36E	51				4.9	1.3	46	莱特岛 Leyte	
	7	18											
1402	7	13-27-56.9	6.58S	147.68E	66				5.0	2.3	18	新几内亚东部地区 Eastern New Guinea region	
	7	21											
1403	7	13-30-14.9	16.92N	98.70W	33	5.5		4.8	5.0	1.0	27	墨西哥格雷罗海岸近海 Near coast of Guerrero, Mexico	
	7	21											
1404	7	16-14-39.4	44.01N	116.67E	11		3.4			2.6	11	中国东北部 North-Eastern China	
	8	00											
1405	7	22-48-05.9	10.56N	126.23E	32	5.0	5.4	4.3	5.0	1.3	63	莱特岛 Leyte	
	8	06											
1406	7	22-48-19.5	10.70N	126.24E	33	5.1		4.8	5.3	1.7	37	莱特岛 Leyte	
	8	06											
1407	7	23-25-54.4	38.08N	72.15E	5		4.8			3.3	9	阿富汗—苏联边境地区 Afghanistan-USSR border region	
	8	07											
1408	8	11-00-44.5	10.61N	126.21E	34				5.1	1.1	42	莱特岛 Leyte	
	8	19											
1409	8	11-35-38.7	10.61N	126.49E	35	4.2			4.8	1.5	52	莱特岛 Leyte	
	8	19											
1410	8	13-30-32.2	39.70N	74.50E	12	4.7	5.1	5.2	4.3	5.1	1.7	79	新疆自治区南部 Southern Xinjiang Province
	8	21											
1411	8	16-52-15.7	22.24N	117.41E	5		3.1			4.3	5	中国东南沿海 Near south-eastern coast of China	
	9	00											
1412	8	17-43-28.8	40.41N	122.28E	6		3.3			2.3	9	中国东北部 North-Eastern China	
	9	01											
1413	8	19-13-17.3	51.52N	174.86W	60				4.9	1.7	25	安德烈亚诺夫群岛 Andreasof Islands	
	9	03											
1414	8	22-25-43.5	6.40S	148.90E	59			4.3	4.9	3.3	26	新不列颠地区 New Britain region	
	9	06											
1415	9	06-19-25.3	6.25S	148.88E	58	6.0	5.7		5.3	2.1	98	新不列颠地区 New Britain region	
	9	14											
1416	9	13-20-00.7	10.62N	126.26E	32	4.2	4.9	3.9	4.1	1.5	54	莱特岛 Leyte	
	9	21											
1417	9	15-10-01.0	33.08N	136.97E	405				4.0	0.8	33	四国东南以远地区 South-east of Shikoku	
	9	23											
1418	9	18-42-38.2	12.73S	76.04W	81				5.1	2.8	10	秘鲁海岸近海 Near coast of Peru	
	10	02											
1419	9	19-34-09.2	22.71N	124.06E	10		3.7			3.6	9	台湾东南以远地区 South-east of Taiwan	
	10	03											
1420	9	20-48-21.4	6.48S	154.44E	35				4.8	1.4	41	新不列颠地区 New Britain region	
	10	04											
1421	9	21-21-38.4	36.15N	70.20E	101				4.7	2.0	21	兴都库什地区 Hindu Kush region	
	10	05											
1422	9	21-41-19.5	3.27S	152.53E	34				4.3	2.3	19	新爱尔兰地区 New Ireland region	
	10	05											



1423	9	22-22-53.3	3.48N	126.61E	58		4.6	1.6	23	马鲁古海峡	
	10	06								Molucca Passage	
1424	9	22-25-50.5	3.57N	126.66E	53	4.4	4.4	5.1	1.5	69 塔劳群岛	
	10	06								Talau Islands	
1425	9	22-46-11.3	34.92S	106.57W	7		5.1	5.4	2.8	41 复活节岛海山	
	10	06								Easter Island Cordillera	
1426	10	01-43-06.8	2.85S	139.14E	30		4.7	1.5	31	西伊里安	
	10	09								West Irian	
1427	10	01-56-37.7	2.73S	138.95E	35	5.1	5.3	5.1	5.2	1.8	80 西伊里安
	10	09									West Irian
1428	10	03-34-05.4	3.59N	126.64E	72		4.9	1.3	32	塔劳群岛	
	10	11									Talau Islands
1429	10	05-11-54.4	34.60N	108.81E	13	2.5		4.7	5	中国东部	
	10	13									Eastern China
1430	10	12-41-09.9	60.82S	26.16W	29		5.4	3.0	20	南桑德韦奇群岛地区	
	10	20									South Sandwich Islands region
1431	10	13-52-38.5	35.12N	110.97E	3	2.8		4.0	6	中国东部	
	10	21									Eastern China
1432	10	14-50-10.7	37.33N	21.57E	39	5.1	5.1	5.2	1.9	73 希腊南部	
	10	22									Southern Greece
1433	10	15-05-42.6	39.94N	143.91E	24		4.5	1.7	22	本州东海岸远海	
	10	23									Off east coast of Honshu
1434	10	16-03-54.6	4.14N	94.79E	52	5.4	5.6	5.3	5.4	1.1	101 北苏门答腊西海岸远海
	11	00									Off west coast of Northern Sumatera
1435	10	16-12-44.5	26.09N	100.16E	1	3.5		4.1	5	云南省	
	11	00									Yunnan Province
1436	10	16-33-28.9	28.23N	104.33E	5	3.5		4.8	9	云南省	
	11	00									Yunnan Province
1437	10	17-25-57.3	8.16N	93.62E	100		4.8	1.3	50	尼科巴群岛地区	
	11	01									Nicobar Islands region
1438	10	19-51-28.0	60.62S	27.07W	21	6.3	6.1	5.6	3.7	76 南桑德韦奇群岛地区	
	11	03									South Sandwich Islands region
1439	10	22-09-40.5	37.80N	101.43E	9	2.9		3	7	青海省	
	11	06									Qinghai Province
1440	11	05-08-50.1	20.25S	70.67W	5		4.3	5.1	1.9	36 智利北部海岸远海	
	11	13									Off coast of Northern Chile
1441	11	06-14-21.9	45.57N	150.32E	112		4.7	1.4	18	千岛群岛	
	11	14									Kurile Islands
1442	11	12-08-41.1	28.87N	105.06E	16	4.4	4.4	4.8	2.3	61 四川省	
	11	20									Sichuan Province
1443	11	12-26-42.0	28.57N	105.04E	15	3.6		4.5	12	四川省	
	11	20									Sichuan Province
1444	11	13-49-23.7	28.74N	104.92E	15	2.6		2.6	5	四川省	
	11	21									Sichuan Province
1445	11	17-29-23.7	26.15N	93.51E	34		4.4	2.2	34	印度东部	
	12	01									Eastern India
1446	11	18-30-02.8	43.81N	84.17E	4	3.9		2.4	12	新疆自治区北部	
	12	02									Northern Xinjiang Province
1447	11	18-52-21.8	2.43S	76.56W	121		4.6	3.3	14	秘鲁——厄瓜多尔边境地区	
	12	02									Peru-Ecuador border region
1448	11	22-56-14.0	39.31N	106.92E	17	3.2		2.9	10	中国北部	
	12	06									Northern China



1449	12	01-17-31.3	23.58N	122.88E	37	3.4			2.4	9	台湾地区 Taiwan region	
	12	09										
1450	12	01-24-42.6	33.27N	110.09E	3	3.2			3.6	7	中国东部 Eastern China	
	12	09										
1451	12	06-47-27.0	10.56N	126.57E	39			4.3	2.3	29	菲律宾群岛地区 Philippine Islands region	
	12	14										
1452	12	07-07-15.5	35.87N	80.92E	10	4.1			3.1	7	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	12	15										
1453	12	08-50-57.1	4.82N	125.34E	72			4.5	3.6	13	西里伯斯海 Celebes Sea	
	12	16										
1454	12	09-51-01.3	25.49N	122.26E	279	5.2		5.4	1.1	102	台湾岛 Taiwan	
	12	17										
1455	12	09-58-56.4	6.77S	71.83E	12			5.0	1.9	40	查戈斯群岛地区 Chagos Archipelago region	
	12	17										
1456	12	11-04-33.3	24.11N	125.23E	33	4.2		4.8	1.9	37	琉球群岛西南部 South-western Ryukyu Islands	
	12	19										
1457	12	13-06-49.4	49.68S	117.31E	11	5.1		5.4	5.1	1.9	46	澳大利亚以南地区 South of Australia
	12	21										
1458	12	15-48-38.3	40.16N	105.78E	10	3.4			2.2	12	中国北部 Northern China	
	12	23										
1459	12	18-01-33.2	5.35S	150.33E	214			5.2	1.4	60	新不列颠地区 New Britain region	
	13	02										
1460	12	20-51-21.3	12.22N	143.60E	20			4.7	1.5	25	马里亚纳群岛以南地区 South of the Marianas	
	13	04										
1461	13	01-10-47.3	15.41S	175.44W	36			5.0	5.1	3.8	21	汤加 Tonga
	13	09										
1462	13	02-46-20.4	24.30N	120.79E	10	3.0			1.9	7	台湾岛 Taiwan	
	13	10										
1463	13	08-58-03.8	2.40S	138.75E	42	4.8	5.5	4.4	5.4	1.0	79	西伊里安 West Irian
	13	16										
1464	13	10-40-16.6	19.69S	179.79W	494		5.2		5.3	1.8	72	斐济地区 Fiji region
	13	18										
1465	13	14-00-38.1	44.81N	150.20E	35	5.7	6.0	5.8	5.8	1.2	93	千岛群岛 Kurile Islands
	13	22										
1466	13	15-11-22.7	39.99N	74.38E	9	4.1			2.1	5	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	13	23										
1467	13	15-41-10.2	44.82N	150.18E	37	5.3	5.5	5.4	5.6	1.4	86	千岛群岛 Kurile Islands
	13	23										
1468	13	15-43-21.3	10.55N	126.26E	35	4.9		4.6	4.9	2.6	27	莱特岛 Leyte
	13	23										
1469	13	21-59-51.1	44.90N	150.38E	41			4.7	1.6	40	千岛群岛 Kurile Islands	
	14	05										
1470	14	03-07-20.4	23.98N	121.62E	20	3.6	3.8		2.2	28	台湾岛 Taiwan	
	14	11										
1471	14	04-53-20.4	10.49N	126.15E	57	4.1		4.0	4.5	2.1	45	棉兰老岛 Mindanao
	14	12										
1472	14	05-07-26.0	10.35N	126.12E	13	5.9	6.1	5.9	5.6	1.6	101	棉兰老岛 Mindanao
	14	13										
1473	14	05-21-22.4	10.44N	126.07E	69			4.7	1.8	41	棉兰老岛 Mindanao	
	14	13										
1474	14	05-26-02.6	10.48N	126.21E	39	5.5		5.6	5.5	1.8	73	棉兰老岛 Mindanao
	14	13										



1475	14	05-28-05.2	10.40N	126.23E	33		5.3	1.6	28	棉兰老岛	
	14	13								Mindanao	
1476	14	07-19-18.0	21.15N	94.70E	126		4.5	1.7	68	缅甸	
	14	15								Burma	
1477	14	10-34-59.7	25.91N	102.82E	9	3.6		3.7	14	云南省	
	14	18								Yunnan Province	
1478	14	15-56-34.9	10.52N	126.49E	50	4.6	4.4	4.8	1.8	73 莱特岛	
	14	23								Leyte	
1479	14	16-50-06.9	10.34N	126.08E	31		4.8	1.7	45	棉兰老岛	
	15	00								Mindanao	
1480	14	18-22-12.3	58.30S	65.58W	9		5.1	5.2	3.6	16 德雷克海峡	
	15	02								Drake Passage	
1481	14	18-29-56.3	10.37N	126.21E	43	4.9	5.4	4.9	5.2	1.4	86 棉兰老岛
	15	02									Mindanao
1482	14	20-58-21.6	10.42N	126.40E	35		4.5	2.0	38	棉兰老岛	
	15	04									Mindanao
1483	14	21-10-49.2	25.01N	121.39E	17	2.7			1.6	6	台湾岛
	15	05									Taiwan
1484	15	00-18-50.3	7.11S	129.39E	141		5.5	1.3	101	班达海	
	15	08									Banda Sea
1485	15	02-08-21.7	49.72N	157.36E	35	4.6	4.4	4.7	1.7	50	千岛群岛
	15	10									Kurile Islands
1486	15	06-22-46.4	10.31N	125.94E	85		4.8	1.1	28	棉兰老岛	
	15	14									Mindanao
1487	15	06-23-08.7	12.43S	76.63W	38		4.5	5.5	3.3	29	秘鲁海岸近海
	15	14									Near coast of Peru
1488	15	06-31-44.2	3.93N	126.05E	139		5.6	1.1	94	塔劳群岛	
	15	14									Talau Islands
1489	15	15-30-53.4	35.57N	140.26E	79		4.6	2.2	46	本州南海岸近海	
	15	23									Near south coast of Honshu
1490	15	18-54-36.0	51.09N	176.19W	40		4.3	1.3	32	安德烈亚诺夫群岛	
	16	02									Andreanof Islands
1491	15	21-05-10.8	19.05S	63.95W	583		5.4	1.8	67	玻利维亚南部	
	16	05									Southern Bolivia
1492	16	06-17-28.8	40.24N	112.83E	15	3.0		2.5	6	中国东北部	
	16	14									North-Eastern China
1493	16	07-49-40.8	37.43N	140.20E	44	4.0	4.8	2.4	25	本州岛	
	16	15									Honshu
1494	16	15-52-21.4	23.65N	118.21E	16	3.5		2.0	6	中国东南沿海	
	16	23									Near south-eastern coast of China
1495	16	16-33-54.2	38.09N	119.26E	16	2.5		3.2	5	中国东北部	
	17	00									North-Eastern China
1496	16	17-11-33.7	6.87S	130.22E	100		5.1	2.0	31	班达海	
	17	01									Banda Sea
1497	16	17-27-51.2	28.51N	57.28E	42		4.8	0.8	41	伊朗南部	
	17	01									Southern Iran
1498	16	19-15-33.2	19.83S	70.37W	66		5.0	3.2	34	智利北部海岸近海	
	17	03									Near coast of Northern Chile
1499	16	20-09-42.4	23.97N	121.59E	15	3.0		2.1	6	台湾岛	
	17	04									Taiwan
1500	16	20-13-27.7	34.68N	73.34E	14	3.9		2.8	14	巴基斯坦	
	17	04									Pakistan



1501	16	20-17-02.4	23.00S	176.48W	163			5.3	1.5	50	斐济以南地区 South of Fiji	
	17	04										
1502	16	22-04-06.2	14.92N	55.79E	10			5.0	1.7	52	阿拉伯海 Arabian Sea	
	17	06										
1503	17	01-32-52.8	5.58S	131.04E	71	6.9	7.3	6.6	1.2	99	班达海 Banda Sea	
	17	09										
1504	17	03-24-55.2	24.53N	95.73E	16	4.5			4.3	7	缅甸 Burma	
	17	11										
1505	17	03-49-46.1	38.23N	119.49E	6	2.5			4.2	5	中国东北部 North-Eastern China	
	17	11										
1506	17	04-47-31.4	38.05N	119.39E	14	2.5			2.5	7	中国东北部 North-Eastern China	
	17	12										
1507	17	08-16-25.4	5.97S	154.87E	120			5.1	1.4	40	所罗门群岛 Solomon Islands	
	17	16										
1508	17	08-44-36.6	12.25N	143.62E	32			4.8	2.6	20	马里亚纳群岛以南地区 South of the Marianas	
	17	16										
1509	17	09-10-00.5	38.16N	119.50E	16	2.7			2.9	5	中国东北部 North-Eastern China	
	17	17										
1510	17	16-32-22.2	5.53S	152.70E	45			4.0	4.9	2.0	25	新不列颠地区 New Britain region
	18	00										
1511	17	18-13-26.1	38.58N	104.72E	8	3.0			0.7	5	中国北部 Northern China	
	18	02										
1512	17	18-17-50.1	21.63N	121.39E	21	4.2	3.6		4.3	2.0	49	台湾地区 Taiwan region
	18	02										
1513	17	22-06-05.3	18.24S	172.77W	46			5.6	5.0	2.3	40	汤加 Tonga
	18	06										
1514	18	05-16-35.3	39.23N	143.09E	50	4.8		4.6	4.8	1.7	65	本州东海岸近海 Near east coast of Honshu
	18	13										
1515	18	10-01-06.4	17.35N	121.40E	40	6.0	6.1	6.0	5.5	1.8	104	吕宋岛 Luzon
	18	18										
1516	18	10-39-22.8	17.17N	121.27E	34				4.7	3.0	30	吕宋岛 Luzon
	18	18										
1517	18	11-44-21.5	10.17S	113.67E	60				5.2	1.2	53	爪哇以南地区 South of Java
	18	19										
1518	18	14-03-15.0	10.64S	162.43E	78	5.9	6.4		6.0	0.9	99	所罗门群岛 Solomon Islands
	18	22										
1519	18	17-22-42.0	28.12N	54.32E	90				4.5	1.5	27	伊朗南部 Southern Iran
	19	01										
1520	19	01-10-16.1	17.81N	145.03E	37	5.0	5.5	4.9	5.1	1.1	77	马里亚纳群岛地区 Marianas region
	19	09										
1521	19	01-36-45.1	17.86N	145.16E	35				5.0	1.7	37	马里亚纳群岛地区 Marianas region
	19	09										
1522	19	01-38-42.8	17.76N	144.96E	37	4.9	5.3	5.1	5.4	1.4	69	马里亚纳群岛地区 Marianas region
	19	09										
1523	19	01-53-09.2	17.96N	145.06E	34	4.6			4.8	2.3	33	马里亚纳群岛地区 Marianas region
	19	09										
1524	19	02-08-56.9	17.78N	145.04E	35	4.5			4.9	1.5	23	马里亚纳群岛地区 Marianas region
	19	10										
1525	19	02-34-14.5	17.75N	145.14E	43	4.6		4.5	4.9	1.4	50	马里亚纳群岛地区 Marianas region
	19	10										
1526	19	02-38-18.3	17.79N	145.18E	47	4.6			4.9	1.4	34	马里亚纳群岛地区 Marianas region
	19	10										



1527	19	03-58-16.5	17.62N	145.20E	41				4.8	2.3	13	马里亚纳群岛地区 Marianas region	
	19	11											
1528	19	07-01-57.1	18.10N	145.17E	36	4.4			4.9	1.5	44	马里亚纳群岛地区 Marianas region	
	19	15											
1529	19	11-15-02.0	38.25N	115.94E	18		2.5			4.0	5	中国东北部 North-Eastern China	
	19	19											
1530	19	11-42-59.8	10.68S	162.43E	127				5.0	1.2	17	所罗门群岛 Solomon Islands	
	19	19											
1531	19	18-45-43.4	37.25N	28.51E	74				5.0	1.2	59	多德卡尼斯群岛 Dodecanese Islands	
	20	02											
1532	19	19-00-04.3	21.21S	68.55W	76		5.7		5.6	1.4	74	智利北部 Northern Chile	
	20	03											
1533	19	21-00-21.2	17.90S	69.39W	128				4.9	2.5	33	智利北部 Northern Chile	
	20	05											
1534	20	00-53-03.8	49.99N	78.67E	2	4.8			4.2	6.1	1.3	98	哈萨克东部 Eastern Kazakhstan
	20	08											
1535	20	01-45-19.1	18.03N	144.75E	35				4.6	1.4	10	马里亚纳群岛地区 Marianas region	
	20	09											
1536	20	05-11-16.1	27.60N	102.89E	5		2.8			3.9	5	四川省 Sichuan Province	
	20	13											
1537	20	05-39-31.6	7.12S	129.70E	84	4.9	5.5		5.6	1.4	93	班达海 Banda Sea	
	20	13											
1538	20	09-56-51.5	18.03N	144.91E	26	4.7	5.2	4.4	5.1	2.4	66	马里亚纳群岛地区 Marianas region	
	20	17											
1539	20	10-23-19.2	18.11N	145.52E	34				4.4	2.8	16	马里亚纳群岛 Marianas	
	20	18											
1540	20	17-43-57.9	17.91N	145.04E	35	4.6			4.7	1.7	45	马里亚纳群岛地区 Marianas region	
	21	01											
1541	20	18-13-10.9	51.74N	173.88W	26				4.4	4.6	2.1	31	安德烈亚诺夫群岛 Andreanof Islands
	21	02											
1542	20	19-19-21.5	23.62N	121.61E	15		2.9			3.0	5	台湾岛 Taiwan	
	21	03											
1543	20	21-35-23.1	39.33N	117.91E	12		2.4			3.7	5	中国东北部 North-Eastern China	
	21	05											
1544	20	21-45-28.5	21.36S	170.31E	180				5.4	1.0	36	洛亚尔提群岛地区 Loyalty Islands region	
	21	05											
1545	20	22-49-04.4	17.90N	145.33E	37				4.5	1.9	27	马里亚纳群岛地区 Marianas region	
	21	06											
1546	21	00-02-46.0	2.28N	126.92E	70	4.7	5.6		5.4	1.5	89	马鲁古海峡 Molucca Passage	
	21	08											
1547	21	01-49-12.3	22.20N	123.84E	14	4.6	4.4	5.3	4.8	4.9	1.5	83	台湾东南以远地区 South-east of Taiwan
	21	09											
1548	21	05-46-08.5	54.39N	162.68W	30	6.6	6.5	6.2	6.2	0.9	99	乌尼马克岛地区 Unimak Island region	
	21	13											
1549	21	05-55-25.5	54.35N	162.64W	32				5.5	1.1	55	乌尼马克岛地区 Unimak Island region	
	21	13											
1550	21	10-09-00.9	57.05S	66.22W	29				5.0	5.5	3.4	30	德雷克海峡 Drake Passage
	21	18											
1551	21	12-28-51.2	21.00S	174.35W	116				4.4	2.2	24	汤加 Tonga	
	21	20											
1552	21	16-18-12.9	18.03N	145.10E	35	4.7			4.6	5.0	2.0	79	马里亚纳群岛地区 Marianas region
	22	00											



1553	21	20-10-53.9	32.43N	137.26E	409		4.3	1.4	42	四国东南以远地区	
	22	04								South-east of Shikoku	
1554	21	22-24-42.4	23.89N	125.33E	23	3.6	4.3	1.9	37	琉球群岛西南部	
	22	06								South-western Ryukyu Islands	
1555	22	03-07-10.7	1.36N	125.91E	30		4.7	1.6	10	马鲁古海峡	
	22	11								Molucca Passage	
1556	22	03-42-41.5	39.84N	106.32E	9	2.8		3.5	5	中国北部	
	22	11								Northern China	
1557	22	05-16-32.9	27.61S	178.42W	289		5.5	5.3	1.1	80 克马德克群岛地区	
	22	13								Kermadec Islands region	
1558	22	11-08-11.1	4.15S	152.97E	51		4.8	1.7	55	新不列颠地区	
	22	19								New Britain region	
1559	22	11-45-10.8	6.16S	147.86E	57		4.3	5.0	1.5	41 新几内亚东部地区	
	22	19								Eastern New Guinea region	
1560	22	15-52-09.4	36.70N	71.29E	187		4.5	1.3	38	兴都库什地区	
	22	23								Hindu Kush region	
1561	22	17-36-29.3	29.55N	128.59E	16	4.1	4.1	3.8	18	中国东海	
	23	01								East China Sea	
1562	22	18-54-08.5	30.60N	102.69E	13	3.3		3.0	8	四川省	
	23	02								Sichuan Province	
1563	22	19-09-59.8	43.95N	86.74E	13	3.9		1.8	8	新疆自治区北部	
	23	03								Northern Xinjiang Province	
1564	22	19-19-35.5	13.76N	120.88E	150		4.5	1.6	25	民都洛岛	
	23	03								Mindoro	
1565	22	19-23-34.1	7.66N	82.06W	6		5.0	5.3	3.5	35 巴拿马以南地区	
	23	03								South of Panama	
1566	23	00-08-21.8	40.47N	122.11E	5	2.8		0.8	5	中国东北部	
	23	08								North-Eastern China	
1567	23	04-27-44.8	11.47S	166.50E	61	5.0	5.2	1.1	57	圣克鲁斯群岛	
	23	12								Santa Cruz Islands	
1568	23	04-54-38.0	46.63N	153.21E	51		4.5	4.7	1.8	33 千岛群岛	
	23	12								Kurile Islands	
1569	23	07-29-08.9	17.45N	146.92E	34		4.8	1.4	36	马里亚纳群岛	
	23	15								Marianas	
1570	23	15-01-58.7	42.01N	85.12E	4	3.7		4.1	9	新疆自治区南部	
	23	23								Southern Xinjiang Province	
1571	23	16-59-46.7	38.09N	101.90E	10	2.5		1.4	6	青海省	
	24	00								Qinghai Province	
1572	23	21-21-25.1	51.05N	176.31W	41		4.9	1.3	32	安德烈亚诺夫群岛	
	24	05								Andreanof Islands	
1573	23	22-26-05.4	20.86S	173.95W	36		4.9	4.7	1.9	17 汤加	
	24	06								Tonga	
1574	24	02-29-43.1	41.02N	74.04E	17	4.8	5.1	4.3	4.9	1.9	49 吉尔吉斯
	24	10									Kirgiziya
1575	24	03-30-31.0	21.13S	173.63E	34	6.3	6.2	6.4	5.7	2.0	88 瓦努阿图(新赫布里底)地区
	24	11									Vanuatu (New Hebrides) region
1576	24	06-09-52.5	2.27S	133.81E	31		4.3	1.7	9	西伊里安地区	
	24	14									West Irian region
1577	24	09-35-20.8	5.04S	102.37E	39		4.8	2.3	25	苏门答腊西南以远地区	
	24	17									South-west of Sumatera
1578	24	10-16-32.1	21.01S	173.47E	35	5.4	5.7	5.4	4.7	2.5	52 洛亚尔提群岛地区
	24	18									Loyalty Islands region



1579	24	10-42-25.1	21.23S	173.78E	34	5.5	5.9	5.6	5.1	2.5	52	瓦努阿图(新赫布里底)地区 Vanuatu (New Hebrides) region
	24	18										
1580	24	13-27-59.4	59.71S	26.06W	32	5.8		5.4	5.3	2.8	45	南桑德韦奇群岛地区 South Sandwich Islands region
	24	21										
1581	24	15-57-13.1	30.34N	102.11E	10	3.8	3.7		4.3	2.2	26	四川省 Sichuan Province
	24	23										
1582	24	17-53-24.2	46.96N	142.36E	35	4.5		4.2	4.6	2.1	30	萨哈林 Sakhalin
	25	01										
1583	24	19-14-10.3	1.78N	127.29E	123				5.1	1.8	45	马鲁古海峡 Molucca Passage
	25	03										
1584	24	19-54-12.9	7.45N	76.27W	24			4.4	5.4	1.8	29	哥伦比亚北部 Northern Colombia
	25	03										
1585	24	20-06-42.1	19.10S	169.16E	183				4.7	0.7	29	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	25	04										
1586	24	21-02-53.4	8.04N	126.60E	75				4.9	1.1	39	棉兰老岛 Mindanao
	25	05										
1587	24	21-33-30.7	40.53N	122.14E	15		2.7			4.4	6	中国东北部 North-Eastern China
	25	05										
1588	24	22-38-40.5	24.46N	121.91E	40	4.7	4.5		4.6	1.9	71	台湾岛 Taiwan
	25	06										
1589	25	02-49-38.2	47.25N	27.44W	9	5.8	5.9	5.4	5.5	1.7	71	北大西洋海岭 North Atlantic Ridge
	25	10										
1590	25	03-27-06.0	41.50N	143.59E	36	4.6		4.7	5.4	1.6	71	北海道地区 Hokkaido region
	25	11										
1591	25	14-45-25.5	37.73N	101.65E	16		2.4			2.9	6	青海省 Qinghai Province
	25	22										
1592	25	15-50-48.5	37.62N	101.37E	14		2.9			4.4	7	青海省 Qinghai Province
	25	23										
1593	26	01-05-40.9	5.89N	126.14E	112				4.8	3.2	21	棉兰老岛 Mindanao
	26	09										
1594	26	01-19-07.0	23.16N	121.26E	14		3.2			3.7	7	台湾岛 Taiwan
	26	09										
1595	26	07-11-58.2	37.21N	141.97E	15	5.2	5.4	5.2	5.4	1.7	94	本州东海岸近海 Near east coast of Honshu
	26	15										
1596	26	08-27-21.3	10.49S	161.39E	92				5.4	1.3	77	所罗门群岛 Solomon Islands
	26	16										
1597	26	16-36-26.0	53.92N	163.76W	25			4.3	4.7	1.3	22	乌尼马克岛地区 Unimak Island region
	27	00										
1598	26	22-04-15.3	3.35S	139.52E	9				4.9	1.3	54	西伊里安 West Irian
	27	06										
1599	26	22-27-35.3	22.24S	169.90E	35				4.7	2.9	21	洛亚尔提群岛地区 Loyalty Islands region
	27	06										
1600	26	23-05-47.4	21.46S	169.16E	25	5.6	6.1	5.8	5.1	1.8	83	洛亚尔提群岛 Loyalty Islands
	27	07										
1601	26	23-19-09.7	36.92N	101.64E	17		4.1			2.7	18	青海省 Qinghai Province
	27	07										
1602	27	00-17-03.1	2.11S	138.33E	20	6.5	6.5	6.5	5.7	1.3	98	西伊里安 West Irian
	27	08										
1603	27	02-49-03.3	2.08S	138.44E	34	5.0			4.6	1.8	44	西伊里安 West Irian
	27	10										
1604	27	03-18-26.3	2.03S	138.50E	34	5.0		4.9	5.2	1.9	56	西伊里安 West Irian
	27	11										



1605	27	03-43-17.3	29.18N	130.57E	67	4.4	5.1	4.8	2.2	55	琉球群岛		
	27	11									Ryukyu Islands		
1606	27	03-56-40.5	29.26N	139.71E	414		4.2	1.1		41	小笠原群岛地区		
	27	11									Bonin Islands region		
1607	27	04-21-55.1	24.66N	122.55E	15	3.5			0.9	10	台湾地区		
	27	12									Taiwan region		
1608	27	05-04-43.2	2.17S	138.37E	34	5.0		4.1	2.3	31	西伊里安		
	27	13									West Irian		
1609	27	07-03-41.0	11.92N	143.75E	34	4.5		4.8	3.3	28	马里亚纳群岛以南地区		
	27	15									South of the Marianas		
1610	27	07-38-56.7	24.37N	121.62E	25	5.4	4.8	5.5	4.9	5.2	2.0	102 台湾岛	
	27	15										Taiwan	
1611	27	08-41-26.0	56.06S	27.36W	70			5.4	3.5	32	南桑德韦奇群岛地区		
	27	16										South Sandwich Islands region	
1612	27	09-03-02.2	30.05N	138.87E	435		4.8		4.9	1.1	82	本州以南地区	
	27	17										South of Honshu	
1613	27	09-09-05.9	14.05S	75.95W	56	5.9			5.9	2.6	82	秘鲁海岸近海	
	27	17										Near coast of Peru	
1614	27	14-33-40.7	21.27S	174.12W	42		5.7	5.3	5.3	1.8	58	汤加	
	27	22										Tonga	
1615	27	16-14-20.6	5.45S	151.92E	63				4.9	1.1	50	新不列颠地区	
	28	00										New Britain region	
1616	27	16-29-16.6	15.45S	172.80W	38	5.3	5.7	5.0	5.1	1.9	52	汤加	
	28	00										Tonga	
1617	27	17-09-11.7	44.22N	149.22E	41	4.4		4.7	4.9	1.7	68	千岛群岛地区	
	28	01										Kurile Islands region	
1618	27	18-35-47.9	19.21N	120.95E	37	4.0	4.0		4.1	2.3	50	吕宋岛	
	28	02										Luzon	
1619	27	22-05-19.7	21.15S	169.38E	33	5.2	5.7	5.3	5.2	1.5	74	洛亚尔提群岛	
	28	06										Loyalty Islands	
1620	27	23-23-38.4	41.30N	142.57E	63	4.1			5.0	1.2	85	本州东海岸近海	
	28	07										Near east coast of Honshu	
1621	28	00-50-17.4	32.87N	24.20E	22	5.1		4.4	5.2	1.4	77	利比亚海岸近海	
	28	08										Near coast of Libya	
1622	28	01-16-36.8	37.66N	101.65E	16	4.6	5.1	5.3		4.9	2.3	78	青海省
	28	09											Qinghai Province
1623	28	01-37-34.5	37.66N	101.50E	5	2.7				4.6	7	青海省	
	28	09											Qinghai Province
1624	28	02-07-06.3	27.21N	100.89E	10	2.6				3.1	6	云南省	
	28	10											Yunnan Province
1625	28	02-37-08.9	0.59S	129.77E	65				4.5	4.3	14	查伊洛洛贾洛洛(哈马黑拉)岛	
	28	10											Djailolo Gilolo (Halmahera)
1626	28	06-15-26.4	37.74N	101.49E	4	3.5				2.4	11	青海省	
	28	14											Qinghai Province
1627	28	09-00-08.2	37.63N	101.46E	17	2.6				4.5	8	青海省	
	28	17											Qinghai Province
1628	28	12-49-09.5	24.04N	114.50E	14	3.7				2.9	18	中国东南沿海	
	28	20											Near south-eastern coast of China
1629	28	13-07-34.8	38.02N	119.35E	8	3.1				3.6	9	中国东北部	
	28	21											North-Eastern China
1630	28	20-46-12.1	32.50N	121.69E	29	3.4				1.3	11	中国东部	
	29	04											Eastern China



1631	28	22-38-03.6	24.73N	122.60E	126			4.8	2.0	68	台湾地区 Taiwan region
	29	06									
1632	29	04-11-27.0	25.51S	175.05W	33			5.1	1.2	25	汤加以南地区 South of Tonga
	29	12									
1633	29	09-55-43.4	53.82N	163.58W	33			4.6	1.9	31	乌尼马克岛地区 Unimak Island region
	29	17									
1634	29	13-14-17.5	37.63N	101.53E	13	2.8			3.0	7	青海省 Qinghai Province
	29	21									
1635	29	22-49-08.3	24.68S	179.88W	489			4.7	1.7	17	斐济以南地区 South of Fiji
	30	06									
1636	30	01-05-28.8	36.69N	70.98E	243		4.9	4.8	1.2	84	兴都库什地区 Hindu Kush region
	30	09									
1637	30	09-17-06.7	36.11N	140.02E	73	4.1		5.0	1.7	69	本州南海岸近海 Near south coast of Honshu
	30	17									
1638	30	12-47-48.3	23.97N	121.73E	25	4.3	4.5	4.1	2.5	63	台湾岛 Taiwan
	30	20									
1639	30	14-11-03.8	39.85N	113.51E	14	2.5		2.5		5	中国东北部 North-Eastern China
	30	22									
1640	30	14-45-34.0	38.52N	104.75E	13	3.1		2.8		8	中国北部 Northern China
	30	22									
1641	30	17-02-34.0	24.93N	120.89E	17	2.6		3.9		5	台湾岛 Taiwan
	1	01									
1642	30	17-49-27.4	15.16S	167.50E	128			4.3	1.4	26	瓦努阿图(新赫布里底) Vanuatu (New Hebrides)
	1	01									
1643	30	18-05-49.2	50.86N	176.50W	57			4.5	2.0	11	安德烈亚诺夫群岛 Andreanof Islands
	1	02									
1644	30	19-08-13.7	50.94N	176.28W	50			4.7	1.7	43	安德烈亚诺夫群岛 Andreanof Islands
	1	03									
1645	30	19-45-17.8	50.98N	176.49W	35			5.0	1.0	28	安德烈亚诺夫群岛 Andreanof Islands
	1	03									
1646	30	23-22-04.6	50.98N	176.52W	46			4.5	1.2	31	安德烈亚诺夫群岛 Andreanof Islands
	1	07									



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



No.	Origin time				Geographic coordinates		Depth (km)	Magnitudes					SD No.	Region and comments
	U T C				Lat	Long		Ms	M <sub>L</sub>	m <sub>B</sub>	Msz	m <sub>b</sub>		
	d	h	min	s					(km)	China	NEIC			used
January 1987														
1	1	15	59	03.1	40.67N	113.72E	24	3.2				1.5	11 中国东北部 North-Eastern China	
	1	23		(BTC)										
2	2	17	08	26.7	42.50N	87.28E	15	3.2				2.0	7 新疆自治区北部 Northern Xinjiang Province	
	3	01												
3	3	12	31	26.6	37.44N	114.44E	9	2.9				3.2	10 中国东部 Eastern China	
	3	20												
4	3	17	52	07.5	44.48N	83.82E	8	3.2				2.0	7 新疆自治区北部 Northern Xinjiang Province	
	4	01												
5	3	20	37	21.4	34.86N	103.72E	11	3.3				2.8	11 甘肃省 Gansu Province	
	4	04												
6	5	04	54	08.2	24.20N	122.12E	32	4.0	4.0		3.6	1.8	30 台湾岛 Taiwan	
	5	12												
7	5	21	24	21.1	40.48N	116.47E	13	3.0				3.0	12 中国东北部 North-Eastern China	
	6	05												
8	5	22	52	46.0	41.95N	81.31E	16	5.8	5.6	5.8	5.9	1.5	104 新疆自治区南部 Southern Xinjiang Province	
	6	06												
9	6	00	05	10.5	22.55N	118.76E	29	3.8	4.1			2.5	17 台湾地区 Taiwan region	
	6	08												
10	6	05	07	47.5	24.01N	121.78E	40	5.9	6.2	5.5	5.8	1.3	82 台湾岛 Taiwan	
	6	13												
11	6	10	45	54.4	21.56N	106.23E	9	4.5	4.5			2.5	39 印度支那半岛 Indo-Pacific Peninsula	
	6	18												
12	6	14	21	14.1	23.16N	117.34E	19	3.3				2.2	5 中国东南沿海 Near south-eastern coast of China	
	6	22												
13	6	16	55	31.5	25.32N	100.08E	11	3.7				2.6	8 云南省 Yunnan Province	
	7	00												
14	6	19	49	54.3	27.28N	101.43E	9	2.8				2.4	10 云南省 Yunnan Province	
	7	03												
15	6	23	46	16.5	23.96N	121.69E	32	4.1	4.3		4.1	2.0	36 台湾岛 Taiwan	
	7	07												
16	7	00	44	33.5	37.26N	114.89E	31	2.7				2.9	7 中国东部 Eastern China	
	7	08												
17	7	08	28	48.9	38.01N	73.08E	136				4.8	1.3	17 塔吉克 Tadzhikistan	
	7	16												
18	7	17	11	50.5	25.16N	123.75E	19	4.5				2.7	31 琉球群岛西南部 South-western Ryukyu Islands	
	8	01												
19	7	18	19	06.2	34.26N	103.36E	20	5.8	5.8	5.5	5.5	2.0	103 四川省 Sichuan Province	
	8	02												
20	7	18	48	21.7	34.38N	103.48E	7	2.8				3.7	5 四川省 Sichuan Province	
	8	02												
21	7	21	36	39.2	34.14N	103.37E	4	2.8				2.1	5 四川省 Sichuan Province	
	8	05												
22	7	21	40	52.7	34.18N	103.60E	8	3.2				3.3	10 甘肃省 Gansu Province	
	8	05												
23	7	22	39	17.5	34.19N	103.27E	14	3.1				1.6	7 四川省 Sichuan Province	
	8	06												



24	7	22-43-59.1	44.34N	81.70E	23	4.1	3.0	15	新疆自治区北部		
	8	06							Northern Xinjiang Province		
25	8	11-35-27.6	34.32N	103.49E	6	3.2	2.2	8	四川省		
	8	19							Sichuan Province		
26	8	16-03-57.9	33.98N	103.32E	10	2.8	3.5	5	四川省		
	9	00							Sichuan Province		
27	8	21-20-26.8	27.82N	101.24E	19	3.4	3.7	2.3	19	云南省	
	9	05							Yunnan Province		
28	9	00-30-26.1	25.13N	123.85E	28	4.3	4.0	4.8	2.8	27	琉球群岛西南部
	9	08									South-western Ryukyu Islands
29	9	01-00-40.4	28.62N	95.20E	33	4.3	4.3	4.6	2.2	61	印度——中国边境地区
	9	09									India-China border region
30	9	02-01-21.2	34.25N	103.42E	6	2.9	2.8	5	四川省		
	9	10									Sichuan Province
31	9	04-22-22.2	27.80N	96.24E	7	3.5	4.3	7	缅甸——印度边境地区		
	9	12									Burma-India border region
32	9	14-25-29.1	43.09N	81.21E	19	3.6	3.3	10	吉尔吉斯——新疆边境地区		
	9	22									Kirgiziya-Xinjiang border region
33	9	17-16-50.8	39.54N	96.95E	12	3.6	3.5	8	甘肃省		
	10	01									Gansu Province
34	10	00-44-05.7	24.88N	121.53E	10	3.9	3.8	2.7	18	台湾岛	
	10	08									Taiwan
35	10	18-27-27.9	25.14N	120.71E	15	3.9	3.7	2.3	20	台湾岛	
	11	02									Taiwan
36	10	18-33-24.1	24.10N	121.76E	25	3.9	4.0	2.1	21	台湾岛	
	11	02									Taiwan
37	11	06-02-49.4	36.72N	80.97E	15	4.2	3.1	10	新疆自治区南部		
	11	14									Southern Xinjiang Province
38	11	12-12-27.3	23.98N	122.28E	31	3.6	3.9	4.0	2.0	29	台湾岛
	11	20									Taiwan
39	11	13-43-47.4	36.04N	100.42E	9	2.9	4.6	9	青海省		
	11	21									Qinghai Province
40	11	17-39-48.2	34.27N	103.39E	8	3.4	2.9	15	四川省		
	12	01									Sichuan Province
41	12	02-20-33.7	41.99N	84.48E	9	3.5	2.2	8	新疆自治区南部		
	12	10									Southern Xinjiang Province
42	12	04-47-29.5	42.07N	118.54E	19	2.9	3.5	7	中国东北部		
	12	12									North-Eastern China
43	12	23-52-55.3	36.40N	114.25E	21	3.1	1.9	10	中国东部		
	13	07									Eastern China
44	13	11-47-33.1	36.09N	81.07E	22	4.2	2.1	8	克什米尔——西藏边境地区		
	13	19									Kashmir-Tibet border region
45	13	16-35-36.0	37.92N	78.10E	19	3.6	3.7	5	新疆自治区南部		
	14	00									Southern Xinjiang Province
46	14	05-39-07.8	34.10N	103.54E	6	3.1	1.9	8	甘肃省		
	14	13									Gansu Province
47	14	17-37-11.4	34.18N	103.22E	5	2.8	4.4	5	四川省		
	15	01									Sichuan Province
48	15	01-56-49.2	35.41N	105.21E	14	3.5	2.7	19	甘肃省		
	15	09									Gansu Province
49	15	06-46-08.4	36.86N	81.16E	10	3.9	4.7	6	新疆自治区南部		
	15	14									Southern Xinjiang Province



50	15	08-10-17.1	44.01N	82.82E	16	3.4				1.9	7	新疆自治区北部 Northern Xinjiang Province
	15	16										
51	15	08-13-54.9	38.23N	121.88E	21	3.6	3.7			3.0	19	中国东北部 North-Eastern China
	15	16										
52	15	12-36-50.3	45.11N	82.54E	17	3.2				1.2	6	新疆自治区北部 Northern Xinjiang Province
	15	20										
53	15	19-41-41.6	22.96N	120.22E	16	4.9	4.7	4.3	4.9	1.8	91	台湾地区 Taiwan region
	16	03										
54	15	22-39-52.2	39.06N	101.35E	1	2.8				2.9	5	甘肃省 Gansu Province
	16	06										
55	15	23-59-11.7	34.23N	103.32E	4	3.0				3.6	5	四川省 Sichuan Province
	16	07										
56	16	04-36-06.1	28.04N	101.01E	4	3.1				2.9	8	云南省 Yunnan Province
	16	12										
57	16	08-37-38.7	40.10N	75.31E	10	3.8				4.5	6	新疆自治区南部 Southern Xinjiang Province
	16	16										
58	16	09-11-18.5	34.27N	103.57E	26	3.2				2.6	9	甘肃省 Gansu Province
	16	17										
59	16	14-09-54.6	28.36N	103.35E	7	2.8				3.2	8	四川省 Sichuan Province
	16	22										
60	16	21-36-57.4	19.97N	121.07E	51	3.4	3.3	4.2	2.0	36	菲律宾群岛地区 Philippine Islands region	
	17	05										
61	17	12-13-21.6	37.35N	112.66E	20	3.1				2.1	10	中国东部 Eastern China
	17	20										
62	17	12-51-56.4	44.02N	80.62E	5	2.9				4.9	5	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	17	20										
63	17	21-00-27.5	37.95N	77.52E	27	3.5				4.4	5	新疆自治区南部 Southern Xinjiang Province
	18	05										
64	18	01-20-04.0	37.78N	77.57E	17	3.5				2.8	6	新疆自治区南部 Southern Xinjiang Province
	18	09										
65	18	14-04-11.9	37.53N	104.58E	15	3.1				1.5	17	中国东北部 North-Eastern China
	18	22										
66	18	18-33-55.5	25.32N	100.06E	9	3.6				1.5	11	云南省 Yunnan Province
	19	02										
67	19	07-46-23.8	28.41N	83.69E	32	4.6	5.2	4.3	5.2	1.4	84	尼泊尔——印度边境地区 Nepal-India border region
	19	15										
68	19	08-12-06.1	28.50N	83.66E	29	4.5	5.0	4.9	1.8	73	尼泊尔 Nepal	
	19	16										
69	21	05-59-51.2	40.77N	120.11E	22	2.8				3.2	12	中国东北部 North-Eastern China
	21	13										
70	21	12-49-34.7	34.20N	103.42E	16	3.0				1.4	6	四川省 Sichuan Province
	21	20										
71	21	17-16-57.1	35.17N	111.04E	11	3.3	3.6			2.4	24	中国东部 Eastern China
	22	01										
72	22	01-21-36.7	36.49N	81.01E	25	4.3				2.0	10	克什米尔——西藏边境地区 Kashmir-Tibet border region
	22	09										
73	22	14-44-09.4	45.94N	90.23E	18	3.4				3.3	9	新疆自治区北部 Northern Xinjiang Province
	22	22										
74	22	17-58-39.4	24.27N	121.79E	10	4.0	4.0			2.0	25	台湾岛 Taiwan
	23	01										
75	22	22-32-04.2	35.61N	81.13E	16	3.9				3.3	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	23	06										



76	23	12-24-04.0	21.68N	119.15E	10	3.9				2.5	9	台湾地区 Taiwan region
	23	20										
77	23	20-14-44.2	34.21N	103.18E	5	3.3				3.3	11	四川省 Sichuan Province
	24	04										
78	24	08-09-20.3	41.47N	79.34E	26	6.4	6.1	5.9	5.9	1.8	101	新疆维吾尔自治区南部 Southern Xinjiang Province
	24	16										
79	24	08-59-34.3	41.38N	79.32E	28	4.2	4.3		4.7	3.0	27	新疆维吾尔自治区南部 Southern Xinjiang Province
	24	16										
80	24	10-34-25.9	27.63N	92.74E	26	4.5	4.8	4.9	4.9	2.0	68	印度——中国边境地区 India-China border region
	24	18										
81	24	13-40-38.5	41.45N	79.23E	23	4.6	5.1		5.2	1.9	59	新疆维吾尔自治区南部 Southern Xinjiang Province
	24	21										
82	25	05-14-43.2	40.84N	93.47E	13					2.7	5	新疆维吾尔自治区南部 Southern Xinjiang Province
	25	13										
83	25	06-10-57.0	41.55N	79.43E	32	4.2	4.2		4.5	3.0	23	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	25	14										
84	25	09-48-21.4	35.27N	99.38E	16		3.3			4.9	6	青海省 Qinghai Province
	25	17										
85	25	18-29-10.8	41.63N	79.15E	26		3.7			3.4	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	26	02										
86	25	20-55-28.6	39.96N	118.88E	18		3.1			3.0	13	中国东北部 North-Eastern China
	26	04										
87	25	20-56-38.3	25.04N	99.43E	10	3.9	3.8			3.0	16	缅甸——中国边境地区 Burma-China border region
	26	04										
88	25	22-49-11.8	41.49N	79.23E	26	3.8	4.1		4.5	2.7	23	新疆维吾尔自治区南部 Southern Xinjiang Province
	26	06										
89	25	23-45-23.5	41.42N	79.44E	30		3.6			4.4	8	新疆维吾尔自治区南部 Southern Xinjiang Province
	26	07										
90	26	05-28-41.8	42.13N	79.04E	11	4.3	4.3		4.5	2.2	21	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	26	13										
91	26	09-26-58.9	37.92N	100.98E	17		2.6			4.1	6	青海省 Qinghai Province
	26	17										
92	27	00-38-47.5	41.31N	79.87E	30		4.0			2.4	8	新疆维吾尔自治区南部 Southern Xinjiang Province
	27	08										
93	27	01-18-05.3	25.34N	100.10E	11		3.3			1.6	6	云南省 Yunnan Province
	27	09										
94	27	06-48-02.2	41.27N	79.26E	25		3.8			3.5	6	新疆维吾尔自治区南部 Southern Xinjiang Province
	27	14										
95	27	07-27-30.4	41.52N	79.46E	22		3.5			4.2	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	27	15										
96	27	19-10-52.7	41.76N	73.73E	31		4.9		4.7	2.0	27	吉尔吉斯 Kirgiziya
	28	03										
97	27	22-56-33.2	47.41N	129.14E	21		3.0			3.6	9	中国东北部 North-Eastern China
	28	06										
98	27	23-34-16.4	24.23N	122.81E	57	4.1	4.5		4.6	1.7	68	台湾地区 Taiwan region
	28	07										
99	28	00-01-39.5	41.44N	79.21E	29		4.3		4.5	2.6	31	新疆维吾尔自治区南部 Southern Xinjiang Province
	28	08										
100	28	00-08-52.6	41.50N	79.29E	5		3.6			3.5	5	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	28	08										
101	28	01-59-37.1	28.32N	103.01E	15		3.5			2.4	15	四川省 Sichuan Province
	28	09										



102	28	12-12-15.5	45.36N	96.08E	33	4.9	5.4	5.1	1.8	82	蒙古 Mongolia
	28	20									
103	28	17-35-45.5	35.41N	106.52E	18		3.0		3.0	9	甘肃省 Gansu Province
	29	01									
104	29	02-06-16.0	24.47N	122.22E	71	3.2		4.1	2.2	26	台湾岛 Taiwan
	29	10									
105	29	07-06-50.0	35.73N	80.85E	31		4.3		5.0	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	29	15									
106	29	07-16-03.3	24.57N	97.51E	15		3.6		2.7	6	缅甸——中国边境地区 Burma-China border region
	29	15									
107	29	20-17-57.7	39.73N	122.83E	16		2.9		2.7	6	中国东北部 North-Eastern China
	30	04									
108	30	03-00-18.1	41.01N	129.14E	17		3.1		1.6	7	北朝鲜 North Korea
	30	11									
109	30	06-10-21.5	30.57N	116.79E	8		2.7		2.1	5	中国东部 Eastern China
	30	14									
110	30	12-00-18.2	41.51N	79.10E	30		3.5		4.4	7	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	30	20									
111	30	12-16-39.1	31.93N	103.50E	14		2.9		2.5	6	四川省 Sichuan Province
	30	20									
112	30	13-11-12.7	36.04N	81.12E	11		4.3		2.3	9	克什米尔——西藏边境地区 Kashmir-Tibet border region
	30	21									
113	30	13-46-21.7	36.05N	81.06E	17		4.2		3.7	5	克什米尔——西藏边境地区 Kashmir-Tibet border region
	30	21									
114	30	14-45-31.6	43.17N	87.56E	19		3.6		2.2	7	新疆自治区北部 Northern Xinjiang Province
	30	22									
115	30	17-34-39.0	37.99N	102.02E	8		3.2		2.4	9	青海省 Qinghai Province
	31	01									

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116	1	04-05-14.3	44.33N	81.49E	12		3.0		2.5	7	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region	
	1	12										
117	1	06-27-45.2	41.58N	119.97E	15		2.8		3.9	8	中国东北部 North-Eastern China	
	1	14										
118	1	09-08-13.3	24.08N	122.54E	31	5.1	4.7	5.2	4.7	5.2	1.6	97 台湾地区 Taiwan region
	1	17										
119	1	11-43-46.3	28.08N	104.80E	10		3.0		1.6	8	云南省 Yunnan Province	
	1	19										
120	2	18-12-56.1	38.71N	75.57E	25		3.9		4.1	3.5	13	新疆自治区南部 Southern Xinjiang Province
	3	02										
121	3	19-21-11.5	41.67N	79.72E	22	3.8	3.5		3.3	8	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	03										
122	3	20-12-00.8	41.56N	79.79E	25	4.3	4.0		2.6	12	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	04										
123	4	03-29-13.3	41.69N	79.52E	23	3.9	3.8		3.5	10	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region	
	4	11										
124	4	07-08-04.0	34.34N	103.46E	16		3.0		1.3	6	四川省 Sichuan Province	
	4	15										
125	4	12-15-17.3	24.41N	122.01E	21	4.6	4.4	4.8	5.0	1.9	92	台湾岛 Taiwan
	4	20										
126	4	18-53-33.1	24.18N	102.69E	14		3.2		4.0	5	云南省 Yunnan Province	
	5	02										



127	4	20-47-28.2	39.60N	114.43E	9	2.7				0.7	5	中国东北部 North-Eastern China
	5	04										
128	5	02-38-59.8	48.59N	85.88E	13	3.7				4.4	5	哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region
	5	10										
129	5	11-04-28.2	22.91N	121.15E	32	4.1	3.9			1.9	28	台湾岛 Taiwan
	5	19										
130	6	10-48-10.2	41.96N	84.20E	17	3.0				4.6	5	新疆自治区南部 Southern Xinjiang Province
	6	18										
131	6	12-02-16.5	44.94N	81.78E	13	3.8				4.9	6	新疆自治区北部 Northern Xinjiang Province
	6	20										
132	6	14-51-34.7	29.28N	102.39E	10	2.8				4.5	7	四川省 Sichuan Province
	6	22										
133	6	15-31-29.5	48.76N	89.44E	15	3.9				2.8	9	蒙古 Mongolia
	6	23										
134	6	17-41-20.8	24.08N	121.83E	32	4.1	4.0	4.5	4.1	2.1	41	台湾岛 Taiwan
	7	01										
135	6	19-12-28.3	40.21N	77.81E	21	4.1				3.0	11	新疆自治区南部 Southern Xinjiang Province
	7	03										
136	7	05-04-04.1	35.13N	82.25E	10	4.2				4.6	5	西藏自治区 Tibet
	7	13										
137	7	07-30-04.4	35.63N	80.57E	9	4.4				4.0	12	克什米尔——西藏边境地区 Kashmir-Tibet border region
	7	15										
138	7	12-35-49.9	39.55N	123.14E	6	2.8				2.0	8	中国东北部 North-Eastern China
	7	20										
139	8	03-29-18.8	34.61N	81.08E	33	4.4	3.9		4.5	2.8	15	西藏自治区 Tibet
	8	11										
140	9	05-10-52.0	34.26N	103.27E	11	3.8				2.6	17	四川省 Sichuan Province
	9	13										
141	9	13-40-08.1	34.29N	103.30E	11	3.1				1.7	6	四川省 Sichuan Province
	9	21										
142	9	19-30-17.1	35.27N	110.99E	12	2.9				3.7	9	中国东部 Eastern China
	10	03										
143	11	10-52-27.2	26.13N	100.65E	3					4.8	5	云南省 Yunnan Province
	11	18										
144	11	20-11-08.1	34.35N	103.19E	10	3.3				2.2	8	四川省 Sichuan Province
	12	04										
145	11	21-37-29.5	44.04N	84.66E	13	3.3				1.1	8	新疆自治区北部 Northern Xinjiang Province
	12	05										
146	12	16-35-13.8	39.90N	77.23E	9	3.4				3.3	7	新疆自治区南部 Southern Xinjiang Province
	13	00										
147	13	21-33-50.6	34.78N	80.10E	20	4.0				2.6	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	14	05										
148	14	23-03-13.8	41.51N	79.52E	26	4.4	4.3	4.0	4.7	2.7	36	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	15	07										
149	15	09-02-37.8	29.04N	104.75E	18	3.3				2.3	11	四川省 Sichuan Province
	15	17										
150	15	13-34-38.4	48.12N	122.08E	9	2.4				3.2	5	中国东北部 North-Eastern China
	15	21										
151	16	02-22-46.0	22.85N	120.71E	29	4.4	4.4	4.9	4.8	2.6	50	台湾岛 Taiwan
	16	10										
152	16	15-23-50.2	36.02N	81.27E	20	4.2				3.0	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	16	23										



153	17	00-51-08.7	33.56N	120.17E	11	2.8				3.0	7	中国东部 Eastern China
	17	08										
154	17	01-26-01.7	33.49N	119.92E	10	2.7				1.2	7	中国东部 Eastern China
	17	09										
155	17	03-03-22.8	33.57N	120.76E	11	5.0	5.5	4.5	5.1	1.6	96	中国东部 Eastern China
	17	11										
156	17	05-56-43.7	37.85N	101.87E	7	3.4				2.8	10	青海省 Qinghai Province
	17	13										
157	17	13-56-34.8	39.93N	75.19E	32	3.7				2.3	6	新疆自治区南部 Southern Xinjiang Province
	17	21										
158	17	17-12-03.9	40.63N	107.87E	10	3.2				3.3	9	中国北部 Northern China
	18	01										
159	18	02-17-18.6	38.15N	100.78E	7	3.1				5.0	6	青海省 Qinghai Province
	18	10										
160	18	09-40-03.7	37.75N	101.55E	9	2.7				2.9	5	青海省 Qinghai Province
	18	17										
161	18	18-49-25.6	38.45N	116.56E	13	2.9				1.3	6	中国东北部 North-Eastern China
	19	02										
162	20	13-10-35.6	24.22N	122.08E	31	3.6	4.2			3.9	2.3	37 台湾岛 Taiwan
	20	21										
163	21	01-50-08.3	30.49N	101.61E	9	3.8				2.6	21	四川省 Sichuan Province
	21	09										
164	21	16-04-26.4	42.66N	79.89E	17	3.7				3.0	9	阿拉木图地区 Alma-Ata region
	22	00										
165	22	13-15-25.4	36.05N	101.28E	15	3.1				3.2	9	青海省 Qinghai Province
	22	21										
166	22	20-38-02.7	25.41N	100.03E	7	3.6				1.0	7	云南省 Yunnan Province
	23	04										
167	23	07-07-28.8	33.78N	116.47E	5	2.9				2.6	7	中国东部 Eastern China
	23	15										
168	23	07-45-23.9	24.44N	123.49E	29	3.9	3.2			4.4	2.6	23 台湾地区 Taiwan region
	23	15										
169	23	15-03-53.9	25.00N	123.81E	15	4.7	4.2			4.7	2.3	49 琉球群岛西南部 South-western Ryukyu Islands
	23	23										
170	23	18-19-01.9	25.06N	123.84E	15	5.4	5.8			4.7	2.0	86 琉球群岛西南部 South-western Ryukyu Islands
	24	02										
171	23	22-31-04.4	41.43N	79.24E	24	4.4	4.5			4.6	2.2	40 新疆自治区南部 Southern Xinjiang Province
	24	06										
172	24	09-09-54.6	39.73N	118.20E	14	3.1				2.7	13	中国东北部 North-Eastern China
	24	17										
173	24	09-58-35.7	40.67N	122.79E	12	2.8				1.9	8	中国东北部 North-Eastern China
	24	17										
174	25	19-56-34.3	38.06N	91.25E	24	6.1	6.1	5.7	5.7	1.7	98	新疆自治区南部 Southern Xinjiang Province
	26	03										
175	25	20-27-23.1	38.14N	91.26E	23	4.3	4.6	5.1	5.0	2.1	52	新疆自治区南部 Southern Xinjiang Province
	26	04										
176	26	08-58-41.1	37.97N	91.22E	20	3.7	4.3			4.3	3.2	22 新疆自治区南部 Southern Xinjiang Province
	26	16										
177	28	05-00-01.0	29.94N	101.82E	14	3.1				2.2	11	四川省 Sichuan Province
	28	13										
178	28	17-23-03.1	39.83N	106.35E	4	3.8	4.3			2.8	29	中国北部 Northern China
	1	01										



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179	1	09-26-57.3	43.83N	86.26E	5	2.8				4.8	7	新疆自治区北部 Northern Xinjiang Province	
	1	17											
180	1	11-48-57.0	37.30N	114.99E	21	2.7				4.3	6	中国东部 Eastern China	
	1	19											
181	1	13-31-07.4	28.73N	95.91E	16	3.9			5.1	2.4	45	印度——中国边境地区 India-China border region	
	1	21											
182	1	16-45-48.0	23.73N	105.92E	9	3.5	3.8			2.8	15	云南省 Yunnan Province	
	2	00											
183	2	02-58-02.4	25.43N	99.99E	16	3.7				2.3	7	云南省 Yunnan Province	
	2	10											
184	2	06-27-27.5	37.80N	101.59E	14	3.6				2.4	9	青海省 Qinghai Province	
	2	14											
185	3	00-03-56.8	40.07N	76.12E	14	3.8				5.0	7	新疆自治区南部 Southern Xinjiang Province	
	3	08											
186	3	01-27-25.9	34.37N	103.61E	16	4.4	4.6		4.3	3.0	38	甘肃省 Gansu Province	
	3	09											
187	3	09-41-31.1	41.35N	79.29E	15	5.0	5.0	5.0	5.0	5.1	1.9	62	新疆自治区南部 Southern Xinjiang Province
	3	17											
188	3	18-23-48.4	30.37N	106.76E	16	2.7				2.4	6	四川省 Sichuan Province	
	4	02											
189	3	22-38-16.9	23.87N	121.65E	16	4.3	4.3			3.1	20	台湾岛 Taiwan	
	4	06											
190	4	00-08-52.8	34.34N	103.41E	19	3.3				2.0	7	四川省 Sichuan Province	
	4	08											
191	4	02-55-47.2	24.14N	121.98E	30	3.4	3.9		3.9	1.3	34	台湾岛 Taiwan	
	4	10											
192	4	03-45-15.9	36.08N	105.92E	15	2.9				2.6	6	甘肃省 Gansu Province	
	4	11											
193	4	22-10-36.2	38.57N	77.41E	15	3.8				3.8	8	新疆自治区南部 Southern Xinjiang Province	
	5	06											
194	5	02-33-40.3	35.56N	87.38E	31	4.8			4.5	2.5	40	西藏自治区 Tibet	
	5	10											
195	5	19-13-21.0	40.85N	123.27E	6	2.9				1.8	7	中国东北部 North-Eastern China	
	6	03											
196	5	22-10-45.2	38.80N	125.92E	29	3.9	4.3			2.6	20	北朝鲜 North Korea	
	6	06											
197	5	23-32-54.7	39.52N	118.25E	16	2.7				1.0	6	中国东北部 North-Eastern China	
	6	07											
198	6	03-56-55.3	40.26N	77.64E	17	3.7				3.5	7	新疆自治区南部 Southern Xinjiang Province	
	6	11											
199	7	15-25-43.2	24.76N	123.49E	36	3.8	3.2		4.1	2.3	22	台湾地区 Taiwan region	
	7	23											
200	7	19-49-03.9	35.90N	95.53E	5	3.0				3.0	5	青海省 Qinghai Province	
	8	03											
201	8	05-10-02.1	25.55N	124.64E	179				4.3	1.2	39	台湾东北以远地区 North-east of Taiwan	
	8	13											
202	8	11-26-26.7	43.86N	87.24E	13	3.0				1.8	6	新疆自治区北部 Northern Xinjiang Province	
	8	19											
203	8	14-35-58.5	37.86N	102.05E	8	3.3				2.0	12	青海省 Qinghai Province	
	8	22											



204	9	02-48-41.3	25.28N	100.05E	6	3.8	3.2	8	云南省
	9	10							Yunnan Province
205	9	03-13-36.3	38.22N	73.92E	21	4.3 4.4	4.4 4.8	2.2	32 塔吉克
	9	11							Tadzhikistan
206	9	14-24-18.9	29.59N	103.36E	17	3.1	4.9	7	四川省
	9	22							Sichuan Province
207	9	17-46-02.9	36.37N	80.96E	2	3.8	3.5	7	克什米尔——西藏边境地区
	10	01							Kashmir-Tibet border region
208	9	20-32-18.7	22.22N	120.32E	36	4.3 4.0	4.5 4.5	2.7	57 台湾地区
	10	04							Taiwan region
209	9	23-37-57.1	30.06N	101.78E	17	2.8	3.6	5	四川省
	10	07							Sichuan Province
210	10	12-02-35.6	28.36N	103.43E	11	3.0	2.3	6	四川省
	10	20							Sichuan Province
211	10	19-03-33.8	27.12N	103.07E	7	2.6	1.9	5	四川省
	11	03							Sichuan Province
212	11	02-15-02.2	25.03N	123.15E	169		4.8	1.2	79 台湾地区
	11	10							Taiwan region
213	11	16-39-24.5	46.92N	90.36E	13	3.7	2.5	7	新疆自治区北部
	12	00							Northern Xinjiang Province
214	12	04-23-59.1	35.06N	117.10E	10	2.8	0.8	5	中国东部
	12	12							Eastern China
215	12	19-25-60.0	35.79N	80.93E	16	4.4	2.2	11	克什米尔——西藏边境地区
	13	03							Kashmir-Tibet border region
216	14	01-45-19.4	35.73N	117.84E	17	3.1	4.4	5	中国东部
	14	09							Eastern China
217	14	23-14-54.8	24.00N	122.28E	33	3.7 4.0	4.4	1.8	39 台湾岛
	15	07							Taiwan
218	16	09-57-20.2	26.49N	100.86E	2	3.0	2.9	5	云南省
	16	17							Yunnan Province
219	16	10-28-57.6	39.37N	72.99E	52	3.9 4.3	4.5	1.9	26 塔吉克
	16	18							Tadzhikistan
220	16	12-01-02.0	26.54N	100.83E	10	3.4	2.9	6	云南省
	16	20							Yunnan Province
221	16	13-23-20.2	26.38N	100.94E	2	3.1	2.5	7	云南省
	16	21							Yunnan Province
222	16	21-00-23.1	34.25N	103.35E	6	3.2	2.4	6	四川省
	17	05							Sichuan Province
223	17	10-11-16.7	37.99N	120.61E	14	3.2	0.6	5	中国东北部
	17	18							North-Eastern China
224	17	15-12-00.2	35.57N	81.00E	0	4.3	3.0	10	克什米尔——西藏边境地区
	17	23							Kashmir-Tibet border region
225	17	16-29-58.6	37.57N	114.54E	12	3.2	1.9	12	中国东北部
	18	00							North-Eastern China
226	17	16-44-23.3	37.60N	114.52E	18	3.3	3.6	12	中国东北部
	18	00							North-Eastern China
227	18	09-14-06.0	37.55N	114.56E	5	2.8	3.9	6	中国东北部
	18	17							North-Eastern China
228	18	14-06-12.7	26.03N	96.90E	14	3.6	4.3	5	缅甸
	18	22							Burma
229	18	17-11-27.9	34.46N	80.84E	15	4.1	4.8	5	西藏自治区
	19	01							Tibet



230	18	20-59-56.7	24.79N	102.31E	9	3.5		2.1	12	云南省
	19	04								Yunnan Province
231	19	07-13-35.5	24.10N	122.19E	34	4.3	4.3	4.4	2.2	50 台湾岛
	19	15								Taiwan
232	20	17-12-24.8	44.93N	92.44E	14	3.9	4.2	2.7	13	新疆自治区北部
	21	01								Northern Xinjiang Province
233	20	23-00-22.8	38.34N	114.32E	16	3.9	4.2	4.3	2.1	52 中国东北部
	21	07								North-Eastern China
234	21	04-43-02.2	31.18N	79.83E	50	4.9		2.6	6	西藏——印度边境地区
	21	12								Tibet-India border region
235	21	13-15-12.3	25.66N	124.95E	90	4.3		4.6	2.3	41 台湾东北以远地区
	21	21								North-east of Taiwan
236	22	10-30-20.5	25.86N	96.74E	11	4.2	4.3	4.7	2.4	42 缅甸
	22	18								Burma
237	23	16-32-34.5	34.27N	103.53E	12	3.7		3.5	9	甘肃省
	24	00								Gansu Province
238	24	15-23-33.1	33.44N	121.31E	9	3.5		3.6	9	中国东部
	24	23								Eastern China
239	25	12-25-19.8	40.65N	122.65E	8	3.1		3.0	10	中国东北部
	25	20								North-Eastern China
240	25	18-36-18.8	29.05N	101.12E	11	3.4		2.5	15	四川省
	26	02								Sichuan Province
241	26	09-47-60.0	36.80N	111.54E	16	3.3		2.9	10	中国东部
	26	17								Eastern China
242	26	10-13-47.8	39.74N	118.46E	7	3.1		2.6	10	中国东北部
	26	18								North-Eastern China
243	26	21-09-19.7	24.88N	96.28E	18	4.6	4.3	4.7	2.0	62 缅甸
	27	05								Burma
244	27	15-54-36.3	21.56N	121.11E	31	3.7	3.9	4.1	2.1	37 台湾地区
	27	23								Taiwan region
245	27	20-01-55.9	39.80N	75.25E	17	4.0		2.6	5	新疆自治区南部
	28	04								Southern Xinjiang Province
246	27	22-53-17.5	31.81N	90.98E	32	4.2		3.9	2.1	29 西藏自治区
	28	06								Tibet
247	28	04-42-08.8	46.92N	83.06E	10	3.2		1.8	5	哈萨克——新疆边境地区
	28	12								Kazakhstan-Xinjiang border region
248	28	06-33-04.6	43.71N	88.25E	8	3.7		4.0	8	新疆自治区北部
	28	14								Northern Xinjiang Province
249	28	08-24-07.6	29.20N	104.77E	19	2.9		2.5	5	四川省
	28	16								Sichuan Province
250	28	08-48-49.5	26.45N	103.14E	17	4.0	4.1	4.2	2.9	44 云南省
	28	16								Yunnan Province
251	28	16-02-19.3	34.19N	103.26E	16	3.6	4.1	2.9	21	四川省
	29	00								Sichuan Province
252	28	20-35-04.3	21.73N	111.64E	3	3.1		3.1	5	中国东部
	29	04								Eastern China
253	29	07-32-19.9	40.65N	122.89E	14	3.1		1.4	8	中国东北部
	29	15								North-Eastern China
254	29	14-10-08.5	42.83N	84.11E	13	3.4		3.4	6	新疆自治区北部
	29	22								Northern Xinjiang Province
255	29	18-01-35.9	37.59N	102.80E	2	2.6		2.8	5	甘肃省
	30	02								Gansu Province



256	29	20-28-31.0	38.09N	95.39E	6	3.2			3.3	5	青海省 Qinghai Province
	30	04									
257	29	23-16-44.7	27.14N	100.08E	17	4.5	4.4		5.0	1.9	73 云南省 Yunnan Province
	30	07									
258	30	22-33-45.1	38.66N	116.07E	3	3.1			3.1	9	中国东北部 North-Eastern China
	31	06									
259	31	06-55-50.7	37.17N	104.24E	5	2.8			4.3	5	甘肃省 Gansu Province
	31	14									
260	31	06-57-52.9	29.90N	102.80E	12	3.6			4.1	13	四川省 Sichuan Province
	31	14									
April 1987											
261	1	17-35-26.8	33.20N	120.44E	13	3.5	4.1		2.6	26	中国东部 Eastern China
	2	01									
262	2	13-28-03.6	36.43N	81.04E	15	4.0			3.8	7	克什米尔——西藏边境地区 Kashmir-Tibet border region
	2	21									
263	2	13-30-42.5	35.88N	80.76E	21	4.6	4.9	4.1 4.8	2.2	44	克什米尔——西藏边境地区 Kashmir-Tibet border region
	2	21									
264	4	11-00-27.4	41.54N	79.14E	27	3.1			3.0	8	吉尔吉斯——新疆边境地区 Kirgiziya-Xinjiang border region
	4	19									
265	4	12-40-35.1	34.01N	114.59E	12	2.8			4.0	8	中国东部 Eastern China
	4	20									
266	4	17-45-12.7	42.55N	80.10E	29	4.2	4.3	4.1 4.1	2.2	33	阿拉木图地区 Alma-Ata region
	5	01									
267	6	08-42-46.4	39.48N	118.15E	12	2.9			3.3	9	中国东北部 North-Eastern China
	6	16									
268	7	15-31-50.3	44.06N	84.66E	15	2.6			3.4	5	新疆自治区北部 Northern Xinjiang Province
	7	23									
269	7	17-10-08.2	35.37N	105.10E	17	3.0			1.2	7	甘肃省 Gansu Province
	8	01									
270	7	21-17-11.1	35.44N	77.88E	20	4.4			3.7	10	克什米尔东部 Eastern Kashmir
	8	05									
271	8	15-42-33.1	37.01N	81.23E	15	4.1			4.3	7	新疆自治区南部 Southern Xinjiang Province
	8	23									
272	9	05-18-42.5	38.69N	98.61E	20	3.0			1.9	8	青海省 Qinghai Province
	9	13									
273	9	07-25-33.4	35.48N	87.01E	24	5.2	5.3 4.9 4.8		1.9	74	西藏自治区 Tibet
	9	15									
274	9	17-26-22.4	21.76N	111.67E	10	4.4			3.7	16	中国东部 Eastern China
	10	01									
275	9	18-04-04.7	21.98N	112.47E	30	3.2			4.5	5	中国东部 Eastern China
	10	02									
276	9	20-01-17.8	35.83N	80.65E	27	4.7	4.6 5.0	4.9	2.6	60	克什米尔——西藏边境地区 Kashmir-Tibet border region
	10	04									
277	10	09-29-24.3	40.42N	109.01E	14	3.4			2.6	9	中国北部 Northern China
	10	17									
278	10	10-32-29.6	37.61N	79.09E	22	4.2			3.4	7	新疆自治区南部 Southern Xinjiang Province
	10	18									
279	11	17-17-43.4	23.68N	121.69E	13	4.5	4.5	4.2	2.6	71	台湾岛 Taiwan
	12	01									
280	11	18-13-24.9	23.97N	122.09E	26	5.4	5.1 5.3	5.6	1.9	105	台湾岛 Taiwan
	12	02									



281	11	20-44-31.2	39.48N	106.81E	20	3.4		3.4	15	中国北部	
	12	04								Northern China	
282	12	03-25-48.9	27.51N	101.18E	13	2.5		2.8	5	云南省	
	12	11								Yunnan Province	
283	13	15-05-14.5	32.75N	104.02E	15	3.3		2.8	14	四川省	
	13	23								Sichuan Province	
284	14	12-22-04.5	42.33N	79.57E	20	3.6		1.6	7	吉尔吉斯——新疆边境地区	
	14	20								Kirgiziya-Xinjiang border region	
285	15	04-53-49.5	20.60N	120.13E	27	4.2	3.7	4.6	2.6	54 菲律宾群岛地区	
	15	12								Philippine Islands region	
286	15	21-51-54.0	35.98N	77.47E	20	4.2		3.8	7	克什米尔东部	
	16	05								Eastern Kashmir	
287	16	04-06-21.5	36.59N	105.64E	13	2.8		1.6	6	中国北部	
	16	12								Northern China	
288	17	05-10-47.9	24.27N	122.13E	15	4.4	4.6	4.7	1.9	72 台湾岛	
	17	13								Taiwan	
289	17	13-13-08.3	29.57N	101.96E	10	2.8		1.8	5	四川省	
	17	21								Sichuan Province	
290	17	15-47-18.6	37.08N	104.41E	20	2.8		1.3	7	甘肃省	
	17	23								Gansu Province	
291	17	20-10-52.8	23.46N	114.68E	10	3.4		2.4	12	中国东南沿海	
	18	04								Near south-eastern coast of China	
292	17	23-57-53.6	42.47N	80.19E	26	3.5		2.8	6	吉尔吉斯——新疆边境地区	
	18	07								Kirgiziya-Xinjiang border region	
293	18	12-49-36.2	23.97N	121.82E	28	4.5	4.8	5.0	1.7	76 台湾岛	
	18	20								Taiwan	
294	18	13-41-35.2	44.05N	114.14E	7	3.2		2.6	6	中国东北部	
	18	21								North-Eastern China	
295	18	15-48-42.8	23.51N	114.64E	10	3.2		2.7	9	中国东南沿海	
	18	23								Near south-eastern coast of China	
296	18	17-42-18.0	23.46N	114.65E	11	3.3		3.2	8	中国东南沿海	
	19	01								Near south-eastern coast of China	
297	18	19-31-02.7	23.70N	114.51E	10	3.1		3.3	7	中国东南沿海	
	19	03								Near south-eastern coast of China	
298	18	20-48-27.1	34.54N	80.17E	32	4.8	4.7	4.7	4.6	2.1	50 克什米尔——西藏边境地区
	19	04									Kashmir-Tibet border region
299	18	21-22-45.3	23.96N	121.80E	26	3.9		3.9	2.3	28 台湾岛	
	19	05								Taiwan	
300	20	17-17-14.6	21.74N	120.32E	45	3.7		4.1	2.0	28 台湾地区	
	21	01								Taiwan region	
301	21	14-17-13.6	40.62N	87.24E	25	3.7		2.6	8	新疆自治区南部	
	21	22								Southern Xinjiang Province	
302	21	17-20-39.4	39.57N	118.51E	17	3.4		2.7	16	中国东北部	
	22	01								North-Eastern China	
303	22	09-02-32.0	40.40N	122.19E	25	3.0		4.9	5	中国东北部	
	22	17								North-Eastern China	
304	22	20-40-10.0	24.25N	116.33E	19	3.0		2.2	8	中国东南沿海	
	23	04								Near south-eastern coast of China	
305	22	22-42-58.9	20.50N	121.30E	33	3.5		4.5	2.3	25 菲律宾群岛地区	
	23	06								Philippine Islands region	
306	23	08-10-17.2	43.71N	82.71E	27	2.9		3.7	6	新疆自治区北部	
	23	16								Northern Xinjiang Province	



307	23	12-14-28.2	43.56N	83.13E	13		3.6		3.3	9	新疆自治区北部 Northern Xinjiang Province	
	23	20										
308	23	17-06-03.3	24.06N	123.61E	51	3.7	3.4		4.5	1.7	26 琉球群岛西南部 South-western Ryukyu Islands	
	24	01										
309	23	20-40-44.1	24.04N	121.80E	31	4.1	4.2		4.2	2.1	49 台湾岛 Taiwan	
	24	04										
310	24	05-47-08.9	47.21N	83.67E	15		4.4		3.0		11 哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region	
	24	13										
311	24	10-21-09.7	46.60N	83.49E	19		2.9		2.9		6 哈萨克——新疆边境地区 Kazakhstan-Xinjiang border region	
	24	18										
312	25	08-19-13.4	19.94N	121.39E	34		3.8		4.4	2.0	29 菲律宾群岛地区 Philippine Islands region	
	25	16										
313	25	17-02-38.1	34.21N	103.27E	20		3.6		2.5		15 四川省 Sichuan Province	
	26	01										
314	26	09-05-52.6	38.03N	99.49E	15		2.8		3.2		6 青海省 Qinghai Province	
	26	17										
315	26	11-57-31.1	40.60N	122.77E	15		2.9		2.1		7 中国东北部 North-Eastern China	
	26	19										
316	26	20-07-35.9	39.83N	73.71E	10		4.0		5.1		7 塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	27	04										
317	26	20-35-27.6	23.38N	121.66E	18	4.4	4.3		4.5	2.1	41 台湾地区 Taiwan region	
	27	04										
318	26	21-15-24.7	38.21N	94.19E	16		4.2		2.1		13 青海省 Qinghai Province	
	27	05										
319	27	11-47-35.8	40.58N	79.77E	22		3.8		4.1		9 新疆自治区南部 Southern Xinjiang Province	
	27	19										
320	27	13-56-22.9	33.25N	103.63E	14		2.7		3.6		5 四川省 Sichuan Province	
	27	21										
321	29	19-43-26.2	35.46N	77.73E	15		3.9		2.8		9 克什米尔东部 Eastern Kashmir	
	30	03										
322	30	01-34-04.4	43.18N	86.68E	31		3.1		3.6		5 新疆自治区北部 Northern Xinjiang Province	
	30	09										
323	30	03-42-34.1	39.45N	124.18E	13		4.0		2.7		16 中国东北部 North-Eastern China	
	30	11										
324	30	05-17-38.9	39.78N	74.53E	26	5.8	6.0	5.8	5.6	5.7	1.3	92 新疆自治区南部 Southern Xinjiang Province
	30	13										
325	30	06-27-39.5	39.77N	74.15E	12		4.3		3.4		10 塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	30	14										
326	30	06-54-57.3	39.76N	74.47E	16	4.3	4.3		4.3	2.1	24 塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	30	14										
327	30	10-35-56.3	34.41N	100.32E	20	3.4	3.6		3.0		14 青海省 Qinghai Province	
	30	18										
328	30	10-53-35.1	34.40N	100.43E	19	3.8	3.8		3.0		19 青海省 Qinghai Province	
	30	18										
May 1987												
329	1	04-32-29.9	25.07N	104.27E	5		3.1		4.5		5 云南省 Yunnan Province	
	1	12										
330	1	10-57-39.2	37.66N	102.67E	4		2.8		2.3		6 甘肃省 Gansu Province	
	1	18										
331	1	16-42-43.7	24.33N	120.29E	14		2.7		2.7		9 台湾地区 Taiwan region	
	2	00										



332	2	08-10-38.9	33.61N	103.96E	14	3.8	3.9	3.1	20	甘肃省
	2	16								Gansu Province
333	2	21-38-29.0	39.82N	74.22E	13		4.1	2.9	14	塔吉克——新疆边境地区
	3	05								Tadzhikistan-Xinjiang border region
334	3	10-28-06.5	24.09N	118.97E	19		3.2	3.2	7	台湾地区
	3	18								Taiwan region
335	3	14-34-28.2	41.92N	84.08E	13		3.5	2.0	10	新疆自治区南部
	3	22								Southern Xinjiang Province
336	3	15-46-07.2	37.97N	102.10E	11		3.2	1.6	8	青海省
	3	23								Qinghai Province
337	3	17-21-22.7	28.46N	127.74E	222	5.5		5.3	1.6	90 琉球群岛
	4	01								Ryukyu Islands
338	3	23-18-54.8	34.18N	103.43E	3		3.5	3.0	12	四川省
	4	07								Sichuan Province
339	4	09-47-46.3	37.58N	72.28E	192			4.5	1.5	28 阿富汗——苏联边境地区
	4	17								Afghanistan-USSR border region
340	4	19-06-52.5	21.86N	121.70E	30	4.4	3.8	4.4	2.3	53 台湾地区
	5	03								Taiwan region
341	5	04-04-07.6	34.48N	104.61E	14		3.8	3.3	23	甘肃省
	5	12								Gansu Province
342	5	04-33-44.0	45.00N	93.79E	14		3.9	2.4	11	新疆自治区北部
	5	12								Northern Xinjiang Province
343	6	01-47-29.6	28.82N	103.68E	14		2.5	2.5	5	四川省
	6	09								Sichuan Province
344	6	09-10-35.7	35.06N	106.78E	18		3.1	1.5	8	甘肃省
	6	17								Gansu Province
345	7	04-14-44.4	37.65N	102.55E	6		3.1	2.1	8	甘肃省
	7	12								Gansu Province
346	7	15-22-55.8	28.20N	129.06E	96			4.1	1.9	24 琉球群岛
	7	23								Ryukyu Islands
347	7	15-30-06.3	42.01N	84.09E	5		3.3	2.2	10	新疆自治区南部
	7	23								Southern Xinjiang Province
348	7	17-51-58.9	41.40N	79.57E	6		3.6	3.5	10	新疆自治区南部
	8	01								Southern Xinjiang Province
349	7	21-52-41.1	27.02N	129.44E	38	4.1		4.7	2.9	25 琉球群岛
	8	05								Ryukyu Islands
350	8	09-17-00.2	23.62N	120.52E	14		3.1	2.0	8	台湾岛
	8	17								Taiwan
351	8	18-20-22.7	26.17N	100.53E	14		3.9	3.0	13	云南省
	9	02								Yunnan Province
352	8	19-45-32.1	18.18N	119.79E	22	4.5	3.9	4.4	2.1	46 菲律宾群岛地区
	9	03								Philippine Islands region
353	8	19-54-27.1	26.11N	100.57E	17		3.6	2.9	13	云南省
	9	03								Yunnan Province
354	8	23-45-32.4	23.06N	119.10E	16		2.9	3.1	13	台湾地区
	9	07								Taiwan region
355	9	10-12-14.3	35.14N	80.10E	5		4.4	3.5	7	克什米尔——西藏边境地区
	9	18								Kashmir-Tibet border region
356	9	19-04-37.4	26.41N	99.55E	15		3.8	3.2	11	云南省
	10	03								Yunnan Province
357	10	03-36-21.4	36.87N	82.85E	11		4.5	4.6	2.5	15 新疆自治区南部
	10	11								Southern Xinjiang Province



358	10	05-10-34.3	27.43N	86.69E	16				2.5	6	尼泊尔——印度边境地区 Nepal-India border region
	10	13									
359	10	05-12-27.8	25.84N	98.51E	7	3.4			2.8	6	缅甸——中国边境地区 Burma-China border region
	10	13									
360	10	20-19-29.5	44.20N	79.53E	16	4.4	4.5		4.5	2.9	27 阿拉木图地区 Alma-Ata region
	11	04									
361	10	20-47-55.0	25.82N	98.52E	5	3.5			2.0	6	缅甸——中国边境地区 Burma-China border region
	11	04									
362	10	21-38-15.3	32.88N	104.25E	14	3.7	4.1		3.0	23	四川省 Sichuan Province
	11	05									
363	11	09-21-40.2	32.78N	104.42E	10	3.5			2.5	12	四川省 Sichuan Province
	11	17									
364	11	14-12-26.7	32.89N	104.23E	14	3.7			2.4	20	四川省 Sichuan Province
	11	22									
365	12	08-16-47.3	43.86N	85.51E	9	3.1			3.3	6	新疆自治区北部 Northern Xinjiang Province
	12	16									
366	12	12-10-29.9	42.02N	83.56E	9	3.6			3.3	9	新疆自治区南部 Southern Xinjiang Province
	12	20									
367	12	23-06-13.2	37.61N	94.67E	6	3.5			2.5	11	青海省 Qinghai Province
	13	07									
368	13	05-11-11.0	35.75N	81.19E	17	4.1			5.0	6	克什米尔——西藏边境地区 Kashmir-Tibet border region
	13	13									
369	13	05-37-42.2	27.58N	101.68E	14	3.2			3.0	9	四川省 Sichuan Province
	13	13									
370	14	13-52-23.1	39.91N	104.78E	16	2.8			3.8	6	中国北部 Northern China
	14	21									
371	14	15-31-02.2	22.55N	121.35E	37	4.6	4.7	3.9	5.0	1.6	72 台湾岛 Taiwan
	14	23									
372	15	03-41-27.8	31.70N	103.57E	16	3.9	4.1		4.5	2.3	42 四川省 Sichuan Province
	15	11									
373	15	11-26-27.6	37.58N	101.92E	12	2.7			4.2	6	青海省 Qinghai Province
	15	19									
374	15	11-30-30.0	38.72N	116.49E	4	2.5			1.7	5	中国东北部 North-Eastern China
	15	19									
375	15	13-20-39.2	24.37N	121.34E	1	3.4			1.3	10	台湾岛 Taiwan
	15	21									
376	16	04-10-33.4	26.03N	98.48E	15	4.3			4.1	3.0	22 缅甸——中国边境地区 Burma-China border region
	16	12									
377	16	09-29-41.7	48.59N	130.81E	14	3.3			4.5	7	俄罗斯东部——中国东北边境地区 E. Russia-N.E. China border region
	16	17									
378	16	18-21-08.1	39.53N	73.06E	10	4.0	4.6		2.5	13	吉尔吉斯 Kirgiziya
	17	02									
379	16	23-12-11.6	28.90N	105.11E	12	4.0	4.0		4.0	2.9	28 四川省 Sichuan Province
	17	07									
380	17	00-55-11.8	42.46N	126.45E	14	3.3			4.9	6	中国东北部 North-Eastern China
	17	08									
381	17	06-16-47.2	28.68N	104.78E	16	3.1			2.6	7	四川省 Sichuan Province
	17	14									
382	17	18-44-15.9	42.00N	83.40E	6	3.3			3.9	8	新疆自治区南部 Southern Xinjiang Province
	18	02									
383	18	02-03-09.4	26.22N	100.26E	4	5.0			2.6	14	云南省 Yunnan Province
	18	10									



384	18	04-45-07.8	26.22N	100.12E	16	4.0	3.3	14	云南省 Yunnan Province
	18	12							
385	18	18-26-33.9	29.87N	129.87E	161		4.5	1.1	36 琉球群岛 Ryukyu Islands
	19	02							
386	19	01-54-49.6	24.88N	98.65E	6	3.5	5.0	5	缅甸——中国边境地区 Burma-China border region
	19	09							
387	19	03-55-55.5	33.05N	119.40E	6	2.6	2.1	5	中国东部 Eastern China
	19	11							
388	19	09-23-48.3	41.97N	87.94E	12	3.1	3.0	6	新疆维吾尔自治区南部 Southern Xinjiang Province
	19	17							
389	20	07-05-39.3	24.14N	125.46E	37	3.7	4.7	2.1	28 琉球群岛西南部 South-western Ryukyu Islands
	20	15							
390	20	12-12-39.6	39.01N	106.52E	14	3.1	1.3	7	中国北部 Northern China
	20	20							
391	20	15-52-05.3	44.01N	88.51E	18	3.5	3.4	9	新疆维吾尔自治区北部 Northern Xinjiang Province
	20	23							
392	21	12-05-24.7	32.16N	120.71E	3	3.4	2.5	9	中国东部 Eastern China
	21	20							
393	21	14-30-20.8	24.35N	123.04E	44	3.2	4.7	2.0	36 台湾地区 Taiwan region
	21	22							
394	21	20-21-57.5	36.17N	80.97E	16	4.1	4.1	5	克什米尔——西藏边境地区 Kashmir-Tibet border region
	22	04							
395	21	23-00-44.4	22.77N	122.23E	15	3.5	1.9	7	台湾地区 Taiwan region
	22	07							
396	22	03-50-43.0	39.85N	116.67E	11	3.8	2.1	18	中国东北部 North-Eastern China
	22	11							
397	22	11-35-39.1	24.86N	121.36E	15	2.8	1.9	10	台湾岛 Taiwan
	22	19							
398	22	12-46-50.3	39.55N	118.30E	14	3.7	1.9	16	中国东北部 North-Eastern China
	22	20							
399	22	17-06-53.2	38.24N	74.50E	147		4.6	1.9	23 塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region
	23	01							
400	22	17-59-35.9	40.69N	122.72E	4	3.0	1.2	7	中国东北部 North-Eastern China
	23	01							
401	22	18-30-36.9	40.31N	78.70E	10	3.9	3.4	8	新疆维吾尔自治区南部 Southern Xinjiang Province
	23	02							
402	23	08-49-35.2	30.11N	103.10E	15	3.6	4.3	3.2	19 四川省 Sichuan Province
	23	16							
403	23	12-53-33.8	37.42N	115.02E	14	3.4	2.0	14	中国东部 Eastern China
	23	20							
404	24	10-34-02.2	39.08N	123.75E	4	3.0	3.5	5	中国东北部 North-Eastern China
	24	18							
405	24	19-51-25.9	24.41N	121.17E	52	3.5	0.9	7	台湾岛 Taiwan
	25	03							
406	24	22-45-09.1	23.92N	122.60E	22	3.3	2.9	7	台湾地区 Taiwan region
	25	06							
407	25	15-07-33.9	28.64N	101.14E	10	3.4	3.6	11	四川省 Sichuan Province
	25	23							
408	25	19-01-11.3	28.62N	101.21E	9	3.2	2.4	11	四川省 Sichuan Province
	26	03							
409	26	07-16-11.3	36.43N	100.85E	15	3.0	3.0	8	青海省 Qinghai Province
	26	15							



410	26	13-44-19.6	42.90N	77.99E	20	4.5	4.6	2.4	31	阿拉木图地区 Alma-Ata region	
	26	21									
411	27	04-24-48.1	23.68N	121.22E	15	3.2		2.4	8	台湾岛 Taiwan	
	27	12									
412	27	19-32-23.3	19.90N	122.61E	27		4.1	1.1	16	菲律宾群岛地区 Philippine Islands region	
	28	03									
413	29	02-35-45.9	25.73N	122.34E	15	4.0		3.2	7	台湾岛 Taiwan	
	29	10									
414	30	03-14-22.1	40.62N	122.69E	8	3.6		3.1	13	中国东北部 North-Eastern China	
	30	11									
415	30	06-34-05.0	40.61N	93.52E	25	3.0		3.9	5	新疆维吾尔自治区南部 Southern Xinjiang Province	
	30	14									
416	30	16-13-29.3	40.47N	123.15E	5	2.8		2.5	6	中国东北部 North-Eastern China	
	31	00									
417	30	16-24-37.6	40.42N	123.19E	8	2.9		2.0	6	中国东北部 North-Eastern China	
	31	00									
418	30	17-23-41.8	38.92N	101.45E	5	2.8		1.3	5	甘肃省 Gansu Province	
	31	01									
419	31	18-06-29.7	15.39N	119.40E	35	4.4	4.1	2.6	16	菲律宾群岛地区 Philippine Islands region	
	1	02									
420	31	20-28-18.6	42.55N	96.43E	16	3.3		3.8	5	新疆维吾尔自治区北部 Northern Xinjiang Province	
	1	04									
421	31	23-38-38.4	36.19N	102.73E	16	4.0	4.0	4.4	2.1	37	青海省 Qinghai Province
	1	07									

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422	1	04-23-07.8	38.50N	76.51E	17	4.4	4.4	2.6	23	新疆维吾尔自治区南部 Southern Xinjiang Province			
	1	12											
423	1	15-56-01.2	38.05N	90.98E	11	3.8	4.4	4.1	3.0	22	新疆维吾尔自治区南部 Southern Xinjiang Province		
	1	23											
424	1	17-44-18.6	41.61N	81.35E	12	3.4		4.5	10	新疆维吾尔自治区南部 Southern Xinjiang Province			
	2	01											
425	1	20-01-00.2	24.83N	122.26E	33	3.7	3.5	4.3	3.1	16	台湾岛 Taiwan		
	2	04											
426	1	21-33-37.9	25.01N	122.43E	163			4.7	1.5	60	台湾岛 Taiwan		
	2	05											
427	1	23-00-46.2	15.54N	119.31E	38	5.2	5.5	4.5	5.0	2.0	85	菲律宾群岛地区 Philippine Islands region	
	2	07											
428	2	06-26-48.1	38.75N	116.24E	9	3.4		2.4		16	中国东北部 North-Eastern China		
	2	14											
429	3	01-14-34.0	40.48N	122.02E	6	2.7		1.6		5	中国东北部 North-Eastern China		
	3	09											
430	3	13-12-23.9	24.17N	121.75E	30	3.2		1.3		6	台湾岛 Taiwan		
	3	21											
431	3	14-03-37.9	39.83N	73.47E	17	3.6		3.8	2.8	10	吉尔吉斯 Kirgiziya		
	3	22											
432	3	19-18-18.1	24.06N	121.72E	16	3.0		1.9		7	台湾岛 Taiwan		
	4	03											
433	4	10-54-35.8	38.29N	119.61E	8	3.0		1.8		5	中国东北部 North-Eastern China		
	4	18											
434	5	05-00-00.1	41.46N	88.77E	16	5.2	5.7	5.4	4.4	6.2	1.4	96	新疆维吾尔自治区南部 Southern Xinjiang Province
	5	13											



435	5	16-58-06.4	41.47N	88.81E	5	4.0				2.2	14	新疆自治区南部 Southern Xinjiang Province
	6	00										
436	5	20-11-04.7	32.60N	104.16E	5	2.8				2.6	5	四川省 Sichuan Province
	6	04										
437	6	02-37-06.9	49.84N	77.97E	9	4.1	5.2			5.3	1.4	70 哈萨克东部 Eastern Kazakhstan
	6	10										
438	6	03-14-25.5	30.56N	79.34E	33	4.1	4.3			4.7	2.5	25 印度北部 Northern India
	6	11										
439	6	11-02-41.7	30.40N	79.18E	45	4.1	4.7			4.9	1.7	33 印度北部 Northern India
	6	19										
440	6	12-21-57.1	30.22N	103.29E	11	3.8	3.7			4.2	2.7	24 四川省 Sichuan Province
	6	20										
441	6	15-33-34.5	24.81N	98.78E	21		3.0			2.4	5	缅甸——中国边境地区 Burma-China border region
	6	23										
442	7	02-50-35.2	38.24N	77.66E	6		3.6			1.9	6	新疆自治区南部 Southern Xinjiang Province
	7	10										
443	7	04-26-23.6	39.51N	118.13E	15	3.6	4.1			4.1	3.0	34 中国东北部 North-Eastern China
	7	12										
444	7	05-49-42.9	20.51N	121.32E	12	6.2		6.2	6.1	5.8	1.6	108 菲律宾群岛地区 Philippine Islands region
	7	13										
445	7	16-14-39.4	44.01N	116.67E	11		3.4			2.6	11	中国东北部 North-Eastern China
	8	00										
446	7	23-25-54.4	38.08N	72.15E	5		4.8			3.3	9	阿富汗——苏联边境地区 Afghanistan-USSR border region
	8	07										
447	8	13-30-32.2	39.70N	74.50E	12	4.7	5.1	5.2	4.3	5.1	1.7	79 新疆自治区南部 Southern Xinjiang Province
	8	21										
448	8	16-52-15.7	22.24N	117.41E	5		3.1			4.3	5	中国东南沿海 Near south-eastern coast of China
	9	00										
449	8	17-43-28.8	40.41N	122.28E	6		3.3			2.3	9	中国东北部 North-Eastern China
	9	01										
450	9	19-34-09.2	22.71N	124.06E	10		3.7			3.6	9	台湾东南以远地区 South-east of Taiwan
	10	03										
451	10	05-11-54.4	34.60N	108.81E	13		2.5			4.7	5	中国东部 Eastern China
	10	13										
452	10	13-52-38.5	35.12N	110.97E	3		2.8			4.0	6	中国东部 Eastern China
	10	21										
453	10	16-12-44.5	26.09N	100.16E	1		3.5			4.1	5	云南省 Yunnan Province
	11	00										
454	10	16-33-28.9	28.23N	104.33E	5		3.5			4.8	9	云南省 Yunnan Province
	11	00										
455	10	22-09-40.5	37.80N	101.43E	9		2.9			3.2	7	青海省 Qinghai Province
	11	06										
456	11	12-08-41.1	28.87N	105.06E	16	4.4	4.4			4.8	2.3	61 四川省 Sichuan Province
	11	20										
457	11	12-26-42.0	28.57N	105.04E	15		3.6			4.5	12	四川省 Sichuan Province
	11	20										
458	11	13-49-23.7	28.74N	104.92E	15		2.6			2.6	5	四川省 Sichuan Province
	11	21										
459	11	18-30-02.8	43.81N	84.17E	4		3.9			2.4	12	新疆自治区北部 Northern Xinjiang Province
	12	02										
460	11	22-56-14.0	39.31N	106.92E	17		3.2			2.9	10	中国北部 Northern China
	12	06										



461	12	01-17-31.3	23.58N	122.88E	37	3.4		2.4	9	台湾地区 Taiwan region	
	12	09									
462	12	01-24-42.6	33.27N	110.09E	3	3.2		3.6	7	中国东部 Eastern China	
	12	09									
463	12	07-07-15.5	35.87N	80.92E	10	4.1		3.1	7	克什米尔——西藏边境地区 Kashmir-Tibet border region	
	12	15									
464	12	09-51-01.3	25.49N	122.26E	279		5.2	5.4	1.1	102 台湾岛 Taiwan	
	12	17									
465	12	15-48-38.3	40.16N	105.78E	10	3.4		2.2	12	中国北部 Northern China	
	12	23									
466	13	02-46-20.4	24.30N	120.79E	10	3.0		1.9	7	台湾岛 Taiwan	
	13	10									
467	13	15-11-22.7	39.99N	74.38E	9	4.1		2.1	5	塔吉克——新疆边境地区 Tadzhikistan-Xinjiang border region	
	13	23									
468	14	03-07-20.4	23.98N	121.62E	20	3.6	3.8	2.2	28	台湾岛 Taiwan	
	14	11									
469	14	10-34-59.7	25.91N	102.82E	9	3.6		3.7	14	云南省 Yunnan Province	
	14	18									
470	14	21-10-49.2	25.01N	121.39E	17	2.7		1.6	6	台湾岛 Taiwan	
	15	05									
471	16	06-17-28.8	40.24N	112.83E	15	3.0		2.5	6	中国东北部 North-Eastern China	
	16	14									
472	16	15-52-21.4	23.65N	118.21E	16	3.5		2.0	6	中国东南沿海 Near south-eastern coast of China	
	16	23									
473	16	16-33-54.2	38.09N	119.26E	16	2.5		3.2	5	中国东北部 North-Eastern China	
	17	00									
474	16	20-09-42.4	23.97N	121.59E	15	3.0		2.1	6	台湾岛 Taiwan	
	17	04									
475	16	20-13-27.7	34.68N	73.34E	14	3.9		2.8	14	巴基斯坦 Pakistan	
	17	04									
476	17	03-24-55.2	24.53N	95.73E	16	4.5		4.3	7	缅甸 Burma	
	17	11									
477	17	03-49-46.1	38.23N	119.49E	6	2.5		4.2	5	中国东北部 North-Eastern China	
	17	11									
478	17	04-47-31.4	38.05N	119.39E	14	2.5		2.5	7	中国东北部 North-Eastern China	
	17	12									
479	17	09-10-00.5	38.16N	119.50E	16	2.7		2.9	5	中国东北部 North-Eastern China	
	17	17									
480	17	18-13-26.1	38.58N	104.72E	8	3.0		0.7	5	中国北部 Northern China	
	18	02									
481	17	18-17-50.1	21.63N	121.39E	21	4.2	3.6	4.3	2.0	49 台湾地区 Taiwan region	
	18	02									
482	19	11-15-02.0	38.25N	115.94E	18	2.5		4.0	5	中国东北部 North-Eastern China	
	19	19									
483	20	00-53-03.8	49.99N	78.67E	2	4.8		4.2	6.1	1.3	98 哈萨克东部 Eastern Kazakhstan
	20	08									
484	20	05-11-16.1	27.60N	102.89E	5	2.8		3.9	5	四川省 Sichuan Province	
	20	13									
485	20	19-19-21.5	23.62N	121.61E	15	2.9		3.0	5	台湾岛 Taiwan	
	21	03									
486	20	21-35-23.1	39.33N	117.91E	12	2.4		3.7	5	中国东北部 North-Eastern China	
	21	05									



487	21	01-49-12.3	22.20N	123.84E	14	4.6	4.4	5.3	4.8	4.9	1.5	83	台湾东南以远地区 South-east of Taiwan
	21	09											
488	22	03-42-41.5	39.84N	106.32E	9		2.8				3.5	5	中国北部 Northern China
	22	11											
489	22	18-54-08.5	30.60N	102.69E	13		3.3				3.0	8	四川省 Sichuan Province
	23	02											
490	22	19-09-59.8	43.95N	86.74E	13		3.9				1.8	8	新疆自治区北部 Northern Xinjiang Province
	23	03											
491	23	00-08-21.8	40.47N	122.11E	5		2.8				0.8	5	中国东北部 North-Eastern China
	23	08											
492	23	15-01-58.7	42.01N	85.12E	4		3.7				4.1	9	新疆自治区南部 Southern Xinjiang Province
	23	23											
493	23	16-59-46.7	38.09N	101.90E	10		2.5				1.4	6	青海省 Qinghai Province
	24	00											
494	24	02-29-43.1	41.02N	74.04E	17	4.8	5.1	4.3	4.9		1.9	49	吉尔吉斯 Kirgiziya
	24	10											
495	24	15-57-13.1	30.34N	102.11E	10	3.8	3.7		4.3		2.2	26	四川省 Sichuan Province
	24	23											
496	24	21-33-30.7	40.53N	122.14E	15		2.7				4.4	6	中国东北部 North-Eastern China
	25	05											
497	24	22-38-40.5	24.46N	121.91E	40	4.7	4.5		4.6		1.9	71	台湾岛 Taiwan
	25	06											
498	25	14-45-25.5	37.73N	101.65E	16		2.4				2.9	6	青海省 Qinghai Province
	25	22											
499	25	15-50-48.5	37.62N	101.37E	14		2.9				4.4	7	青海省 Qinghai Province
	25	23											
500	26	01-19-07.0	23.16N	121.26E	14		3.2				3.7	7	台湾岛 Taiwan
	26	09											
501	26	23-19-09.7	36.92N	101.64E	17		4.1				2.7	18	青海省 Qinghai Province
	27	07											
502	27	04-21-55.1	24.66N	122.55E	15		3.5				0.9	10	台湾地区 Taiwan region
	27	12											
503	27	07-38-56.7	24.37N	121.62E	25	5.4	4.8	5.5	4.9	5.2	2.0	102	台湾岛 Taiwan
	27	15											
504	27	18-35-47.9	19.21N	120.95E	37	4.0	4.0		4.1		2.3	50	吕宋岛 Luzon
	28	02											
505	28	01-16-36.8	37.66N	101.65E	16	4.6	5.1	5.3	4.9		2.3	78	青海省 Qinghai Province
	28	09											
506	28	01-37-34.5	37.66N	101.50E	5		2.7				4.6	7	青海省 Qinghai Province
	28	09											
507	28	02-07-06.3	27.21N	100.89E	10		2.6				3.1	6	云南省 Yunnan Province
	28	10											
508	28	06-15-26.4	37.74N	101.49E	4		3.5				2.4	11	青海省 Qinghai Province
	28	14											
509	28	09-00-08.2	37.63N	101.46E	17		2.6				4.5	8	青海省 Qinghai Province
	28	17											
510	28	12-49-09.5	24.04N	114.50E	14		3.7				2.9	18	中国东南沿海 Near south-eastern coast of China
	28	20											
511	28	13-07-34.8	38.02N	119.35E	8		3.1				3.6	9	中国东北部 North-Eastern China
	28	21											
512	28	20-46-12.1	32.50N	121.69E	29		3.4				1.3	11	中国东部 Eastern China
	29	04											



513	28	22-38-03.6	24.73N	122.60E	126		4.8	2.0	68	台湾地区
	29	06								Taiwan region
514	29	13-14-17.5	37.63N	101.53E	13	2.8		3.0	7	青海省
	29	21								Qinghai Province
515	30	12-47-48.3	23.97N	121.73E	25	4.3 4.5		4.1	2.5	63 台湾岛
	30	20								Taiwan
516	30	14-11-03.8	39.85N	113.51E	14	2.5		2.5	5	中国东北部
	30	22								North-Eastern China
517	30	14-45-34.0	38.52N	104.75E	13	3.1		2.8	8	中国北部
	30	22								Northern China
518	30	17-02-34.0	24.93N	120.89E	17	2.6		3.9	5	台湾岛
	1	01								Taiwan







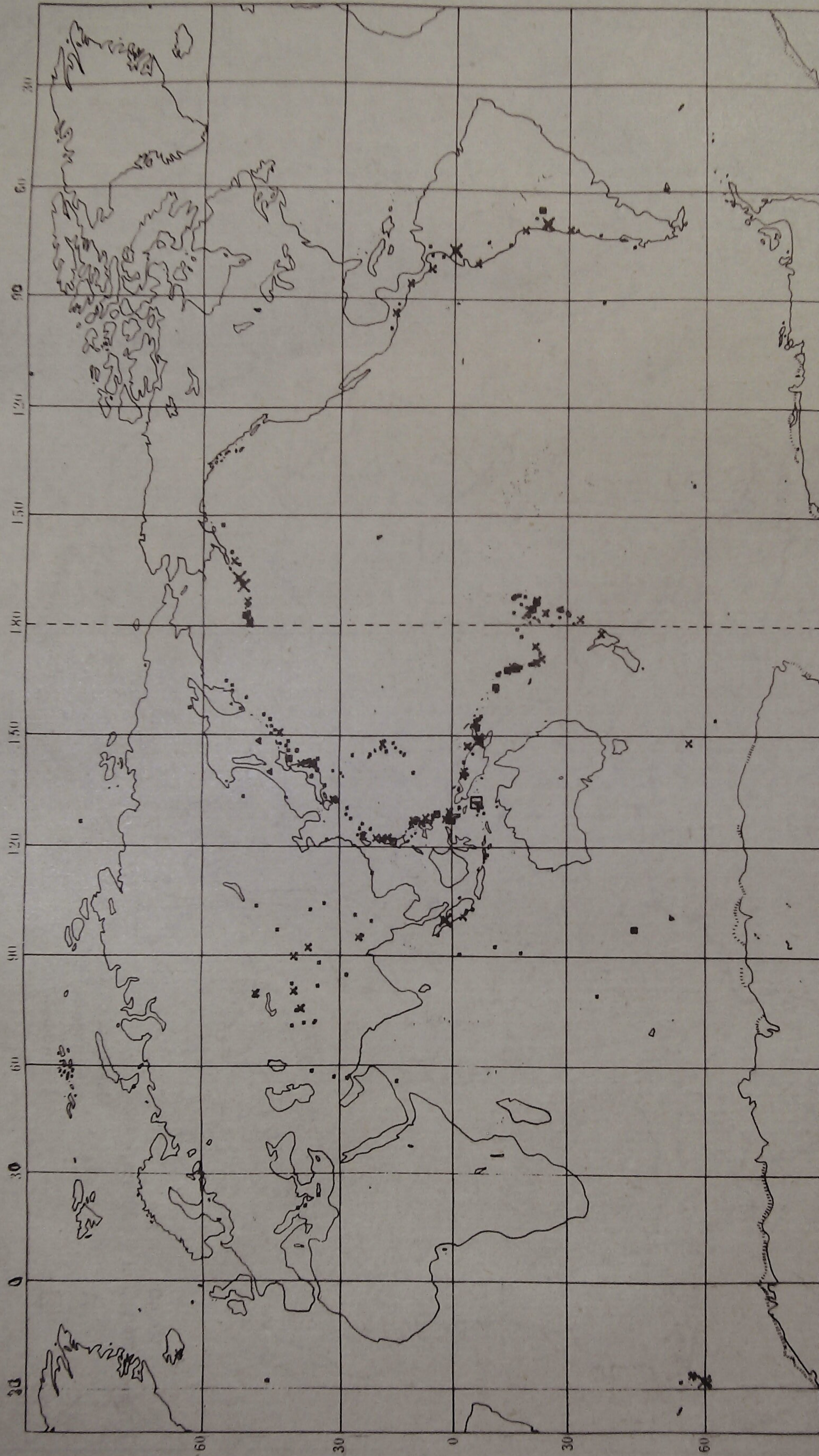
1987 年 震 中 分 布 图  
(1-6 月)

Map of epicentral distribution of 1987  
(January to June)









DEPTH

< 70km	x	x	x
70-300km	□	□	□
> 300km	△	△	△

Magnitude < 6.0  
 Magnitude 6.0-6.9  
 Magnitude ≥ 7.0

1987年世界地震震中分布图  
 Epicentral distribution of earthquakes  
 all over the world of 1987



1987年中国及邻区地震震中分布图  
Epicentral distribution of earthquakes within and near China in 1987





1987 年 地 震 数 据  
(1-6 月)

Observed seismological data of 1987  
(January to June)







Sta. code	$\Delta$ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A ( $\mu$ m)	Sta. code	$\Delta$ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A ( $\mu$ m)
<b>1987 1 1</b> <b>O = 04 01 51.7</b> $\pm$ 0.12s <b>LAT = 49.47 N</b> $\pm$ 2.88km <b>LONG = 156.25 E</b> $\pm$ 1.98km <b>DEPTH = 41 km</b> $\pm$ 0.39km <b>STATIONS USED = 25, STAND DEV = 1.64s</b> <b>Ms = 4.5 / 3,</b>								BJI	55.9	326	eP	06 17 05.0			4.3
MDJ	18.8	265	eP	04 06 11.5	1.5			TIY	56.6	322	eP	06 17 05.6			0.0
CN2	21.8	267	eP	04 06 43.0	0.7			XAN	56.7	316	+P	06 17 05.8			-0.7
SSE	32.1	248	eP	04 08 18.2	1.0			CD2	58.9	310	+iP	06 17 21.6			0.0
			esS	04 13 44.0	0.8						PMZ				0.8 0.020
TIY	33.4	266	eP	04 08 28.8	-0.1			BTO	59.9	323	eP	06 17 28.0			-0.4
			LE		Ms=4.2	13.0	0.21	LZH	61.4	316	eP	06 17 39.0			0.5
GTA	40.7	278	eP	04 09 28.0	-2.2						PMZ				2.0 0.060
			LE		Ms=4.7	14.0	0.43	GTA	65.8	317	+iP	06 18 07.7			0.2
GYA	44.4	257	P	04 10 00.2	-0.2			WMQ	75.8	317	P	06 19 08.7			0.5
<b>1987 1 1</b> <b>O = 04 55 35.0</b> $\pm$ 0.09s <b>LAT = 44.05 N</b> $\pm$ 2.52km <b>LONG = 148.55 E</b> $\pm$ 1.82km <b>DEPTH = 45 km</b> $\pm$ 0.61km <b>STATIONS USED = 29, STAND DEV = 1.81s</b>								KSH	83.1	310	P	06 19 50.0			2.8
MDJ	13.6	279	eP	04 58 47.0	-0.4			<b>1987 1 1</b> <b>O = 07 22 45.3</b> $\pm$ 0.10s <b>LAT = 11.02 N</b> $\pm$ 1.26km <b>LONG = 124.26 E</b> $\pm$ 2.05km <b>DEPTH = 39 km</b> $\pm$ 0.49km <b>STATIONS USED = 40, STAND DEV = 1.34s</b>							
CN2	16.6	277	+P	04 59 25.0	-1.8			QZN	16.0	301	eP	07 26 29.8			0.1
BJI	24.3	272	eP	05 00 48.0	-1.5			WHN	21.5	336	eP	07 27 33.0			0.1
NJ2	26.1	253	eP	05 01 08.6	1.6			NJ2	21.5	347	+P	07 27 34.0			0.9
XAN	32.1	266	eP	05 01 59.0	-1.5			GYA	22.6	315	P	07 27 45.0			0.8
LZH	34.8	272	eP	05 02 22.5	-1.3			TIA	25.9	347	eP	07 28 15.5			-0.2
GTA	36.2	280	P	05 02 34.4	-1.9			XAN	26.9	331	eP	07 28 22.0			-2.7
CD2	37.4	265	-iP	05 02 45.3	-1.0			CD2	27.4	319	eP	07 28 25.4			-4.5
GYA	38.0	257	P	05 02 49.8	-1.0			BJI	29.8	347	eP	07 28 50.0			-0.8
WMQ	42.9	292	P	05 03 30.6	-1.0			HHC	31.7	342	eP	07 29 08.6			0.2
<b>1987 1 1</b> <b>O = 06 07 26.7</b> $\pm$ 0.14s <b>LAT = 4.64 S</b> $\pm$ 1.35km <b>LONG = 153.14 E</b> $\pm$ 1.65km <b>DEPTH = 68 km</b> $\pm$ 1.37km <b>STATIONS USED = 59, STAND DEV = 1.39s</b>								BTO	32.0	339	eP	07 29 10.2			-0.7
QZN	48.7	300	eP	06 16 07.9	1.4			MDJ	33.8	7	eP	07 29 26.0			0.0
NJ2	48.9	321	eP	06 16 10.0	1.6			GTA	35.7	327	-P	07 29 41.7			-0.4
TIA	52.8	323	eP	06 16 37.1	-0.6			WMQ	45.4	323	P	07 31 02.8			0.2
MDJ	53.4	339	eP	06 16 41.5	-0.6			<b>1987 1 1</b> <b>O = 14 56 41.5</b> $\pm$ 0.12s <b>LAT = 35.31 N</b> $\pm$ 1.25km <b>LONG = 71.41 E</b> $\pm$ 1.45km <b>DEPTH = 244 km</b> $\pm$ 0.52km <b>STATIONS USED = 11, STAND DEV = 2.59s</b>							
CN2	54.3	336	eP	06 16 47.2	-1.6			KSH	5.5	40	eP	14 58 06.0			1.6
GYA	54.6	307	P	06 16 51.4	0.5						S	14 59 14.0			5.7
								WMQ	15.1	51	eP	15 00 00.8			-4.5
								LSA	17.6	103	P	15 00 34.1			1.3
								GTA	22.9	71	-iP	15 01 29.7			4.0
<b>1987 1 1</b> <b>O = 15 59 03.1</b> $\pm$ 0.05s <b>LAT = 40.67 N</b> $\pm$ 0.49km															



LONG = 113.72 E ± 0.40km				DEPTH = 24 km ± 0.18km				STATIONS USED = 11, STAND DEV = 1.53s				STATIONS USED = 97, STAND DEV = 1.21s								
M <sub>L</sub> = 3.2 / 11,				M <sub>s</sub> = 5.0 / 11,				m <sub>B</sub> = 5.8 / 6												
BJI	2.0	108	Pg	15 59 38.0	-0.2															
			Sg	16 00 04.5	-0.9															
			SMN	M <sub>L</sub> = 3.2	0.5	0.18														
			SME			0.5	0.19													
BTO	2.8	270	Pg	15 59 52.1	-1.1															
			Sg	16 00 29.1	-2.5															
			SMN	M <sub>L</sub> = 3.3	0.4	0.17														
			SME			0.4	0.10													
TIY	3.1	199	+iPg	15 59 58.1	-0.3															
			Sg	16 00 37.2	-3.8															
			SMN	M <sub>L</sub> = 3.4	0.8	0.10														
			SME			0.7	0.18													
TIA	5.2	148	ePg	16 00 34.8	-0.1															
			eSg	16 01 41.9	-3.9															
			SMN	M <sub>L</sub> = 3.0	0.6	0.020														
			SME			0.6	0.010													
1987 1 1																				
O = 16 25 33.8 ± 0.10s																				
LAT = 2.61 S ± 1.75km																				
LONG = 138.43 E ± 1.75km																				
DEPTH = 72 km ± 0.43km																				
STATIONS USED = 97, STAND DEV = 1.21s																				
M <sub>s</sub> = 5.0 / 11,				m <sub>B</sub> = 5.8 / 6																
QZH	33.5	326	+iP	16 32 08.5	0.0															
			PMZ			3.0	1.49													
			pP	16 32 25.0	-0.6															
			eS	16 37 28.0	3.8															
			LE	M <sub>s</sub> = 5.1	18.0	2.20														
GZH	35.4	318	+P	16 32 24.8	0.1															
QZN	35.4	309	eP	16 32 24.0	-0.9															
			pP	16 32 43.0	0.8															
			PP	16 33 47.0	1.6															
			S	16 37 50.5	-2.4															
			eSS	16 40 20.0	5.0															
			LN	M <sub>s</sub> = 4.8	14.0	0.80														
SSE	37.3	335	+iP	16 32 40.0	-1.2															
			PMZ			1.0	0.52													
			pP	16 33 00.5	2.0															
			sP	16 33 08.5	1.1															
			PP	16 34 08.0	-1.3															
			S	16 38 24.0	1.5															
			esS	16 38 50.0	-3.2															
			LN	M <sub>s</sub> = 5.1	28.0	2.09														
			LE			28.0	1.61													
NJ2	39.2	333	+iP	16 32 58.0	1.5															
			PMZ																	
			sP	16 33 24.0	1.3															
			+iP	16 33 06.6	1.6															
			PMZ																	
			sP	16 33 36.0	4.7															
			eS	16 39 10.0	3.5															
			+P	16 33 22.0	0.7															
			pP	16 33 41.0	2.4															
			+P	16 33 31.5	-0.2															
			epP	16 33 45.5	-3.7															
			eS	16 39 55.0	0.5															
			esS	16 40 29.0	4.3															
			eSS	16 43 10.0	6.2															
			LN	M <sub>s</sub> = 4.8	15.0	0.61														
			+iP	16 33 38.0	0.8															
			+iP	16 33 39.0	0.6															
			pP	16 33 58.0	2.3															
			sP	16 34 04.0	-0.5															
			PP	16 35 26.0	2.9															
			eS	16 40 08.0	1.4															
			+iP	16 33 50.8	-0.1															
			PMZ																	
			pP	16 34 12.0	3.6															
			sP	16 34 19.5	2.4															
			ePcP	16 35 27.0	0.0															
			PP	16 35 38.0	-1.3															
			eS	16 40 34.0	4.9															
			sS	16 41 03.0	3.6															
			+iP	16 33 54.0	-0.1															
			PMZ			3.0	1.63													
			pP	16 34 13.0	1.3															
			S	16 40 32.0	-1.8															
			LN	M <sub>s</sub> = 5.0	30.0	1.62														
			+P	16 33 58.5	-0.1															
			PMZ			1.5	0.16													
			PP	16 35 46.5	-2.5															
			S	16 40 43.0	1.3															
			sS	16 41 17.5	4.2															
			LN	M <sub>s</sub> = 4.9	36.0	1.15														
			LE			36.0	1.25													
			+iP	16 33 59.4	-0.1															
			PMZ			1.5	0.38													
			epP	16 34 18.0	1.0															
			PP	16 35 50.0	-0.1															
			S	16 40 47.0	3.6															
			+iP	16 34 00.5	-0.3															
			PMZ			4.0	0.53													
			ePP	16 35 50.0	-1.8															
			+iP	16 34 07.0	1.8															
			PMZ			3.0	0.70													







LONG = 114.44 E ± 0.99km									
DEPTH = 9 km ± 0.04km									
STATIONS USED = 10, STAND DEV = 3.17s									
M <sub>L</sub> = 2.9 / 9,									
TIY	1.6	280	ePg	12 31 55.4	0.1				
			Sg	12 32 16.0	-1.2				
			SMN	M <sub>L</sub> = 2.9	0.7	0.14			
			SME		0.6	0.17			
TIA	2.5	119	ePg	12 32 08.4	-2.1				
			eSn	12 32 34.9	-5.0				
			eSg	12 32 40.4	-4.0				
			SMN	M <sub>L</sub> = 2.7	0.4	0.050			
			SME		0.3	0.040			
BJI	2.9	27	ePg	12 32 15.5	-2.9				
			eSg	12 32 52.0	-6.5				
			SMN	M <sub>L</sub> = 2.2	0.5	0.010			
			SME		0.5	0.010			
BTO	4.7	314	ePg	12 32 47.2	-2.0				
1987 1 3									
O = 15 35 00.6 ± 0.14s									
LAT = 3.34 S ± 1.83km									
LONG = 146.35 E ± 2.78km									
DEPTH = 4 km ± 0.25km									
STATIONS USED = 101, STAND DEV = 1.59s									
M <sub>s</sub> = 6.2 / 49, m <sub>B</sub> = 6.1 / 18									
QZH	38.9	318	eP	15 42 30.0	0.2				
			PP	15 44 03.5	1.1				
			iS	15 48 31.0	2.1				
			SMN	m <sub>B</sub> = 6.1	11.0	2.45			
			SME		11.0	3.10			
			LE	M <sub>s</sub> = 6.2	18.0	18.7			
GZH	41.6	311	+P	15 42 52.8	1.6				
			S	15 49 07.0	0.1				
			SMN		13.0	5.66			
			SME		12.0	7.82			
SSE	41.8	327	+P	15 42 55.5	2.1				
			PMZ		3.0	0.98			
			S	15 49 08.0	-2.7				
			SMN		16.0	6.98			
			SS	15 52 11.0	0.0				
			eScS	15 52 59.0	4.5				
			LN	M <sub>s</sub> = 6.3	18.0	16.8			
			LE		18.0	17.3			
QZN	42.2	303	eP	15 42 57.0	0.1				
			ePP	15 44 41.0	3.6				
			S	15 49 19.0	2.0				
			SMN	m <sub>B</sub> = 6.2	11.0	4.10			
			SS	15 52 24.0	4.9				
			LN	M <sub>s</sub> = 6.0	20.5	6.80			
			LE						
			NJ2	43.8 326	+P	15 43 12.0	2.1		
			iS	15 49 43.0	1.8				
			SMN	m <sub>B</sub> = 6.6	12.0	10.5			
			LN	M <sub>s</sub> = 6.5	14.0	24.8			
			WHN	45.5 320	eP	15 43 24.0	0.8		
			PMZ	m <sub>B</sub> = 6.1	4.0	1.30			
			S	15 50 06.0	1.9				
			SMN	m <sub>B</sub> = 6.1	12.0	3.10			
			SS	15 53 22.0	2.8				
			LE	M <sub>s</sub> = 6.1	21.0	14.6			
			DL2	47.8 334	eP	15 43 43.0	1.3		
			S	15 50 39.0	1.5				
			LN	M <sub>s</sub> = 6.1	16.0	9.45			
			TIA	47.9 328	eP	15 43 41.2	-1.0		
			PMZ	m <sub>B</sub> = 6.1	4.0	1.10			
			S	15 50 39.0	0.6				
			SMN	m <sub>B</sub> = 6.1	11.0	2.50			
			SME		11.0	1.00			
			LN	M <sub>s</sub> = 6.4	16.0	19.2			
			LE		16.0	8.00			
			GYA	48.5 310	P	15 43 47.0	0.2		
			S	15 50 52.0	5.5				
			LN	M <sub>s</sub> = 6.1	19.0	5.40			
			LE		19.0	11.3			
			SNY	49.5 338	-iP	15 43 55.0	0.4		
			S	15 51 02.0	1.1				
			SMN	m <sub>B</sub> = 6.3	9.0	3.00			
			SME		10.0	2.45			
			LN	M <sub>s</sub> = 6.2	30.0	21.4			
			LE		26.0	7.94			
			MDJ	50.0 344	eP	15 44 01.0	2.1		
			S	15 51 06.0	-2.5				
			CN2	50.6 340	+P	15 44 04.0	1.3		
			PP	15 45 59.0	0.3				
			S	15 51 13.0	-2.5				
			SMN		20.0	5.20			
			KMI	50.9 306	+P	15 44 06.0	0.5		
			PP	15 46 08.0	6.2				
			LN	M <sub>s</sub> = 5.8	15.0	4.40			
			XAN	51.2 320	eP	15 44 07.0	-1.0		
			LN	M <sub>s</sub> = 6.2	17.0	10.7			
			LE		18.0	7.97			
			BJI	51.3 330	eP	15 44 07.5	-0.7		
			PMZ	m <sub>B</sub> = 5.8	4.0	0.53			
			SMN	m <sub>B</sub> = 5.8	11.0	1.49			
			LN	M <sub>s</sub> = 6.2	18.0	12.9			
			TIY	51.6 326	P	15 44 05.0	-5.4		
			pP	15 44 12.0	-2.9				
			PcP	15 45 19.0	-4.8				



			S	15 51 35.0	5.6				SMN	$m_B = 6.2$	11.0	3.10	
			LE		$M_s = 6.1$	15.0	8.38		SME		11.0	3.00	
CD2	53.0	313	eP	15 44 20.3	-0.8				LN	$M_s = 6.3$	28.0	24.4	
			S	15 51 49.0	0.2				LE		29.0	38.9	
			LN		$M_s = 6.4$	16.0	11.9	GZH	41.6	311	+P	16 38 19.0	1.2
			LE			20.0	14.2		PP		16 39 58.0	1.2	
HHC	54.2	328	+P	15 44 30.0	-0.5				S		16 44 34.0	0.3	
			pP	15 44 37.0	2.0				SMN			20.0	7.87
			eS	15 52 01.0	-6.4				SME			20.0	10.6
			LN		$M_s = 6.3$	17.0	8.40		SS	16 47 33.0	-0.2		
			LE			17.0	12.7		LN		$M_s = 6.2$	20.0	11.0
BTO	54.9	327	+P	15 44 34.5	-0.9				LE			20.0	16.9
			ePP	15 46 36.0	-2.9			SSE	41.9	327	+P	16 38 20.0	0.2
			S	15 52 10.0	-4.9				PMZ			2.0	0.37
			SS	15 55 55.0	-2.9				PP		16 40 04.0	4.5	
			LN		$M_s = 6.4$	19.0	14.5		S		16 44 40.0	2.6	
			LE			20.0	13.0		SS	16 47 38.0	0.1		
LZH	55.8	319	+P	15 44 41.0	-0.8				LN		$M_s = 6.7$	20.0	37.8
			PMZ			2.0	0.17		LE			20.0	43.3
			eS	15 52 24.0	-4.3			NJ2	43.9	325	+P	16 38 38.0	1.7
			SMN		$m_B = 5.8$	11.0	1.37		iS		16 45 12.0	4.1	
			LN		$M_s = 6.2$	17.0	9.90		SMN		$m_B = 6.6$	12.0	12.0
GTA	60.3	320	+P	15 45 12.6	-0.9				LN		$M_s = 6.4$	16.0	23.7
			eS	15 53 22.0	-5.3			WHN	45.5	320	+P	16 38 50.6	0.9
			SME			35.0	6.45		PMZ		$m_B = 6.1$	4.0	1.30
			LE		$M_s = 6.0$	30.0	10.9		S		16 45 33.0	2.2	
LSA	62.1	306	-P	15 45 25.2	-1.1				SMN		$m_B = 6.1$	12.0	3.50
			PP	15 47 46.7	2.7				LE		$M_s = 6.3$	20.0	21.6
			S	15 53 55.0	5.7			DL2	47.9	334	+P	16 39 08.0	-0.1
			ScS	15 55 14.0	0.0				S		16 46 04.0	-0.1	
			LN		$M_s = 5.7$	17.0	2.55		LN		$M_s = 6.3$	16.0	12.6
WMQ	70.4	319	P	15 46 18.5	0.2				LE			16.0	9.10
			PP	15 48 57.5	2.6			TIA	47.9	328	+P	16 39 08.0	-0.7
			SS	16 00 00.0	-1.0				S		16 46 07.0	2.0	
			LN		$M_s = 6.0$	28.0	7.91		SMN			13.0	3.50
KSH	77.1	312	-P	15 46 57.0	-0.8				SME			13.0	1.70
			SME		$m_B = 6.3$	12.0	3.20		LN		$M_s = 6.5$	15.0	18.9
			SKS	15 57 08.0	3.2				LE			15.0	11.2
			LE		$M_s = 6.4$	20.0	11.2	GYA	48.5	310	+P	16 39 14.0	0.7
									PP		16 41 03.0	-2.1	
									S		16 46 09.0	-4.3	
									LN		$M_s = 6.2$	18.0	7.40
									LE			18.0	10.7
								SNY	49.5	338	+iP	16 39 20.0	-1.0
									PP		16 41 14.0	-1.3	
									iS		16 46 31.0	2.5	
									SMN		$m_B = 6.2$	9.0	2.40
									SME			10.0	2.57
									SS	16 50 02.0	6.6		
									LN		$M_s = 6.3$	31.0	28.3

1987 1 3

O = 16 30 26.8 ± 0.11s

LAT = 3.36 S ± 1.63km

LONG = 146.41 E ± 2.30km

DEPTH = 5 km ± 0.18km

STATIONS USED = 101, STAND DEV = 1.33s

$M_s = 6.3 / 42,$   $m_B = 6.3 / 12$

QZH 39.0 318 eP 16 37 57.0 0.7

PP 16 39 30.0 0.9

iS 16 43 58.0 2.3







1987 1 3  
 O=17 52 07.5 ± 0.11s  
 LAT=44.48 N ± 0.57km  
 LONG= 83.82 E ± 0.48km  
 DEPTH= 8 km ± 0.82km  
 STATIONS USED = 7, STAND DEV = 2.05s  
 M<sub>L</sub>=3.2 / 5,

WMQ	2.9	102	cPn	17 52 57.0	2.9		
			Pg	17 53 01.4	3.1		
			Sn	17 53 30.7	0.0		
			Sg	17 53 36.1	-1.5		
			SMN	M <sub>L</sub> =3.2	0.4	0.10	
SSE	32.1	102	+P	17 58 39.4	1.4		
			PMZ		0.8	0.030	

1987 1 3  
 O=20 37 21.4 ± 0.11s  
 LAT=34.86 N ± 1.01km  
 LONG=103.72 E ± 1.02km  
 DEPTH= 11 km ± 0.37km  
 STATIONS USED = 11, STAND DEV = 2.76s  
 M<sub>L</sub>=3.3 / 10,

LZH	1.2	4	ePg	20 37 42.0	-1.4		
			Sg	20 37 59.5	-0.6		
			SMN	M <sub>L</sub> =3.2	0.5	0.48	
			SME		0.5	0.40	
CD2	3.9	180	ePg	20 38 33.6	2.6		
			Sg	20 39 26.2	1.6		
			SMN	M <sub>L</sub> =3.0	1.0	0.040	
			SME		0.8	0.020	
XAN	4.4	99	-Pn	20 38 26.0	-2.2		
			Pg	20 38 37.8	-0.8		
			Sn	20 39 15.0	-6.1		
			Sg	20 39 34.4	-4.0		
			SMN	M <sub>L</sub> =3.4	0.6	0.060	
			SME		0.6	0.060	
GTA	5.5	327	-Pn	20 38 43.7	-0.3		
			Sg	20 40 12.2	-1.9		
			SMN	M <sub>L</sub> =2.9	0.8	0.010	
			SME		0.9	0.010	
TIY	7.6	65	ePg	20 39 40.3	4.7		
			SMN	M <sub>L</sub> =3.7	0.9	0.020	
			SME		0.8	0.030	

1987 1 3  
 O=22 04 03.8 ± 0.09s  
 LAT=14.98 S ± 1.29km  
 LONG=168.18 E ± 2.28km  
 DEPTH= 17 km ± 0.41km

STATIONS USED = 103, STAND DEV = 1.06s  
 M<sub>s</sub>=6.4 / 44, m<sub>B</sub>=6.5 / 29

QZH	62.5	309	+P	22 14 29.0	-0.6		
			pP	22 14 36.0	-0.4		
			iS	22 22 54.5	-0.7		
			SMN	m <sub>B</sub> =6.2	10.0	3.10	
			LN	M <sub>s</sub> =6.2	16.0	8.10	
SSE	64.3	316	P	22 14 41.0	-0.3		
			pP	22 14 51.0	2.8		
			PP	22 17 04.0	0.3		
			ScP	22 19 12.0	-3.2		
			S	22 23 20.0	3.9		
			eScS	22 24 26.0	-3.9		
			eSS	22 27 26.0	-1.1		
			LN	M <sub>s</sub> =6.4	16.0	7.85	
			LE		15.0	8.16	
GZH	65.6	304	+P	22 14 50.5	0.6		
			S	22 23 38.0	5.6		
			SMN	m <sub>B</sub> =6.5	11.0	5.31	
			SME		10.0	2.05	
			SKS	22 24 44.0	4.2		
			SS	22 27 54.0	6.2		
			LN	M <sub>s</sub> =6.4	38.0	23.8	
			LE		41.0	19.8	
NJ2	66.5	315	+P	22 14 56.0	0.8		
			pP	22 15 02.5	0.5		
			iS	22 23 46.0	2.3		
			LN	M <sub>s</sub> =6.5	18.0	17.0	
QZN	66.6	299	+P	22 14 57.0	0.8		
			PP	22 17 28.0	4.2		
			S	22 23 49.5	5.1		
			SMN	m <sub>B</sub> =6.5	11.0	5.30	
			SME		11.0	2.50	
			ScS	22 24 44.0	-3.7		
			LN	M <sub>s</sub> =6.7	27.0	27.3	
			LE		27.0	32.0	
WHN	68.8	312	+P	22 15 09.0	-0.6		
			PMZ	m <sub>B</sub> =6.4	8.0	3.50	
			sP	22 15 20.0	0.5		
			PcP	22 15 34.0	0.6		
			S	22 24 04.0	-6.0		
			SS	22 28 30.0	-6.6		
MDJ	68.9	331	+iP	22 15 11.0	0.4		
			pP	22 15 17.0	-0.3		
			S	22 24 09.0	-2.8		
			sS	22 24 19.0	-5.5		
DL2	69.0	323	+P	22 15 10.0	-1.2		
			S	22 24 10.0	-3.1		
			LN	M <sub>s</sub> =6.5	16.0	12.6	
			LE		16.0	6.46	









1987 1 3

O=22 36 58.4 ± 0.07s  
 LAT=14.57 S ± 0.85km  
 LONG=167.93 E ± 1.68km  
 DEPTH= 35 km ± 0.22km

STATIONS USED = 33, STAND DEV = 0.91s

NJ2	66.0	315	-P	22 47 45.0	0.8
MDJ	68.4	332	eP	22 47 59.0	-0.5
TIA	69.6	318	eP	22 48 06.3	-0.7
CN2	69.8	329	eP	22 48 07.0	-1.2
GYA	72.2	304	P	22 48 22.2	0.0
BJI	72.5	321	eP	22 48 24.0	-0.4
TIY	73.6	317	-P	22 48 31.4	0.8
XAN	74.1	312	eP	22 48 33.0	-0.4
KMI	74.8	301	+P	22 48 38.0	0.3
CD2	76.4	307	eP	22 48 47.3	0.3
GTA	83.0	314	+iP	22 49 23.5	1.0
WMQ	93.1	314	P	22 50 10.8	0.0

1987 1 4

O=00 05 36.8 ± 0.09s  
 LAT=51.45 N ± 3.79km  
 LONG=177.28 W ± 2.11km  
 DEPTH= 31 km ± 1.61km

STATIONS USED = 47, STAND DEV = 0.97s

Ms=4.7 / 1,

MDJ	35.5	280	eP	00 12 32.0	-1.2
SNY	40.7	280	+P	00 13 17.6	0.9
BJI	46.3	283	eP	00 14 02.5	0.6
HHC	48.6	287	-P	00 14 21.6	1.6
BTO	49.7	287	eP	00 14 29.2	0.8
TIY	50.0	283	-iP	00 14 32.4	1.3
			PMZ		1.0 0.040
			LE	Ms=4.7	13.0 0.28
WHN	53.6	275	-P	00 14 57.5	-0.4
XAN	54.6	282	+P	00 15 04.4	-0.7
GTA	56.4	293	+iP	00 15 18.5	-0.1
CD2	59.9	283	eP	00 15 42.7	-0.1
GYA	61.3	277	P	00 15 51.6	-0.6
LSA	68.3	291	+P	00 16 38.3	0.1

1987 1 4

O=00 32 15.3 ± 0.14s  
 LAT=20.82 S ± 1.81km  
 LONG=178.77 W ± 2.44km  
 DEPTH=568 km ± 0.60km

STATIONS USED = 30, STAND DEV = 1.33s

MDJ	80.4	325	P	00 43 30.0	0.2
TIA	83.0	313	eP	00 43 41.9	-1.1
XAN	87.7	308	-P	00 44 06.6	0.5

1987 1 4

O=01 38 52.2 ± 0.12s  
 LAT=27.22 S ± 2.06km  
 LONG=176.21 W ± 2.97km  
 DEPTH= 40 km ± 0.65km

STATIONS USED = 51, STAND DEV = 1.36s

Ms=5.2 / 2, m<sub>B</sub>=5.9 / 2

SSE	83.2	310	eP	01 51 16.0	-0.7
			sP	01 51 29.5	-2.7
			eS	02 01 32.0	-1.1
			sS	02 01 52.0	0.3
			SS	02 06 58.0	-2.0
GZH	84.4	299	eP	01 51 23.0	0.3
QZN	85.1	294	eP	01 51 23.0	-3.1
NJ2	85.4	309	+P	01 51 27.5	-0.1
			eS	02 01 51.5	-3.1
MDJ	86.9	325	eP	01 51 34.0	-1.1
			pP	01 51 44.0	-2.1
			eS	02 02 05.0	-4.3
WHN	87.7	306	eP	01 51 39.0	0.1
			PMZ		1.0 0.080
			eS	02 02 16.0	-0.7
			LE	Ms=5.2	24.0 0.70
SNY	88.4	320	eP	01 51 41.2	-0.8
CN2	88.6	322	+iP	01 51 41.0	-2.1
			PMZ	m <sub>B</sub> =6.0	5.0 0.60
			epP	01 51 52.0	-2.2
			eS	02 02 20.0	-4.8
TIA	89.0	312	eP	01 51 45.4	0.4
GYA	91.4	299	P	01 51 55.0	-1.2
			sP	01 52 10.0	-1.6
			sS	02 03 10.0	1.3
TIY	92.9	311	+P	01 52 03.5	0.0
			PMZ		1.2 0.040
			SMN	m <sub>B</sub> =5.9	10.0 1.06
XAN	93.5	307	-P	01 52 06.4	0.6
			pP	01 52 17.0	0.2
			eS	02 03 08.0	-0.5
			sS	02 03 28.0	0.9
GTA	102.4	308	eP	01 52 45.0	-1.5

1987 1 4

O=07 05 23.3 ± 0.09s  
 LAT=57.19 S ± 2.32km  
 LONG= 26.05 W ± 2.91km  
 DEPTH=123 km ± 0.84km

STATIONS USED = 12, STAND DEV = 1.72s

NJ2	145.2	121	+PKP	07 24 46.0	-1.4
TIY	146.5	108	+PKP	07 24 49.0	-0.8



BTO 147.4 101 ePKP 07 24 51.8 0.6  
 BJI 150.2 109 ePKP 07 24 59.0 3.4

1987 1 4

O=08 01 27.8 ± 0.06s  
 LAT= 4.65 S ± 0.65km  
 LONG=145.16 E ± 1.07km  
 DEPTH= 69 km ± 0.25km

STATIONS USED = 15, STAND DEV = 1.21s

WMQ 70.6 320 P 08 12 38.0 -0.3

1987 1 4

O=10 21 44.6 ± 0.08s  
 LAT=49.69 N ± 1.87km  
 LONG=149.46 E ± 1.38km  
 DEPTH=490 km ± 0.24km

STATIONS USED = 82, STAND DEV = 1.00s

$m_B = 4.8 / 6$

MDJ 14.4 257 +P 10 24 48.8 -1.0  
 S 10 27 15.0 -3.8  
 SME  $m_B = 4.7$  4.0 0.77  
 ScP 10 32 17.3 0.4

CN2 17.4 259 +P 10 25 19.0 -1.0  
 esP 10 27 20.0 1.3  
 eS 10 28 11.0 -3.3  
 SME  $m_B = 4.7$  6.0 1.10  
 PcP 10 29 33.0 -1.5  
 ScP 10 32 20.0 -2.6

SNY 19.6 256 -iP 10 25 42.0 0.9  
 S 10 28 54.0 2.8  
 SMN  $m_B = 4.7$  10.0 1.02  
 SME 12.0 1.50

DL2 22.5 252 P 10 26 08.2 0.1

BJI 25.3 260 eP 10 26 33.0 -0.1  
 ePcP 10 29 50.0 -0.1  
 eS 10 30 22.0 -2.7  
 ScS 10 36 28.5 -2.3

TIA 27.0 252 -P 10 26 47.7 -0.5

SSE 28.2 239 eP 10 26 55.0 -3.5  
 ScP 10 32 50.1 -0.5

BTO 29.0 267 P 10 27 05.5 -0.1

TIY 29.0 260 -iP 10 27 06.7 0.7

PMZ 1.0 0.13

S 10 31 27.0 4.8

WHN 32.6 247 -P 10 27 35.5 -0.5

ScP 10 33 05.0 0.0

XAN 33.5 258 -P 10 27 44.0 -0.4

PMZ 1.0 0.040

pP 10 29 13.5 2.6

PP 10 29 18.0 -1.1

S 10 32 29.0 -2.8  
 ScP 10 33 08.0 -0.4  
 eSS 10 35 24.0 1.7  
 LZH 35.5 265 -P 10 28 02.0 0.9

PMZ 1.0 0.23

pP 10 29 30.0 1.5

eS 10 32 59.0 -4.2

GTA 36.2 273 -iP 10 28 07.2 0.2

PcP 10 30 19.3 0.0

S 10 33 10.0 -2.6

ScP 10 33 16.8 -1.3

SME  $m_B = 4.8$  6.0 0.26

ScP 10 33 16.8 -1.3

ScS 10 37 24.0 -1.1

CD2 38.9 259 -iP 10 28 28.7 0.1

PMZ 0.9 0.12

S 10 33 49.0 -2.7

GYA 40.2 251 -P 10 28 39.0 -0.1

PcP 10 30 32.0 0.2

ScS 10 37 46.0 -2.1

WMQ 41.7 286 -iP 10 28 51.8 0.7

PMZ 1.5 0.19

PcP 10 30 33.0 -3.8

ScP 10 33 36.0 -3.0

S 10 34 31.0 -1.0

QZN 44.0 240 +P 10 29 09.0 -0.3

eS 10 35 05.5 -0.3

eScS 10 38 10.5 -1.0

LSA 47.8 268 -P 10 29 38.5 -0.8

KSH 51.4 288 +iP 10 30 05.0 -0.6

PcP 10 31 12.0 0.6

1987 1 4

O=10 43 21.2 ± 0.13s

LAT=27.47 S ± 1.82km

LONG=176.46 W ± 3.30km

DEPTH= 33 km ± 0.54km

STATIONS USED = 27, STAND DEV = 1.74s

$m_B = 5.6 / 1$

NJ2 85.4 310 eP 10 55 57.0 -0.3

WHN 87.7 306 eP 10 56 08.5 0.0

CN2 88.6 322 cP 10 56 15.0 1.8

TIA 89.0 312 cP 10 56 15.0 0.2

GYA 91.3 299 P 10 56 28.2 2.5

TIY 92.9 311 cP 10 56 32.5 -0.8

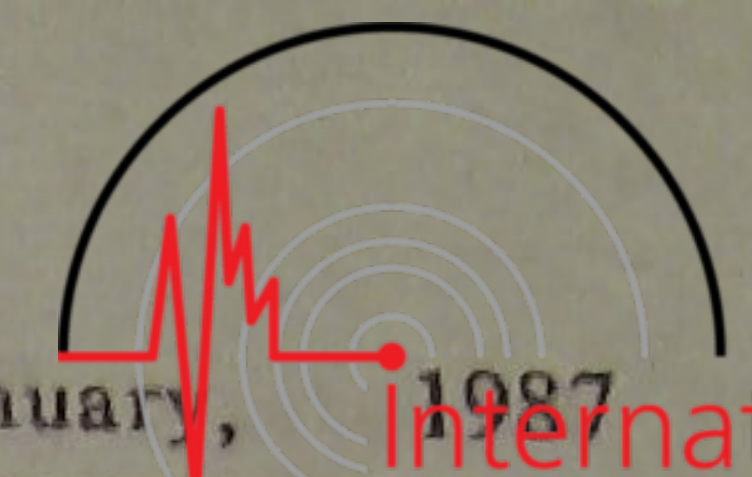
pP 10 56 43.0 0.2

SMN  $m_B = 5.6$  10.0 0.47

XAN 93.4 307 eP 10 56 35.8 0.3

1987 1 4





<p>O = 13 22 02.0 ± 0.09s                      LAT = 2.33 S ± 1.61km                      LONG = 139.53 E ± 1.65km                      DEPTH = 32 km ± 0.10km                      STATIONS USED = 91, STAND DEV = 1.06s                      Ms = 5.5 / 40, m<sub>B</sub> = 6.0 / 33</p>													
QZH	33.9	324	+iP	13 28 43.0	-1.2			ScS	13 39 57.0	2.9			
			PMZ		m <sub>B</sub> = 5.8	6.0	1.00	LN		Ms = 5.5	16.0	1.70	
			pP	13 28 53.0	-0.3			LE			16.0	2.30	
			S	13 34 03.5	-1.4			TIA	43.7	333	+P	13 30 05.3	-0.7
			SMN		m <sub>B</sub> = 5.7	8.0	1.30	epP				13 30 14.5	-0.7
			SME			10.0	0.70	S				13 36 34.5	1.9
			LN		Ms = 5.6	34.0	9.40	SMN		m <sub>B</sub> = 6.0	10.0	1.96	
			LE			34.0	7.40	SME			12.0	1.84	
GZH	35.9	316	+P	13 29 02.0	0.4			SS	13 39 48.5	7.0			
			PMZ		m <sub>B</sub> = 6.1	5.0	1.69	LN		Ms = 5.5	12.0	1.11	
			S	13 34 42.0	5.7			LE			17.0	2.51	
			LN		Ms = 5.5	17.0	3.30	DL2	44.2	340	eP	13 30 10.0	-0.5
			LE			16.0	2.19	S				13 36 42.0	1.3
QZN	36.1	307	+P	13 29 02.5	-0.7			SMN		m <sub>B</sub> = 6.0	9.0	1.08	
			pP	13 29 13.0	0.8			SME			9.0	1.94	
			PP	13 30 25.5	0.2			LN		Ms = 5.5	12.0	0.67	
			S	13 34 40.0	0.9			LE			15.0	2.72	
			LN		Ms = 5.7	25.0	8.40	KMI	44.9	310	+iP	13 30 17.0	0.8
			LE			23.0	4.00	pP				13 30 28.0	2.9
SSE	37.5	334	+P	13 29 14.0	-1.4			PP				13 32 03.0	1.3
			PMZ		m <sub>B</sub> = 5.9	4.0	0.79	S				13 36 55.0	4.6
			pP	13 29 25.0	0.5			LE		Ms = 5.5	18.0	3.40	
			PP	13 30 44.0	0.3			XAN	46.2	324	+P	13 30 26.2	-0.4
			iS	13 35 02.0	-0.3			PMZ		m <sub>B</sub> = 6.1	4.0	1.07	
			sS	13 35 18.0	0.6			pP				13 30 36.0	0.2
			SS	13 37 38.0	2.1			iPP				13 32 14.0	-0.7
			LN		Ms = 5.3	14.0	1.38	S				13 37 12.0	2.4
			LE			14.0	1.59	SMN		m <sub>B</sub> = 6.2	7.0	2.07	
NJ2	39.4	332	+P	13 29 31.5	0.5			SME			8.0	1.02	
			PMZ		m <sub>B</sub> = 5.9	6.0	1.10	sS	13 37 25.0	-0.8			
			sP	13 29 47.5	3.4			LE		Ms = 5.1	16.0	1.14	
			iS	13 35 33.0	2.3			SNY	46.3	343	+iP	13 30 27.0	0.2
			LN		Ms = 5.5	14.0	3.40	PMZ		m <sub>B</sub> = 5.6	11.0	0.99	
WHN	40.6	326	+P	13 29 42.0	1.5			S				13 37 07.0	-3.0
			PMZ		m <sub>B</sub> = 6.1	4.0	1.30	SMN			13.0	1.79	
			pP	13 29 52.0	2.4			SME			14.0	3.80	
			S	13 35 51.0	4.1			sS	13 37 28.0	1.8			
			SME		m <sub>B</sub> = 6.0	10.0	2.70	LN		Ms = 5.6	22.0	3.63	
			LN		Ms = 5.3	14.0	2.10	LE			22.0	2.46	
GYA	42.7	314	+P	13 29 59.4	0.8			TIY	47.1	330	eP	13 30 32.6	-0.7
			PMZ		m <sub>B</sub> = 6.2	5.0	1.90	PMZ		m <sub>B</sub> = 5.8	7.0	0.90	
			pP	13 30 10.0	2.4			S				13 37 22.5	0.9
			S	13 36 21.0	2.0			SMN		m <sub>B</sub> = 5.7	10.0	0.71	
			sS	13 36 32.0	-3.1			SME			13.0	1.18	
								sS	13 37 44.0	6.2			
								ScS	13 40 26.5	4.9			
								SS	13 40 48.5	6.5			
								LN		Ms = 5.8	23.0	3.77	
								LE			20.0	5.59	
								BJI	47.3	336	eP	13 30 34.0	-0.7











STATIONS USED = 26, STAND DEV = 1.22s																	
GYA	39.6	330	P	10 50 16.0	0.5	TIA	52.6	283	+P	12 21 08.2	-0.3	LE					
CD2	44.7	331	eP	10 50 56.3	-0.5				S	12 28 32.0	0.5						
XAN	45.1	338	eP	10 50 59.8	-0.8				S2	12 28 39.0	6.3						
BJI	48.7	349	eP	10 51 27.5	-0.8				SMN			14.0	6.50				
GTA	53.5	333	+P	10 52 04.0	-0.2				SME			20.0	19.3				
WMQ	62.7	329	P	10 53 08.0	-0.1				LN	Ms=7.0		17.0	70.9				
									LE			15.0	18.7				
1987 1 5						HHC	52.8	291	+P	12 21 10.5	0.8						
O=12 11 54.5				± 0.12s					S	12 28 35.0	1.5						
LAT=52.64 N				± 3.09km					LN	Ms=7.1		19.0	51.9				
LONG=169.48 W				± 2.11km					LE			20.0	96.2				
DEPTH=29 km				± 0.49km		SSE	53.7	275	-iP	12 21 17.0	0.5						
STATIONS USED = 103, STAND DEV = 1.36s									PMZ			1.5	0.55				
Ms=7.0/43,				m <sub>B</sub> =6.6/25					sP	12 21 32.5	3.4						
MDJ	40.0	284	eP	12 19 28.0	-0.5				PP	12 23 19.0	0.9						
			P2	12 19 34.0	6.1				sS	12 29 06.0	3.9						
			PP	12 21 03.0	-1.5				LN	Ms=7.0		24.0	83.2				
			S	12 25 32.0	0.9				LE			18.0	57.8				
			SME			20.0	19.9	BTO	53.8	291	P	12 21 18.0	0.6				
CN2	42.9	285	+iP	12 19 51.8	-0.7				PP	12 23 20.0	0.9						
			PMZ	m <sub>B</sub> =6.6		7.0	6.00		PcS	12 26 23.0	3.2						
			RP	12 21 33.0	-1.5				SS	12 32 34.0	6.1						
			PcP	12 21 47.0	4.0				LN	Ms=7.0		18.0	57.2				
			PcS	12 25 37.0	3.0				LE			17.0	55.3				
			SMN			15.0	10.0	TIY	54.4	287	+P	12 21 21.9	0.4				
			SME			15.0	7.50		PMZ	m <sub>B</sub> =6.7		9.5	9.17				
SNY	45.2	284	iP	12 20 11.0	0.2				PP	12 23 30.0	6.0						
			PMZ	m <sub>B</sub> =6.7		6.5	7.14		S	12 28 56.5	1.3						
			PP	12 21 57.0	0.2				SMN	m <sub>B</sub> =6.5		12.0	4.97				
			PcS	12 25 42.0	-1.2				SME			13.0	5.35				
			S	12 26 51.0	3.8				LN	Ms=7.1		18.0	75.4				
			SME			22.0	14.9		LE			17.0	43.9				
			LN	Ms=6.9		17.0	50.7	NJ2	54.4	278	+P	12 21 21.5	-0.5				
			LE			16.5	47.7		PMZ	m <sub>B</sub> =6.9		6.0	8.60				
DL2	48.2	282	eP	12 20 35.6	1.1				S	12 29 00.0	3.7						
			PMZ	m <sub>B</sub> =6.5		7.0	4.25		LN	Ms=6.7		15.0	33.0				
			PcS	12 26 02.0	6.3				WHN	58.2	280	+P	12 21 48.5	-0.5			
			SMN			14.0	3.58		PMZ			1.0	0.20				
			SME			13.0	2.83		iS	12 29 45.0	-2.6						
			LN	Ms=6.8		16.0	52.0		SMN	m <sub>B</sub> =6.6		8.0	5.80				
			LE			20.0	31.0		LE	Ms=6.9		21.0	62.6				
BJI	50.6	287	eP	12 20 54.0	0.5				XAN	59.0	287	iP	12 21 53.5	-0.7			
			PMZ	m <sub>B</sub> =6.6		10.0	7.31		P2	12 22 00.0	6.5						
			ePP	12 22 56.0	6.4				PP	12 24 08.8	3.3						
			eS	12 28 11.0	5.6				S	12 30 00.0	4.0						
			SMN			13.0	4.53		LN	Ms=7.1		22.0	96.9				
			SME			17.0	8.55		LE			16.0	32.4				
			eSS	12 31 38.0	2.0				QZH	59.7	272	eP	12 22 00.0	0.5			
			LN	Ms=7.0		17.0	54.1		iS	12 30 11.0	3.9						



			SMN	$m_B = 6.6$	9.0	5.20		eS	12 32 12.0	4.3		
			SME		9.0	5.60		SMN	$m_B = 6.4$		12.0	2.70
			LN	$M_s = 6.7$	22.0	35.1		SME			12.0	4.30
			LE		20.0	12.6		SKS	12 32 59.0	3.1		
GTA	60.3	297	iP		12 22 02.5	-1.1		LN	$M_s = 6.8$		24.0	27.0
			PMZ	$m_B = 6.4$		11.5	6.35	LE			22.0	30.7
			P2		12 22 09.0	6.3		KSH	72.2 312 P	12 23 20.0	0.6	
			PP		12 24 21.0	3.4		PP	12 25 55.0	-5.6		
			eS		12 30 09.0	-5.8		S	12 32 41.0	3.3		
			SMN			38.0	19.7	LE	$M_s = 7.4$		17.0	101
			SME			40.0	37.3	LSA	72.3 296 +iP	12 23 20.4	0.2	
			SS		12 34 17.0	5.1		eS	12 32 44.0	3.1		
			LN	$M_s = 7.2$		28.0	84.8	LN	$M_s = 7.0$		32.0	46.9
			LE			19.0	114	LE			24.5	51.8
LZH	60.4	292	+P		12 22 04.0	-0.5						
			PMZ	$m_B = 6.3$		11.0	4.60		<b>1987 1 5</b>			
			SMN	$m_B = 6.5$		12.0	6.95		<b>O = 13 29 30.3</b>	$\pm 0.19s$		
			LN	$M_s = 7.4$		17.0	112		<b>LAT = 4.02 N</b>	$\pm 2.35km$		
			LE			17.0	75.6		<b>LONG = 96.66 E</b>	$\pm 1.97km$		
WMQ	63.3	308	P		12 22 24.0	0.3			<b>DEPTH = 69 km</b>	$\pm 0.80km$		
			PMZ			32.0	15.6		<b>STATIONS USED = 20,</b>	<b>STAND DEV = 2.34s</b>		
			PP		12 24 42.8	-0.8		KMI	21.8 15 eP	13 34 22.5	4.1	
			LN	$M_s = 7.1$		20.0	71.6	GYA	24.3 22 P	13 34 45.0	2.3	
			LE			24.0	53.3	LSA	26.1 349 eP	13 34 58.3	-1.7	
CD2	64.2	288	P		12 22 29.7	0.0		CD2	27.6 13 eP	13 35 14.7	1.4	
			PMZ			20.0	19.2	XAN	32.0 19 eP	13 35 51.4	-1.0	
			S		12 31 02.5	-0.3		GTA	35.3 4 eP	13 36 19.1	-2.5	
			LN	$M_s = 7.2$		18.0	55.3	BJI	40.0 24 eP	13 37 00.0	0.0	
			LE			12.0	50.9		<b>1987 1 5</b>			
GZH	64.3	275	-P		12 22 31.0	1.0			<b>O = 18 47 09.5</b>	$\pm 0.07s$		
			PMZ			18.0	13.2		<b>LAT = 52.78 N</b>	$\pm 2.37km$		
			SMN	$m_B = 6.6$		8.0	3.56		<b>LONG = 169.48 W</b>	$\pm 0.98km$		
			SME			10.0	5.00		<b>DEPTH = 32 km</b>	$\pm 0.19km$		
			LN	$M_s = 6.9$		23.0	56.9		<b>STATIONS USED = 18,</b>	<b>STAND DEV = 0.89s</b>		
			LE			16.0	10.7	CN2	42.8 285 eP	18 55 07.0	0.2	
GYA	65.8	282	+P		12 22 40.0	0.0		SSE	53.7 275 P	18 56 31.0	-0.1	
			PMZ	$m_B = 6.9$		5.0	7.80		PMZ		1.0	0.010
			PP		12 25 09.0	2.7		XAN	58.9 286 eP	18 57 07.4	-1.2	
			SMN	$m_B = 6.5$		9.0	4.30	GTA	60.2 297 P	18 57 17.0	-0.8	
			LN	$M_s = 6.8$		17.0	26.7	GYA	65.8 282 -P	18 57 54.8	0.4	
			LE			17.0	23.3	LSA	72.2 296 -P	18 58 34.8	0.4	
KMI	69.1	284	+P		12 23 01.5	0.5			<b>1987 1 5</b>			
			PcP		12 23 22.0	-1.8			<b>O = 20 51 46.8</b>	$\pm 0.11s$		
			PP		12 25 41.0	5.9			<b>LAT = 14.90 S</b>	$\pm 0.85km$		
			S		12 32 08.0	5.9			<b>LONG = 167.31 E</b>	$\pm 1.77km$		
			SKS		12 32 56.0	2.7			<b>DEPTH = 131 km</b>	$\pm 0.50km$		
			LN	$M_s = 7.0$		18.0	47.9		<b>STATIONS USED = 57,</b>	<b>STAND DEV = 0.92s</b>		
QZN	69.5	275	eP		12 23 04.5	1.6		NJ2	65.8 316 -P	21 02 21.0	0.1	
			ePP		12 25 42.5	4.5						
			PcP		12 23 26.0	0.7						



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QZN	65.8	299	eP	21 02 21.6	0.5		
WHN	68.1	312	P	21 02 34.5	-0.5		
MDJ	68.4	332	eP	21 02 38.0	0.7		
DL2	68.5	323	eP	21 02 37.1	-0.2		
TIA	69.5	318	eP	21 02 42.8	-0.9		
CN2	69.8	329	+P	21 02 44.8	-0.9		
GYA	71.8	305	+P	21 02 58.0	0.0		
BJI	72.4	321	eP	21 03 00.5	-0.7		
TIY	73.4	317	+P	21 03 07.6	0.4		
			PMZ			1.0	0.030
			eS	21 12 23.5	-1.3		
XAN	73.8	313	+iP	21 03 09.6	0.0		
KMI	74.4	302	+P	21 03 14.5	1.3		
HHC	75.7	320	P	21 03 21.0	0.5		
CD2	76.1	308	eP	21 03 22.7	-0.1		
BTO	76.6	319	eP	21 03 25.0	-0.2		
LZH	78.5	312	+P	21 03 36.5	0.8		
			PMZ			1.5	0.060
GTA	82.8	314	+iP	21 03 59.3	0.6		
LSA	85.7	302	+P	21 04 13.3	-0.1		
WMQ	92.9	315	+P	21 04 47.0	0.1		

1987 1 5

O=21 24 21.1 ± 0.13s  
 LAT=40.48 N ± 1.28km  
 LONG=116.47 E ± 1.13km  
 DEPTH= 13 km ± 0.31km  
 STATIONS USED = 12, STAND DEV= 3.02s

M<sub>L</sub>=3.0 / 10,

BJI	0.5	208	+iPg	21 24 31.5	1.4		
			Sg	21 24 40.0	3.0		
			SMN	M <sub>L</sub> =3.2	0.5	1.26	
			SME		0.5	1.53	
TIY	4.2	230	ePg	21 25 39.3	4.2		
			Sg	21 26 32.0	-0.2		
			SMN	M <sub>L</sub> =3.2	0.5	0.030	
			SME		0.5	0.060	
TIA	4.3	173	ePn	21 25 25.8	-0.7		
			Pg	21 25 38.9	2.1		
			Sg	21 26 36.7	1.2		
			SMN	M <sub>L</sub> =2.6	0.3	0.010	
			SME		0.3	0.010	
BTO	4.9	273	Pg	21 25 48.4	0.2		
			Sg	21 26 51.6	-3.6		

1987 1 5

O=22 52 31.8 ± 0.12s  
 LAT= 0.11 N ± 1.43km  
 LONG=126.20 E ± 2.52km  
 DEPTH= 39 km ± 0.46km

STATIONS USED = 22, STAND DEV = 2.27s  
 M<sub>s</sub>=5.7 / 6,

QZN	24.7	320	eP	22 57 49.0	-2.1		
			pP	22 57 58.5	-2.6		
			LN	M <sub>s</sub> =5.3	16.0	2.70	
			LE		15.0	4.20	
GZH	26.0	332	eP	22 58 01.8	-1.7		
			eS	23 02 28.0	-1.6		
			LN	M <sub>s</sub> =5.5	11.0	3.95	
			LE		10.0	2.65	
SSE	31.2	352	eP	22 58 49.0	-0.8		
			S	23 03 48.0	-3.1		
			LN	M <sub>s</sub> =5.4	10.0	1.75	
			LE		10.0	1.66	
NJ2	32.5	348	+P	22 59 06.0	4.4		
			iS	23 04 08.0	-4.9		
			LN	M <sub>s</sub> =6.0	11.0	10.1	

1987 1 5

O=22 52 46.0 ± 0.08s  
 LAT=41.95 N ± 1.30km  
 LONG= 81.31 E ± 0.97km  
 DEPTH= 16 km ± 0.04km

STATIONS USED = 104, STAND DEV = 1.54s  
 M<sub>s</sub>=5.8 / 40, m<sub>B</sub>=5.6 / 10

KSH	4.8	240	-iPn	22 54 03.0	5.3		
			Sg	22 55 18.0	2.9		
			LE	M <sub>s</sub> =5.7	4.0	49.8	
WMQ	5.1	66	+iPn	22 54 05.5	3.8		
GTA	14.3	94	+iP	22 56 07.0	-3.0		
LSA	14.6	144	-iP	22 56 14.8	0.3		
LZH	18.4	101	+P	22 57 02.5	-0.7		
			eS	23 00 28.0	2.1		
			SMN	m <sub>B</sub> =5.9	6.0	3.44	
			LN	M <sub>s</sub> =5.9	8.0	15.3	
CD2	21.1	114	+iP	22 57 33.3	0.7		
			S	23 01 27.0	5.6		
			LN	M <sub>s</sub> =5.7	12.0	12.8	
BTO	21.6	84	+iP	22 57 37.0	-0.5		
			ePP	22 58 00.0	-1.1		
			S	23 01 30.0	-0.5		
			SMN	m <sub>B</sub> =5.6	8.0	2.10	
			SME		8.0	0.50	
			SS	23 02 04.0	-2.2		
			LN	M <sub>s</sub> =6.0	10.0	5.40	
			LE		15.0	27.0	
HHC	22.7	83	+P	22 57 48.6	0.2		
			S	23 01 57.0	6.5		
			LN	M <sub>s</sub> =5.9	6.0	6.59	
			LE		6.0	5.81	



XAN	23.1	101	+iP	22 57 52.4	0.0		
			pP	22 58 00.0	1.6		
			iS	23 02 03.0	4.3		
			sS	23 02 13.0	4.3		
			LN	Ms = 5.9	10.0	10.3	
			LE		10.0	7.20	
TIY	24.2	90	+iP	22 58 04.4	1.1		
			PMZ		1.0	0.32	
			pP	22 58 12.5	3.2		
			sP	22 58 15.0	2.5		
			PP	22 58 41.0	3.7		
			S	23 02 22.5	5.1		
			SMN		16.0	4.70	
			SME		14.0	2.13	
			sS	23 02 34.5	6.2		
			LN	Ms = 6.0	7.5	11.9	
KMI	24.4	127	-P	22 58 07.0	1.6		
			LN	Ms = 5.7	10.0	5.10	
			LE		10.0	5.50	
GYA	25.9	119	P	22 58 20.4	0.7		
			S	23 02 49.0	2.8		
			ScS	23 09 15.0	1.0		
			LN	Ms = 5.6	12.0	4.40	
BJI	26.3	82	eP	22 58 23.5	0.6		
			eS	23 02 55.5	2.6		
			SMN	m <sub>B</sub> = 5.6	6.0	1.02	
TIA	28.2	90	+P	22 58 41.2	0.3		
			S	23 03 28.0	4.0		
			LN	Ms = 5.9	12.8	10.3	
WHN	28.8	103	+iP	22 58 46.2	0.3		
			S	23 03 36.0	3.0		
			PcS	23 05 40.0	3.5		
DL2	30.6	82	+P	22 59 02.0	-0.3		
			S	23 04 03.0	0.8		
			LN	Ms = 5.7	14.0	6.27	
SNY	31.2	76	+iP	22 59 06.0	-1.5		
			S	23 04 12.0	0.5		
			SMN	m <sub>B</sub> = 5.5	8.0	0.72	
NJ2	31.4	96	+P	22 59 06.0	-2.6		
			iS	23 04 08.0	-6.2		
			LN	Ms = 5.9	11.0	10.1	
CN2	32.1	72	+iP	22 59 14.0	-1.3		

QZN	33.3	125	P	22 59 26.0	0.4		
			S	23 04 40.0	-3.7		
			SS	23 06 40.0	-5.6		
			LN	Ms = 5.5	15.0	3.30	
			LE			14.0	3.40
			SSE	33.6	96	-P	22 59 28.1
MDJ	34.8	69	+iP	22 59 39.2	0.3		
			S	23 05 10.0	2.3		
			PMZ		1.0	0.12	
			S	23 04 48.0	0.3		
SME			LN	Ms = 5.9	15.0	4.89	
			LE		13.0	8.36	

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O = 00 05 10.5 ± 0.38s

LAT = 22.55 N ± 3.13km

LONG = 118.76 E ± 2.52km

DEPTH = 29 km ± 0.19km

STATIONS USED = 17, STAND DEV = 2.48s

Ms = 3.8 / 1, M<sub>L</sub> = 4.1 / 11,

QZH	2.4	356	ePn	00 05 47.0	-1.2		
			Sn	00 06 16.2	-1.9		
			Sg	00 06 22.0	-3.8		
GZH	5.0	277	SMN	M <sub>L</sub> = 3.8	0.8	0.46	
			SME		0.4	0.79	
SSE	8.8	14	eP	00 07 18.5	-0.2		
			PP	00 07 25.2	-1.6		
			LE	Ms = 3.8	9.0	0.47	
WHN	8.9	335	P	00 07 22.5	2.4		
			SMN	M <sub>L</sub> = 4.6	1.1	0.080	
			SME		1.2	0.15	
QZN	9.0	249	eP	00 07 23.2	0.8		
			eS	00 09 05.6	1.3		
			SMN		0.8	0.010	
NJ2	9.5	0	SME		0.9	0.020	
			eP	00 07 27.5	-0.6		
			S	00 09 07.8	-6.7		
GYA	11.7	292	P	00 07 54.6	-4.0		
			XAN	14.3	325	eP	00 08 31.0
CD2	15.8	305	P	00 08 55.6	3.1		

1987 1 6

O = 05 07 47.5 ± 0.07s

LAT = 24.01 N ± 1.04km



LONG = 121.78 E ± 0.95km					GTA 24.1 315 -iP 05 13 02.2 1.3				
DEPTH = 40 km ± 0.43km					PMZ m <sub>B</sub> = 6.0 4.0 2.54				
STATIONS USED = 82, STAND DEV = 1.30s					S 05 17 14.0 2.1				
Ms = 5.9 / 28, m <sub>B</sub> = 6.2 / 6					LN Ms = 5.8 10.0 5.20				
QZH	3.0	288	-iP	05 08 34.5	-0.1				
			S	05 09 08.0	-1.6				
			LE	Ms = 5.0	14.0	73.1			
SSE	7.1	356	+iP	05 09 30.0	-1.4				
GZH	7.8	265	-iP	05 09 40.0	-1.3				
			LN	Ms = 5.2	20.0	24.6			
			LE			24.0	25.7		
NJ2	8.4	343	-iP	05 09 48.6	-1.4				
WHN	9.3	316	-iP	05 09 59.5	-2.3				
			PMZ			0.8	1.24		
			ipP	05 10 08.0	-0.8				
			iS	05 11 40.0	-5.5				
			LN	Ms = 5.9	8.0	26.1			
			LE			11.0	58.8		
QZN	12.2	248	-P	05 10 41.0	-0.2				
			eS	05 12 56.5	0.3				
			LN	Ms = 5.3	17.0	14.9			
			LE			16.0	10.6		
GYA	13.9	283	P	05 11 03.4	-0.9				
			PMZ			3.0	2.80		
			sP	05 11 14.0	-3.5				
			S	05 13 39.8	2.5				
			LN	Ms = 5.9	10.0	26.2			
			LE			14.0	21.5		
XAN	15.0	315	+P	05 11 17.6	-1.5				
			PMZ	m <sub>B</sub> = 5.7	6.0	1.94			
			pP	05 11 26.0	-1.1				
			LN	Ms = 6.0	5.0	14.8			
			LE			5.0	12.6		
KMI	17.4	278	-P	05 11 48.5	-0.3				
			pP	05 11 55.0	-2.0				
			PP	05 12 06.0	3.1				
			S	05 15 00.0	2.1				
			sS	05 15 14.0	2.1				
			LE	Ms = 5.8	12.0	21.2			
CD2	17.4	297	-iP	05 11 48.3	-0.9				
			sP	05 12 00.1	-2.6				
			S	05 15 00.2	1.4				
			LN	Ms = 6.3	6.0	25.7			
			LE			8.0	28.6		
LZH	19.6	312	-iP	05 12 17.0	1.3				
			PMZ			1.0	1.45		
			S	05 15 50.0	1.5				
			sS	05 16 05.0	2.4				
			LN	Ms = 5.9	11.0	11.2			
			LE			12.0	15.5		
1987 1 6									
O = 06 25 48.8 ± 0.10s									
LAT = 9.71 S ± 0.91km									
LONG = 149.14 E ± 1.40km									
DEPTH = 8 km ± 0.92km									
STATIONS USED = 17, STAND DEV = 1.33s									
QZN	48.1	306	eP	06 34 32.7	1.1				
XAN	57.9	321	eP	06 35 42.9	-1.2				
BJI	58.2	331	eP	06 35 47.0	1.1				
CD2	59.4	315	P	06 35 54.4	-0.1				
LZH	62.4	319	eP	06 36 15.5	0.4				
WMQ	77.0	319	P	06 37 44.5	0.0				
1987 1 6									
O = 10 45 54.4 ± 0.14s									
LAT = 21.56 N ± 1.55km									
LONG = 106.23 E ± 1.50km									
DEPTH = 9 km ± 0.11km									
STATIONS USED = 39, STAND DEV = 2.48s									
Ms = 4.5 / 10, M <sub>L</sub> = 4.5 / 4,									
QZN	4.2	126	-Pn	10 47 00.9	1.6				
			Sn	10 47 45.4	-5.4				
			Sg	10 48 10.0	3.2				
			SMN	M <sub>L</sub> = 4.4	0.9	0.80			
			SME		0.8	0.50			
			LN	Ms = 3.9	7.0	1.20			
			LE		9.0	1.60			
KMI	4.8	319	ePn	10 47 09.0	1.8				
			Sn	10 48 11.5	6.9				



			Sg	10 48 30.0	5.8			
			SMN			2.0	0.60	
			SME			2.0	1.20	
			LN	Ms=4.5		6.0	4.60	
GYA	4.9	5	-Pn	10 47 10.0	1.4			
			Pg	10 47 26.4	5.6			
			Sg	10 48 30.0	2.3			
GZH	6.8	76	-iPn	10 47 36.2	2.1			
			Sn	10 48 53.2	-0.4			
			LN	Ms=4.7		4.0	1.51	
			LE			6.0	2.88	
CD2	9.6	347	P	10 48 13.6	-2.1			
			LN	Ms=4.7		5.0	1.74	
WHN	11.5	38	eP	10 48 41.6	-1.0			
			LE	Ms=4.6		6.0	1.20	
XAN	12.7	10	eP	10 48 52.0	-5.8			
			LE	Ms=4.6		8.0	1.63	
LZH	14.6	352	eP	10 49 27.5	3.6			
			LN	Ms=4.6		8.0	1.12	
LSA	15.8	304	eP	10 49 40.5	0.8			
TIY	17.0	17	eP	10 49 58.4	4.4			
			eS	10 53 08.0	6.1			
			LE	Ms=4.1		14.0	0.48	
GTA	18.6	344	eP	10 50 14.7	0.1			
BTO	19.3	9	eP	10 50 24.0	1.9			
			ePP	10 50 40.0	1.5			
			eS	10 53 49.0	-4.7			
			LN	Ms=4.5		10.0	0.60	
			LE			9.0	0.30	
BJI	20.3	22	eP	10 50 34.5	1.1			
WMQ	27.0	330	eP	10 51 37.5	-1.5			
CN2	27.3	31	eP	10 51 40.5	-1.4			
1987 1 6								
O=10 57 28.7 ± 0.06s								
LAT= 6.22 S ± 0.77km								
LONG=130.51 E ± 1.23km								
DEPTH=149 km ± 0.19km								
STATIONS USED = 35, STAND DEV= 0.92s								
SSE	38.2	347	eP	11 04 36.0	0.5			
			sP	11 05 24.5	-0.5			
NJ2	39.6	344	eP	11 04 48.5	0.7			
WHN	39.7	338	-iP	11 04 49.0	0.7			
GYA	39.9	326	+P	11 04 50.0	0.2			
CD2	44.9	327	P	11 05 30.4	-0.4			
XAN	45.0	334	+P	11 05 30.1	-0.9			
TIY	46.8	340	+P	11 05 45.8	-0.1			
BJI	47.9	345	eP	11 05 54.0	0.0			
LZH	49.0	331	eP	11 06 03.0	0.5			
CN2	50.0	355	eP	11 06 08.4	-1.7			

LSA	52.0	316	+P	11 06 25.3	-0.4			
GTA	53.5	331	+iP	11 06 36.6	-0.2			
WMQ	63.0	326	+iP	11 07 43.5	0.8			
1987 1 6								
O=14 21 14.1 ± 0.06s								
LAT=23.16 N ± 0.51km								
LONG=117.34 E ± 0.38km								
DEPTH= 19 km ± 0.72km								
STATIONS USED = 5, STAND DEV= 2.19s								
M <sub>L</sub> =3.3/ 5,								
QZH	2.1	33	ePn	14 21 50.5	1.7			
			Sn	14 22 18.0	1.7			
			SMN	M <sub>L</sub> =3.2		0.1	0.12	
			SME			0.1	0.27	
GZH	3.7	270	ePg	14 22 19.0	-0.1			
			Sg	14 23 06.0	-3.4			
			SMN	M <sub>L</sub> =3.6		0.7	0.14	
1987 1 6								
O=16 55 31.5 ± 0.07s								
LAT=25.32 N ± 0.47km								
LONG=100.08 E ± 0.63km								
DEPTH= 11 km ± 0.68km								
STATIONS USED = 8, STAND DEV= 2.63s								
M <sub>L</sub> =3.7/ 3,								
GYA	6.0	78	Pn	16 57 05.8	4.5			
XAN	11.6	39	eP	16 58 18.0	-2.4			
1987 1 6								
O=19 49 54.3 ± 0.10s								
LAT=27.28 N ± 0.73km								
LONG=101.43 E ± 0.85km								
DEPTH= 9 km ± 0.33km								
STATIONS USED = 10, STAND DEV= 2.36s								
M <sub>L</sub> =2.8/ 5,								
CD2	4.1	29	ePn	19 51 00.8	2.6			
			Pg	19 51 10.7	3.2			
			Sg	19 51 58.4	-5.9			
			SMN	M <sub>L</sub> =3.4		0.8	0.090	
			SME			0.8	0.050	
GYA	4.7	99	ePn	19 51 09.4	3.0			
			Pg	19 51 21.6	3.6			
			SMN	M <sub>L</sub> =2.7		1.0	0.010	
			SME			1.0	0.010	
1987 1 6								
O=23 46 16.5 ± 0.14s								
LAT=23.96 N ± 1.46km								
LONG=121.69 E ± 1.82km								



DEPTH = 32 km ± 0.33km  
 STATIONS USED = 36, STAND DEV = 2.04s  
 Ms = 4.1 / 4, ML = 4.3 / 11,

QZH	3.0	290	ePn	23 47 03.0	0.8		
			Sn	23 47 36.1	-2.4		
			SMN	ML = 3.7	0.2	0.39	
			SME		0.2	0.28	
			LE		6.0	1.00	
SSE	7.1	356	ePn	23 48 01.5	2.5		
			SMN	ML = 3.9	1.0	0.030	
			SME		1.0	0.070	
GZH	7.7	265	eP	23 48 09.0	-0.5		
			eS	23 49 30.0	-6.6		
			SMN	ML = 4.5	1.0	0.23	
			SME		1.0	0.11	
NJ2	8.4	343	+P	23 48 17.7	-1.9		
			S	23 49 50.5	-4.2		
			LE	Ms = 3.8	7.0	0.40	
WHN	9.3	317	eP	23 48 28.5	-2.4		
			eS	23 50 10.0	-5.0		
			LN	Ms = 4.5	4.0	0.92	
QZN	12.1	248	eP	23 49 11.0	1.6		
			eS	23 51 23.9	-0.2		
GYA	13.8	283	P	23 49 31.4	-1.6		
			S	23 52 04.4	-1.6		
XAN	15.0	315	eP	23 49 48.2	-0.1		
TIY	15.8	332	eP	23 50 02.0	3.0		
			LE	Ms = 3.8	10.0	0.20	
CD2	17.4	297	eP	23 50 18.6	0.5		
			eS	23 53 30.0	1.3		
			LN	Ms = 4.7	5.0	0.63	
LZH	19.6	312	eP	23 50 49.5	4.4		
GTA	24.1	315	eP	23 51 31.8	1.3		
LSA	27.8	289	P	23 52 05.5	-0.2		

1987 1 7

O = 00 39 26.8 ± 0.12s  
 LAT = 40.46 N ± 2.12km  
 LONG = 20.84 E ± 1.75km  
 DEPTH = 16 km ± 0.34km  
 STATIONS USED = 33, STAND DEV = 1.83s

WMQ	48.5	63	eP	00 48 12.0	0.6		
LSA	57.2	77	P	00 49 15.5	-0.9		
GTA	58.6	63	+iP	00 49 25.9	0.1		
LZH	63.0	64	eP	00 49 56.5	0.5		
CD2	65.7	69	P	00 50 14.2	0.5		
XAN	67.6	64	eP	00 50 25.8	0.2		
CN2	72.2	47	eP	00 50 53.6	0.1		

1987 1 7

O = 00 44 33.5 ± 0.09s  
 LAT = 37.26 N ± 0.71km  
 LONG = 114.89 E ± 0.75km  
 DEPTH = 31 km ± 0.65km  
 STATIONS USED = 7, STAND DEV = 2.92s  
 ML = 2.7 / 5,

TIA	2.1	120	Pn	00 45 08.5	1.8		
			Pg	00 45 11.3	0.8		
			Sn	00 45 32.9	0.0		
			Sg	00 45 38.6	-0.5		
BJI	3.0	19	ePg	00 45 24.5	-1.4		
			eSg	00 46 02.0	-4.4		
			SMN	ML = 2.2	0.5	0.010	
			SME		0.5	0.010	
LSA	21.2	256	P	00 49 15.5	-3.6		

1987 1 7

O = 02 23 47.8 ± 0.08s  
 LAT = 52.35 N ± 2.76km  
 LONG = 169.48 W ± 1.42km  
 DEPTH = 32 km ± 0.51km  
 STATIONS USED = 49, STAND DEV = 1.10s

CN2	43.0	285	eP	02 31 44.0	-2.1		
SNY	45.2	284	+P	02 32 04.8	0.4		
BJI	50.7	287	eP	02 32 47.5	0.3		
SSE	53.7	275	+iP	02 33 10.0	0.3		
			PMZ			1.1	0.040
BTO	53.9	292	eP	02 33 12.0	0.8		
WHN	58.3	280	eP	02 33 43.0	0.6		
XAN	59.0	287	P	02 33 47.2	-0.6		
WMQ	63.5	308	P	02 34 18.0	0.1		
CD2	64.3	288	eP	02 34 23.2	0.0		
GYA	65.9	282	+P	02 34 33.4	0.1		
KMI	69.2	284	-P	02 34 55.5	1.1		
LSA	72.4	296	P	02 35 13.8	-0.1		

1987 1 7

O = 08 28 48.9 ± 0.05s  
 LAT = 38.01 N ± 0.82km  
 LONG = 73.08 E ± 0.67km  
 DEPTH = 136 km ± 0.21km  
 STATIONS USED = 17, STAND DEV = 1.29s

KSH	2.7	57	+iP	08 29 34.0	1.2		
			iS	08 30 10.0	4.1		
			SMN			0.5	3.80
WMQ	12.5	58	P	08 31 42.5	-0.6		
LSA	17.1	114	P	08 32 43.0	0.9		

1987 1 7

O = 14 19 20.1 ± 0.11s



LAT=17.94 S ± 1.47km  
 LONG=178.41 W ± 1.85km  
 DEPTH=577 km ± 0.51km  
 STATIONS USED = 30, STAND DEV = 1.11s

MDJ	78.2	325	+P	14 30 24.3	1.7
CN2	80.0	322	eP	14 30 32.0	-0.3
BJI	83.8	315	eP	14 30 50.5	-0.7
GYA	85.0	300	P	14 30 58.4	0.9
TIY	85.3	312	eP	14 30 59.2	0.6
XAN	86.3	307	eP	14 31 03.8	0.5
KMI	87.8	297	eP	14 31 12.5	1.7

XAN	15.6	308	eP	17 15 30.0	-1.8
TIY	15.8	325	eP	17 15 35.7	1.8
			LN	Ms=4.5	8.0 0.68
			LE		9.0 0.50
BJI	16.1	339	eP	17 15 41.5	3.2
CD2	18.5	292	eP	17 16 07.1	-1.5
			LN	Ms=4.7	12.0 1.46
CN2	18.6	4	eP	17 16 12.0	2.3
			sP	17 16 18.0	-1.2
KMI	19.0	274	eP	17 16 14.0	-0.6
BTO	19.2	327	eP	17 16 18.0	1.6
GTA	24.6	311	P	17 17 10.8	-0.8
LSA	29.2	286	P	17 17 52.2	-2.1
WMQ	34.7	312	-P	17 18 40.5	-1.4

1987 1 7  
 O=15 23 14.8 ± 0.13s  
 LAT=20.91 S ± 1.52km  
 LONG=168.51 E ± 2.21km  
 DEPTH= 22 km ± 0.42km  
 STATIONS USED = 34, STAND DEV = 1.37s

WHN	73.0	313	eP	15 34 45.0	-0.4
MDJ	74.3	332	eP	15 34 53.5	0.6
CN2	75.5	329	+P	15 35 00.4	0.2
GYA	76.2	306	P	15 35 05.0	0.7
BJI	77.8	322	eP	15 35 12.0	-1.0
KMI	78.6	303	+P	15 35 19.0	1.5
			pP	15 35 29.0	4.2
TIY	78.6	318	eP	15 35 18.0	0.5
XAN	78.7	313	+P	15 35 18.6	0.4
CD2	80.7	308	eP	15 35 24.0	-4.9
LZH	83.3	313	eP	15 35 44.0	1.4
GTA	87.8	314	P	15 36 04.6	0.1

1987 1 7  
 O=18 19 06.2 ± 0.08s  
 LAT=34.26 N ± 1.07km  
 LONG=103.36 E ± 1.01km  
 DEPTH= 20 km ± 0.08km  
 STATIONS USED = 103, STAND DEV = 2.04s  
 Ms=5.8 / 46, m<sub>B</sub>=5.8 / 9

LZH	1.9	12	+iPg	18 19 41.0	1.5
			Sg	18 20 08.0	3.1
			SMN		3.0 234
CD2	3.4	174	+iPn	18 20 01.4	3.3
			Pg	18 20 12.1	6.6
			eSg	18 20 56.9	5.4
			SME		6.0 138
XAN	4.6	91	-Pn	18 20 17.7	2.2
			Pg	18 20 30.0	2.2
			Sn	18 21 09.0	-1.5
			Sg	18 21 28.0	-3.0
			LN	Ms=5.4	4.0 17.1
			LE		4.0 17.1
GTA	5.9	332	+iPn	18 20 34.5	1.7
			Pg	18 20 53.0	3.1
			Sn	18 21 40.0	-1.5
			Sg	18 22 05.0	-5.2
			LE	Ms=5.9	7.0 85.7
TIY	8.1	62	eP	18 21 05.0	-1.2
			SMN	m <sub>B</sub> =6.5	4.0 29.4
			LE	Ms=5.8	4.0 24.1
BTO	8.2	38	P	18 21 06.8	-1.2
			LN	Ms=5.7	9.0 30.5
			LE		9.0 24.3
GYA	8.3	159	P	18 21 07.6	-0.9
			S	18 22 38.0	-4.0
			LN	Ms=5.8	8.0 35.8
			LE		8.0 31.9

1987 1 7  
 O=17 11 50.5 ± 0.16s  
 LAT=25.16 N ± 2.63km  
 LONG=123.75 E ± 1.73km  
 DEPTH= 19 km ± 2.84km  
 STATIONS USED = 31, STAND DEV = 2.69s  
 Ms=4.5 / 10,

QZH	4.7	268	ePg	17 13 15.0	1.6
			Sg	17 14 16.0	-1.4
			LN	Ms=4.0	8.0 1.17
			LE		8.0 1.57
SSE	6.3	340	eP	17 13 21.6	-3.8
			LN	Ms=4.2	16.0 2.62
			LE		14.0 2.33
NJ2	8.1	329	eP	17 13 45.0	-5.2
			LN	Ms=4.7	7.0 3.70
GYA	15.4	278	P	17 15 35.0	5.4
			LN	Ms=4.5	10.0 0.80
			LE		10.0 0.70







LZH	62.5	333	eP	20 12 19.5	0.9
CN2	63.8	353	eP	20 12 26.0	-1.1
HHC	63.8	341	eP	20 12 27.8	0.2
BTO	64.1	340	eP	20 12 28.6	-0.7
LSA	64.2	319	+P	20 12 30.0	-0.5
GTA	67.0	332	+iP	20 12 48.1	0.0
WMQ	76.2	327	+P	20 13 43.5	0.5
KSH	80.0	318	eP	20 14 06.0	1.8

1987 1 7

O=21 36 39.2 ± 0.03s  
 LAT=34.14 N ± 0.31km  
 LONG=103.37 E ± 0.34km  
 DEPTH= 4 km ± 0.20km  
 STATIONS USED = 5, STAND DEV= 2.07s

$M_L=2.8/4,$

LZH	2.0	11	ePg	21 37 13.5	-0.9
			Sg	21 37 40.5	-0.7
			SMN	$M_L=2.8$	1.0 0.080
XAN	4.6	90	ePg	21 38 01.5	0.9
			Sg	21 39 03.0	-0.4
			SMN	$M_L=2.8$	1.0 0.020
			SME		1.0 0.010

1987 1 7

O=21 40 52.7 ± 0.15s  
 LAT=34.18 N ± 1.04km  
 LONG=103.60 E ± 1.68km  
 DEPTH= 8 km ± 0.27km  
 STATIONS USED = 10, STAND DEV= 3.33s

$M_L=3.2/5,$

LZH	1.9	6	Pg	21 41 25.5	-1.2
			Sg	21 41 53.5	0.9
			SMN	$M_L=3.5$	1.0 0.38
CD2	3.3	178	Pn	21 41 44.8	0.2
XAN	4.4	90	+Pn	21 42 01.8	1.3
			Pg	21 42 15.0	4.3
			Sn	21 42 54.6	0.5
			Sg	21 43 15.6	4.5
			SMN	$M_L=3.2$	0.6 0.050
			SME		0.6 0.030

1987 1 7

O=22 39 17.5 ± 0.06s  
 LAT=34.19 N ± 0.48km  
 LONG=103.27 E ± 0.49km  
 DEPTH= 14 km ± 0.04km  
 STATIONS USED = 7, STAND DEV= 1.64s

$M_L=3.1/5,$

LZH	1.9	14	ePg	22 39 50.5	-1.7
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			Sg	22 40 16.0	-2.6
			SMN	$M_L=3.2$	1.0 0.21
XAN	4.7	90	Pg	22 40 41.2	0.7
			Sn	22 41 22.4	-2.2
			Sg	22 41 41.5	-3.1
			SMN	$M_L=3.1$	1.0 0.030
			SME		1.0 0.030

1987 1 7

O=22 43 59.1 ± 0.18s  
 LAT=44.34 N ± 1.16km  
 LONG= 81.70 E ± 1.30km  
 DEPTH= 23 km ± 0.63km  
 STATIONS USED = 15, STAND DEV= 3.01s

$M_L=4.1/6,$

WMQ	4.4	95	Pn	22 45 07.9	3.3
			Sn	22 46 02.0	5.5
			Sg	22 46 21.6	5.8
			SMN	$M_L=3.9$	0.6 0.20

1987 1 8

O=00 50 59.0 ± 0.06s  
 LAT=22.62 S ± 0.90km  
 LONG=172.09 E ± 1.07km  
 DEPTH= 51 km ± 0.58km  
 STATIONS USED = 20, STAND DEV= 0.99s

CN2	78.7	328	eP	01 02 58.0	-0.4
BJI	81.2	320	eP	01 03 12.0	0.2
TIY	82.1	316	-P	01 03 17.5	1.0
XAN	82.3	312	eP	01 03 18.0	0.3
GTA	91.4	312	eP	01 04 01.9	0.2

1987 1 8

O=01 18 04.6 ± 0.05s  
 LAT= 7.17 S ± 0.97km  
 LONG=106.03 E ± 0.92km  
 DEPTH= 32 km ± 0.08km  
 STATIONS USED = 20, STAND DEV= 0.72s

GYA	33.4	1	P	01 24 43.4	0.2
LSA	39.3	339	P	01 25 32.6	-1.0
XAN	41.1	4	eP	01 25 47.6	0.2
GTA	46.7	353	+iP	01 26 33.4	0.5
WMQ	53.4	344	P	01 27 23.7	-0.3
CN2	53.7	17	eP	01 27 25.0	-1.2

1987 1 8

O=03 36 14.0 ± 0.15s  
 LAT=14.94 S ± 1.14km  
 LONG=167.43 E ± 2.16km  
 DEPTH=128 km ± 0.76km



**STATIONS USED = 28, STAND DEV = 1.49s**

MDJ	68.5	332	eP	03 47 07.5	2.1
CN2	69.9	329	eP	03 47 13.0	-0.8
GYA	72.0	305	P	03 47 26.4	0.1
BJI	72.5	321	P	03 47 28.0	-1.4
XAN	73.9	313	+P	03 47 37.9	0.1
GTA	82.9	314	eP	03 48 26.6	-0.3

**1987 1 8**  
**O = 11 20 04.1** ± 0.06s  
**LAT = 26.18 N** ± 1.05km  
**LONG = 124.54 E** ± 0.79km  
**DEPTH = 245 km** ± 0.85km  
**STATIONS USED = 57, STAND DEV = 1.21s**

**$m_B = 4.6 / 1$**

QZH	5.5	258	+P	11 21 25.5	-1.4
SSE	5.7	330	eP	11 21 28.5	-0.9
NJ2	7.7	321	+P	11 21 55.0	0.8
WHN	10.0	298	+P	11 22 24.0	0.6
QZN	15.3	245	eP	11 23 29.8	0.1
TIY	15.4	321	eP	11 23 31.7	0.8
BJI	15.5	335	P	11 23 32.0	0.3
			S	11 26 18.0	1.8

**SME  $m_B = 4.6$  6.0 0.29**

XAN	15.6	304	P	11 23 33.2	-0.1
SNY	15.6	357	eP	11 23 33.8	0.4
GYA	16.0	275	-P	11 23 39.6	1.3
CN2	17.6	2	+P	11 23 55.0	-0.3
BTO	18.8	324	eP	11 24 07.8	0.3
MDJ	18.8	11	eP	11 24 08.5	0.4
CD2	18.9	289	P	11 24 07.6	-0.6
KMI	19.7	272	-P	11 24 17.5	0.7
LZH	20.2	304	eP	11 24 23.0	0.6
GTA	24.5	309	-iP	11 25 02.5	-0.9
LSA	29.6	285	P	11 25 49.0	-1.0
WMQ	34.6	310	eP	11 26 26.5	-5.6

**1987 1 8**  
**O = 11 35 27.6** ± 0.10s  
**LAT = 34.32 N** ± 0.79km  
**LONG = 103.49 E** ± 1.04km  
**DEPTH = 6 km** ± 0.20km  
**STATIONS USED = 8, STAND DEV = 2.22s**

**$M_L = 3.2 / 6,$**

LZH	1.8	9	Pg	11 36 01.5	2.1
			Sg	11 36 28.0	4.3
			SMN	$M_L = 3.4$	1.0 0.39
CD2	3.4	176	ePg	11 36 30.3	2.4
XAN	4.5	92	+Pn	11 36 37.4	0.6
			Pg	11 36 50.6	3.3

			Sn	11 37 30.2	-1.5
			Sg	11 37 52.6	3.6
			SMN	$M_L = 3.3$	0.6 0.050
			SME		0.6 0.040
GTA	5.9	331	ePn	11 36 54.9	-0.7
			SMN	$M_L = 2.9$	1.1 0.010
			SME		1.3 0.010

**1987 1 8**  
**O = 16 03 57.9** ± 0.10s  
**LAT = 33.98 N** ± 1.04km  
**LONG = 103.32 E** ± 0.58km  
**DEPTH = 10 km** ± 1.26km  
**STATIONS USED = 5, STAND DEV = 3.54s**

**$M_L = 2.8 / 3,$**

LZH	2.1	11	Pg	16 04 34.0	-2.1
			SME	$M_L = 2.8$	1.0 0.070
XAN	4.7	88	Pg	16 05 21.8	1.6
			Sg	16 06 23.7	0.0
			SMN	$M_L = 2.8$	0.6 0.020
			SME		0.6 0.010
GTA	6.1	334	ePg	16 05 47.9	1.9

**1987 1 8**  
**O = 18 09 43.4** ± 0.15s  
**LAT = 18.95 N** ± 1.59km  
**LONG = 147.19 E** ± 2.70km  
**DEPTH = 33 km** ± 0.25km  
**STATIONS USED = 44, STAND DEV = 1.30s**

**$M_s = 4.7 / 1,$**

SSE	26.4	302	eP	18 15 18.5	-0.7
			eS	18 19 47.0	-1.6
			sS	18 20 03.0	-0.6
			LN	$M_s = 4.7$	16.0 0.87
			LE		16.0 0.57
TIA	31.5	309	eP	18 16 04.8	-0.4
WHN	31.9	298	P	18 16 12.0	4.0
BJI	33.9	315	eP	18 16 24.5	-1.5
TIY	35.6	309	eP	18 16 40.3	0.1
XAN	37.2	302	P	18 16 53.4	-0.1
HHC	37.4	313	eP	18 16 56.4	0.5
GYA	38.0	289	P	18 17 00.8	0.2
			PcP	18 19 16.8	1.2
BTO	38.4	312	eP	18 17 05.0	0.9
CD2	40.9	296	eP	18 17 25.0	0.3
LZH	41.7	303	P	18 17 33.0	1.8
			PMZ		1.5 0.050
GTA	45.5	307	+P	18 18 01.8	-0.5
LSA	51.7	293	P	18 18 50.0	-0.8
WMQ	55.2	311	P	18 19 16.0	0.0



<p>1987 1 8</p> <p>O=18 49 03.0 ± 0.12s</p> <p>LAT= 3.63 S ± 1.24km</p> <p>LONG=144.27 E ± 1.47km</p> <p>DEPTH= 14 km ± 0.30km</p> <p>STATIONS USED = 23, STAND DEV= 1.75s</p>						
GYA	47.1	312	eP	18 57 33.6	-3.3	
XAN	50.1	321	eP	18 57 59.5	-1.0	
CD2	51.7	315	eP	18 58 13.1	0.9	
BTO	54.0	328	eP	18 58 29.4	-0.3	
GTA	59.2	321	P	18 59 06.2	-0.5	
WMQ	69.2	320	eP	19 00 11.8	-0.4	
<p>1987 1 8</p> <p>O=19 41 55.1 ± 0.10s</p> <p>LAT= 8.06 S ± 1.98km</p> <p>LONG=118.32 E ± 2.28km</p> <p>DEPTH= 72 km ± 0.13km</p> <p>STATIONS USED = 26, STAND DEV= 1.54s</p>						
KMI	36.3	336	eP	19 48 54.0	-0.2	
CD2	41.2	341	eP	19 49 34.4	-0.2	
LSA	45.7	326	P	19 50 11.5	-0.4	
LZH	46.0	344	eP	19 50 14.5	1.0	
			PMZ			1.5 0.050
GTA	50.3	341	+P	19 50 47.0	0.3	
<p>1987 1 8</p> <p>O=19 48 55.1 ± 0.09s</p> <p>LAT= 4.64 S ± 1.07km</p> <p>LONG=153.26 E ± 1.64km</p> <p>DEPTH= 47 km ± 0.34km</p> <p>STATIONS USED = 94, STAND DEV= 0.99s</p> <p>Ms=4.9/ 6,</p>						
QZH	44.7	313	-cP	19 57 06.8	0.9	
			LN			Ms=4.8 28.0 1.04
SSE	46.9	321	+iP	19 57 24.0	0.9	
			sP	19 57 44.0	3.8	
			eS	20 04 10.0	0.3	
			LE			Ms=4.9 20.0 0.87
GZH	47.7	307	+P	19 57 30.5	0.8	
			LE			Ms=5.2 18.0 1.33
QZN	48.8	300	-P	19 57 38.8	0.9	
NJ2	49.0	321	+P	19 57 40.8	1.2	
WHN	51.1	316	eP	19 57 55.5	0.2	
TIA	52.9	323	P	19 58 07.9	-0.9	
MDJ	53.4	339	eP	19 58 13.2	0.1	
SNY	53.6	333	eP	19 58 13.0	-1.1	
CN2	54.3	335	+P	19 58 18.4	-1.4	
GYA	54.7	307	P	19 58 22.6	0.4	

BJI	56.0	326	eP	19 58 30.0	-1.8	
TIY	56.7	322	+P	19 58 36.5	-0.3	
XAN	56.8	316	+P	19 58 36.6	-1.1	
KMI	57.3	304	+P	19 58 41.0	-0.1	
CD2	59.0	310	eP	19 58 52.5	-0.4	
			S	20 06 49.0	-3.9	
			LE			Ms=4.9 22.0 0.62
HHC	59.2	324	eP	19 58 54.5	0.1	
BTO	59.9	323	eP	19 58 59.6	0.0	
LZH	61.4	316	P	19 59 10.0	0.2	
			PMZ			1.5 0.19
GTA	65.8	317	+iP	19 59 38.7	0.0	
			LE			Ms=4.8 21.0 0.44
LSA	68.5	304	+P	19 59 55.0	-0.9	
WMQ	75.9	317	P	20 00 39.6	0.1	
KSH	83.2	310	+iP	20 01 21.0	2.5	
<p>1987 1 8</p> <p>O=21 20 26.8 ± 0.11s</p> <p>LAT=27.82 N ± 0.85km</p> <p>LONG=101.24 E ± 0.86km</p> <p>DEPTH= 19 km ± 0.33km</p> <p>STATIONS USED = 19, STAND DEV= 2.27s</p> <p>Ms=3.4/ 1, ML=3.7/ 10,</p>						
KMI	3.0	153	+iPg	21 21 21.0	0.7	
			Sg	21 22 04.5	3.4	
			SMN			ML=3.8 1.0 0.35
			SME			1.0 0.33
			LN			Ms=3.4 7.0 0.94
CD2	3.8	35	ePn	21 21 27.2	2.5	
			Pg	21 21 33.4	-0.2	
			Sg	21 22 29.4	4.1	
			SMN			ML=3.9 1.0 0.38
			SME			0.8 0.26
GYA	5.0	104	Pn	21 21 45.4	3.6	
			SMN			ML=3.9 1.2 0.16
			SME			1.2 0.15
XAN	9.0	45	eP	21 22 38.7	-1.1	
			SMN			1.2 0.070
			SME			1.2 0.060
<p>1987 1 9</p> <p>O=00 30 26.1 ± 0.18s</p> <p>LAT=25.13 N ± 2.77km</p> <p>LONG=123.85 E ± 2.59km</p> <p>DEPTH= 28 km ± 0.89km</p> <p>STATIONS USED = 27, STAND DEV= 2.79s</p> <p>Ms=4.3/ 4, ML=4.0/ 4,</p>						
SSE	6.4	339	eP	00 31 56.0	-5.0	
			LN			Ms=3.9 10.0 0.88



			LE		10.0	0.71	CN2	28.5	50	cP	01 06 35.8	0.3		
GYA	15.5	279	eP	00 34 09.0	3.7									
			LE	Ms=4.3	12.0	0.80								
BJI	16.2	338	eP	00 34 18.0	4.3									
SNY	16.7	359	eP	00 34 24.7	5.3									
CD2	18.6	293	eP	00 34 45.4	1.2									
CN2	18.7	4	eP	00 34 46.0	1.4									
BTO	19.3	327	eP	00 34 53.0	1.3									
LZH	20.4	307	eP	00 35 03.0	-0.5									
GTA	24.7	311	+P	00 35 45.2	-1.7									
			LE	Ms=4.5	7.0	0.38								
WMQ	34.8	312	P	00 37 15.5	-1.4									
1987 1 9														
O=01 00 40.4 ± 0.12s														
LAT=28.62 N ± 1.62km														
LONG= 95.20 E ± 1.04km														
DEPTH= 33 km ± 0.11km														
STATIONS USED = 61, STAND DEV = 2.23s														
Ms=4.3/ 7, M <sub>L</sub> =4.3/ 4,														
LSA	3.7	288	-iPn	01 01 39.7	3.4									
			Sn	01 02 24.5	4.6									
			SME			3.0	0.92							
KMI	7.6	116	ePn	01 02 31.0	1.8									
CD2	7.8	71	ePn	01 02 35.6	3.8									
			eSn	01 04 04.0	3.3									
			LE	Ms=4.3	9.0	1.75								
GYA	10.4	99	P	01 03 09.0	-1.6									
			S	01 05 03.0	-3.7									
			LE	Ms=4.2	10.0	1.00								
LZH	10.4	42	P	01 03 10.5	-0.6									
			PMZ			1.2	0.090							
			LN	Ms=4.4	8.0	1.02								
			LE			10.0	1.03							
GTA	11.4	18	P	01 03 23.0	-1.6									
XAN	12.9	62	eP	01 03 41.4	-3.1									
			LE	Ms=4.2	10.0	0.64								
WMQ	16.3	340	+P	01 04 33.5	4.6									
QZN	16.4	122	P	01 04 33.6	3.3									
TIY	17.0	53	eP	01 04 34.8	-3.0									
			LN	Ms=4.4	15.0	0.66								
			LE			12.0	0.67							
BTO	17.0	42	eP	01 04 36.0	-2.1									
			eS	01 07 41.0	-4.6									
			LN	Ms=4.6	13.0	0.90								
			LE			13.0	1.20							
TIA	20.0	62	eP	01 05 12.3	-0.7									
BJI	20.7	51	eP	01 05 19.0	-1.3									
NJ2	20.7	75	-iP	01 05 20.2	-0.2									
SNY	26.5	53	eP	01 06 16.4	-0.9									
1987 1 9														
O=02 01 21.2 ± 0.06s														
LAT=34.25 N ± 0.47km														
LONG=103.42 E ± 0.50km														
DEPTH= 6 km ± 0.18km														
STATIONS USED = 5, STAND DEV = 2.77s														
M <sub>L</sub> =2.9/ 5,														
LZH	1.9	11	ePg	02 01 54.0	-0.4									
			eSg	02 02 18.5	-1.2									
			SMN	M <sub>L</sub> =3.1	1.0	0.17								
XAN	4.6	91	ePg	02 02 43.6	1.7									
			Sg	02 03 43.0	-1.2									
			SMN	M <sub>L</sub> =2.9	0.6	0.020								
			SME		0.6	0.020								
1987 1 9														
O=04 22 22.2 ± 0.17s														
LAT=27.80 N ± 1.19km														
LONG= 96.24 E ± 1.12km														
DEPTH= 7 km ± 0.64km														
STATIONS USED = 7, STAND DEV = 4.35s														
M <sub>L</sub> =3.5/ 2,														
LSA	4.9	294	-Pn	04 23 38.9	2.5									
CD2	7.3	63	ePn	04 24 11.4	2.4									
1987 1 9														
O=06 14 43.1 ± 0.09s														
LAT=39.75 N ± 1.69km														
LONG=141.60 E ± 1.53km														
DEPTH= 66 km ± 0.63km														
STATIONS USED = 100, STAND DEV = 1.49s														
Ms=6.2/ 51, m <sub>B</sub> =6.4/ 35														
MDJ	10.1	303	-iP	06 17 11.5	3.0									
			sP	06 17 33.0	5.0									
			SME	m <sub>B</sub> =6.2	6.0	16.8								
			LE	Ms=6.1	19.0	181								
CN2	12.7	294	-iP	06 17 44.0	1.0									
			sP	06 18 06.0	3.0									
			eS	06 20 02.0	-1.6									
			SMN	m <sub>B</sub> =6.4	8.0	24.0								
SNY	13.8	284	-iP	06 17 59.4	2.0									
			PMZ		2.0	4.60								
			pP	06 18 12.0	2.2									
			S	06 20 30.0	0.8									
			LN	Ms=6.1	11.0	23.9								
			LE		18.0	86.5								
DL2	15.5	273	-iP	06 18 21.0	2.1									
			PMZ	m <sub>B</sub> =6.5	8.0	15.5								



			pP	06 18 33.0	0.9					sP	06 20 17.0	-0.1			
			sP	06 18 43.0	3.6					PP	06 20 27.5	-2.7			
			S	06 21 11.0	2.7					S	06 23 58.0	-5.0			
			SMN	$m_B = 6.2$	10.0	11.8				sS	06 24 26.0	-3.8			
			LN	$M_s = 6.0$	12.0	28.6				PcS	06 27 14.0	1.3			
			LE		14.0	26.7				LN	$M_s = 6.7$	15.0	81.9		
SSE	18.7	249	+iP	06 18 58.0	-0.9					LE		18.0	102		
			PMZ		1.0	0.73	QZH	24.3	240	-iP	06 19 56.0	0.2			
			S	06 22 20.0	-1.5					PMZ	$m_B = 6.6$	4.0	10.1		
			SMN	$m_B = 6.1$	12.0	6.74				pP	06 20 12.0	0.9			
			LN	$M_s = 5.8$	10.0	16.4				sP	06 20 23.0	3.7			
BJI	19.5	279	-iP	06 19 05.0	-2.6					S	06 24 05.5	-1.4			
			PMZ	$m_B = 6.5$	4.0	9.99				SMN	$m_B = 6.8$	11.0	19.2		
			eS	06 22 38.0	-1.0					SME		11.0	17.1		
			esS	06 22 58.0	-3.2					sS	06 24 40.0	6.2			
			ScS	06 30 36.0	1.1					LN	$M_s = 6.1$	20.0	37.9		
			LN	$M_s = 6.2$	17.0	68.0	XAN	26.7	268	-P	06 20 16.0	-2.0			
TIA	19.6	267	-iP	06 19 07.4	-1.3					PMZ	$m_B = 6.2$	4.0	2.31		
			PMZ	$m_B = 6.3$	11.0	18.1				pP	06 20 34.0	0.7			
			PP	06 19 27.0	-1.9					sP	06 20 43.5	2.0			
			S	06 22 42.0	1.4					S	06 24 40.0	-5.7			
			SMN	$m_B = 6.3$	8.0	4.92				sS	06 25 12.0	-1.1			
			SME		9.0	7.10				LN	$M_s = 6.2$	12.0	19.4		
			SS	06 23 15.0	4.7					LE		12.0	15.2		
			ScS	06 30 35.2	-0.1				GZH	29.1	244	-iP	06 20 42.0	1.9	
			LN	$M_s = 6.2$	12.0	21.9				pP	06 20 58.0	2.4			
			LE		11.0	34.9				sP	06 21 06.8	2.9			
NJ2	19.9	254	-iP	06 19 11.0	-1.3					S	06 25 25.0	-0.2			
			PP	06 19 32.0	-1.5					SMN	$m_B = 6.5$	12.0	9.99		
			S	06 22 43.0	-4.4					SME		12.0	11.1		
			sS	06 23 06.0	-2.3					sS	06 25 52.0	-1.0			
			LN	$M_s = 6.4$	13.0	64.5				LN	$M_s = 6.1$	15.0	14.5		
TIY	22.8	274	-iP	06 19 39.5	-1.8					LE		11.0	11.9		
			PMZ		19.0	9.93	LZH	29.9	275	-iP	06 20 46.0	-1.0			
			pP	06 19 56.0	-0.2					PMZ	$m_B = 6.4$	10.0	7.15		
			sP	06 20 10.0	5.4					S	06 25 32.0	-5.1			
			LN	$M_s = 6.2$	14.0	23.8				sS	06 26 00.5	-4.5			
			LE		15.0	29.3				LN	$M_s = 6.3$	12.0	20.0		
HHC	22.9	282	-iP	06 19 41.2	-1.0					LE		17.0	31.7		
			PMZ	$m_B = 6.1$	4.0	3.52	CD2	31.9	266	-iP	06 21 03.5	-1.4			
			S	06 23 40.0	-2.2					S	06 26 02.5	-6.9			
			LN	$M_s = 5.6$	10.0	6.44				LN	$M_s = 6.6$	13.0	47.9		
			LE		18.0	6.64				LE		28.0	65.2		
WHN	24.0	256	eP	06 19 51.5	-1.5					GYA	31.9	256	-P	06 21 04.5	-0.5
			PMZ	$m_B = 6.4$	4.0	6.77				PMZ	$m_B = 6.7$	4.0	4.80		
			S	06 23 58.0	-4.0					sP	06 21 31.0	2.2			
			SME	$m_B = 6.4$	12.0	11.3				S	06 26 09.0	-0.4			
BTO	24.1	282	-iP	06 19 51.0	-2.7					PcS	06 27 33.0	-3.8			
			PMZ	$m_B = 6.2$	7.0	7.10				ScS	06 31 27.0	0.2			
			pP	06 20 09.0	0.2					LN	$M_s = 6.3$	13.0	13.6		



			LE		13.0	25.6			SMN	$m_B = 6.5$	12.0	3.39		
GTA	32.0	283	-iP	06 21 05.0	-0.7				SME		12.0	3.55		
			pP	06 21 26.0	4.7				LE	$M_s = 6.4$	19.0	9.87		
			iPP	06 22 14.0	0.9			SSE	78.5	309	eP	08 13 35.0	-0.4	
			iS	06 26 09.0	-2.8						PcP	08 13 41.0	-2.9	
			SME	$m_B = 6.3$	12.0	9.16					S	08 23 32.0	5.3	
			LE	$M_s = 6.6$	18.0	71.2					SME	$m_B = 6.4$	12.0	3.38
QZN	34.3	242	-iP	06 21 27.0	1.9						eScS	08 23 48.0	-1.1	
			pP	06 21 43.0	2.1						LN	$M_s = 6.2$	16.0	4.83
			sP	06 21 54.0	4.9						LE		16.0	4.09
			PP	06 22 47.0	6.0			GZH	80.8	298	eP	08 13 49.5	1.6	
			iS	06 26 50.0	3.4						S	08 23 57.0	6.0	
			SMN	$m_B = 6.4$	12.0	6.70					LN	$M_s = 6.6$	20.0	8.10
			SME		11.0	6.30					LE		20.0	14.6
			ScP	06 27 39.0	1.1			MDJ	80.8	324	eP	08 13 45.5	-2.8	
			LN	$M_s = 6.1$	16.0	15.3		DL2	82.3	316	eP	08 14 00.0	4.1	
			LE		14.0	9.00					eS	08 24 12.0	3.7	
KMI	35.6	258	-iP	06 21 37.0	0.2						LN	$M_s = 6.4$	17.0	8.22
			PMZ	$m_B = 6.7$	4.0	5.00					LE		20.0	6.68
			pP	06 21 55.0	2.4			SNY	82.7	319	-P	08 13 57.0	-0.8	
			sP	06 22 05.0	4.4						iS	08 24 13.0	0.8	
			PP	06 22 57.0	-0.4						LN	$M_s = 6.8$	44.0	51.8
			LN	$M_s = 6.4$	15.0	29.2					LE		40.0	16.8
WMQ	39.8	294	-iP	06 22 13.0	1.2			CN2	82.7	322	+P	08 13 56.0	-1.9	
			PP	06 23 51.0	3.3						PMZ		15.0	2.80
			S	06 28 09.0	-1.3						eS	08 24 10.0	-2.4	
			sS	06 28 42.0	3.1						SME		18.0	8.20
			iScS	06 32 10.0	0.1			WHN	83.3	306	eP	08 14 00.5	-0.5	
			LN	$M_s = 6.3$	36.0	53.4					S	08 24 20.0	3.1	
LSA	42.2	272	P	06 22 32.0	0.2						SME	$m_B = 6.4$	12.0	3.50
			pP	06 22 50.5	3.1						LN	$M_s = 6.4$	20.0	10.5
			sP	06 22 59.0	3.5			TIA	84.0	312	eP	08 14 04.9	0.5	
			S	06 28 47.5	2.0						PMZ	$m_B = 6.3$	7.0	2.32
			LE	$M_s = 6.4$	24.0	35.7					S	08 24 29.0	5.6	
KSH	49.5	292	-iP	06 23 31.0	1.5						SMN	$m_B = 6.5$	12.0	2.33
			pP	06 23 48.0	2.3						SME		12.0	3.47
			PP	06 25 26.0	1.5						LN	$M_s = 6.4$	20.0	5.52
			S	06 30 35.0	5.1						LE		20.0	8.86
			csS	06 31 05.0	5.6			BJI	86.5	315	eP	08 14 15.0	-1.9	
			LN	$M_s = 6.6$	14.0	29.1					PMZ	$m_B = 6.3$	4.0	1.05
											LN	$M_s = 6.1$	16.0	3.46
								GYA	87.7	299	P	08 14 22.0	-0.9	
											S	08 25 06.0	6.5	
											LN	$M_s = 6.4$	18.0	4.60
											LE		18.0	7.50
								TIY	88.0	311	-P	08 14 23.0	-1.2	
											S	08 24 57.5	-4.7	
											SMN		23.0	3.61
											SME		24.0	6.22
											SS	08 30 47.0	-7.0	

1987 1 9

O = 08 01 35.4 ± 0.33s

LAT = 19.73 S ± 6.77km

LONG = 176.26 W ± 4.74km

DEPTH = 34 km ± 0.66km

STATIONS USED = 69, STAND DEV = 2.39s

$M_s = 6.4 / 26,$   $m_B = 6.4 / 16$

QZH 77.4 302 eP 08 13 30.0 0.6

S 08 23 18.0 3.0



			LN	Ms=6.5	22.5	10.9			
			LE		26.0	10.7			
XAN	89.0	307	eP	08 14 27.0	-1.9				
			iS	08 25 17.5	4.3				
			SMN			14.0	3.06		
			SME			12.0	5.82		
			LE	Ms=6.6	23.0	15.2			
HHC	90.0	314	eP	08 14 37.8	4.0				
			LN	Ms=6.4	16.0	2.11			
			LE			19.0	7.64		
KMI	90.5	296	eP	08 14 36.0	-0.1				
			SMN	m <sub>B</sub> =6.1	10.0	2.00			
			LN	Ms=6.6	20.0	14.2			
BTO	90.9	313	P	08 14 40.0	1.8				
			ePP	08 18 17.0	2.2				
			eSKS	08 25 11.0	6.7				
			iS	08 25 34.0	2.8				
			SS	08 31 38.0	1.7				
			LN	Ms=6.2	16.0	2.60			
			LE			16.0	4.20		
GTA	97.8	309	eP	08 15 13.4	4.0				
			PP	08 19 10.0	0.6				
			LN	Ms=6.1	15.0	3.16			
			LE			28.0	1.37		

1987 1 9

O=09 18 33.4 ± 0.11s  
 LAT=20.28 S ± 1.11km  
 LONG=168.87 E ± 1.05km  
 DEPTH= 47 km ± 0.55km

STATIONS USED = 35, STAND DEV = 1.01s

MDJ	73.9	332	eP	09 30 06.7	0.8		
SNY	74.6	327	eP	09 30 09.5	-0.9		
CN2	75.2	329	+P	09 30 12.5	-0.9		
BJI	77.5	321	eP	09 30 25.0	-1.7		
TIY	78.4	318	eP	09 30 32.4	1.0		
XAN	78.6	313	-P	09 30 32.5	0.0		
CD2	80.6	308	P	09 30 44.0	0.5		
HHC	80.8	320	eP	09 30 45.2	0.6		
BTO	81.6	319	eP	09 30 48.0	-0.8		
GTA	87.6	314	P	09 31 19.1	0.3		

1987 1 9

O=09 55 22.1 ± 0.08s  
 LAT=20.39 S ± 1.54km  
 LONG=168.92 E ± 2.25km  
 DEPTH= 33 km ± 0.40km

STATIONS USED = 47, STAND DEV = 1.14s

Ms=5.5/ 1,

MDJ	74.0	332	eP	10 06 57.0	0.2		
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SNY	74.8	327	P	10 07 02.0	0.7		
CN2	75.3	329	eP	10 07 03.0	-1.3		
BJI	77.6	321	eP	10 07 16.0	-1.6		
TIY	78.5	318	eP	10 07 20.0	-2.3		
			LN	Ms=5.5	13.0	0.56	
			LE		17.0	1.07	
XAN	78.7	313	P	10 07 22.5	-0.8		
CD2	80.7	308	eP	10 07 36.0	1.7		
HHC	80.9	320	eP	10 07 35.8	0.4		
BTO	81.7	319	eP	10 07 40.2	0.6		
LZH	83.3	312	eP	10 07 49.5	1.8		
GTA	87.7	314	+P	10 08 09.2	-0.4		
LSA	89.9	302	P	10 08 19.6	-0.7		

1987 1 9

O=11 27 12.5 ± 0.09s  
 LAT=19.81 S ± 1.77km  
 LONG=133.95 E ± 1.58km  
 DEPTH= 5 km

STATIONS USED = 54, STAND DEV = 1.74s

QZN	45.3	327	-P	11 35 33.5	0.2		
GYA	53.1	329	P	11 36 33.4	-0.3		
WHN	53.5	339	-P	11 36 37.5	0.8		
NJ2	53.6	344	eP	11 36 38.0	0.9		
CD2	58.2	329	P	11 37 10.2	-0.3		
TIY	60.7	341	eP	11 37 26.6	-1.3		
BJI	61.8	345	eP	11 37 34.0	-1.4		
LZH	62.5	333	P	11 37 41.0	1.0		
			PMZ			1.0	0.070
CN2	63.8	353	eP	11 37 47.5	-1.0		
LSA	64.2	319	-P	11 37 51.4	-0.4		
GTA	67.0	332	+iP	11 38 09.7	0.3		
WMQ	76.2	327	+iP	11 39 05.0	0.6		
KSH	80.0	318	eP	11 39 27.0	1.4		

1987 1 9

O=14 25 29.1 ± 0.15s  
 LAT=43.09 N ± 1.06km  
 LONG= 81.21 E ± 1.05km  
 DEPTH= 19 km ± 0.86km

STATIONS USED = 10, STAND DEV = 3.31s

M<sub>L</sub>=3.6/ 6,

WMQ	4.8	79	Pn	14 26 44.6	3.8		
			Sn	14 27 33.6	-4.1		
			Sg	14 27 57.4	-1.7		
			SMN	M <sub>L</sub> =3.4	0.8	0.060	
			SME		0.8	0.050	
KSH	5.4	229	ePg	14 27 02.5	-1.4		
			Sg	14 28 19.5	2.5		
GTA	14.5	98	P	14 28 59.4	4.0		



1987 1 9  
 O = 17 16 50.8 ± 0.10s  
 LAT = 39.54 N ± 1.22km  
 LONG = 96.95 E ± 1.12km  
 DEPTH = 12 km ± 0.90km  
 STATIONS USED = 8, STAND DEV = 3.50s  
 M<sub>L</sub> = 3.6 / 3,  
 GTA 2.2 92 -iPn 17 17 24.3 -3.8  
 Pg 17 17 25.5 -4.6  
 Sn 17 17 51.0 -6.1  
 SMN 8.0 0.29

1987 1 9  
 O = 17 40 34.1 ± 0.08s  
 LAT = 39.83 N ± 1.81km  
 LONG = 141.73 E ± 1.48km  
 DEPTH = 88 km ± 0.87km  
 STATIONS USED = 79, STAND DEV = 1.60s  
 MDJ 10.2 302 +iP 17 43 02.2 2.9  
 CN2 12.8 293 eP 17 43 33.0 -0.9  
 SNY 13.9 284 eP 17 43 49.2 0.8  
 DL2 15.6 273 eP 17 44 11.0 1.0  
 SSE 18.8 249 eP 17 44 48.0 -1.7  
 PMZ 1.0 0.060  
 BJI 19.6 279 eP 17 44 54.5 -3.3  
 TIA 19.7 267 eP 17 44 58.0 -1.1  
 NJ2 20.0 254 +P 17 45 01.0 -1.7  
 TIY 22.9 274 eP 17 45 33.2 1.9  
 HHC 23.0 282 -P 17 45 31.6 -0.4  
 WHN 24.1 256 P 17 45 43.0 -0.1  
 BTO 24.2 282 eP 17 45 42.8 -0.7  
 XAN 26.8 268 P 17 46 07.3 -0.6  
 GZH 29.2 244 eP 17 46 32.0 1.9  
 LZH 30.0 275 eP 17 46 37.5 0.8  
 CD2 32.0 266 eP 17 46 53.7 -1.0  
 GYA 32.0 256 P 17 46 54.0 -0.9  
 S 17 52 00.4 1.9  
 GTA 32.1 283 P 17 46 53.8 -1.5  
 WMQ 39.9 294 eP 17 48 02.0 0.9  
 LSA 42.3 272 P 17 48 21.7 0.4  
 KSH 49.6 292 eP 17 49 20.0 1.3  
 pP 17 49 38.0 -1.4  
 cS 17 56 20.0 0.8

1987 1 9  
 O = 19 01 57.3 ± 0.22s  
 LAT = 20.34 S ± 2.22km  
 LONG = 168.84 E ± 1.81km  
 DEPTH = 48 km ± 2.54km

STATIONS USED = 39, STAND DEV = 2.22s  
 MDJ 73.9 332 eP 19 13 27.0 -2.8  
 TIA 74.5 319 eP 19 13 33.3 0.0  
 CN2 75.2 329 eP 19 13 35.0 -2.3  
 BJI 77.6 321 eP 19 13 50.0 -0.6  
 TIY 78.4 318 eP 19 13 55.9 0.6  
 XAN 78.6 313 eP 19 13 55.4 -0.9  
 CD2 80.6 308 eP 19 14 07.6 0.4  
 BTO 81.6 319 eP 19 14 12.8 0.2  
 GTA 87.6 314 P 19 14 41.6 -1.0

1987 1 10  
 O = 00 44 05.7 ± 0.40s  
 LAT = 24.88 N ± 3.61km  
 LONG = 121.53 E ± 3.60km  
 DEPTH = 10 km ± 1.11km  
 STATIONS USED = 18, STAND DEV = 2.73s  
 M<sub>s</sub> = 3.9 / 2, M<sub>L</sub> = 3.8 / 12,  
 QZH 2.7 272 cPn 00 44 47.3 -1.8  
 Sn 00 45 21.5 -2.0  
 SMN M<sub>L</sub> = 3.6 0.5 0.40  
 SME 0.5 0.23  
 SSE 6.2 357 eP 00 45 38.5 -1.2  
 SMN M<sub>L</sub> = 3.9 1.0 0.070  
 SME 1.0 0.090  
 NJ2 7.5 342 eP 00 45 55.0 -3.3  
 S 00 47 25.6 1.3  
 SMN M<sub>L</sub> = 4.6 1.0 0.20  
 GZH 7.7 258 eP 00 46 06.0 5.3  
 LN M<sub>s</sub> = 3.9 10.0 0.83  
 WHN 8.5 313 eP 00 46 12.0 0.0  
 eS 00 47 47.0 -1.9  
 LN M<sub>s</sub> = 3.9 10.0 0.70  
 GYA 13.5 280 eP 00 47 18.0 -2.2

1987 1 10  
 O = 03 55 49.3 ± 0.07s  
 LAT = 5.82 S ± 1.29km  
 LONG = 110.94 E ± 1.60km  
 DEPTH = 557 km ± 0.24km  
 STATIONS USED = 29, STAND DEV = 1.31s  
 GYA 32.4 353 +P 04 01 36.4 1.2  
 CD2 37.2 350 eP 04 02 15.0 0.0  
 SSE 38.0 14 eP 04 02 23.0 1.3  
 NJ2 38.4 11 +P 04 02 26.4 1.3  
 XAN 39.7 357 P 04 02 35.6 0.1  
 TIY 43.3 2 eP 04 03 04.5 0.0  
 BJI 45.9 6 eP 04 03 22.5 -1.7  
 CN2 51.1 13 +P 04 04 01.0 -2.2





**1987 1 10**  
**O = 04 47 06.3** ± 0.14s  
**LAT = 9.25 N** ± 1.66km  
**LONG = 126.57 E** ± 2.30km  
**DEPTH = 61 km** ± 0.71km  
**STATIONS USED = 95, STAND DEV = 1.58s**  
**Ms = 4.9 / 24, m<sub>B</sub> = 5.5 / 5**

QZH	17.4	335	-P	04 51 08.5	2.4		
			PMZ		m <sub>B</sub> = 5.4	6.0	1.27
			S	04 54 21.0	7.0		
			SMN		m <sub>B</sub> = 5.4	7.0	0.98
			LN		Ms = 4.8	16.0	2.71
GZH	18.7	319	eP	04 51 21.5	-0.9		
			eS	04 54 44.0	-0.9		
			LN		Ms = 5.0	16.0	3.03
			LE			17.0	3.24
QZN	18.9	303	eP	04 51 24.6	-0.1		
			sP	04 51 41.0	-2.4		
			eS	04 54 54.5	5.4		
			sS	04 55 10.0	2.5		
			LN		Ms = 4.9	14.0	1.30
			LE			14.0	2.00
SSE	22.3	348	+P	04 52 01.0	0.9		
			PMZ		m <sub>B</sub> = 5.5	4.0	1.06
			epP	04 52 14.0	0.4		
			ePP	04 52 26.0	-1.7		
			eS	04 55 57.0	0.9		
			sS	04 56 16.0	-3.1		
			LN		Ms = 4.6	12.0	0.78
NJ2	23.8	344	+iP	04 52 16.5	2.0		
			LE		Ms = 4.5	11.0	0.60
WHN	24.1	333	eP	04 52 18.0	0.9		
			SME		m <sub>B</sub> = 5.6	9.0	1.41
			LE		Ms = 4.9	16.0	1.90
GYA	25.5	315	eP	04 52 33.6	2.8		
			LN		Ms = 5.0	16.0	1.70
			LE			16.0	1.80
KMI	27.6	308	+P	04 52 51.5	0.7		
			eS	04 57 30.0	3.7		
			LN		Ms = 4.8	16.0	1.20
TIA	28.2	344	-P	04 52 55.4	-0.2		
			LN		Ms = 4.8	11.2	0.80
XAN	29.5	329	P	04 53 06.4	-1.2		
			eS	04 57 55.0	-1.3		
			LN		Ms = 4.9	14.0	1.02
			LE			14.0	0.68
DL2	29.9	352	eP	04 53 11.7	1.2		
CD2	30.3	319	eP	04 53 14.5	0.3		
			S	04 58 09.0	2.0		
			LN		Ms = 5.2	16.0	2.96

TIY	31.1	338	-P	04 53 21.2	-0.2		
			LN		Ms = 5.0	17.5	1.87
BJI	32.0	345	eP	04 53 28.0	-1.6		
			PMZ		m <sub>B</sub> = 5.6	4.0	0.42
			epP	04 53 39.0	-4.7		
			eS	04 58 30.0	-5.6		
SNY	32.6	356	+iP	04 53 35.2	1.0		
			pP	04 53 46.0	-2.3		
			eS	04 58 44.0	0.3		
			LN		Ms = 5.0	16.0	1.18
			LE			16.0	0.81
LZH	33.8	326	eP	04 53 44.5	-0.5		
HHC	34.2	340	+P	04 53 48.5	0.2		
CN2	34.4	359	+P	04 53 50.0	-0.4		
			eS	04 59 18.0	5.1		
BTO	34.5	337	P	04 53 50.5	-0.7		
			eS	04 59 13.0	-1.3		
			LN		Ms = 4.8	14.0	0.40
			LE			14.0	0.60
MDJ	35.3	4	eP	04 54 00.0	1.9		
			pP	04 54 12.0	-0.4		
			sP	04 54 17.0	-1.9		
			eS	04 59 30.0	3.2		
GTA	38.4	326	+P	04 54 23.2	-0.7		
			ePP	04 56 00.0	4.9		
			LE		Ms = 5.0	14.0	1.07
LSA	38.9	307	+P	04 54 27.6	-0.6		
WMQ	48.2	322	+P	04 55 42.5	-0.7		
KSH	54.1	312	eP	04 56 29.0	1.0		
			LE		Ms = 5.5	16.0	2.10

**1987 1 10**  
**O = 13 06 58.2** ± 0.17s  
**LAT = 26.59 N** ± 3.25km  
**LONG = 61.14 E** ± 2.03km  
**DEPTH = 30 km** ± 0.20km  
**STATIONS USED = 28, STAND DEV = 2.35s**  
**Ms = 4.6 / 2,**

KSH	17.8	40	eP	13 11 08.0	1.7		
			LN		Ms = 4.6	9.0	0.90
LSA	26.6	76	P	13 12 37.6	0.9		
WMQ	27.5	44	P	13 12 42.8	-1.8		
GTA	34.6	58	eP	13 13 48.0	0.8		
GYA	40.6	80	P	13 14 37.8	0.6		
XAN	41.6	68	P	13 14 47.2	1.5		
TIY	44.3	62	eP	13 15 08.3	0.3		
			LN		Ms = 4.6	12.0	0.28

**1987 1 10**  
**O = 18 27 27.9** ± 0.37s



LAT = 25.14 N ± 2.50km  
 LONG = 120.71 E ± 2.77km  
 DEPTH = 15 km  
 STATIONS USED = 20, STAND DEV = 2.30s  
 Ms = 3.9 / 5, ML = 3.7 / 10,

QZH	1.9	265	ePn	18 27 55.8	-5.0		
			Sn	18 28 25.5	-1.2		
			SMN	ML = 3.7	0.8	0.76	
			SME		1.0	0.46	
			LN		8.0	1.36	
SSE	5.9	4	eP	18 28 57.5	-0.4		
			LN	Ms = 3.7	7.0	0.42	
			LE		16.0	0.92	
GZH	7.0	255	eP	18 29 12.0	-1.3		
			S	18 30 39.6	6.0		
			SMN	ML = 4.0	0.8	0.090	
			SME		0.7	0.040	
NJ2	7.1	347	+P	18 29 12.4	-1.4		
			LN	Ms = 4.0	12.0	1.50	
WHN	7.8	315	eP	18 29 23.0	-0.8		
			LN	Ms = 3.9	8.0	0.71	
QZN	11.8	241	eP	18 30 21.6	2.9		
GYA	12.7	279	eP	18 30 30.0	-1.7		
GTA	22.6	314	eP	18 32 30.4	0.4		

1987 1 10

O = 18 33 24.1 ± 0.29s  
 LAT = 24.10 N ± 2.07km  
 LONG = 121.76 E ± 2.31km  
 DEPTH = 25 km  
 STATIONS USED = 21, STAND DEV = 2.10s  
 Ms = 3.9 / 3, ML = 4.0 / 9,

QZH	3.0	287	iPn	18 34 10.7	0.0		
SSE	7.0	356	eP	18 35 07.5	-0.1		
			LN	Ms = 3.7	18.0	1.17	
GZH	7.8	264	eP	18 35 15.5	-3.3		
			SMN	ML = 4.4	1.0	0.18	
			SME		1.0	0.080	
NJ2	8.3	343	eP	18 35 25.0	-1.3		
			S	18 36 56.0	-4.3		
			SME	ML = 4.3	1.0	0.080	
WHN	9.2	316	eP	18 35 36.5	-1.9		
			LE	Ms = 3.9	10.0	0.63	
QZN	12.2	248	eP	18 36 19.2	-0.1		
GYA	13.9	283	eP	18 36 47.0	5.3		
GTA	24.0	315	-P	18 38 38.9	0.4		

1987 1 11

O = 06 02 49.4 ± 0.40s  
 LAT = 36.72 N ± 3.85km

LONG = 80.97 E ± 1.43km  
 DEPTH = 15 km  
 STATIONS USED = 10, STAND DEV = 3.13s  
 ML = 4.2 / 7,

KSH	4.8	306	ePg	06 04 15.5	1.2		
			Sg	06 05 20.0	0.4		
			SMN	ML = 4.3	0.5	0.50	
			SME		0.5	0.40	
WMQ	8.8	34	eP	06 05 04.2	5.4		
			SMN	ML = 4.5	1.5	0.090	
GTA	15.1	74	P	06 06 24.2	-0.1		

1987 1 11

O = 07 30 10.6 ± 0.14s  
 LAT = 18.77 S ± 1.76km  
 LONG = 174.35 W ± 2.63km  
 DEPTH = 103 km ± 0.41km  
 STATIONS USED = 41, STAND DEV = 1.42s

SSE	79.3	308	eP	07 42 11.0	4.0		
			S	07 52 01.0	4.6		
			sS	07 52 38.0	-5.0		
MDJ	81.1	323	eP	07 42 17.5	0.5		
CN2	83.1	321	-P	07 42 27.0	0.0		
SNY	83.2	318	+P	07 42 24.8	-2.5		
			S	07 52 41.0	4.8		
TIA	84.7	311	-P	07 42 35.3	0.2		
BJI	87.1	314	eP	07 42 47.5	0.5		
TIY	88.7	311	P	07 42 54.3	-0.4		
XAN	89.9	306	eP	07 43 01.3	1.3		

1987 1 11

O = 11 03 55.2 ± 0.12s  
 LAT = 9.14 N ± 1.14km  
 LONG = 126.72 E ± 1.81km  
 DEPTH = 55 km ± 1.02km  
 STATIONS USED = 50, STAND DEV = 1.55s  
 Ms = 4.4 / 1,

QZN	19.1	303	eP	11 08 16.6	0.6		
SSE	22.4	347	P	11 08 51.0	0.3		
			PMZ		1.0	0.050	
			PP	11 09 18.0	-0.6		
			eSS	11 13 30.0	-1.3		
NJ2	23.9	343	+P	11 09 06.5	1.2		
			PMZ		20.0	0.50	
WHN	24.2	333	P	11 09 12.5	4.4		
XAN	29.7	329	eP	11 09 55.6	-2.9		
TIY	31.2	338	eP	11 10 11.0	-1.1		
BJI	32.2	345	eP	11 10 18.5	-1.8		
SNY	32.7	356	+P	11 10 25.0	0.4		
CN2	34.5	358	eP	11 10 40.6	-0.1		



MDJ	35.4	4	eP	11 10 49.2	0.9		
GTA	38.6	326	eP	11 11 13.2	-1.5		
			LE	Ms=4.4	22.0	0.38	
LSA	39.0	307	-P	11 11 17.9	-1.2		
WMQ	48.4	322	P	11 12 31.5	-2.5		

1987 1 11

O=12 12 27.3 ± 0.11s  
 LAT=23.98 N ± 1.30km  
 LONG=122.28 E ± 1.54km  
 DEPTH= 31 km ± 0.37km  
 STATIONS USED = 29, STAND DEV = 1.95s  
 Ms=3.6/ 3, M<sub>L</sub>=3.9/ 10,

QZH	3.5	287	+iPn	12 13 20.8	0.8		
			Sn	12 14 00.0	-1.9		
			SMN	M <sub>L</sub> =3.8	0.7	0.26	
			SME		0.5	0.28	
			LN	Ms=3.5	4.0	0.56	
SSE	7.2	352	ePn	12 14 10.5	0.3		
			LN	Ms=3.6	18.0	0.88	
GZH	8.2	266	eP	12 14 24.0	-3.8		
			SMN	M <sub>L</sub> =4.2	1.0	0.080	
			SME		1.0	0.040	
NJ2	8.6	340	eP	12 14 30.5	-2.0		
			S	12 16 08.0	-1.2		
			LN	Ms=3.9	12.0	0.90	
GYA	14.3	283	eP	12 15 52.2	1.6		
TIY	16.1	331	eP	12 16 16.4	3.5		
BTO	19.5	331	eP	12 16 55.0	-0.1		
GTA	24.4	314	eP	12 17 41.5	-3.4		

1987 1 11

O=12 31 25.4 ± 0.15s  
 LAT=29.92 N ± 2.91km  
 LONG= 51.80 E ± 1.98km  
 DEPTH= 9 km ± 0.05km  
 STATIONS USED = 35, STAND DEV = 1.80s  
 Ms=4.7/ 2,

KSH	22.0	58	eP	12 36 23.5	1.4		
			LN	Ms=5.0	14.0	2.70	
WMQ	31.6	54	eP	12 37 55.1	3.5		
LSA	34.0	80	+P	12 38 12.5	-0.4		
GTA	40.2	63	+P	12 39 05.5	0.9		
			LN	Ms=4.5	22.0	0.44	
BTO	47.9	61	eP	12 40 08.8	1.8		
XAN	48.1	70	eP	12 40 10.0	1.9		
GYA	48.1	80	P	12 40 07.4	-0.8		
CN2	58.7	54	eP	12 41 25.5	-1.0		

1987 1 11

O=13 43 47.4 ± 0.16s  
 LAT=36.04 N ± 1.66km  
 LONG=100.42 E ± 1.32km  
 DEPTH= 9 km ± 0.68km  
 STATIONS USED = 9, STAND DEV = 4.58s

M<sub>L</sub>=2.9/ 5,

GTA	3.4	352	Pg	13 44 52.2	4.6		
			Sg	13 45 37.0	3.2		
			SMN	M <sub>L</sub> =2.8	0.9	0.030	
			SME		0.7	0.030	
XAN	7.3	104	ePg	13 45 51.0	-4.7		

1987 1 11

O=17 39 48.2 ± 0.12s  
 LAT=34.27 N ± 1.08km  
 LONG=103.39 E ± 1.17km  
 DEPTH= 8 km ± 0.16km  
 STATIONS USED = 15, STAND DEV = 2.93s

M<sub>L</sub>=3.4/ 8,

LZH	1.9	11	ePn	17 40 23.0	2.1		
			Pg	17 40 24.5	3.5		
			Sn	17 40 51.5	5.3		
			SMN	M <sub>L</sub> =3.6	1.0	0.67	
			SME		1.0	0.46	
XAN	4.6	91	+Pn	17 41 01.7	3.3		
			Sn	17 41 56.7	2.7		
			Sg	17 42 16.2	4.1		
			SMN	M <sub>L</sub> =3.5	1.0	0.11	
			SME		0.7	0.050	
GTA	5.9	332	ePn	17 41 17.7	1.5		
			SMN	M <sub>L</sub> =2.9	1.0	0.010	
			SME		1.0	0.010	
WHN	10.0	109	P	17 42 11.5	-3.7		

1987 1 12

O=02 20 33.7 ± 0.05s  
 LAT=41.99 N ± 0.62km  
 LONG= 84.48 E ± 0.50km  
 DEPTH= 9 km ± 0.12km  
 STATIONS USED = 8, STAND DEV = 2.17s

M<sub>L</sub>=3.5/ 7,

1987 1 12

O=04 47 29.5 ± 0.08s  
 LAT=42.07 N ± 0.64km  
 LONG=118.54 E ± 0.83km  
 DEPTH= 19 km ± 0.19km  
 STATIONS USED = 7, STAND DEV = 3.46s

M<sub>L</sub>=2.9/ 7,



1987 1 12  
 O=12 23 13.5 ± 0.08s  
 LAT=51.66 N ± 2.75km  
 LONG=175.81 W ± 1.44km  
 DEPTH= 31 km ± 0.35km  
 STATIONS USED = 49, STAND DEV= 1.29s  
 Ms=4.6/ 1.

CN2	39.3	282	eP	12 30 42.0	0.2
SNY	41.6	281	-iP	12 31 01.8	1.4
BJI	47.1	284	eP	12 31 46.0	0.9
TIA	49.0	279	P	12 32 00.0	0.5
BTO	50.5	288	eP	12 32 11.0	-0.1
NJ2	50.7	274	eP	12 32 13.0	0.6
TIY	50.9	284	P	12 32 15.4	1.3
WHN	54.5	276	-P	12 32 41.2	0.2
XAN	55.4	283	-P	12 32 47.7	-0.2
GTA	57.2	293	eP	12 32 59.0	-1.6
			LN	Ms=4.6	18.0 0.30
WMQ	60.7	304	eP	12 33 23.0	-2.2
GYA	62.1	278	+P	12 33 34.2	-0.5
KMI	65.5	280	+P	12 33 57.0	0.0
LSA	69.1	292	eP	12 34 15.0	-4.6

1987 1 12  
 O=17 04 42.9 ± 0.12s  
 LAT= 1.54 S ± 2.17km  
 LONG=120.34 E ± 2.76km  
 DEPTH= 32 km ± 0.19km  
 STATIONS USED = 43, STAND DEV= 2.00s

QZN	22.9	334	eP	17 09 41.0	-4.2
			eS	17 13 43.0	-5.7
			sS	17 13 58.0	-5.0
GYA	30.8	336	P	17 11 00.8	2.3
WHN	32.4	350	eP	17 11 15.0	2.6
SSE	32.5	1	eP	17 11 16.5	3.6
			pP	17 11 26.5	4.6
NJ2	33.4	358	eP	17 11 24.0	2.7
CD2	35.9	335	eP	17 11 44.6	1.9
XAN	37.0	344	eP	17 11 52.6	1.0
TIY	39.7	350	eP	17 12 15.8	1.2
BJI	41.6	355	eP	17 12 32.0	2.4
LSA	41.7	320	eP	17 12 30.6	-1.0
HHC	42.9	350	eP	17 12 43.2	2.1
BTO	43.0	348	eP	17 12 42.5	1.1
GTA	44.9	337	+P	17 12 56.0	-0.9
MDJ	46.7	9	eP	17 13 11.2	0.2
WMQ	53.8	331	eP	17 14 05.0	-0.1

1987 1 12  
 O=18 54 34.0 ± 0.08s

LAT=31.28 N ± 1.22km  
 LONG=133.67 E ± 1.34km  
 DEPTH= 10 km ± 0.26km  
 STATIONS USED = 61, STAND DEV= 1.37s  
 Ms=4.6/ 7,

SSE	10.7	272	eP	18 57 13.0	2.4
			pP	18 57 18.5	3.0
			eS	18 59 12.0	0.5
			LN	Ms=4.0	12.0 0.83
NJ2	12.7	277	eP	18 57 36.0	-1.1
			PMZ		13.0 1.40
WHN	16.6	272	P	18 58 31.5	2.7
BJI	16.7	306	P	18 58 33.0	3.4
TIY	18.6	296	P	18 58 54.6	0.4
			S	19 02 25.0	6.6
			SS	19 02 46.5	4.0
			PcP	19 03 20.0	-2.8
			LN	Ms=4.3	12.0 0.42
			LE		11.0 0.40
HHC	20.2	304	eP	18 59 11.8	-0.6
XAN	21.0	284	eP	18 59 18.6	-2.0
BTO	21.2	303	P	18 59 22.0	-1.0
			pP	18 59 31.0	3.0
			ePP	18 59 45.0	-0.7
			S	19 03 09.0	-4.5
			sS	19 03 24.0	1.3
			LN	Ms=4.6	13.0 0.60
			LE		13.0 0.70
GYA	24.1	265	P	18 59 51.0	-0.3
LZH	25.2	289	eP	19 00 02.0	-0.2
			PMZ		1.5 0.050
CD2	25.6	277	eP	19 00 04.6	-0.8
			S	19 04 25.0	-5.1
GTA	28.7	296	+P	19 00 32.1	-1.5
			LN	Ms=4.6	18.0 0.60
			LE		9.5 0.31
LSA	36.5	279	-P	19 01 42.2	-0.3
WMQ	38.1	302	eP	19 01 55.2	0.0

1987 1 12  
 O=19 04 29.5 ± 0.07s  
 LAT=51.42 N ± 2.93km  
 LONG=175.45 W ± 1.31km  
 DEPTH= 32 km ± 0.33km  
 STATIONS USED = 17, STAND DEV= 1.26s

BJI	47.4	284	eP	19 13 03.0	-0.2
TIY	51.1	284	-iP	19 13 32.8	0.7
XAN	55.7	283	-P	19 14 05.1	-0.7

1987 1 12



O=23 16 28.2 ± 0.17s  
 LAT=31.42 N ± 2.58km  
 LONG=132.00 E ± 2.43km  
 DEPTH= 29 km ± 0.95km  
 STATIONS USED = 30, STAND DEV= 2.15s

NJ2	11.2	277	eP	23 19 10.0	0.1
SNY	12.4	329	eP	23 19 26.0	0.3
BJI	15.4	308	P	23 20 10.0	4.0
TIY	17.3	297	eP	23 20 32.4	3.0
XAN	19.6	284	eP	23 20 55.9	-1.2
GYA	22.7	264	P	23 21 29.8	0.7
LZH	23.8	289	eP	23 21 39.0	-1.2
CD2	24.2	276	P	23 21 43.1	-0.1
GTA	27.3	296	P	23 22 11.5	-1.5

1987 1 12  
 O=23 52 55.3 ± 0.08s  
 LAT=36.40 N ± 0.68km  
 LONG=114.25 E ± 0.61km  
 DEPTH= 21 km ± 0.12km  
 STATIONS USED = 10, STAND DEV= 1.88s  
 M<sub>L</sub>=3.1/ 7,

TIY	2.0	313	ePg	23 53 29.8	-0.4
			Sg	23 53 57.6	0.7
			SMN	M <sub>L</sub> =2.9	0.6 0.070
			SME		0.5 0.13
TIA	2.3	94	ePg	23 53 36.7	0.0
			Sg	23 54 06.1	-2.4
			SMN	M <sub>L</sub> =3.0	0.5 0.090
			SME		0.5 0.10
XAN	5.0	243	ePg	23 54 20.3	-2.7
			Sg	23 55 28.7	-1.9

1987 1 13  
 O=06 22 19.5 ± 0.21s  
 LAT=59.63 S ± 5.11km  
 LONG= 25.90 W ± 4.26km  
 DEPTH= 34 km ± 0.89km  
 STATIONS USED = 37, STAND DEV= 2.86s

LSA	128.7	97	-iPKP	06 41 24.8	-0.3
GYA	133.6	114	PKP	06 41 35.0	0.9
WMQ	137.9	81	PKP	06 41 41.8	-0.1
GTA	140.7	96	ePKP	06 41 41.7	-5.5
XAN	141.0	111	ePKP	06 41 43.4	-4.1
NJ2	143.8	124	+PKP	06 41 52.0	-0.2
TIY	145.7	111	PKP	06 41 55.0	-0.6
TIA	146.6	118	ePKP	06 41 59.6	2.5
BTO	146.7	105	-iPKP	06 42 02.0	4.5
HHC	147.7	106	ePKP	06 42 02.6	3.6
BJI	149.3	113	ePKP	06 42 01.0	-0.4

1987 1 13  
 O=08 03 00.0 ± 0.14s  
 LAT=13.46 S ± 1.48km  
 LONG=166.58 E ± 3.20km  
 DEPTH= 53 km ± 0.50km  
 STATIONS USED = 79, STAND DEV= 1.17s

SSE	62.1	316	+P	08 13 18.2	-0.4
			PMZ		1.2 0.080
			pP	08 13 28.0	-4.2
NJ2	64.3	316	-P	08 13 33.0	0.1
WHN	66.6	312	eP	08 13 47.5	-0.1
MDJ	66.8	332	eP	08 13 48.0	-1.2
DL2	66.9	323	P	08 13 49.5	0.1
SNY	67.8	327	+P	08 13 53.8	-1.2
TIA	67.9	318	eP	08 13 55.4	-0.7
CN2	68.2	329	+iP	08 13 57.5	-0.3
GYA	70.4	305	+P	08 14 12.0	0.4
BJI	70.9	321	eP	08 14 14.0	0.0
TIY	71.9	317	+iP	08 14 20.5	0.4
			PMZ		1.3 0.35
			pP	08 14 29.0	-4.7
XAN	72.3	313	+P	08 14 23.4	0.5
KMI	73.1	302	+P	08 14 28.5	1.1
			pP	08 14 38.5	-2.3
			eS	08 23 56.0	6.3
HHC	74.2	320	+P	08 14 34.0	0.2
CD2	74.7	308	P	08 14 37.4	0.7
			PMZ		1.4 0.13
BTO	75.0	319	+iP	08 14 39.4	0.7
LZH	77.0	312	+P	08 14 51.0	1.2
			PMZ		1.5 0.30
GTA	81.3	314	+iP	08 15 14.0	0.7
LSA	84.3	302	+P	08 15 29.2	0.2
WMQ	91.4	315	+iP	08 16 02.0	-0.4
KSH	98.9	308	eP	08 16 33.5	-3.2

1987 1 13  
 O=10 55 14.3 ± 0.23s  
 LAT=29.49 S ± 1.51km  
 LONG=177.27 W ± 3.08km  
 DEPTH= 44 km ± 1.01km  
 STATIONS USED = 44, STAND DEV= 1.37s  
 m<sub>B</sub>=5.6/ 1

GZH	84.7	300	eP	11 07 46.5	0.6
QZN	85.2	295	P	11 07 48.9	0.8
			eS	11 18 15.5	2.0
NJ2	86.1	310	-P	11 07 53.2	0.4
MDJ	88.2	325	eP	11 08 03.0	0.0
WHN	88.3	307	eP	11 08 03.5	0.2



DL2	88.7	317	eP	11 08 05.8	0.5
SNY	89.5	320	+P	11 08 08.6	-0.4
CN2	89.8	322	+iP	11 08 09.6	-0.8
			eS	11 18 55.0	-2.2
TIA	89.8	313	eP	11 08 11.3	0.8
GYA	91.6	299	P	11 08 19.4	0.2
BJI	92.7	315	eP	11 08 23.5	-0.5
		SMN	$m_B = 5.6$	6.0	0.30
TIY	93.7	312	P	11 08 29.0	0.3
XAN	94.1	307	eP	11 08 29.9	-0.2
CD2	96.1	302	P	11 08 40.4	0.8
GTA	103.1	308	eP	11 09 10.8	-0.2

1987 1 13

O=11 47 33.1 ± 0.15s  
 LAT=36.09 N ± 0.18km  
 LONG= 81.07 E ± 0.82km  
 DEPTH= 22 km ± 1.41km  
 STATIONS USED = 8, STAND DEV = 2.06s

$M_L = 4.2 / 5,$

KSH	5.3	311	ePn	11 48 53.0	2.1
			Sn	11 49 56.0	3.4
			SMN	$M_L = 4.6$	0.7 0.60
			SME		0.7 0.60

1987 1 13

O=13 24 00.2 ± 0.19s  
 LAT= 6.08 N ± 4.68km  
 LONG= 78.92 W ± 3.94km  
 DEPTH= 6 km ± 1.27km  
 STATIONS USED = 47, STAND DEV = 2.86s

$M_s = 5.9 / 3,$

CN2	125.7	338	ePKP	13 43 03.0	-1.0
WMQ	128.9	12	PKP	13 43 12.7	2.4
			SS	14 02 41.0	4.7
			LE	$M_s = 5.9$	20.0 1.61
BJI	132.1	344	PKP	13 43 16.5	0.3
GTA	134.7	1	ePKP	13 43 22.7	1.3
			LN	$M_s = 6.2$	25.0 1.16
			LE		26.0 3.51
TIY	135.2	347	ePKP	13 43 26.0	3.8
XAN	139.4	350	ePKP	13 43 27.5	-2.4
WHN	141.4	341	ePKP	13 43 32.5	-0.9
			LE	$M_s = 5.8$	36.0 2.30
CD2	143.1	356	ePKP	13 43 37.8	1.4
LSA	143.2	15	ePKP	13 43 31.0	-5.9
GYA	147.2	351	PKP	13 43 45.0	1.5
KMI	148.9	357	ePKP	13 43 48.5	2.1

1987 1 13

O=16 35 36.0 ± 0.06s  
 LAT=37.92 N ± 0.48km  
 LONG= 78.10 E ± 0.46km  
 DEPTH= 19 km ± 0.01km  
 STATIONS USED = 5, STAND DEV = 3.66s

$M_L = 3.6 / 3,$

KSH	2.3	313	Pn	16 36 13.0	-0.1
			Sn	16 36 45.0	3.0
			SMN	$M_L = 3.7$	0.2 0.60
			SME		0.2 0.40

1987 1 13

O=20 22 08.8 ± 0.08s  
 LAT=15.36 S ± 1.29km  
 LONG=174.84 W ± 1.66km  
 DEPTH=288 km ± 0.25km  
 STATIONS USED = 40, STAND DEV = 0.87s

NJ2	79.0	308	+P	20 33 44.0	0.7
CN2	80.2	321	eP	20 33 49.0	-0.3
BJI	84.4	314	eP	20 34 11.5	0.3
TIY	86.2	311	-P	20 34 20.5	0.7
GYA	86.8	298	-P	20 34 24.0	1.1
XAN	87.5	306	-P	20 34 26.6	0.6
GTA	96.1	309	P	20 35 06.0	0.2

1987 1 13

O=22 49 02.0 ± 0.26s  
 LAT=53.43 N ± 8.09km  
 LONG=167.26 W ± 3.96km  
 DEPTH= 31 km ± 0.77km  
 STATIONS USED = 22, STAND DEV = 2.93s

XAN	60.0	288	-P	22 59 08.2	-0.6
GTA	61.1	298	P	22 59 15.2	-1.3
CD2	65.3	289	P	22 59 43.6	-0.1
GYA	66.9	284	P	22 59 57.6	3.1
LSA	73.1	297	-P	23 00 32.4	-0.2

1987 1 13

O=23 04 42.7 ± 0.10s  
 LAT=54.88 N ± 2.95km  
 LONG=162.05 E ± 1.69km  
 DEPTH= 33 km ± 0.10km  
 STATIONS USED = 42, STAND DEV = 1.57s

$M_s = 5.0 / 5,$

MDJ	23.2	257	eP	23 09 48.2	0.7
			pP	23 09 56.8	0.6
			eS	23 13 52.0	-1.0
CN2	26.0	260	eP	23 10 14.0	-0.8
SNY	28.3	259	eP	23 10 36.1	0.2
			eS	23 15 20.0	1.1



		LN	Ms=5.0	16.0	2.00
BJI	33.7	263	eP	23 11 25.0	1.5
BTO	36.9	269	eP	23 11 50.0	-0.7
NJ2	37.9	251	eP	23 12 00.0	0.7
WHN	41.6	254	P	23 12 32.0	2.6
LZH	43.5	269	eP	23 12 43.5	-2.1
GTA	43.6	276	P	23 12 45.0	-1.0
		PcP		23 14 33.0	0.0
		LE	Ms=4.8	22.0	0.91
WMQ	47.5	289	P	23 13 17.5	0.5
		pP		23 13 23.5	-2.7
		PcS		23 18 42.5	1.9
		S		23 20 10.5	2.8
KSH	56.8	293	eP	23 14 23.5	-3.6

**1987 1 14**

**O=05 39 07.8** ± 0.09s  
**LAT=34.10 N** ± 0.75km  
**LONG=103.54 E** ± 0.80km  
**DEPTH= 6 km** ± 0.07km  
**STATIONS USED = 8, STAND DEV= 1.88s**

$M_L=3.1 / 4,$

LZH	2.0	7	Pg	05 39 42.0	-1.4
			Sg	05 40 05.0	-5.6
			SMN	$M_L=3.1$	1.0 0.17
			SME		1.0 0.14
XAN	4.5	89	ePn	05 40 16.5	0.1
			Pg	05 40 32.9	6.2
			Sn	05 41 11.2	0.4
			Sg	05 41 31.9	4.1
			SMN	$M_L=3.3$	0.6 0.030
			SME		0.7 0.060

**1987 1 14**

**O=09 38 56.1** ± 0.33s  
**LAT=49.78 S** ± 12.96km  
**LONG=114.37 W** ± 7.10km  
**DEPTH= 15 km** ± 1.33km  
**STATIONS USED = 32, STAND DEV= 3.39s**

CN2	139.6	285	ePKP	09 58 29.0	4.6
GYA	140.9	249	PKP	09 58 21.0	-5.9
KMI	142.2	243	ePKP	09 58 27.0	-2.3
BJI	143.5	274	PKP	09 58 37.0	5.8
TIY	144.7	268	ePKP	09 58 30.2	-3.2
XAN	144.7	260	ePKP	09 58 30.8	-2.6
CD2	145.8	251	ePKP	09 58 37.0	1.6
BTO	147.8	271	ePKP	09 58 41.9	3.2
LZH	149.2	258	ePKP	09 58 42.5	1.5
LSA	152.2	233	ePKP	09 58 46.2	0.4

**1987 1 14**

**O=11 03 47.6** ± 0.07s  
**LAT=42.55 N** ± 1.60km  
**LONG=142.91 E** ± 1.27km  
**DEPTH=104 km** ± 0.56km  
**STATIONS USED =111, STAND DEV= 1.29s**

$m_B=6.9 / 52$

MDJ	9.9	287	+iP	11 06 09.7	1.4
			PMZ	$m_B=6.7$	4.0 6.15
			PP	11 06 21.0	1.8
			iS	11 08 02.0	4.0
			SME	$m_B=6.8$	6.0 55.9
			LE		10.0 64.5
CN2	12.8	282	+iP	11 06 47.0	-0.2
			PMZ	$m_B=7.1$	6.0 20.0
			sP	11 07 12.0	-4.0
			S	11 09 06.0	-1.4
			SME	$m_B=6.7$	10.0 47.0
			LN		18.0 476
SNY	14.4	274	+iP	11 07 08.0	0.9
			PMZ		16.0 10.1
			iS	11 09 44.0	-0.1
			SMN		13.0 49.9
			SME		7.0 10.4
			ScS	11 19 18.9	2.6
			LN		9.5 49.9
			LE		10.5 51.3
DL2	16.5	264	-P	11 07 34.0	-0.6
			PMZ	$m_B=6.5$	4.0 8.15
			pP	11 07 49.0	0.7
			sP	11 08 01.0	-3.9
			S	11 10 36.5	2.9
			SMN	$m_B=7.0$	12.0 59.9
			SME		7.0 21.8
			LN		12.0 43.6
			LE		10.0 20.1
BJI	20.2	272	eP	11 08 14.0	-2.7
			SMN	$m_B=7.2$	5.0 26.4
			SME		6.0 16.4
			ScS	11 19 36.0	2.5
			LN		10.0 32.0
			LE		10.0 27.7
SSE	20.7	244	+P	11 08 20.5	-1.6
			PMZ		1.0 0.21
			pP	11 08 42.0	-0.7
			PP	11 08 48.0	-0.9
			sP	11 08 56.0	-0.1
			S	11 12 00.0	-2.3
			sS	11 12 30.0	-4.8
			LN		13.0 19.2



			LE		12.0	35.4				iS	11 13 44.5	0.2		
TIA	20.9	261	-P	11 08 21.5	-1.8					SMN			16.0	67.4
			PMZ	$m_B=6.2$		4.0	5.27			SME			16.0	83.4
			PP	11 08 46.2	-4.3					LN			16.0	24.4
			S	11 12 04.0	-0.5					LE			16.0	48.8
			SMN	$m_B=7.5$		9.0	78.2	XAN	27.8	264	-P	11 09 29.2	-0.6	
			SME			9.0	62.9				pP	11 09 51.8	-0.4	
			SS	11 12 41.0	-2.9						sP	11 09 59.8	-5.1	
			ScS	11 19 38.9	3.1						PP	11 10 25.8	2.9	
			LN			11.0	51.0				S	11 14 00.8	-2.5	
			LE			11.0	25.9				LN			13.0 18.6
NJ2	21.7	249	-iP	11 08 30.1	-1.9						LE			12.0 32.9
			pP	11 08 49.5	-3.8			LZH	30.7	271	-iP	11 09 56.0	0.7	
			iS	11 12 18.0	-3.3						PMZ			1.5 2.91
			LN			19.0	377				pP	11 10 22.0	4.0	
			LE			19.0	342				S	11 14 49.0	0.6	
HHC	23.4	276	-P	11 08 49.5	1.2						SME	$m_B=7.1$		8.0 45.7
			pP	11 09 10.0	-0.1						LN			10.0 16.6
			S	11 12 51.0	1.4						LE			10.0 26.2
			LN			11.0	14.2	GZH	31.3	241	-iP	11 10 01.6	1.3	
			LE			9.0	35.7				PMZ	$m_B=6.9$		5.0 11.1
TIY	23.7	269	P	11 08 51.3	0.0						pP	11 10 28.0	4.8	
			PMZ			1.0	0.19				PP	11 11 08.0	1.4	
			pP	11 09 13.0	-0.2						iS	11 15 01.6	3.2	
			iS	11 12 59.0	2.9						SMN	$m_B=6.9$		12.0 18.0
			SMN			14.0	48.8				SME			12.0 40.3
			SME			12.0	71.4				LN			18.0 119
			sS	11 13 33.0	-0.9						LE			18.0 115
			LN			18.0	77.7	GTA	32.4	279	+iP	11 10 10.9	0.5	
			LE			22.0	53.3				ipP	11 10 37.0	3.8	
BTO	24.6	277	iP	11 09 02.0	2.2						PP	11 11 21.0	-0.1	
			pP	11 09 24.0	2.3						iPcP	11 12 59.7	4.9	
			PP	11 09 43.0	2.7						S	11 15 13.0	-2.5	
			iS	11 13 13.0	2.0						SMN	$m_B=6.7$		11.0 20.0
			SMN	$m_B=6.7$		6.0	10.2				SME			12.0 19.3
			SME			6.0	5.90				sS	11 15 55.6	-1.0	
			sS	11 13 49.0	-0.4						iScP	11 16 33.2	5.6	
			LN			10.0	27.0				iScS	11 20 26.7	1.0	
			LE			10.0	32.6				LN			22.0 62.8
WHN	25.8	252	-P	11 09 09.0	-1.6						LE			10.0 32.0
			PMZ			1.0	1.51	CD2	33.2	263	-iP	11 10 16.8	0.0	
			pP	11 09 30.0	-2.8						PP	11 11 27.0	-3.6	
			PcP	11 12 36.0	-2.0						iS	11 15 26.0	-2.1	
			S	11 13 28.0	-1.2						SMN	$m_B=7.3$		10.0 64.1
			SME	$m_B=6.9$		9.0	38.0				SME			8.0 48.2
			SKKS	11 42 04.0							LN			10.0 15.2
			LN			9.0	29.6	GYA	33.6	253	-P	11 10 20.0	-0.6	
QZH	26.6	236	-iP	11 09 19.5	0.8						PMZ	$m_B=6.2$		5.0 2.10
			PMZ	$m_B=7.2$		5.0	28.3				pP	11 10 42.0	-1.5	
			sP	11 09 51.0	-2.9						PcP	11 13 03.0	5.0	



			S	11 15 35.0	1.3				1987 1 14				
			SMN	$m_B=7.0$	9.0	27.1			O=12 44 50.4	$\pm 0.23s$			
			SME		9.0	24.7			LAT=32.54 S	$\pm 2.86km$			
			ScS	11 20 36.0	4.2				LONG=67.26 W	$\pm 1.89km$			
			LN		14.0	91.7			DEPTH=153 km	$\pm 1.84km$			
			LE		18.0	12.7			STATIONS USED = 48, STAND DEV = 1.91s				
QZN	36.5	240	+P	11 10 47.3	2.6			WMQ	157.4	53	PKP	13 04 29.0	0.0
			PMZ	$m_B=6.6$	9.0	9.20		LSA	161.3	93	+PKP	13 04 34.0	0.2
			sP	11 11 22.0	1.3			MDJ	162.2	317	ePKP	13 04 33.0	-1.2
			PP	11 12 13.5	3.8			CN2	165.0	322	+PKP	13 04 37.8	0.8
			iS	11 16 21.0	2.4			GTA	167.5	53	+iPKP	13 04 39.1	0.1
			SMN			13.0	21.0				pPKP	13 05 20.8	2.2
			SME			12.0	28.1				PKP <sub>2</sub>	13 05 46.2	
			SS	11 18 53.0	3.6			BTO	171.7	14	ePKP	13 04 41.0	-0.5
			ScS	11 20 51.0	3.8			LZH	171.8	62	ePKP	13 04 40.5	-1.1
			LN			18.0	59.9	GYA	171.9	137	PKP	13 04 42.0	0.4
			LE			17.0	72.5	BJI	172.0	341	PKP	13 04 40.5	-1.0
KMI	37.2	255	-iP	11 10 52.0	0.8			SSE	172.7	261	ePKP	13 04 42.5	0.6
			PMZ	$m_B=6.8$	5.0	8.80					pPKP	13 05 24.5	2.8
			pP	11 11 17.0	2.5			TIY	174.8	3	PKP	13 04 43.1	0.4
			sP	11 11 27.0	0.0			TIA	174.9	316	PKP	13 04 43.1	0.5
			PP	11 12 16.0	-3.3			XAN	176.5	64	+PKP	13 04 43.6	0.5
			sS	11 17 08.0	-2.9			WHN	177.6	215	-PKP	13 04 44.0	0.8
			SS	11 19 04.0	-1.6								
			LN			18.0	63.9		1987 1 14				
WMQ	39.6	291	+iP	11 11 11.9	0.7				O=17 37 11.4	$\pm 0.11s$			
			PMZ	$m_B=6.6$	12.0	13.0			LAT=34.18 N	$\pm 0.90km$			
			PP	11 12 47.0	-0.2				LONG=103.22 E	$\pm 1.06km$			
			PcP	11 13 12.0	-4.2				DEPTH=5 km				
			iS	11 17 06.0	-0.8				STATIONS USED = 5, STAND DEV = 4.40s				
			SMN	$m_B=7.2$	9.0	45.6					$M_L=2.8/3,$		
			sS	11 17 50.0	2.3			LZH	2.0	15	ePg	17 37 45.0	-1.4
			ScS	11 21 08.0	2.7						Sg	17 38 10.0	-3.1
			LN			20.0	119				SMN	$M_L=2.8$	1.0 0.090
LSA	43.1	270	-iP	11 11 40.2	0.1			XAN	4.7	90	ePg	17 38 37.8	2.8
			PP	11 13 20.5	-2.2						Sn	17 39 14.3	-6.8
			S	11 17 54.0	-2.8						Sg	17 39 35.8	-3.7
			SME	$m_B=6.9$	11.0	24.2							
			SS	11 21 11.0	3.9				1987 1 15				
			LN			20.0	43.9		O=01 56 49.2	$\pm 0.12s$			
			LE			20.0	17.7		LAT=35.41 N	$\pm 1.18km$			
KSH	49.4	290	+iP	11 12 31.0	1.5				LONG=105.21 E	$\pm 1.25km$			
			pP	11 12 53.0	-0.5				DEPTH=14 km	$\pm 0.07km$			
			PP	11 14 26.0	0.9				STATIONS USED = 19, STAND DEV = 2.69s				
			iS	11 19 27.0	-0.7						$M_L=3.5/16,$		
			sS	11 20 06.0	-3.8			LZH	1.3	302	+Pg	01 57 10.5	-1.9
			ScS	11 22 13.0	6.2						Sg	01 57 28.2	-1.8
			SS	11 22 52.0	-3.5						SMN	$M_L=3.9$	1.0 2.31
			LE			9.0	36.9				SME		1.0 1.35
								XAN	3.4	113	Pn	01 57 40.3	-1.3



	iPg	01 57 48.6	0.3			
	Sg	01 58 30.9	-3.3			
	SMN	$M_L=3.4$	0.7	0.15		
	SME		0.4	0.11		
CD2	4.7	196	Pg	01 58 17.5	6.1	
			Sg	01 59 13.4	-1.5	
			SMN	$M_L=3.5$	1.2	0.11
			SME		1.0	0.040
GTA	5.9	315	Pn	01 58 15.2	-1.0	
			Pg	01 58 35.1	2.5	
			Sn	01 59 21.5	-3.7	
			Sg	01 59 47.4	-5.4	
			SMN	$M_L=3.3$	0.8	0.030
			SME		0.8	0.020
TIY	6.3	66	cPg	01 58 40.9	1.2	
			SMN	$M_L=3.7$	0.8	0.040
			SME		0.8	0.050
BTO	6.4	35	cPg	01 58 44.2	1.5	
			Sg	02 00 08.0	-2.3	
			SMN	$M_L=3.5$	0.4	0.030
			SME		0.4	0.030

1987 1 15

O=06 46 08.4 ± 0.46s  
 LAT=36.86 N ± 4.09km  
 LONG= 81.16 E ± 0.84km  
 DEPTH= 10 km  
 STATIONS USED = 6, STAND DEV= 4.65s  
 $M_L=3.9/4,$

KSH	4.8	304	cPn	06 47 24.0	2.1
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1987 1 15

O=08 10 17.1 ± 0.05s  
 LAT=44.01 N ± 0.45km  
 LONG= 82.82 E ± 0.48km  
 DEPTH= 16 km ± 0.17km  
 STATIONS USED = 7, STAND DEV= 1.94s  
 $M_L=3.4/6,$

WMQ	3.5	91	cPn	08 11 13.8	1.8	
			Sn	08 11 56.7	1.4	
			Sg	08 12 07.0	-0.9	
			SMN	$M_L=3.4$	0.4	0.11

1987 1 15

O=08 13 54.9 ± 0.12s  
 LAT=38.23 N ± 1.14km  
 LONG=121.88 E ± 1.44km  
 DEPTH= 21 km ± 1.36km  
 STATIONS USED = 19, STAND DEV= 3.03s  
 $M_s=3.6/1, M_L=3.7/15,$

DL2	0.7	344	+iPg	08 14 09.0	1.3	
			Sg	08 14 17.8	0.2	
			SMN	$M_L=3.8$	0.3	2.40
			SME		0.3	4.16
SNY	3.8	19	cPn	08 14 56.1	3.1	
			iPg	08 15 06.8	4.4	
			Sn	08 15 41.6	2.4	
			iSg	08 15 58.6	4.0	
			SMN	$M_L=4.0$	0.9	0.33
			SME		0.9	0.32
TIA	4.3	243	cPn	08 14 57.1	-2.6	
			Pg	08 15 11.9	1.0	
			SMN	$M_L=3.4$	0.4	0.080
			SME		0.4	0.050
SSE	7.1	185	cPn	08 15 43.0	4.3	

1987 1 15

O=09 21 39.4 ± 0.08s  
 LAT= 2.47 S ± 1.04km  
 LONG=139.55 E ± 1.12km  
 DEPTH= 31 km ± 0.20km  
 STATIONS USED = 44, STAND DEV= 1.09s  
 $M_s=4.6/1,$

SSE	37.7	334	cP	09 28 53.5	-0.7	
			cS	09 34 44.0	1.9	
			sS	09 34 57.0	0.2	
			LN	$M_s=4.6$	20.0	0.60
GYA	42.9	314	P	09 29 38.4	1.3	
TIA	43.8	334	P	09 29 44.5	-0.2	
XAN	46.4	324	cP	09 30 04.8	-0.4	
BJI	47.4	336	cP	09 30 13.0	-0.4	
CD2	47.6	317	cP	09 30 15.5	0.8	
MDJ	47.7	350	cP	09 30 15.0	-0.8	
CN2	47.8	346	cP	09 30 15.0	-1.2	
			cS	09 37 08.0	-2.1	
BTO	50.6	331	cP	09 30 38.2	-0.2	
GTA	55.4	323	+iP	09 31 14.0	0.3	
WMQ	65.3	321	P	09 32 21.4	-0.2	
KSH	71.5	313	cP	09 32 58.5	-1.5	

1987 1 15

O=11 19 06.4 ± 0.13s  
 LAT= 7.87 S ± 1.85km  
 LONG=129.94 E ± 2.52km  
 DEPTH= 37 km ± 0.39km  
 STATIONS USED = 68, STAND DEV= 1.72s  
 $M_s=4.9/8,$

QZN	33.3	324	cP	11 25 42.8	-0.1	
			cS	11 31 00.0	0.2	
			LE	$M_s=4.9$	15.0	1.00



QZH	34.4	342	eP	11 25 51.0	-1.9		
			eS	11 31 16.5	-1.3		
SSE	39.6	348	eP	11 26 36.0	-0.7		
			sP	11 26 48.0	-3.0		
			S	11 32 32.0	-4.5		
			eScS	11 36 39.0	0.3		
			LN	Ms=5.1	20.0	1.20	
			LE		20.0	1.15	
GYA	40.9	327	P	11 26 49.6	2.0		
WHN	41.0	339	P	11 26 49.0	0.8		
NJ2	41.1	346	eP	11 26 48.4	-0.3		
KMI	42.2	322	-P	11 26 59.0	1.2		
TIA	45.5	345	eP	11 27 23.8	-0.5		
			LN	Ms=4.5	37.0	0.73	
CD2	46.0	328	eP	11 27 27.0	-1.6		
			eS	11 34 04.0	-6.7		
XAN	46.2	336	eP	11 27 28.6	-1.6		
TIY	48.2	341	eP	11 27 45.4	-0.5		
			eS	11 34 45.0	3.0		
			LN	Ms=4.8	12.0	0.42	
BJI	49.3	346	eP	11 27 54.0	-0.6		
SNY	49.8	354	eP	11 27 54.8	-3.3		
			S	11 35 02.0	-0.9		
			LN	Ms=5.3	21.0	1.85	
			LE		20.0	0.96	
LZH	50.1	332	eP	11 28 00.5	-0.4		
HHC	51.3	342	eP	11 28 10.0	0.0		
CN2	51.6	356	+P	11 28 10.0	-1.7		
			eS	11 35 26.0	-2.8		
BTO	51.6	341	eP	11 28 11.3	-0.7		
MDJ	52.2	360	eP	11 28 17.2	0.6		
			eS	11 35 35.0	-2.8		
GTA	54.7	332	+P	11 28 33.7	-1.3		
WMQ	64.1	327	P	11 29 42.1	2.4		
KSH	68.6	318	eP	11 30 08.0	-0.4		
			eS	11 39 05.0	-2.3		

1987 1 15

O=12 24 44.2 ± 0.05s  
 LAT=25.95 N ± 1.45km  
 LONG=125.07 E ± 1.42km  
 DEPTH=179 km ± 0.93km  
 STATIONS USED = 17, STAND DEV = 1.35s

SSE	6.2	327	P	12 26 13.0	-1.2		
TIY	15.9	321	+P	12 28 22.9	3.3		
BJI	15.9	334	P	12 28 20.5	0.8		
CD2	19.4	290	eP	12 28 59.5	0.9		
GTA	25.0	309	eP	12 29 54.0	0.1		

1987 1 15

O=12 36 50.3 ± 0.04s  
 LAT=45.11 N ± 0.33km  
 LONG=82.54 E ± 0.26km  
 DEPTH=17 km ± 0.11km  
 STATIONS USED = 6, STAND DEV = 1.16s  
 M<sub>L</sub>=3.2/6,  
 WMQ 3.9 108 Pn 12 37 51.1 0.8  
 Sn 12 38 37.2 -0.6  
 SME M<sub>L</sub>=3.2 0.4 0.050

1987 1 15

O=19 41 41.6 ± 0.12s  
 LAT=22.96 N ± 1.39km  
 LONG=120.22 E ± 1.65km  
 DEPTH=16 km ± 0.21km  
 STATIONS USED = 91, STAND DEV = 1.79s  
 Ms=4.9/33, M<sub>L</sub>=4.7/3,

QZH	2.5	323	-iPn	19 42 21.7	-0.1		
			Sn	19 42 58.0	4.5		
			SMN	M <sub>L</sub> =4.7	0.7	5.71	
			SME		0.5	3.04	
			LN		9.0	5.83	
			LE		8.5	9.79	
GZH	6.3	272	-P	19 43 15.0	-1.9		
			LN	Ms=4.8	10.0	2.75	
			LE		10.0	9.31	
SSE	8.2	6	P	19 43 40.3	-2.0		
			LN	Ms=4.6	12.0	3.11	
			LE		12.0	2.73	
NJ2	9.1	353	-P	19 43 54.0	-2.1		
			S	19 45 37.0	-2.4		
			LN	Ms=4.5	10.0	2.40	
WHN	9.2	326	+iP	19 43 54.5	-2.4		
			pP	19 43 58.5	-4.0		
			S	19 45 39.5	-1.3		
			sS	19 45 46.5	-3.7		
			LN	Ms=4.9	10.0	6.28	
QZN	10.5	250	P	19 44 13.0	-1.2		
			eS	19 46 11.0	-1.1		
			LN	Ms=4.9	13.0	2.90	
			LE		13.0	5.30	
GYA	12.8	289	P	19 44 44.2	-2.1		
			pP	19 44 48.8	-2.5		
			S	19 47 06.8	-2.2		
			LN	Ms=5.1	6.0	1.50	
			LE		6.0	3.40	
TIA	13.5	349	eP	19 44 57.8	2.8		
			LN	Ms=4.9	11.0	3.90	
			LE		11.0	1.27	
XAN	14.8	321	eP	19 45 10.6	-2.4		















KMI	67.3	303	eP	10 53 34.0	0.1
CD2	69.0	309	eP	10 53 44.5	0.1
GTA	75.7	315	+P	10 54 24.8	0.3

1987 1 16

O=13 18 08.7 ± 0.37s  
 LAT=22.06 S ± 6.23km  
 LONG=173.62 W ± 3.79km  
 DEPTH= 35 km ± 0.73km

STATIONS USED = 35, STAND DEV = 1.23s

NJ2	84.0	308	-P	13 30 38.0	0.2
MDJ	84.2	323	-P	13 30 39.4	0.9
CN2	86.1	321	+P	13 30 47.7	-0.2
WHN	86.7	305	eP	13 30 52.0	1.2
BJI	89.9	314	eP	13 31 06.0	-0.3
GYA	91.0	298	P	13 31 12.4	0.9
TIY	91.4	310	-P	13 31 14.0	0.7
XAN	92.3	306	P	13 31 18.2	0.5
HHC	93.4	313	eP	13 31 23.2	0.6
KMI	93.7	295	eP	13 31 25.0	0.9
BTO	94.3	312	eP	13 31 27.0	0.1

1987 1 16

O=14 09 54.6 ± 0.15s  
 LAT=28.36 N ± 1.20km  
 LONG=103.35 E ± 1.45km  
 DEPTH= 7 km ± 0.45km

STATIONS USED = 8, STAND DEV = 3.15s

 $M_L=2.8/4,$ 

CD2	2.6	8	Pg	14 10 40.4	0.3
			Sg	14 11 14.6	-0.5
			SMN	$M_L=3.0$	0.6 0.060
			SME		0.8 0.090
GYA	3.5	122	Pg	14 11 01.4	4.8
			Sg	14 11 49.0	4.8
			SMN	$M_L=2.7$	1.0 0.020
			SME		1.0 0.020

1987 1 16

O=14 13 50.0 ± 0.18s  
 LAT=17.90 S ± 0.79km  
 LONG=178.38 W ± 1.92km  
 DEPTH=597 km ± 1.73km

STATIONS USED = 38, STAND DEV = 1.23s

SSE	75.8	310	eP	14 24 36.5	-1.1
NJ2	78.0	309	+P	14 24 49.8	0.4
MDJ	78.2	325	+P	14 24 51.5	0.8
QZN	79.5	294	eP	14 24 57.6	0.1
CN2	80.0	322	-P	14 25 00.0	-0.4
WHN	80.6	306	eP	14 25 04.0	0.6

BJI	83.8	315	eP	14 25 19.5	0.2
GYA	85.1	300	P	14 25 26.0	0.3
TIY	85.3	312	-P	14 25 27.2	0.5
XAN	86.3	307	-P	14 25 31.8	0.4

1987 1 16

O=14 42 08.8 ± 0.30s  
 LAT=10.58 S ± 3.76km  
 LONG=161.23 E ± 2.17km  
 DEPTH= 46 km ± 3.59km

STATIONS USED = 25, STAND DEV = 3.19s

MDJ	62.0	335	eP	14 52 29.0	2.1
CN2	63.1	332	eP	14 52 33.0	-1.8
XAN	66.6	314	eP	14 52 55.8	-1.2
GTA	75.6	315	eP	14 53 48.7	-2.6

1987 1 16

O=21 36 57.4 ± 0.14s  
 LAT=19.97 N ± 1.51km  
 LONG=121.07 E ± 1.43km  
 DEPTH= 51 km ± 1.21km

STATIONS USED = 36, STAND DEV = 1.99s

 $M_s=3.4/1, M_L=3.3/2,$ 

QZH	5.5	336	eP	21 38 14.0	-4.4
			SME	$M_L=3.3$	0.7 0.030
			LN	$M_s=3.4$	12.0 0.58
GZH	7.8	295	eP	21 38 49.0	-2.6
QZN	10.6	267	P	21 39 30.0	0.0
			S	21 41 28.2	0.8
WHN	12.2	331	eP	21 39 52.5	1.9
GYA	14.7	299	P	21 40 24.6	-0.1
CD2	19.0	308	eP	21 41 19.4	1.1
			eS	21 44 49.0	4.3
TIY	19.2	339	eP	21 41 20.0	-0.3
BJI	20.4	349	eP	21 41 32.0	-1.4
HHC	22.3	341	eP	21 41 53.8	1.2
BTO	22.6	338	eP	21 41 57.9	2.4
GTA	26.7	321	eP	21 42 34.2	0.3

1987 1 17

O=03 35 30.0 ± 0.11s  
 LAT= 1.29 N ± 1.52km  
 LONG=132.91 E ± 2.71km  
 DEPTH= 33 km ± 0.34km

STATIONS USED = 42, STAND DEV = 1.82s

 $M_s=4.5/1,$ 

QZN	28.7	309	eP	03 41 28.4	2.1
			eS	03 46 15.0	3.4
SSE	31.7	341	eP	03 41 48.5	-4.3
NJ2	33.3	338	+P	03 42 08.0	0.5



WHN	34.0	331	+P	03 42 14.0	0.8
TIA	37.7	339	eP	03 42 44.5	-0.1
XAN	39.6	328	eP	03 42 59.4	-0.7
CD2	40.4	320	eP	03 43 06.6	-0.2
TIY	40.9	335	P	03 43 11.0	0.1
BJI	41.5	340	eP	03 43 15.5	-0.3
HHC	43.9	337	eP	03 43 35.8	0.2
LZH	43.9	325	-P	03 43 36.0	0.4
			PMZ		1.5 0.070
BTO	44.3	335	eP	03 43 37.2	-1.8
GTA	48.5	326	-P	03 44 11.5	-0.5

1987 1 17  
 O=10 04 04.1 ± 0.10s  
 LAT=39.64 N ± 2.45km  
 LONG=141.83 E ± 1.82km  
 DEPTH= 64 km ± 1.02km  
 STATIONS USED = 82, STAND DEV = 2.14s

Ms=4.3/ 1,

MDJ	10.4	303	-P	10 06 33.5	1.1
CN2	12.9	294	eP	10 07 08.0	1.1
SNY	14.0	285	eP	10 07 22.0	0.9
DL2	15.7	274	eP	10 07 45.5	3.1
SSE	18.8	249	P	10 08 20.0	-1.5
			PMZ		1.0 0.060
			pP	10 08 36.0	2.7
			eS	10 11 40.0	-5.2
			sS	10 12 07.0	2.7
BJI	19.7	279	eP	10 08 28.5	-2.4
TIA	19.8	268	+P	10 08 30.4	-1.4
			eS	10 12 03.0	-2.6
			LN	Ms=4.3	12.5 0.59
NJ2	20.1	255	+P	10 08 34.6	-0.4
TIY	23.0	275	eP	10 09 05.0	0.7
HHC	23.1	283	eP	10 09 08.6	3.3
WHN	24.2	256	P	10 09 17.5	1.8
BTO	24.3	283	eP	10 09 15.1	-1.8
XAN	26.8	268	eP	10 09 39.8	-1.0
LZH	30.0	275	eP	10 10 08.0	-1.9
GYA	32.1	257	-P	10 10 27.0	-0.5
			S	10 15 30.0	-2.4
CD2	32.1	266	+P	10 10 26.8	-0.8
GTA	32.2	283	-iP	10 10 26.9	-1.8
			ScP	10 16 52.4	0.8
			eScS	10 20 49.6	0.4
WMQ	40.0	294	-iP	10 11 34.8	0.0
			PMZ		1.5 0.070
			S	10 17 38.0	3.8
LSA	42.4	273	+iP	10 11 54.5	0.0
KSH	49.7	292	eP	10 12 53.0	0.7

1987 1 17  
 O=11 14 52.2 ± 0.24s  
 LAT=10.74 S ± 2.90km  
 LONG=161.30 E ± 6.44km  
 DEPTH= 51 km ± 1.15km  
 STATIONS USED = 35, STAND DEV = 2.60s

QZN	58.7	300	eP	11 24 46.7	-1.0
MDJ	62.1	335	eP	11 25 14.5	3.5
CN2	63.3	332	eP	11 25 22.0	3.1
GYA	64.7	306	P	11 25 32.4	4.6
BJI	65.6	323	eP	11 25 29.0	-4.4
XAN	66.7	314	eP	11 25 39.2	-1.7
GTA	75.7	315	P	11 26 34.2	-1.0
LSA	78.5	303	eP	11 26 49.8	-1.2

1987 1 17  
 O=11 22 03.9 ± 0.25s  
 LAT=10.70 S ± 3.38km  
 LONG=161.43 E ± 5.00km  
 DEPTH= 56 km ± 1.41km  
 STATIONS USED = 65, STAND DEV = 2.82s  
 Ms=5.5/ 17, m<sub>B</sub>=5.7/ 4

QZH	54.8	311	eP	11 31 32.0	1.4
			PP	11 33 36.0	2.1
			S	11 39 10.0	6.0
			SMN	m <sub>B</sub> =5.7	9.0 0.99
			LN	Ms=5.2	16.0 1.08
SSE	56.7	318	P	11 31 42.0	-2.7
			sP	11 32 04.0	-0.7
			eScS	11 41 28.0	4.2
			SS	11 43 14.0	-5.3
			LN	Ms=5.4	20.0 1.20
			LE		20.0 1.73
GZH	57.8	306	P	11 31 56.0	3.6
			S	11 39 39.0	-5.4
			LN	Ms=5.3	16.0 1.21
WHN	61.0	314	eP	11 32 16.5	1.8
			S	11 40 25.0	-1.1
			LN	Ms=5.5	16.0 1.68
DL2	61.7	325	eP	11 32 18.3	-0.9
MDJ	62.1	335	eP	11 32 25.2	3.1
TIA	62.6	320	eP	11 32 29.3	4.2
			S	11 40 51.0	5.4
			LN	Ms=5.7	15.0 2.45
SNY	62.8	329	eP	11 32 27.1	0.8
			LN	Ms=5.9	24.0 5.90
			LE		26.0 2.12
CN2	63.3	332	eP	11 32 27.0	-3.0
GYA	64.7	306	P	11 32 38.0	-1.4



BJI	65.6	323	P	11 32 43.0	-1.7		
			eS	11 41 30.0	5.8		
			LN	Ms=5.5	24.0	1.49	
			LE		23.0	1.47	
TIY	66.5	319	+P	11 32 51.0	0.6		
			LN	Ms=5.7	17.0	2.15	
			LE		17.0	0.93	
XAN	66.8	314	eP	11 32 55.8	3.4		
			eS	11 41 42.8	4.0		
			LE	Ms=5.5	18.0	1.59	
KMI	67.3	303	eP	11 32 58.0	2.0		
			eS	11 41 50.0	4.2		
			LN	Ms=5.4	20.0	1.64	
HHC	68.9	322	eP	11 33 08.0	2.6		
CD2	69.1	309	eP	11 33 09.6	3.1		
			S	11 42 08.0	3.6		
			LN	Ms=5.5	15.0	1.45	
BTO	69.7	321	eP	11 33 10.0	-0.4		
			LN	Ms=5.6	15.0	1.60	
			LE		15.0	0.90	
LZH	71.4	314	eP	11 33 19.0	-2.0		
			LN	Ms=5.4	20.0	1.19	
GTA	75.8	315	+P	11 33 43.0	-3.5		
			PMZ	m <sub>B</sub> =5.7	6.0	0.74	
			SMN	m <sub>B</sub> =5.6	10.0	0.48	
			LN	Ms=5.7	22.0	2.01	
			LE		13.0	0.70	
LSA	78.6	303	P	11 34 04.7	2.2		
WMQ	85.9	316	eP	11 34 43.5	3.9		

1987 1 17  
 O=12 13 21.6 ± 0.07s  
 LAT=37.35 N ± 0.61km  
 LONG=112.66 E ± 0.62km  
 DEPTH= 20 km ± 0.20km  
 STATIONS USED = 10, STAND DEV = 2.12s  
 M<sub>L</sub>=3.1 / 8,

HHC	3.6	347	Pg	12 14 26.4	1.0		
			Sn	12 15 06.0	5.4		
			Sg	12 15 14.6	0.1		
			SMN	M <sub>L</sub> =3.4	0.8	0.12	
			SME		0.6	0.090	
TIA	3.8	106	ePg	12 14 27.6	-0.5		
			Sg	12 15 15.8	-3.7		
			SMN	M <sub>L</sub> =2.4	0.3	0.010	
			SME		0.3	0.010	
XAN	4.5	224	ePn	12 14 28.2	-0.8		
			Pg	12 14 40.8	0.0		
			Sg	12 15 37.4	-4.8		

1987 1 17  
 O=12 51 56.4 ± 0.47s  
 LAT=44.02 N ± 2.75km  
 LONG= 80.62 E ± 4.24km  
 DEPTH= 5 km  
 STATIONS USED = 5, STAND DEV = 4.86s  
 M<sub>L</sub>=2.9 / 5,  
 WMQ 5.1 90 Pn 12 53 11.6 -2.6  
 SMN M<sub>L</sub>=2.8 0.4 0.010

1987 1 17  
 O=13 03 44.6 ± 0.12s  
 LAT=36.01 N ± 1.45km  
 LONG= 71.00 E ± 1.53km  
 DEPTH= 85 km ± 0.53km  
 STATIONS USED = 10, STAND DEV = 2.95s

1987 1 17  
 O=21 00 27.5 ± 0.17s  
 LAT=37.95 N ± 1.29km  
 LONG= 77.52 E ± 1.08km  
 DEPTH= 27 km ± 0.35km  
 STATIONS USED = 5, STAND DEV = 4.45s  
 M<sub>L</sub>=3.5 / 4,

KSH 1.9 322 Pg 21 01 01.0 -0.9  
 Sg 21 01 30.4 2.2  
 SMN M<sub>L</sub>=3.5 0.2 0.40  
 SME 0.3 0.40  
 WMQ 9.7 50 eP 21 02 45.6 -2.8  
 SMN 1.0 0.010

1987 1 18  
 O=01 20 04.0 ± 0.07s  
 LAT=37.78 N ± 0.78km  
 LONG= 77.57 E ± 1.00km  
 DEPTH= 17 km ± 0.81km  
 STATIONS USED = 6, STAND DEV = 2.84s  
 M<sub>L</sub>=3.5 / 5,

KSH 2.1 324 Pn 01 20 39.5 0.6  
 Sg 01 21 09.5 0.0  
 SMN M<sub>L</sub>=3.7 0.2 0.70  
 SME 0.2 0.60  
 WMQ 9.8 49 ePn 01 22 24.2 -0.2  
 Sn 01 24 13.0 -3.2  
 SMN 1.0 0.010

1987 1 18  
 O=13 03 39.2 ± 0.06s  
 LAT=36.06 N ± 1.50km  
 LONG= 70.40 E ± 3.09km



DEPTH = 45 km ± 1.77km  
 STATIONS USED = 16, STAND DEV = 2.81s  
 $M_L = 4.8 / 2,$

KSH	5.6	51	P	13 05 04.0	2.0
			S	13 05 59.5	-5.0
			LN		3.0 2.80
WMQ	15.4	54	cP	13 07 12.7	-2.0
LSA	18.5	104	-P	13 07 51.6	-3.3
GTA	23.5	73	P	13 08 44.3	-1.6

1987 1 18  
 O = 14 04 11.9 ± 0.06s  
 LAT = 37.53 N ± 0.63km  
 LONG = 114.58 E ± 0.52km  
 DEPTH = 15 km ± 0.17km  
 STATIONS USED = 17, STAND DEV = 1.54s  
 $M_L = 3.1 / 14,$

TIY	1.7	277	+iPg	14 04 40.6	-1.7
			Sg	14 05 02.2	-3.4
			SMN	$M_L = 3.2$	0.6 0.26
			SME		0.5 0.28
TIA	2.4	122	cPn	14 04 50.9	-0.6
			Pg	14 04 55.0	0.1
			Sg	14 05 27.7	-0.5
			SMN	$M_L = 2.9$	0.6 0.080
			SME		0.6 0.070
BJI	2.8	26	ePn	14 04 57.0	0.4
			ePg	14 05 02.5	1.1
			eSn	14 05 32.5	0.5
			eSg	14 05 38.5	-1.3
			SMN	$M_L = 2.3$	0.5 0.020
			SME		0.5 0.010
BTO	4.7	312	Pg	14 05 34.8	-0.1
			Sg	14 06 32.0	-6.8
XAN	5.8	235	Pg	14 05 56.5	2.6

1987 1 18  
 O = 18 16 10.6 ± 0.13s  
 LAT = 19.43 S ± 1.21km  
 LONG = 175.57 W ± 1.04km  
 DEPTH = 238 km ± 0.86km  
 STATIONS USED = 44, STAND DEV = 0.92s

NJ2	81.0	308	+P	18 28 01.0	0.1
MDJ	81.0	324	+P	18 28 01.8	0.9
CN2	82.9	321	-P	18 28 10.2	-0.4
SNY	82.9	319	+P	18 28 10.8	0.1
WHN	83.7	305	cP	18 28 15.5	0.9
TIA	84.3	311	cP	18 28 17.7	0.1
BJI	86.8	314	cP	18 28 30.0	0.2
GYA	88.1	299	P	18 28 36.8	0.4

TIY	88.3	311	+P	18 28 37.0	-0.1
XAN	89.3	306	-P	18 28 42.5	0.5
			cS	18 39 13.0	3.3
KMI	90.9	296	-P	18 28 50.5	0.9
CD2	92.2	302	cP	18 28 55.8	0.6

1987 1 18  
 O = 18 33 55.5 ± 0.07s  
 LAT = 25.32 N ± 0.86km  
 LONG = 100.06 E ± 0.70km  
 DEPTH = 9 km ± 0.65km  
 STATIONS USED = 11, STAND DEV = 1.53s  
 $M_L = 3.6 / 5,$

KMI	2.4	94	Pg	18 34 40.0	1.1
			Sg	18 35 13.0	1.1
			SMN	$M_L = 3.6$	1.0 0.43
			SME		1.0 0.32
			LN		4.0 0.94
GYA	6.1	78	Pn	18 35 26.6	0.9
CD2	6.5	30	cPn	18 35 31.8	0.7

1987 1 18  
 O = 23 35 26.6 ± 0.06s  
 LAT = 30.72 N ± 1.11km  
 LONG = 142.72 E ± 1.45km  
 DEPTH = 34 km ± 0.30km  
 STATIONS USED = 21, STAND DEV = 1.03s

CN2	18.9	318	+P	23 39 46.0	-1.3
SNY	19.0	311	-iP	23 39 47.9	0.1
BJI	23.5	301	cP	23 40 33.5	-0.9
TIY	25.9	294	cP	23 40 58.0	0.1
GTA	35.9	296	cP	23 42 25.4	-0.7
WMQ	44.9	303	cP	23 43 41.9	1.4

1987 1 19  
 O = 04 12 28.1 ± 0.07s  
 LAT = 43.84 N ± 2.18km  
 LONG = 147.68 E ± 1.46km  
 DEPTH = 51 km ± 0.89km  
 STATIONS USED = 55, STAND DEV = 1.42s

MDJ	13.0	280	cP	04 15 34.5	1.9
CN2	16.0	278	cP	04 16 11.0	-1.1
BJI	23.7	272	cP	04 17 37.0	1.0
TIA	24.5	262	cP	04 17 44.8	0.5
NJ2	25.5	252	+P	04 17 54.8	1.4
HHC	26.7	276	cP	04 18 05.2	0.0
TIY	27.2	269	cP	04 18 11.0	1.1
BTO	27.9	277	cP	04 18 18.0	1.9
			eS	04 23 00.0	5.6
WHN	29.5	254	cP	04 18 29.5	-0.3



XAN	31.4	265	eP	04 18 46.6	-0.8		
LZH	34.2	272	+P	04 19 11.5	0.5		
			PMZ			1.5	0.050
GTA	35.7	280	P	04 19 24.3	0.5		
CD2	36.8	265	P	04 19 33.4	0.1		
GYA	37.3	256	P	04 19 37.6	-0.2		
KMI	40.9	258	+P	04 20 08.5	0.7		
WMQ	42.4	292	eP	04 20 16.5	-3.5		
LSA	46.6	272	P	04 20 54.0	0.3		

1987 1 19

O=06 47 41.6 ± 0.11s  
 LAT=54.89 N ± 3.31km  
 LONG=163.08 E ± 1.85km  
 DEPTH= 41 km ± 0.14km  
 STATIONS USED = 86, STAND DEV= 1.35s  
 Ms=5.5 / 25, m<sub>B</sub>=5.1 / 1

MDJ	23.7	258	eP	06 52 50.5	-0.7		
			eS	06 57 05.0	4.6		
CN2	26.6	261	+P	06 53 16.0	-2.3		
			eS	06 57 46.0	-2.1		
SNY	28.9	260	+P	06 53 37.8	-1.4		
			pP	06 53 48.0	-1.6		
			eS	06 58 22.0	-3.4		
			LN	Ms=5.6	18.0	8.67	
			LE		18.0	3.51	
DL2	32.0	257	eP	06 54 05.0	-1.4		
			S	06 59 10.0	-2.9		
			LN	Ms=5.5	16.0	3.78	
			LE		16.0	3.23	
BJI	34.3	264	eP	06 54 26.0	-0.6		
			eS	06 59 52.0	1.9		
			LN	Ms=5.7	15.0	5.20	
			LE		14.0	2.77	
TIA	36.4	258	eP	06 54 44.2	-0.3		
HHC	36.4	269	eP	06 54 44.0	-0.9		
			S	07 00 24.5	2.4		
			LN	Ms=5.5	15.0	2.96	
			LE		16.0	2.11	
BTO	37.5	270	eP	06 54 50.0	-3.8		
			LN	Ms=5.6	14.0	4.00	
			LE		15.0	2.80	
SSE	38.0	249	P	06 54 56.0	-1.6		
			LN	Ms=5.3	16.0	1.86	
			LE		16.0	1.43	
TIY	38.0	265	eP	06 54 57.0	-1.2		
			LN	Ms=5.6	19.5	5.49	
			LE		19.0	2.95	
NJ2	38.5	252	-P	06 55 02.4	0.4		
			LE	Ms=5.3	18.0	2.40	

WHN	42.1	255	P	06 55 32.0	-0.2		
			eS	07 01 50.0	1.1		
			LN	Ms=5.6	18.0	4.71	
XAN	42.6	264	eP	06 55 35.4	-0.9		
			LN	Ms=5.8	17.0	4.50	
			LE		17.0	4.50	
LZH	44.1	270	eP	06 55 49.0	0.6		
			PMZ			1.5	0.090
			LN	Ms=5.6	15.0	3.80	
GTA	44.2	277	+iP	06 55 49.5	0.7		
			eS	07 02 25.6	6.9		
			LN	Ms=5.4	16.0	1.67	
			LE		15.0	1.41	
QZH	44.2	246	eP	06 55 48.0	-1.2		
			LN	Ms=5.0	14.0	0.80	
CD2	47.9	265	eP	06 56 18.6	0.3		
			LN	Ms=5.9	20.0	5.60	
			LE		18.0	6.29	
WMQ	48.0	290	+iP	06 56 20.5	1.1		
			PMZ			1.5	0.21
			PcP	06 57 48.5	2.2		
			PP	06 58 16.0	5.9		
			eS	07 03 18.8	4.9		
			LN	Ms=5.5	20.0	2.46	
			LE		24.0	2.59	
GYA	49.6	259	P	06 56 32.4	0.9		
			LN	Ms=5.7	18.0	3.80	
			LE		18.0	3.10	
QZN	53.7	250	-iP	06 57 05.8	3.3		
			eS	07 04 38.0	5.7		
			LE	Ms=5.4	17.0	2.00	
LSA	56.1	274	-P	06 57 20.6	0.6		
KSH	57.4	293	P	06 57 30.0	1.1		

1987 1 19

O=07 46 23.8 ± 0.09s  
 LAT=28.41 N ± 1.80km  
 LONG= 83.69 E ± 1.24km  
 DEPTH= 32 km ± 0.38km  
 STATIONS USED = 84, STAND DEV= 1.44s  
 Ms=4.6 / 11, m<sub>B</sub>=5.2 / 1

LSA	6.7	77	Pn	07 48 01.4	1.1		
			Sn	07 49 16.7	0.2		
			SMN	m <sub>B</sub> =5.2	9.0	4.27	
KSH	12.7	332	P	07 49 25.0	-0.7		
			eS	07 51 50.0	2.5		
			LN	Ms=4.8	8.0	2.10	
WMQ	15.7	11	P	07 50 03.5	-1.1		
			LN	Ms=4.6	14.0	1.68	
GTA	17.3	46	-P	07 50 22.0	-2.5		







BTO	41.3	340	eP	16 02 37.4	1.6
MDJ	42.4	3	eP	16 02 43.6	-0.5
GTA	44.7	330	eP	16 03 02.7	-0.6
WMQ	54.3	325	eP	16 04 16.5	-0.4

1987 1 19  
 O = 19 40 39.1 ± 0.06s  
 LAT = 29.00 S ± 3.16km  
 LONG = 178.10 W ± 2.38km  
 DEPTH = 89 km ± 1.07km  
 STATIONS USED = 24, STAND DEV = 0.86s

NJ2	85.3	311	-P	19 53 09.0	0.9
MDJ	87.4	326	eP	19 53 18.0	-0.6
WHN	87.4	307	+P	19 53 19.5	0.9
DL2	87.9	317	eP	19 53 22.0	1.3
SNY	88.7	320	+P	19 53 24.2	-0.3
TIA	89.0	313	eP	19 53 26.4	0.5
CN2	89.0	323	+P	19 53 24.8	-1.2
GYA	90.8	300	P	19 53 34.4	-0.2
BJI	91.9	316	eP	19 53 40.0	0.6
TIY	92.9	312	eP	19 53 44.3	0.1
XAN	93.2	307	eP	19 53 45.6	0.0
KSH	119.4	301	eP	19 59 19.5	0.0

1987 1 19  
 O = 21 24 00.4 ± 0.13s  
 LAT = 56.04 N ± 3.36km  
 LONG = 164.31 E ± 2.04km  
 DEPTH = 33 km ± 0.05km  
 STATIONS USED = 72, STAND DEV = 1.61s

Ms = 5.6 / 24,		m <sub>B</sub> = 5.2 / 1			
MDJ	24.7	257	eP	21 29 20.3	0.5
			S	21 33 43.0	7.0
CN2	27.5	260	eP	21 29 43.0	-2.9
SNY	29.8	259	eP	21 30 07.8	1.0
			S	21 34 58.0	-1.5
			LN	Ms = 5.4	18.0 4.22
			LE		18.0 1.99
DL2	32.9	257	eP	21 30 35.0	0.9
			eS	21 35 44.0	-5.0
			LN	Ms = 5.4	12.0 2.00
			LE		12.0 1.71
BJI	35.1	264	eP	21 30 50.0	-3.3
			LN	Ms = 5.6	15.5 4.53
			LE		15.0 2.77
HHC	37.2	269	eP	21 31 12.5	1.9
			S	21 36 53.0	-0.8
			LN	Ms = 5.8	17.0 5.04
			LE		16.0 6.26
TIA	37.3	258	eP	21 31 09.7	-2.1

			LN	Ms = 5.6	14.0 3.99
			LE		14.0 1.15
BTO	38.2	270	eP	21 31 21.4	2.1
			ePP	21 32 50.0	0.2
			eS	21 37 10.0	-0.7
			LN	Ms = 5.8	17.0 6.70
			LE		17.0 3.90
TIY	38.8	264	eP	21 31 25.2	0.6
			S	21 37 17.0	-2.3
			LN	Ms = 5.8	15.0 5.81
			LE		15.0 2.48
SSE	39.0	249	eP	21 31 27.0	0.9
			eS	21 37 24.0	0.7
			LN	Ms = 5.1	13.0 0.89
			LE		13.0 0.93
WHN	43.1	255	eP	21 32 01.5	1.7
			eS	21 38 24.0	0.3
			LN	Ms = 5.5	14.0 2.70
XAN	43.5	264	eP	21 32 02.5	-0.2
			LN	Ms = 5.8	15.0 2.80
			LE		16.0 5.24
GTA	44.7	276	eP	21 32 12.5	-0.4
			pP	21 32 21.8	-0.2
			eS	21 38 48.0	0.6
			LN	Ms = 5.7	20.0 4.01
			LE		20.0 4.20
LZH	44.8	270	eP	21 32 14.0	0.3
			LN	Ms = 6.2	15.0 13.5
WMQ	48.3	289	+P	21 32 42.3	1.1
			eS	21 39 42.0	3.6
			LN	Ms = 5.9	20.0 7.23
			LE		20.0 3.62
CD2	48.7	265	eP	21 32 43.4	-0.6
			S	21 39 44.0	1.6
			LN	Ms = 5.6	20.0 2.61
			LE		15.0 2.51
QZN	54.8	250	eP	21 33 32.3	2.5
			eS	21 41 04.0	-3.0
			LN	Ms = 5.5	15.0 1.50
			LE		14.0 1.00
KSH	57.6	294	eP	21 33 52.5	2.6
			LE	Ms = 5.8	11.0 2.80

1987 1 19  
 O = 23 52 01.5 ± 0.05s  
 LAT = 0.93 N ± 1.00km  
 LONG = 99.52 E ± 0.92km  
 DEPTH = 24 km ± 0.34km  
 STATIONS USED = 17, STAND DEV = 1.27s

QZN	20.6	29	eP	23 56 42.8	0.6
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XAN	34.1	14	eP	23 58 45.0	-1.8
GTA	38.3	0	eP	23 59 21.6	-0.9
BJI	41.8	19	eP	23 59 50.5	-0.6

1987 1 20

O = 15 53 01.4 ± 0.09s  
 LAT = 14.57 S ± 1.35km  
 LONG = 167.42 E ± 2.48km  
 DEPTH = 194 km ± 0.57km  
 STATIONS USED = 50, STAND DEV = 1.12s

NJ2	65.7	316	-P	16 03 27.5	0.0
			pP	16 04 08.0	-4.3
WHN	67.9	312	eP	16 03 42.0	0.2
MDJ	68.2	332	eP	16 03 43.5	0.0
TIA	69.3	318	eP	16 03 48.1	-2.2
CN2	69.6	329	+P	16 03 51.4	-0.5
GYA	71.7	305	P	16 04 05.0	0.0
BJI	72.2	321	eP	16 04 07.0	-0.8
TIY	73.2	317	P	16 04 14.5	0.7
XAN	73.7	312	+P	16 04 16.0	-0.4
			pP	16 04 58.0	-4.0
CD2	76.0	307	eP	16 04 29.8	0.1
BTO	76.4	319	eP	16 04 34.0	2.2
LZH	78.3	312	eP	16 04 43.0	0.5
			pP	16 05 25.0	-3.4
GTA	82.7	314	+iP	16 05 06.1	0.7
LSA	85.6	302	+P	16 05 20.3	-0.1

1987 1 20

O = 23 36 04.2 ± 0.09s  
 LAT = 38.64 N ± 1.96km  
 LONG = 141.90 E ± 1.79km  
 DEPTH = 62 km ± 1.15km  
 STATIONS USED = 90, STAND DEV = 1.69s  
 Ms = 4.6 / 20, m<sub>B</sub> = 5.4 / 5

MDJ	11.0	307	eP	23 38 43.0	1.9
			S	23 40 46.0	4.3
			eSS	23 41 00.0	3.4
CN2	13.4	298	-P	23 39 13.0	-0.5
			PMZ	m <sub>B</sub> = 6.0	4.0 1.00
			eS	23 41 42.0	1.3
SNY	14.4	289	-iP	23 39 26.0	0.2
			LZ	Ms = 4.5	24.0 2.96
DL2	15.8	277	eP	23 39 40.0	-4.6
			eS	23 42 43.0	5.9
			LE	Ms = 4.4	16.0 1.29
SSE	18.6	252	P	23 40 19.5	0.9
			PP	23 40 36.0	1.3
			eS	23 43 46.0	6.4
			sS	23 43 54.0	-4.0

			SS	23 44 10.0	5.3
			LN	Ms = 4.2	11.0 0.47
TIA	19.8	271	eP	23 40 30.0	-2.6
			LN	Ms = 4.7	11.0 1.25
			LE		11.0 0.49
NJ2	19.9	258	eP	23 40 33.0	-0.4
			S	23 44 07.5	-0.3
BJI	19.9	282	eP	23 40 31.0	-2.8
			S	23 44 04.0	-4.7
TIY	23.1	277	eP	23 41 06.2	0.0
			PP	23 41 37.0	-0.4
			LN	Ms = 4.6	15.0 0.55
			LE		16.0 0.90
QZH	24.0	242	eP	23 41 16.0	1.9
			S	23 45 29.0	6.6
			SME	m <sub>B</sub> = 5.4	8.0 0.70
			LE	Ms = 4.5	20.0 1.00
WHN	24.0	259	+P	23 41 13.5	-1.0
			eS	23 45 26.0	2.2
			LN	Ms = 4.8	14.0 1.33
BTO	24.6	285	-iP	23 41 20.0	-0.1
			PP	23 41 55.0	-1.7
			eS	23 45 36.0	2.4
			LN	Ms = 4.9	14.0 0.40
			LE		17.0 1.80
XAN	26.9	270	eP	23 41 40.2	-1.4
GZH	28.8	246	eP	23 42 03.5	4.2
LZH	30.2	277	eP	23 42 11.0	-0.7
			PMZ		1.0 0.040
GYA	31.9	258	+P	23 42 27.0	0.6
			S	23 47 31.6	1.2
CD2	32.1	268	eP	23 42 27.0	-1.0
			eS	23 47 35.0	0.7
GTA	32.5	285	+iP	23 42 32.6	0.9
			eS	23 47 42.1	1.3
			ScP	23 48 52.5	-0.7
			eScS	23 52 52.8	1.5
			LE	Ms = 4.9	17.0 1.36
QZN	34.0	244	eP	23 42 45.7	1.6
KMI	35.6	259	-P	23 42 58.5	0.0
			eS	23 48 30.0	0.8
WMQ	40.5	295	+iP	23 43 40.0	1.0
KSH	50.1	293	eP	23 44 58.0	2.0

1987 1 20

O = 23 43 51.5 ± 0.12s  
 LAT = 51.59 N ± 4.22km  
 LONG = 174.39 W ± 2.40km  
 DEPTH = 33 km ± 0.68km  
 STATIONS USED = 63, STAND DEV = 1.54s



CN2	40.2	283	P	23 51 27.0	0.0		
			pP	23 51 34.0	-2.2		
SNY	42.4	282	+iP	23 51 46.0	0.6		
DL2	45.4	280	eP	23 52 09.6	0.4		
BJI	48.0	285	eP	23 52 31.0	1.1		
TIA	49.9	280	-P	23 52 44.2	0.0		
SSE	50.8	272	+P	23 52 51.5	0.6		
			PMZ			1.0	0.030
			eS	24 00 03.0	-0.3		
BTO	51.3	289	eP	23 52 58.0	2.5		
NJ2	51.6	275	-P	23 52 57.4	0.4		
TIY	51.7	285	eP	23 52 59.5	1.0		
			eS	24 00 17.5	0.4		
WHN	55.4	277	eP	23 53 25.5	0.2		
XAN	56.3	284	-P	23 53 31.8	-0.3		
LZH	58.0	289	eP	23 53 43.5	-0.3		
GTA	58.0	294	-iP	23 53 43.5	-0.8		
WMQ	61.5	305	P	23 54 03.5	-4.7		
CD2	61.6	285	-iP	23 54 09.0	0.1		
			PMZ			0.8	0.040
GYA	63.0	279	-P	23 54 19.0	0.6		
KMI	66.4	281	+P	23 54 41.0	0.6		
QZN	66.5	271	eP	23 54 43.6	2.7		

1987 1 21

O = 01 09 34.0 ± 0.09s  
 LAT = 26.88 N ± 1.69km  
 LONG = 143.87 E ± 1.93km  
 DEPTH = 33 km ± 0.26km  
 STATIONS USED = 74, STAND DEV = 1.37s

M<sub>s</sub> = 4.3 / 4, m<sub>B</sub> = 5.0 / 1

MDJ	21.1	331	eP	01 14 18.5	0.2		
DL2	22.1	308	eP	01 14 31.7	3.1		
SNY	22.4	317	eP	01 14 30.6	-0.2		
			eS	01 18 31.0	1.2		
			LN			M <sub>s</sub> = 4.2	16.0 0.47
NJ2	22.4	289	+P	01 14 30.2	-0.7		
			SME			m <sub>B</sub> = 5.0	8.0 0.40
CN2	22.5	323	eP	01 14 34.0	1.5		
			eS	01 18 37.0	4.0		
TIA	24.6	299	eP	01 14 51.6	-0.8		
WHN	26.1	285	-P	01 15 08.5	1.4		
BJI	26.5	307	eP	01 15 11.0	0.8		
TIY	28.6	300	eP	01 15 32.0	2.5		
			eS	01 20 18.0	3.7		
			LN			M <sub>s</sub> = 4.5	13.0 0.32
			LE				15.0 0.38
XAN	30.9	292	+P	01 15 49.2	-0.6		
QZN	32.2	263	eP	01 16 06.8	5.0		
GYA	33.2	278	+P	01 16 09.6	-0.6		

LZH	35.1	295	eP	01 16 29.5	2.3		
CD2	35.2	286	+iP	01 16 27.1	-0.6		
			S	01 21 55.0	-2.6		
KMI	36.9	277	eP	01 16 42.5	0.4		
GTA	38.6	300	P	01 16 55.0	-1.2		
LSA	46.2	286	P	01 17 58.0	-0.5		
WMQ	47.9	306	P	01 18 12.6	0.9		
KSH	57.0	301	eP	01 19 21.0	1.5		

1987 1 21

O = 01 17 02.5 ± 0.29s  
 LAT = 58.00 S ± 4.19km  
 LONG = 25.79 W ± 4.99km  
 DEPTH = 26 km ± 1.61km  
 STATIONS USED = 17, STAND DEV = 2.74s

TIY	146.1	108	ePKP	01 36 39.8	-0.7		
BTO	147.1	102	PKP	01 36 44.8	2.7		
TIA	147.3	116	ePKP	01 36 43.3	0.9		
HHC	148.1	104	ePKP	01 36 45.0	1.3		
BJI	149.8	110	ePKP	01 36 50.0	3.6		

1987 1 21

O = 01 51 16.9 ± 0.09s  
 LAT = 5.63 S ± 1.17km  
 LONG = 130.85 E ± 2.17km  
 DEPTH = 53 km ± 0.33km  
 STATIONS USED = 84, STAND DEV = 1.09s

m<sub>B</sub> = 5.4 / 3

QZN	32.1	320	eP	01 57 41.6	0.2		
			eS	02 02 49.5	1.2		
			sS	02 03 10.0	-0.6		
SSE	37.7	346	P	01 58 30.0	0.9		
			PMZ			1.0	0.020
			sP	01 58 48.0	0.1		
			eS	02 04 18.0	3.4		
NJ2	39.2	344	+P	01 58 42.0	0.3		
			PMZ			m <sub>B</sub> = 5.7	4.0 0.50
			S	02 04 38.0	1.4		
WHN	39.3	337	-eP	01 58 44.0	1.4		
GYA	39.6	325	P	01 58 45.6	0.4		
			PcP	02 00 53.2	1.9		
KMI	41.0	319	+P	01 58 58.5	1.4		
			sP	01 59 14.0	-1.7		
			eS	02 05 05.0	-0.4		
TIA	43.6	344	eP	01 59 17.1	-0.7		
XAN	44.6	334	+iP	01 59 25.4	-0.6		
			sP	01 59 44.5	-0.3		
CD2	44.6	326	P	01 59 26.4	0.0		
DL2	45.1	350	eP	01 59 31.3	1.0		
TIY	46.4	340	+P	01 59 40.6	0.0		



			PMZ		0.7	0.070			PcP	04 56 32.0	6.6		
			ePP	02 01 26.0					S	05 00 16.0	0.9		
			S	02 06 20.0					SME	$m_B = 5.2$		8.0	0.40
			sS	02 06 42.5					sS	05 01 18.0	2.8		
BJI	47.4	345	P	01 59 48.0				NJ2	39.9	345	+P	04 54 25.0	1.8
SNY	47.7	353	eP	01 59 49.8					pP	04 54 58.0	1.0		
LZH	48.6	331	eP	01 59 58.5					S	05 00 17.0	1.3		
			PMZ		1.5	0.070			sS	05 01 21.0	5.2		
CN2	49.4	355	-P	02 00 03.5				KMI	41.2	321	-P	04 54 34.5	1.0
			pP	02 00 16.0					pP	04 55 11.0	3.8		
			PcP	02 01 25.2					eS	05 00 36.0	0.7		
BTO	49.8	339	P	02 00 09.0				TIA	44.3	345	eP	04 54 58.5	-0.3
LSA	51.8	315	+iP	02 00 21.8					PcP	04 56 40.5	0.4		
GTA	53.2	330	P	02 00 32.0					eScP	05 00 15.2	-0.5		
			PcP	02 01 40.0					eS	05 01 14.5	-6.3		
WMQ	62.7	326	+P	02 01 39.8					sS	05 02 25.0	4.0		
KSH	67.6	317	P	02 02 12.0					ScS	05 04 36.0	-1.2		
								CD2	45.0	328	eP	04 55 03.8	-0.1
								XAN	45.1	335	P	04 55 04.0	-1.0
									pP	04 55 40.0	0.7		
									sP	04 56 00.0	2.8		
									ScP	05 00 18.7	-0.2		
									S	05 01 28.0	-2.8		
									sS	05 02 32.0	-0.1		
								TIY	47.1	341	eP	04 55 20.1	-0.5
									S	05 01 59.0	0.1		
									SME	$m_B = 5.3$		7.0	0.29
									sS	05 03 06.0	5.4		
									ScS	05 04 58.0	3.0		
								BJI	48.2	346	eP	04 55 28.5	-0.7
									pP	04 56 05.0	1.0		
									ScP	05 00 31.0	-0.8		
									S	05 02 16.0	1.5		
									esS	05 03 20.0	3.6		
								SNY	48.6	354	eP	04 55 31.7	-1.0
									pP	04 56 06.0	-1.5		
									sS	05 03 19.0	-3.8		
								LZH	49.1	332	P	04 55 38.0	1.9
									PMZ			1.5	0.12
									eS	05 02 23.0	-5.1		
								HHC	50.2	342	eP	04 55 45.0	0.2
								CN2	50.4	356	+P	04 55 45.0	-1.4
									PMZ	$m_B = 5.4$		5.0	0.40
									pP	04 56 21.0	-0.4		
									sP	04 56 39.0	0.0		
									ScP	05 00 39.6	-1.7		
									eS	05 02 45.0	-1.7		
									SME	$m_B = 5.6$		12.0	1.00
									sS	05 03 45.0	-3.1		
								BTO	50.5	340	eP	04 55 47.2	0.4

1987 1 21

O=04 47 02.4 ± 0.11s

LAT= 6.72 S ± 1.63km

LONG=129.79 E ± 2.13km

DEPTH=156 km ± 0.29km

STATIONS USED = 93, STAND DEV= 1.23s

$m_B = 5.3 / 10$

QZN 32.3 323 eP 04 53 18.4 -0.2

sP 04 54 12.0 2.4

eS 04 58 13.0 -6.6

sS 04 59 14.0 -3.4

QZH 33.3 341 eP 04 53 28.0 0.5

pP 04 54 03.5 3.0

eS 04 58 31.0 -4.7

SME  $m_B = 4.9$  6.0 0.38

sS 04 59 32.0 -1.6

GZH 33.7 332 eP 04 53 32.0 1.1

SSE 38.5 348 eP 04 54 12.0 0.8

PMZ 1.0 0.020

pP 04 54 44.0 -1.0

sP 04 55 08.0 5.1

eS 04 59 52.0 -3.0

esS 05 00 52.0 -2.0

SS 05 02 42.0 0.3

ScS 05 04 06.0 4.0

GYA 39.9 327 P 04 54 22.6 -0.3

pP 04 54 58.0 1.4

sP 04 55 19.0 4.5

S 05 00 13.6 -1.3

WHN 39.9 339 P 04 54 24.0 1.2

PMZ 0.8 0.070

pP 04 54 59.0 2.3



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			pP	04 56 25.0	3.3		
			ePP	04 57 45.0	0.0		
			eS	05 02 48.0	0.5		
			esS	05 03 50.0	1.3		
MDJ	51.1	360	eP	04 55 50.0	-1.4		
			pP	04 56 27.0	0.4		
			sP	04 56 44.0	-0.1		
			eS	05 02 55.0	-0.9		
LSA	51.8	316	+iP	04 55 56.4	-1.2		
			SME	$m_B = 5.4$	8.0	0.48	
			S	05 03 05.0	0.0		
GTA	53.6	331	-P	04 56 10.0	-0.3		
			pP	04 56 47.0	1.4		
			sP	04 57 07.0	3.9		
			S	05 03 25.5	-3.5		
			SME	$m_B = 5.2$	6.5	0.22	
WMQ	63.0	327	P	04 57 15.2	-0.5		
			PMZ		1.5	0.15	
			pP	04 57 54.5	2.4		
			S	05 05 32.0	1.0		
KSH	67.6	317	eP	04 57 47.0	1.8		
			pP	04 58 24.0	2.1		
			sP	04 58 44.0	4.9		
			eS	05 06 35.0	6.3		
			SME	$m_B = 5.6$	6.0	0.70	

1987 1 21

O = 05 54 45.8 ± 0.09s  
 LAT = 3.26 S ± 1.53km  
 LONG = 137.44 E ± 1.76km  
 DEPTH = 70 km ± 0.40km  
 STATIONS USED = 20, STAND DEV = 1.92s

MDJ	48.2	352	+P	06 03 21.3	-0.2		
WMQ	64.7	322	P	06 05 19.0	-0.1		

1987 1 21

O = 05 59 51.2 ± 0.11s  
 LAT = 40.77 N ± 0.95km  
 LONG = 120.11 E ± 1.07km  
 DEPTH = 22 km ± 0.34km  
 STATIONS USED = 12, STAND DEV = 3.19s

DL2	2.2	147	ePg	06 00 31.5	1.2		
			Sn	06 00 54.0	-1.4		
			eSg	06 00 59.5	-1.0		
			SMN	$M_L = 2.7$	0.6	0.050	
SNY	2.8	67	ePg	06 00 39.3	-1.9		
			Sg	06 01 15.5	-4.3		
			SMN	$M_L = 2.8$	0.4	0.060	
			SME		0.4	0.030	

BJI	3.1	258	Pn	06 00 40.0	0.8		
			Pg	06 00 49.0	3.1		
			Sg	06 01 30.5	2.3		
			SMN	$M_L = 2.6$	0.5	0.020	
			SME		0.5	0.020	
CN2	5.0	51	ePg	06 01 20.2	0.8		
			eSg	06 02 23.8	-3.7		
			SMN	$M_L = 3.3$	0.8	0.030	
			SME		0.8	0.040	
SSE	9.7	174	eP	06 02 10.0	-2.8		
WHN	11.2	206	eP	06 02 35.5	1.7		

1987 1 21

O = 11 26 35.7 ± 0.11s  
 LAT = 20.75 N ± 1.42km  
 LONG = 145.00 E ± 1.95km  
 DEPTH = 120 km ± 0.19km  
 STATIONS USED = 104, STAND DEV = 1.18s

SSE	23.7	301	+iP	11 31 37.2	-0.7		
			PMZ		1.5	1.19	
			pP	11 32 02.0	-0.6		
			PP	11 32 18.0	1.6		
			S	11 35 42.0	1.4		
			sS	11 36 28.0	3.7		
			ScP	11 38 45.0	-0.3		
			LN		12.0	1.82	
			LE		12.0	1.64	
QZH	24.7	285	-P	11 31 46.0	-1.0		
			pP	11 32 10.0	-1.8		
			sP	11 32 25.0	-1.5		
			S	11 35 50.0	-6.7		
			SME	$m_B = 5.3$	12.0	0.95	
			LN		16.0	2.25	
			LE		16.0	2.02	
NJ2	25.9	301	-P	11 31 58.0	-0.7		
			pP	11 32 23.0	-0.8		
			ScP	11 38 52.0	0.5		
MDJ	27.0	335	-P	11 32 10.0	1.2		
			pP	11 32 38.0	3.9		
			sP	11 32 53.0	4.4		
			PP	11 33 00.0	0.3		
			PcP	11 35 28.5	1.5		
			ScP	11 38 54.5	-0.2		
			S	11 36 35.0	-0.2		
			SMN	$m_B = 5.8$	10.0	3.49	
			sS	11 37 15.0	-5.5		
			ScS	11 42 46.5	1.9		
DL2	27.1	317	eP	11 32 09.0	-0.1		
			PMZ	$m_B = 6.1$	4.0	1.92	



			sP	11 32 52.0	3.1				ScS	11 43 06.0	1.8		
			iS	11 36 34.0	-2.6				TIY	32.9 308	-P	11 33 00.6	0.0
			SMN	$m_B = 6.2$	6.0	4.57			PMZ			2.1	0.39
			SME		6.0	2.51			pP	11 33 25.0	-1.5		
			sS	11 37 21.0	-0.1				PP	11 34 16.5	2.8		
			ScS	11 42 46.0	1.3				S	11 38 04.0	-3.4		
SNY	27.7	324	-P	11 32 14.0	-1.3				SMN	$m_B = 5.7$	8.0	1.47	
			pP	11 32 41.0	0.4				SME		8.5	1.72	
			sP	11 32 56.5	1.4				sS	11 38 53.5	-0.4		
			S	11 36 45.0	-1.8				ScS	11 43 15.0	2.5		
			SMN	$m_B = 5.8$	8.0	2.45			LN		13.0	1.82	
			SME		12.0	1.91			LE		12.0	0.90	
			LN		26.0	4.92		QZN	33.1 273	P	11 33 03.6	1.3	
CN2	28.2	329	-P	11 32 18.0	-1.3				pP	11 33 28.0	-0.4		
			PMZ	$m_B = 5.6$	4.0	0.50			PP	11 34 16.0	-0.3		
			pP	11 32 44.0	-0.7				S	11 38 10.5	-0.2		
			sP	11 32 58.0	-1.2				SMN	$m_B = 5.5$	8.0	0.90	
			ScP	11 38 57.0	-1.3				SME		10.0	1.10	
			SMN	$m_B = 5.8$	10.0	3.20			sS	11 38 58.0	0.7		
TIA	28.8	308	-P	11 32 24.3	-0.7				PcS	11 39 27.5	0.7		
			PMZ	$m_B = 5.9$	5.0	1.33			SS	11 40 18.0	-1.4		
			pP	11 32 48.5	-2.0				LN		15.0	2.50	
			sP	11 33 01.0	-4.0				LE		15.0	1.70	
			ScP	11 39 00.2	-0.1			XAN	34.5 300	+iP	11 33 14.3	-0.1	
			S	11 37 04.5	0.5				sP	11 33 54.0	-0.9		
			SMN	$m_B = 5.5$	9.0	1.12			sS	11 39 14.0	-5.2		
			SME		9.0	1.01			ScS	11 43 24.0	3.0		
			sS	11 37 46.0	-3.8				LN		16.0	4.29	
			ScS	11 42 54.9	2.3				LE		16.0	1.43	
			LN		12.0	3.39		HHC	34.7 313	-iP	11 33 16.6	0.0	
			LE		12.0	2.00			pP	11 33 44.9	2.1		
WHN	29.2	296	+P	11 32 28.5	-0.1				sP	11 34 02.0	5.0		
			PMZ	$m_B = 5.5$	7.0	0.70			SMN	$m_B = 5.7$	7.0	1.39	
			pP	11 32 53.0	-1.2				SME		7.0	1.00	
			sP	11 33 08.0	-0.7				ScS	11 43 17.0	-5.3		
			ScP	11 39 02.0	0.4				LN		13.0	1.70	
			LN		16.0	8.00		GYA	35.5 287	-P	11 33 24.0	0.9	
GZH	29.4	280	+P	11 32 31.2	0.7				pP	11 33 49.0	-0.5		
			pP	11 32 55.0	-1.1				sP	11 34 07.0	3.3		
			sP	11 33 13.0	2.4				PcP	11 35 52.6	3.0		
			S	11 37 16.0	2.2				S	11 38 48.0	-0.1		
			sS	11 38 02.0	2.2				ScP	11 39 24.0	1.0		
			LE		24.0	3.81			ScS	11 43 29.0	2.5		
BJI	31.2	314	cP	11 32 45.0	-1.3				LN		12.0	1.90	
			PMZ	$m_B = 5.7$	5.0	0.78			LE		12.0	1.60	
			sP	11 33 22.0	-4.6			BTO	35.7 312	-iP	11 33 26.0	1.2	
			ScP	11 39 08.0	-0.1				sP	11 34 08.5	3.1		
			cS	11 37 38.0	-4.8				PP	11 34 49.5	2.4		
			SMN	$m_B = 5.9$	7.0	2.40			S	11 38 48.0	-3.2		
			SME		7.0	1.71			SMN	$m_B = 5.8$	9.0	1.70	







			SMN	$M_L = 3.4$	0.8	0.17				SME	$m_B = 5.9$			
			SME		1.0	0.20				esS	20 51 14.0	-5.1		
TIA	5.1	76	ePg	17 18 26.5	-0.1				NJ2	39.0	346	-iP	20 44 07.1	1.0
			Sg	17 19 30.2	-5.5							iScP	20 49 32.0	0.5
			SMN	$M_L = 3.6$	1.2	0.11						iS	20 49 43.5	-2.0
			SME		1.2	0.040						SME	$m_B = 5.5$	5.0 0.70
WHN	5.4	148	Pg	17 18 38.0	5.7				KMI	40.0	322	eP	20 44 16.0	1.5
			eSn	17 19 27.0	5.0							pP	20 45 13.5	4.7
			iSg	17 19 47.0	1.1							sP	20 45 37.5	-1.4
			SMN	$M_L = 3.4$	1.0	0.040						ScP	20 49 37.0	1.6
			SME		0.6	0.040						S	20 50 01.0	1.7
BTO	5.5	352	ePn	17 18 21.3	2.0				TIA	43.4	346	-P	20 44 41.2	-0.5
HHC	5.7	4	ePg	17 18 40.8	3.0							ScP	20 49 49.0	0.1
			SMN	$M_L = 4.0$	1.0	0.10						S	20 50 45.5	-3.1
			SME		1.0	0.13						SMN	$m_B = 5.5$	6.0 0.40
LZH	5.9	281	ePg	17 18 48.0	5.8							SME		6.0 0.48
			eSg	17 19 59.5	-3.5				CD2	43.9	328	P	20 44 39.8	-5.5
BJI	6.3	38	ePg	17 18 48.5	-0.7				XAN	44.1	336	-iP	20 44 46.4	-0.6
CD2	7.4	237	ePn	17 18 47.4	1.2							pP	20 45 41.0	-1.2
			Sn	17 20 16.3	3.3							iPcP	20 46 28.8	1.6
			Sg	17 20 50.6	0.3							iScP	20 49 51.6	0.0
			SMN	$M_L = 4.1$	1.2	0.11						S	20 50 53.6	-4.4
			SME		0.9	0.030						SS	20 54 12.0	-3.1
GYA	9.5	205	P	17 19 14.6	-2.2				DL2	45.2	352	-P	20 44 56.0	0.2
												S	20 51 11.2	-2.8
												SMN	$m_B = 5.7$	6.0 0.44
												SME		6.0 0.56
									TIY	46.1	342	-P	20 45 03.0	-0.1
												PMZ		1.0 0.070
												S	20 51 25.0	-2.0
												ScS	20 54 29.0	2.6
												SS	20 54 46.0	-5.2
												LN		10.0 0.29
QZN	31.1	323	eP	20 42 58.0	-1.4				BJI	47.3	347	+P	20 45 12.0	-0.1
			S	20 47 42.0	-2.0							ScP	20 50 05.0	0.1
QZH	32.3	342	eP	20 43 09.5	-0.4							eS	20 51 40.0	-4.6
			SME	$m_B = 5.2$	6.0	0.62						SME	$m_B = 5.5$	4.0 0.29
GZH	32.6	333	eP	20 43 12.0	-0.5							ScS	20 54 35.0	0.9
SSE	37.6	349	+iP	20 43 55.0	0.6				SNY	47.9	355	-P	20 45 15.6	-0.9
			PMZ									iS	20 51 50.0	-2.5
			ScP	20 49 25.5	-0.7				LZH	48.0	333	P	20 45 18.5	0.7
			sS	20 51 04.0	4.7							PMZ		1.5 0.060
GYA	38.8	327	P	20 44 04.8	0.6				HHC	49.3	343	-iP	20 45 27.5	0.2
			PcP	20 46 10.6	0.9				BTO	49.5	341	eP	20 45 29.0	-0.2
			S	20 49 38.6	-2.2				CN2	49.7	357	-P	20 45 29.0	-1.4
			ScP	20 49 31.0	0.4							sP	20 46 52.0	-4.6
			ScS	20 53 43.0	1.8							ScP	20 50 14.0	-1.0
WHN	38.9	340	-iP	20 44 06.5	1.4							eS	20 52 15.0	-2.8
			PMZ									SMN	$m_B = 5.3$	10.0 0.40
			ScP	20 49 31.0	-0.1				MDJ	50.4	1	-P	20 45 36.0	0.2
			iS	20 49 42.0	-1.6									

1987 1 21

O=20 37 03.1 ± 0.09s

LAT= 6.02 S ± 1.35km

LONG=128.83 E ± 1.92km

DEPTH=268 km ± 0.45km

STATIONS USED = 80, STAND DEV = 1.07s

$m_B = 5.5 / 12$

QZN	31.1	323	eP	20 42 58.0	-1.4		
			S	20 47 42.0	-2.0		
QZH	32.3	342	eP	20 43 09.5	-0.4		
			SME	$m_B = 5.2$	6.0	0.62	
GZH	32.6	333	eP	20 43 12.0	-0.5		
SSE	37.6	349	+iP	20 43 55.0	0.6		
			PMZ				
			ScP	20 49 25.5	-0.7		
			sS	20 51 04.0	4.7		
GYA	38.8	327	P	20 44 04.8	0.6		
			PcP	20 46 10.6	0.9		
			S	20 49 38.6	-2.2		
			ScP	20 49 31.0	0.4		
			ScS	20 53 43.0	1.8		
WHN	38.9	340	-iP	20 44 06.5	1.4		
			PMZ				
			ScP	20 49 31.0	-0.1		
			iS	20 49 42.0	-1.6		

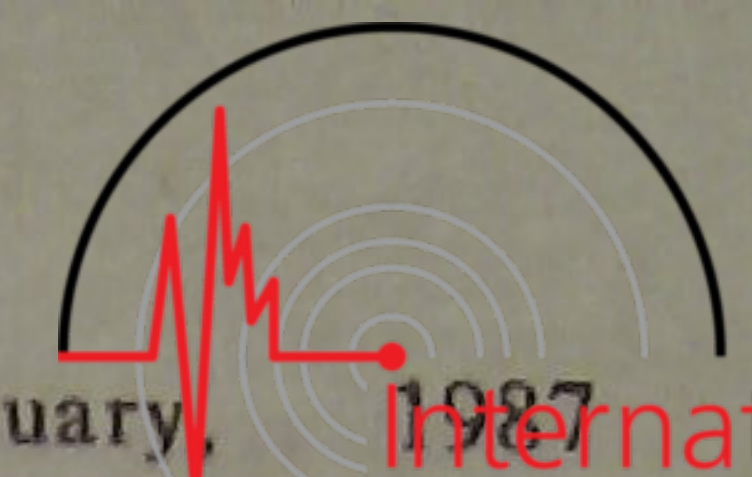






			SME		9.0	0.68			LN		Ms = 4.6					
TIA	83.8	311	P	05 45 16.9	0.0				QZH	21.4	264	eP	05 52 09.5	0.7		
			S	05 55 16.0	0.7							eS	05 56 03.0	4.4		
			SMN		m <sub>B</sub> = 5.4	6.4	0.54					LE		Ms = 4.3	20.0	0.87
			sS	05 57 00.0	-5.2				BJI	23.8	304	P	05 52 32.5	0.0		
BJI	86.3	314	eP	05 45 29.5	0.4				WHN	24.1	280	eP	05 52 36.5	1.2		
			pP	05 46 32.0	0.7				BTO	28.5	302	eP	05 53 15.3	-1.0		
			ePP	05 48 58.0	3.0							ePP	05 54 04.0	-3.7		
			SKS	05 55 29.0	2.6							eS	05 57 58.0	-1.4		
			SMN		m <sub>B</sub> = 5.5	5.0	0.41					LN		Ms = 5.0	16.0	0.80
GYA	87.8	299	P	05 45 37.2	0.9							LE			16.0	1.80
			SKS	05 55 41.0	5.1				XAN	28.6	288	-P	05 53 15.8	-1.3		
TIY	87.8	311	-P	05 45 38.0	1.4				GYA	31.4	273	+P	05 53 41.6	-0.7		
			PMZ			1.5	0.23		CD2	33.1	282	P	05 53 56.0	-1.3		
			pP	05 46 41.0	2.2							ePcP	05 56 38.1	-1.1		
			SKS	05 55 41.0	4.7							S	05 59 16.0	4.4		
XAN	88.9	307	+iP	05 45 42.9	1.3				GTA	36.1	298	-P	05 54 21.3	-1.3		
			pP	05 46 44.0	0.0							LE		Ms = 4.8	15.0	0.80
			SKS	05 55 45.5	2.7				WMQ	45.2	304	P	05 55 39.0	0.7		
			S	05 56 10.0	6.6											
			SMN		m <sub>B</sub> = 5.6	10.0	0.65									
			SME			8.0	0.61									
HHC	89.8	314	eP	05 45 46.5	0.7											
			SKS	05 55 53.0	4.8											
KMI	90.6	296	+P	05 45 51.5	1.9											
			pP	05 46 51.0	-1.0											
			sP	05 47 19.5	0.4											
			SKS	05 55 57.0	4.1											
			S	05 56 21.5	3.0											
			SME		m <sub>B</sub> = 5.4	6.0	0.40									
BTO	90.8	313	eP	05 45 50.4	0.1											
CD2	91.8	302	-P	05 45 51.2	-3.8											
GTA	97.6	309	-P	05 46 21.4	-0.5											
<p>1987 1 22                  O = 05 47 22.5 ± 0.08s                  LAT = 29.33 N ± 1.33km                  LONG = 142.11 E ± 1.55km                  DEPTH = 41 km ± 0.49km                  STATIONS USED = 61, STAND DEV = 1.24s                  Ms = 4.5 / 10, m<sub>B</sub> = 4.9 / 1</p>																
SSE	18.2	281	eP	05 51 33.0	-0.6											
			sP	05 51 44.5	-3.0											
			LN			Ms = 4.5	18.0	0.88								
			LE				18.0	1.14								
MDJ	18.2	330	eP	05 51 33.5	-0.6											
SNY	19.5	315	-P	05 51 48.2	-1.2											
CN2	19.6	322	+P	05 51 50.0	-0.7											
			eS	05 55 26.0	1.3											
NJ2	20.2	284	+P	05 51 55.0	-1.5											
<p>1987 1 22                  O = 09 26 21.6 ± 0.09s                  LAT = 8.13 N ± 1.47km                  LONG = 137.47 E ± 1.88km                  DEPTH = 35 km ± 0.25km                  STATIONS USED = 22, STAND DEV = 1.27s</p>																
SNY	35.7	342	eP	09 33 19.9	0.4											
XAN	36.8	319	eP	09 33 27.4	-1.3											
BJI	37.0	332	eP	09 33 30.0	-0.4											
TIY	37.2	326	eP	09 33 31.2	-0.3											
BTO	40.5	327	eP	09 34 01.6	2.0											
GTA	45.9	319	P	09 34 42.4	-0.8											
WMQ	56.0	318	eP	09 35 59.9	0.5											
<p>1987 1 22                  O = 12 15 43.6 ± 0.07s                  LAT = 43.34 N ± 2.13km                  LONG = 146.42 E ± 1.39km                  DEPTH = 58 km ± 0.94km                  STATIONS USED = 86, STAND DEV = 1.38s                  Ms = 4.5 / 10, m<sub>B</sub> = 5.2 / 4</p>																
MDJ	12.2	282	+P	12 18 37.5	0.5											
			sP	12 18 51.5	-2.6											
			S	12 20 51.0	0.1											
CN2	15.2	279	+P	12 19 15.6	-0.9											
			pP	12 19 23.4	-3.1											
SNY	16.9	273	eP	12 19 36.8	-0.9											
DL2	19.2	265	+P	12 20 05.0	-0.3											
			pP	12 20 17.0	0.5											
			sP	12 20 25.5	2.0											

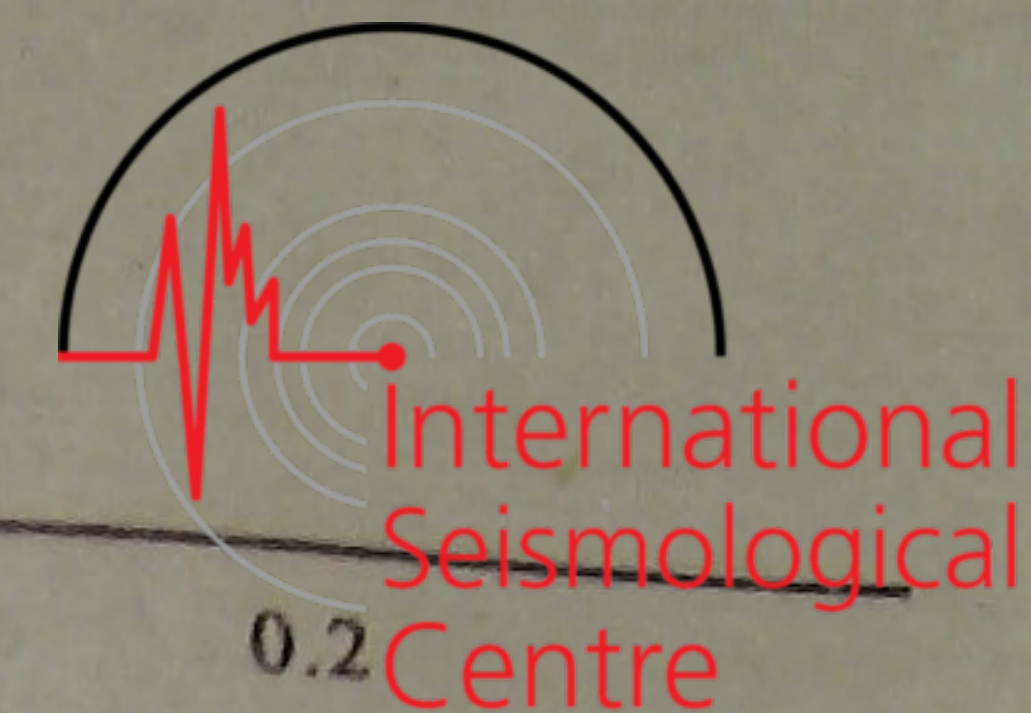




			eS	12 23 37.5	4.6				KSH	51.5	291	P	12 24 47.0	0.5			
BJI	22.8	272	eP	12 20 42.5	0.3												
			eS	12 24 44.0	1.8												
			SMN	$m_B = 5.2$	7.0	0.32			1987	1	22						
			SME		8.0	0.43			O = 14 07 58.2				$\pm 0.15s$				
			sS	12 25 09.0	4.5				LAT = 31.19 S				$\pm 0.90km$				
SSE	23.4	247	eP	12 20 48.0	-0.5				LONG = 179.97 E				$\pm 2.06km$				
			pP	12 21 04.0	2.3				DEPTH = 407 km				$\pm 0.90km$				
			esS	12 25 14.0	-2.2				STATIONS USED = 47,				STAND DEV = 1.10s				
			SS	12 25 39.0	-3.8				$m_B = 5.6 / 1$								
			LN	$M_s = 4.6$	9.0	0.42			SSE	83.3	312	eP	14 19 40.0	-2.7			
			LE		20.0	1.14			QZN	83.8	296	eP	14 19 44.6	-0.3			
TIA	23.5	262	eP	12 20 50.3	0.6				NJ2	85.4	312	+P	14 19 53.0	-0.1			
			pP	12 21 05.5	2.7				WHN	87.4	308	eP	14 20 02.5	-0.2			
			S	12 24 56.0	1.0				MDJ	88.3	327	+P	14 20 07.0	0.3			
			LN	$M_s = 4.4$	12.0	0.55			DL2	88.4	318	eP	14 20 07.3	0.3			
NJ2	24.4	252	eP	12 20 57.0	-1.4				TIA	89.2	314	-P	14 20 11.2	0.1			
			S	12 25 10.0	-0.5							S	14 30 27.5	4.7			
			LN	$M_s = 4.7$	14.0	1.10			SNY	89.3	322	eP	14 20 10.7	-0.7			
HHC	25.9	277	eP	12 21 12.5	0.3							S	14 30 25.0	1.6			
			S	12 25 39.0	4.6				CN2	89.7	324	-iP	14 20 12.5	-0.9			
			sS	12 25 58.0	-0.4				GYA	90.4	301	-P	14 20 17.0	0.2			
TIY	26.3	269	eP	12 21 17.0	0.7				BJI	92.3	316	eP	14 20 25.0	-0.2			
			S	12 25 46.0	4.3							eSKS	14 30 16.0	-1.2			
			SME	$m_B = 5.2$	8.0	0.59						eS	14 30 54.0	2.8			
BTO	27.1	277	-iP	12 21 23.8	0.6							SMN	$m_B = 5.6$	7.0	0.53		
			pP	12 21 38.0	1.5							SME		7.0	0.57		
			ePP	12 22 13.0	3.2				XAN	93.2	308	eP	14 20 29.6	0.1			
			eS	12 25 58.0	3.0				GTA	102.3	309	eP	14 21 09.5	-0.9			
			LN	$M_s = 4.4$	11.0	0.20											
			LE		11.0	0.30			1987	1	22						
WHN	28.5	254	eP	12 21 35.5	-0.1				O = 14 44 09.4				$\pm 0.17s$				
			eS	12 26 16.0	-0.9				LAT = 45.94 N				$\pm 1.37km$				
			sS	12 26 38.0	-2.6				LONG = 90.23 E				$\pm 1.35km$				
			LN	$M_s = 4.7$	14.0	0.89			DEPTH = 18 km				$\pm 0.51km$				
QZH	29.2	240	eP	12 21 41.0	-1.6				STATIONS USED = 9,				STAND DEV = 3.32s				
			eS	12 26 29.0	-0.5				$M_L = 3.4 / 8,$								
			sS	12 26 52.0	-1.2				WMQ	2.8	221	ePn	14 44 57.0	3.3			
			LE	$M_s = 4.1$	12.0	0.19						Sg	14 45 30.8	-6.0			
XAN	30.5	265	+P	12 21 53.7	-0.1							SMN	$M_L = 3.5$	0.4	0.31		
			eS	12 26 53.0	3.6							SME		0.4	0.16		
LZH	33.3	272	eP	12 22 18.0	-0.1				GTA	9.6	129	eP	14 46 27.4	-2.9			
GTA	34.8	280	+P	12 22 30.5	-1.2												
			ScP	12 28 42.7	0.9				1987	1	22						
CD2	35.8	264	+iP	12 22 39.4	-0.7				O = 16 44 23.1				$\pm 0.07s$				
			pP	12 22 54.2	0.4				LAT = 37.82 S				$\pm 3.85km$				
			S	12 28 09.5	-2.0				LONG = 78.06 E				$\pm 1.89km$				
GYA	36.3	256	P	12 22 43.8	-0.3				DEPTH = 5 km				$\pm 0.76km$				
WMQ	41.8	292	P	12 23 30.2	0.9				STATIONS USED = 21,				STAND DEV = 0.89s				
LSA	45.7	272	P	12 24 01.2	-0.2				LSA	68.3	12	P	16 55 27.1	-1.2			
									GYA	69.3	27	P	16 55 34.6	0.0			



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CD2	72.5	23	eP	16 55 52.2	-1.2
LZH	77.3	21	eP	16 56 21.0	-0.4
			PMZ		1.5 0.020
GTA	79.4	17	+P	16 56 33.0	0.1
WMQ	81.7	7	P	16 56 44.6	-0.5
BTO	83.3	24	eP	16 56 54.0	0.5

1987 1 22

O=17 58 39.4 ± 0.12s  
 LAT=24.27 N ± 2.42km  
 LONG=121.79 E ± 1.92km  
 DEPTH= 10 km ± 1.50km  
 STATIONS USED = 25, STAND DEV= 1.98s  
 Ms=4.0/ 3, M<sub>L</sub>=4.0/ 9,

QZH	3.0	284	ePn	17 59 27.5	0.4
			SMN	M <sub>L</sub> =4.0	1.2 0.72
			SME		1.4 0.60
			LE		9.0 1.20

SSE	6.8	356	eP	18 00 21.0	-1.1
			LN	M <sub>s</sub> =3.7	10.0 0.66

GZH	7.8	263	eP	18 00 33.5	-2.7
			eS	18 02 02.8	-2.9

NJ2	8.2	342	eP	18 00 39.0	-2.0
			S	18 02 13.5	-0.6
			LN	M <sub>s</sub> =4.0	10.0 1.00

CD2	17.3	296	eP	18 02 44.1	1.3
BTO	19.0	332	eP	18 03 08.2	3.7

			ePP	18 03 25.0	4.6
			eS	18 06 39.0	5.2
			LN	M <sub>s</sub> =4.4	12.0 0.50
			LE		12.0 0.40

GTA	23.9	314	eP	18 03 55.0	0.2
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1987 1 22

O=20 15 11.4 ± 0.14s  
 LAT=15.13 N ± 1.94km  
 LONG=122.86 E ± 2.22km  
 DEPTH= 35 km ± 0.87km  
 STATIONS USED = 58, STAND DEV= 1.94s  
 Ms=4.1/ 3,

QZN	13.0	289	eP	20 18 16.6	-0.5
			eS	20 20 44.0	2.1
WHN	17.2	334	eP	20 19 15.0	3.9
NJ2	17.2	348	-P	20 19 13.0	1.6
GYA	18.9	309	P	20 19 31.8	0.3
KMI	21.3	301	+P	20 19 59.0	0.9
TIA	21.6	347	P	20 20 00.8	0.1
			LN	M <sub>s</sub> =4.1	13.0 0.32

XAN	22.7	329	+iP	20 20 11.2	0.1
			S	20 24 12.5	0.9

CD2	23.5	315	eP	20 20 19.8	0.2
			PMZ		1.2 0.17
			eS	20 24 27.2	-0.6
TIY	24.3	340	eP	20 20 28.0	0.6
			LN	M <sub>s</sub> =4.4	13.0 0.48

BJI	25.5	348	eP	20 20 38.5	-0.1
SNY	26.6	1	-P	20 20 48.5	-0.4
LZH	26.9	324	eP	20 20 51.5	-0.4
HHC	27.4	341	eP	20 20 56.2	-0.5
BTO	27.7	339	eP	20 21 01.2	1.9
GTA	31.5	325	eP	20 21 31.6	-1.5
LSA	32.6	302	+iP	20 21 41.5	-1.1
WMQ	41.4	321	eP	20 22 57.4	1.0
KSH	47.5	310	eP	20 23 44.5	-1.5

1987 1 22

O=22 32 04.2 ± 0.12s  
 LAT=35.61 N ± 1.15km  
 LONG= 81.13 E ± 1.09km  
 DEPTH= 16 km  
 STATIONS USED = 6, STAND DEV= 3.33s  
 M<sub>L</sub>=3.9/ 3,

KSH	5.6	315	ePn	22 33 30.0	2.4
			Sn	22 34 34.0	0.2

1987 1 23

O=01 52 53.3 ± 0.10s  
 LAT=52.34 N ± 2.16km  
 LONG=171.31 W ± 0.90km  
 DEPTH= 33 km ± 0.08km  
 STATIONS USED = 38, STAND DEV= 0.75s

CN2	41.9	284	eP	02 00 42.0	-0.4
BJI	49.6	286	eP	02 01 44.5	0.4
SSE	52.6	274	eP	02 02 05.0	-1.6
NJ2	53.4	277	-P	02 02 12.0	-0.2
TIY	53.4	286	eP	02 02 13.3	0.9
XAN	58.0	285	-P	02 02 45.1	-0.3
GTA	59.4	296	P	02 02 54.9	-0.8
WMQ	62.6	307	P	02 03 17.4	0.2
CD2	63.2	286	-iP	02 03 21.7	0.3
GYA	64.8	281	P	02 03 31.6	0.2
LSA	71.4	294	-P	02 04 13.4	0.4

1987 1 23

O=04 55 06.4 ± 0.12s  
 LAT=52.28 N ± 2.87km  
 LONG=169.64 W ± 1.23km  
 DEPTH= 33 km ± 0.07km  
 STATIONS USED = 29, STAND DEV= 0.92s

BTO	53.8	292	eP	05 04 29.0	-0.2
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STATIONS USED = 11, STAND DEV = 3.28s

$M_L = 3.3 / 4,$

LZH	2.0	16	ePg	20 15 18.5	-0.4
			Sg	20 15 44.5	-0.8
			SME	$M_L = 3.2$	1.0 0.19
CD2	3.3	171	ePg	20 15 47.6	4.5
XAN	4.8	90	ePn	20 15 53.8	-3.2
			Pg	20 16 07.3	-1.1
			Sn	20 16 48.6	-6.1
			Sg	20 17 09.6	-3.9
			SMN	$M_L = 3.3$	0.6 0.060
			SME		0.6 0.030
GTA	5.9	334	ePn	20 16 11.0	-1.0

1987 1 23

O = 20 34 12.3 ± 0.24s  
 LAT = 9.83 S ± 3.23km  
 LONG = 158.65 E ± 1.60km  
 DEPTH = 56 km ± 2.18km

STATIONS USED = 20, STAND DEV = 2.22s

CN2	61.3	333	+P	20 44 23.6	-1.4
XAN	64.2	315	eP	20 44 43.8	-0.7
BTO	67.3	322	eP	20 45 01.0	-3.1
GTA	73.3	316	-P	20 45 41.1	0.7
WMQ	83.3	316	eP	20 46 37.2	1.6

1987 1 23

O = 21 18 09.0 ± 0.18s  
 LAT = 13.96 N ± 1.42km  
 LONG = 144.76 E ± 1.86km  
 DEPTH = 151 km ± 1.14km

STATIONS USED = 84, STAND DEV = 1.26s

$m_B = 5.1 / 1$

QZH	26.9	298	eP	21 23 43.0	4.5
SSE	27.6	312	P	21 23 41.5	-2.7
			PMZ		1.0 0.080
			SS	21 29 44.0	-0.4
NJ2	29.8	312	+P	21 24 04.0	0.2
DL2	32.2	325	P	21 24 25.6	0.7
WHN	32.5	306	P	21 24 28.5	0.8
MDJ	33.2	340	-P	21 24 33.2	-0.5
TIA	33.2	317	-P	21 24 34.2	0.2
SNY	33.3	331	eP	21 24 34.3	-0.4
QZN	33.8	283	P	21 24 39.3	0.2
			eS	21 29 50.0	-1.4
			eSS	21 32 09.0	2.0
CN2	34.0	335	P	21 24 40.2	-0.7
			PcP	21 27 13.6	-1.3
BJI	36.1	321	eP	21 24 59.0	0.7
TIY	37.2	315	iP	21 25 08.6	0.9

PMZ

			eS	21 30 45.0	1.8
GYA	37.7	295	P	21 25 13.2	1.1
			pP	21 25 47.0	2.5
			PcP	21 27 26.6	0.7
XAN	38.1	308	-iP	21 25 15.3	0.1
HHC	39.4	319	-P	21 25 27.4	1.1
BTO	40.3	318	-iP	21 25 34.0	0.6
KMI	41.0	292	eP	21 25 40.0	0.9
CD2	41.2	301	eP	21 25 41.0	0.1
LZH	42.7	309	P	21 25 54.5	1.2
			PMZ		1.5 0.16
GTA	46.9	311	-iP	21 26 26.5	0.3
			ScP	21 31 34.2	0.1
			eS	21 33 04.0	-0.8
			SME	$m_B = 5.1$	6.0 0.17
WMQ	56.8	313	-iP	21 27 40.4	0.0
KSH	64.9	307	eP	21 28 36.0	0.6

1987 1 24

O = 08 09 20.3 ± 0.15s  
 LAT = 41.47 N ± 1.68km  
 LONG = 79.34 E ± 1.70km  
 DEPTH = 26 km ± 0.44km

STATIONS USED = 101, STAND DEV = 1.78s

$M_s = 6.4 / 50,$   $m_B = 6.1 / 43$

KSH	3.3	233	+iPn	08 10 14.0	3.6
			Sg	08 11 04.0	1.4
WMQ	6.6	66	ePn	08 10 58.3	2.1
			Sg	08 12 42.0	-5.0
LSA	15.2	137	P	08 12 55.2	0.2
			sP	08 13 07.0	1.8
			eS	08 15 41.0	-2.2
			LE	$M_s = 5.8$	12.0 28.5
GTA	15.7	91	eP	08 12 59.0	-3.1
			PMZ	$m_B = 5.9$	7.0 3.69
			LE	$M_s = 6.3$	10.0 67.9
LZH	19.8	98	+P	08 13 52.0	-0.2
			PMZ	$m_B = 6.2$	7.0 9.20
			SMN	$m_B = 6.3$	9.0 7.14
			SME		13.0 12.8
			sS	08 17 35.0	-4.3
			LN	$M_s = 6.4$	11.0 32.2
			LE		10.0 45.8
CD2	22.3	110	P	08 14 18.0	0.7
			pP	08 14 26.9	1.9
			SME		18.0 37.0
			LE	$M_s = 6.2$	9.0 28.4
BTO	23.1	82	+iP	08 14 26.0	0.5
			PMZ	$m_B = 6.1$	7.0 5.50



			sP	08 14 36.0	-0.8				LE			16.0	34.2		
			ePP	08 14 55.0	-0.2				TIA	29.7	88	cP	08 15 27.5	0.5	
			S	08 18 30.5	0.2							PMZ	$m_B = 6.0$	8.0	2.18
			SMN	$m_B = 6.2$		9.0	3.90					S	08 20 21.0	1.4	
			SME			9.0	5.10					SMN	$m_B = 5.8$	10.0	1.49
			sS	08 18 42.0	-1.7							SME		11.0	2.05
			LN	$M_s = 6.6$		11.0	23.1					LN	$M_s = 6.4$	11.0	21.9
			LE			10.0	68.3					LE		12.0	26.7
HHC	24.2	81	P	08 14 37.2	1.0				WHN	30.2	100	+P	08 15 31.0	0.2	
			PMZ	$m_B = 6.3$		7.0	8.16					PMZ	$m_B = 6.0$	6.0	1.60
			pP	08 14 48.0	4.2							pP	08 15 38.5	-0.3	
			eS	08 18 50.5	0.1							S	08 20 32.0	5.6	
			SMN	$m_B = 6.4$		10.0	6.34					SME	$m_B = 5.9$	10.0	2.50
			SME			9.0	9.77					LN	$M_s = 6.5$	14.0	47.0
			LN	$M_s = 6.4$		10.0	30.2		DL2	32.2	80	+P	08 15 50.0	1.4	
			LE			9.0	23.9					PMZ	$m_B = 6.0$	8.0	1.93
XAN	24.5	98	-P	08 14 38.4	-0.2							pP	08 15 59.0	2.5	
			pP	08 14 45.5	-0.8							sP	08 16 04.0	3.9	
			sP	08 14 50.0	0.1							PP	08 16 58.0	2.8	
			PP	08 15 14.0	0.2							S	08 21 00.0	1.9	
			S	08 18 48.0	-5.7							SMN	$m_B = 6.0$	10.0	1.68
			sS	08 19 02.0	-5.2							SME		10.0	2.59
			PcS	08 22 00.0	3.8							ScS	08 26 15.0	0.4	
			LN	$M_s = 6.5$		10.0	32.3					LN	$M_s = 6.2$	10.0	13.7
			LE			10.0	38.1					LE		10.0	8.00
KMI	25.3	123	+P	08 14 47.5	0.2				NJ2	32.8	94	+P	08 15 55.0	1.1	
			PMZ	$m_B = 6.4$		6.0	5.50					PMZ	$m_B = 6.0$	7.0	1.80
			pP	08 14 57.0	2.2							S	08 21 14.5	7.0	
			sP	08 15 03.0	4.6							SME	$m_B = 5.8$	9.0	1.80
			S	08 19 06.0	-2.7							LN	$M_s = 6.6$	13.0	45.4
			LN	$M_s = 6.1$		11.0	20.5		SNY	32.8	74	+iP	08 15 54.0	0.1	
TIY	25.7	87	P	08 14 51.0	0.6							PMZ	$m_B = 5.9$	10.0	1.92
			iS	08 19 20.0	4.7							pP	08 16 03.0	1.1	
			SME	$m_B = 6.1$		10.0	5.94					PP	08 17 08.0	4.8	
			LN	$M_s = 6.5$		10.0	27.1					iS	08 21 09.8	1.4	
			LE			12.5	40.0					SMN	$m_B = 5.7$	10.0	0.66
GYA	27.0	115	P	08 15 03.0	0.3							SME		9.5	1.38
			pP	08 15 13.0	2.6							SS	08 23 07.0	0.7	
			PP	08 15 49.0	0.9							LN	$M_s = 6.5$	9.5	13.3
			S	08 19 42.0	5.9							LE		10.0	30.5
			sS	08 19 56.0	5.9										
			LN	$M_s = 6.2$		12.0	20.4		CN2	33.7	70	+P	08 16 01.0	-0.6	
			LE			12.0	12.4					PMZ	$m_B = 6.2$	5.0	2.00
BJI	27.8	81	eP	08 15 10.0	0.2							pP	08 16 09.0	-0.6	
			PMZ	$m_B = 5.9$		9.0	2.06					PP	08 17 11.5	-2.3	
			PP	08 16 03.0	4.6							eS	08 21 16.0	-6.2	
			eS	08 19 55.0	5.3				GZH	33.8	112	+P	08 16 02.0	-0.7	
			SMN	$m_B = 6.9$		10.0	26.1					eS	08 21 26.0	1.7	
			SME			10.0	8.95					LN	$M_s = 6.4$	10.0	19.3
			LN	$M_s = 6.3$		16.0	26.5					LE		10.0	13.8
									QZN	34.3	121	P	08 16 07.8	1.0	



				Ms=4.5 / 5, ML=4.8 / 1, mB=4.9 / 1						
	PMZ	m <sub>B</sub> =6.0	8.5	2.00	LSA	2.5 326	+iPn	10 35 10.3	4.6	
	S	08 21 29.0	-1.6				Pg	10 35 15.0	5.0	
	SS	08 23 34.0	-6.5				Sn	10 35 43.2	6.9	
	LN	Ms=6.1	15.0	8.50			SME		4.0 19.6	
	LE		11.0	12.1						
SSE	35.0 94	+iP	08 16 14.0	1.1	KMI	9.3 103	eP	10 36 43.0	1.1	
		sP	08 16 21.0	-3.4			eS	10 38 23.0	-4.1	
		S	08 21 43.0	1.3	CD2	10.2 69	+iP	10 36 56.6	3.1	
		sS	08 21 58.0	2.1			PMZ		1.0 0.030	
		PcS	08 22 32.0	2.0			eS	10 38 44.0	-3.8	
		SS	08 23 59.0	2.0	GYA	12.5 92	-P	10 37 24.4	-0.5	
		ScS	08 26 24.0	-5.2	LZH	12.6 45	-P	10 37 26.5	-0.9	
		LN	Ms=6.2	14.0			PMZ		1.0 0.18	
		LE		12.0			SMN	m <sub>B</sub> =4.9	10.0 1.02	
QZH	36.4 105	+P	08 16 25.0	0.2	GTA	13.1 25	-iP	10 37 32.3	-1.6	
		PMZ	m <sub>B</sub> =6.0	8.0			LE	Ms=4.2	10.5 0.67	
		PP	08 17 50.0	2.0	XAN	15.3 61	+iP	10 38 01.0	-1.0	
		S	08 22 07.0	3.6	WMQ	16.6 347	P	10 38 23.2	3.8	
		SME	m <sub>B</sub> =5.8	10.0			LN	Ms=4.6	11.0 1.20	
		LN	Ms=6.1	9.0	8.75	KSH	18.2 315	eP	10 38 41.5	2.1
MDJ	36.4 68	eP	08 16 27.0	2.1			LE	Ms=4.7	10.0 1.40	
		pP	08 16 35.0	2.1	WHN	19.1 76	P	10 38 49.0	-0.7	
		PP	08 17 48.0	-0.1	BTO	19.2 43	eP	10 38 50.4	-1.0	
		S	08 22 00.3	-3.1			ePP	10 39 03.0	-4.9	
		LE	Ms=6.2	14.0	19.3		LN	Ms=4.5	13.0 0.60	
							LE		13.0 0.70	
1987 1 24					TIY	19.4 54	eP	10 38 50.5	-2.1	
O=08 59 34.3 ± 0.19s							S	10 42 20.0	-3.4	
LAT=41.38 N ± 1.61km							LN	Ms=4.4	11.0 0.57	
LONG=79.32 E ± 1.85km							LE		12.0 0.48	
DEPTH=28 km ± 0.46km					HHC	20.3 45	+P	10 39 02.8	-0.6	
STATIONS USED = 27, STAND DEV = 3.03s					TIA	22.4 61	eP	10 39 23.6	0.0	
Ms=4.2 / 1, ML=4.3 / 5,					BJI	23.0 51	eP	10 39 31.0	1.1	
KSH	3.2 234	ePg	09 00 30.0	-1.1	NJ2	23.1 73	+P	10 39 32.8	2.2	
		Sg	09 01 16.0	1.3	DL2	26.5 58	eP	10 40 04.0	0.2	
		LN	Ms=4.2	9.0	6.00	SNY	28.9 53	eP	10 40 24.2	-0.6
WMQ	6.6 66	ePn	09 01 14.4	3.7	CN2	30.8 50	eP	10 40 43.4	1.0	
		SMN	ML=4.4	1.0	0.23					
		SME		1.0	0.19					
GTA	15.7 90	eP	09 03 14.9	-1.2	1987 1 24					
LZH	19.8 97	eP	09 04 04.5	-1.5	O=13 13 27.7 ± 0.12s					
TIY	25.7 87	eP	09 05 05.0	0.7	LAT=4.52 N ± 2.96km					
GYA	27.0 115	P	09 05 19.8	3.5	LONG=62.54 E ± 2.13km					
					DEPTH=9 km ± 0.21km					
					STATIONS USED = 25, STAND DEV = 2.07s					
					Ms=5.0 / 1,					
					LSA	36.9 44	eP	13 20 41.6	2.4	
					GYA	47.4 58	eP	13 22 04.4	-0.9	
					GTA	48.4 39	eP	13 22 13.0	0.4	
							LN	Ms=5.0	17.0 0.79	
					XAN	52.1 50	eP	13 22 39.4	-1.3	



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BTO	55.7	43	eP	13 23 08.0	0.7
TIY	56.1	47	eP	13 23 09.0	-1.7
BJI	59.7	46	eP	13 23 35.0	-0.8

1987 1 24

O=13 40 38.5 ± 0.10s  
 LAT=41.45 N ± 1.23km  
 LONG= 79.23 E ± 1.23km  
 DEPTH= 23 km ± 0.43km

STATIONS USED = 59, STAND DEV = 1.92s

Ms=4.6/ 7, ML=5.1/ 3,

KSH	3.2	232	Pn	13 41 33.0	5.1		
			Sg	13 42 19.5	1.1		
			SMN		ML=5.1	1.0	10.1
			SME			0.6	4.60
WMQ	6.7	66	Pn	13 42 20.0	4.1		
			Sg	13 44 12.6	4.7		
			SMN			3.0	4.86
			SME			3.0	5.76
LSA	15.2	137	eP	13 44 16.0	1.9		
GTA	15.8	91	eP	13 44 20.6	-1.1		
			LN		Ms=4.5	8.0	0.83
LZH	19.9	98	eP	13 45 12.0	0.3		
			PMZ			1.0	0.060
CD2	22.3	110	eP	13 45 38.0	1.3		
			S	13 49 33.0	-2.5		
XAN	24.5	98	+P	13 45 57.7	-0.3		
KMI	25.4	123	-P	13 46 07.0	0.5		
TIY	25.8	87	eP	13 46 09.8	0.0		
			sP	13 46 19.5	-1.1		
			eS	13 50 29.0	-6.6		
			ScP	13 53 19.0	3.0		
			LE		Ms=4.5	11.0	0.55
GYA	27.1	115	P	13 46 24.6	2.6		
BJI	27.9	81	eP	13 46 33.0	3.8		
WHN	30.2	100	-P	13 46 50.5	0.3		

1987 1 24

O=16 21 35.0 ± 0.05s  
 LAT=11.43 N ± 0.82km  
 LONG=125.56 E ± 1.25km  
 DEPTH= 78 km ± 0.11km

STATIONS USED = 34, STAND DEV = 0.92s

WHN	21.7	333	eP	16 26 22.0	1.0
GYA	23.2	313	P	16 26 38.0	1.5
XAN	27.2	329	+P	16 27 11.8	-1.5
SNY	30.3	357	-iP	16 27 42.0	0.3
GTA	36.0	325	+P	16 28 31.0	-0.2
WMQ	45.9	322	eP	16 29 52.8	1.0

1987 1 25

O=00 32 46.6 ± 0.09s  
 LAT= 2.91 S ± 1.23km  
 LONG=141.51 E ± 1.76km  
 DEPTH= 31 km ± 0.20km

STATIONS USED = 42, STAND DEV = 1.52s

WHN	42.2	324	eP	00 40 42.0	3.6
GYA	44.6	313	P	00 41 00.2	2.2
SNY	47.4	342	-iP	00 41 21.0	0.6
			S	00 48 15.0	4.1
XAN	47.9	323	P	00 41 24.0	-0.2
MDJ	48.5	349	eP	00 41 31.0	2.1
BJI	48.6	334	eP	00 41 29.0	-1.0
CN2	48.7	345	eP	00 41 30.0	-0.4
			eS	00 48 43.0	5.3
CD2	49.2	316	eP	00 41 34.6	-0.1
			eS	00 48 43.0	5.3
BTO	52.0	330	eP	00 41 55.0	-0.7
LZH	52.3	321	eP	00 41 59.0	0.6
GTA	56.9	322	+P	00 42 31.0	-0.8
LSA	58.0	308	P	00 42 39.0	-0.9
WMQ	66.9	321	P	00 43 37.9	-0.8
KSH	73.2	313	eP	00 44 19.0	1.6

1987 1 25

O=04 40 07.9 ± 0.13s  
 LAT=18.11 S ± 1.54km  
 LONG=178.12 W ± 1.84km  
 DEPTH=577 km ± 0.56km

STATIONS USED = 44, STAND DEV = 0.69s

NJ2	78.3	309	+P	04 51 11.4	0.7
MDJ	78.5	325	-P	04 51 12.0	0.0
CN2	80.3	322	-P	04 51 21.0	-0.6
			eP	04 51 25.0	0.4
WHN	80.9	306	eP	04 51 25.0	0.4
BJI	84.1	315	eP	04 51 40.5	0.0
GYA	85.4	300	P	04 51 47.0	0.2
TIY	85.6	312	eP	04 51 48.5	0.6
XAN	86.6	307	-P	04 51 53.2	0.6
LZH	91.2	308	eP	04 52 15.0	0.8
			PMZ		1.0 0.040
GTA	95.4	310	+P	04 52 32.8	-0.2

1987 1 25

O=05 14 43.2 ± 0.07s  
 LAT=40.84 N ± 0.93km  
 LONG= 93.47 E ± 0.64km  
 DEPTH= 13 km ± 0.17km

STATIONS USED = 5, STAND DEV = 2.65s

WMQ	5.2	307	eP	05 16 02.4	-0.6
CD2	12.9	137	-iP	05 17 50.0	0.0
XAN	14.0	114	eP	05 18 04.3	0.1



BJI	17.3	85	cP	05 18 44.5	-1.9		
<b>1987 1 25</b>							
O=06 10 57.0				$\pm 0.12s$			
LAT=41.55 N				$\pm 1.56km$			
LONG= 79.43 E				$\pm 1.66km$			
DEPTH= 32 km				$\pm 0.20km$			
STATIONS USED = 23, STAND DEV= 3.05s							
$M_s=4.2/ 2, M_L=4.2/ 5,$							
KSH	3.4	233	Pn	06 11 54.0	6.1		
			Sg	06 12 37.0	-5.7		
			LE		$M_s=4.3$	6.0	5.30
WMQ	6.5	67	ePn	06 12 35.0	4.0		
			Sg	06 14 26.0	5.1		
			SMN		$M_L=4.2$	1.0	0.13
			SME			0.8	0.13
LSA	15.2	138	cP	06 14 35.6	4.5		
TIY	25.6	88	cP	06 16 26.7	1.2		
			LN		$M_s=4.1$	11.0	0.19
<b>1987 1 25</b>							
O=09 48 21.4				$\pm 0.15s$			
LAT=35.27 N				$\pm 1.34km$			
LONG= 99.38 E				$\pm 1.10km$			
DEPTH= 16 km				$\pm 0.47km$			
STATIONS USED = 6, STAND DEV= 4.95s							
$M_L=3.3/ 2,$							
LZH	3.7	76	ePg	09 49 26.0	-1.4		
			Sg	09 50 16.0	-2.1		
			SMN		$M_L=3.7$	1.0	0.17
			SME			1.5	0.20
GTA	4.2	5	Pn	09 49 29.0	4.2		
<b>1987 1 25</b>							
O=10 31 23.6				$\pm 0.46s$			
LAT= 3.28 N				$\pm 9.00km$			
LONG= 79.33 W				$\pm 11.32km$			
DEPTH= 12 km				$\pm 2.17km$			
STATIONS USED = 55, STAND DEV= 3.26s							
$M_s=5.8/ 3,$							
CN2	128.1	337	PKP	10 50 35.0	3.9		
SNY	130.5	338	ePKP	10 50 42.0	6.4		
			LN		$M_s=5.6$	26.0	0.74
			LE			24.0	0.76
WMQ	131.7	13	PKP	10 50 39.5	1.5		
KSH	131.8	26	ePKP	10 50 41.5	3.3		
BJI	134.6	343	ePKP	10 50 44.0	0.7		
BTO	135.5	350	ePKP	10 50 50.0	4.9		
GTA	137.5	1	ePKP	10 50 43.0	-5.9		
			ePP	10 53 33.5	-3.9		

			LN		$M_s=5.8$	30.0	
TIY	137.8	346	ePKP	10 50 47.8	-1.5		
			LN		$M_s=5.8$	15.0	0.88
LZH	140.7	356	ePKP	10 50 53.0	-1.8		
NJ2	140.8	335	ePKP	10 50 55.5	0.7		
XAN	142.1	349	ePKP	10 50 53.0	-3.9		
WHN	143.9	340	ePKP	10 51 00.5	0.5		
CD2	145.9	355	ePKP	10 51 05.0	1.5		
LSA	146.0	15	PKP	10 51 04.3	0.2		
GYA	149.9	349	PKP	10 51 16.0	5.9		
KMI	151.7	356	ePKP	10 51 09.0	-4.0		
			pPKP	10 51 20.0	4.4		
			PKP <sub>2</sub>	10 51 27.5			
			PP	10 54 59.0	-2.1		

<b>1987 1 25</b>							
O=18 29 10.8				$\pm 0.11s$			
LAT=41.63 N				$\pm 0.98km$			
LONG= 79.15 E				$\pm 0.86km$			
DEPTH= 26 km				$\pm 0.52km$			
STATIONS USED = 7, STAND DEV= 3.40s							
$M_L=3.7/ 3,$							
KSH	3.3	229	ePg	18 30 08.4	-0.1		
			eSg	18 30 54.0	1.1		
WMQ	6.7	68	Pn	18 30 52.2	4.5		
			Pg	18 31 10.4	1.9		
			Sn	18 32 05.4	0.6		
			Sg	18 32 36.0	-3.7		
			SMN		$M_L=3.7$	0.8	0.040
GTA	15.9	91	eP	18 32 55.0	0.5		
			SMN			0.7	0.010
			SME			0.7	0.010

<b>1987 1 25</b>							
O=20 55 28.6				$\pm 0.12s$			
LAT=39.96 N				$\pm 1.20km$			
LONG=118.88 E				$\pm 1.06km$			
DEPTH= 18 km				$\pm 0.25km$			
STATIONS USED = 13, STAND DEV= 2.98s							
$M_L=3.1/ 11,$							
BJI	2.1	273	ePg	20 56 04.5	-1.0		
			eSg	20 56 32.5	-1.5		
			SMN		$M_L=2.5$	0.5	0.040
			SME			0.5	0.040
DL2	2.4	115	ePn	20 56 11.5	4.3		
			Pg	20 56 16.0	5.4		
			eSn	20 56 33.2	-4.5		
			eSg	20 56 39.5	-3.7		
			SMN		$M_L=2.8$	0.6	0.080
			SME			0.6	0.050



TIA	4.0	201	ePg	20 56 36.7	-2.5		
			eSg	20 57 29.7	-4.1		
			SMN	$M_L=2.7$	0.4	0.010	
			SME		0.4	0.020	
TIY	5.5	248	ePg	20 57 09.4	3.3		
CN2	6.2	50	ePg	20 57 23.0	4.3		
			eSg	20 58 42.0	-1.7		
			SMN	$M_L=3.4$	1.0	0.020	
			SME		1.0	0.030	

1987 1 25

O=20 56 38.3 ± 0.24s  
 LAT=25.04 N ± 2.23km  
 LONG= 99.43 E ± 1.27km  
 DEPTH= 10 km ± 0.76km  
 STATIONS USED = 16, STAND DEV = 2.98s  
 $M_s=3.9/1, M_L=3.8/4,$

KMI	3.0	88	ePn	20 57 30.0	3.3		
			Pg	20 57 38.0	6.6		
			Sn	20 58 07.0	2.5		
			SMN		2.0	1.50	
			SME		2.0	1.20	
			LN	$M_s=3.9$	8.0	3.40	
GYA	6.7	76	Pn	20 58 18.0	1.0		
CD2	7.0	32	ePn	20 58 22.8	1.6		
			Sn	20 59 45.2	2.1		
			SME	$M_L=3.8$	1.4	0.040	
XAN	12.2	40	eP	20 59 31.4	-3.9		
WHN	14.3	64	eP	21 00 04.5	1.3		

1987 1 25

O=22 49 11.8 ± 0.13s  
 LAT=41.49 N ± 1.43km  
 LONG= 79.23 E ± 1.39km  
 DEPTH= 26 km ± 0.31km  
 STATIONS USED = 23, STAND DEV = 2.67s  
 $M_s=3.8/1, M_L=4.1/5,$

KSH	3.2	232	ePg	22 50 11.0	2.2		
			Sg	22 50 50.0	-2.5		
			LE	$M_s=3.8$	11.0	3.00	
WMQ	6.7	67	ePn	22 50 50.4	1.7		
			Sn	22 52 05.0	-0.8		
			Sg	22 52 42.0	1.2		
			SMN	$M_L=4.0$	0.8	0.080	
GTA	15.8	91	eP	22 52 53.7	-1.0		

1987 1 25

O=23 45 23.5 ± 0.18s  
 LAT=41.42 N ± 1.59km  
 LONG= 79.44 E ± 1.40km

DEPTH= 30 km ± 0.75km  
 STATIONS USED = 8, STAND DEV = 4.39s  
 $M_L=3.6/5,$

KSH	3.3	235	ePg	23 46 21.5	-0.4		
			Sg	23 47 10.9	4.2		
			SME	$M_L=3.3$	0.6	0.10	
WMQ	6.6	66	Pn	23 47 02.6	4.2		
			Sn	23 48 15.5	1.5		
			Sg	23 48 46.0	-2.9		
			SMN	$M_L=3.6$	0.5	0.030	
GTA	15.7	91	eP	23 49 08.2	4.3		

1987 1 26

O=05 28 41.8 ± 0.08s  
 LAT=42.13 N ± 1.19km  
 LONG= 79.04 E ± 0.99km  
 DEPTH= 11 km ± 0.18km  
 STATIONS USED = 21, STAND DEV = 2.24s  
 $M_s=4.3/1, M_L=4.3/6,$

KSH	3.5	222	Pn	05 29 38.0	0.7		
			sP	05 29 42.0	-3.9		
			Sn	05 30 23.0	2.0		
			LE	$M_s=4.3$	6.0	4.60	
WMQ	6.6	72	ePn	05 30 20.4	1.4		
			Pg	05 30 39.7	1.8		
			Sn	05 31 35.2	-1.0		
			Sg	05 32 10.0	2.2		
			SMN	$M_L=4.1$	0.8	0.14	
			SME		0.8	0.080	
GTA	16.0	93	eP	05 32 24.1	-4.5		
TIY	25.9	89	eP	05 34 18.4	2.4		
GYA	27.5	116	eP	05 34 31.6	0.8		

1987 1 26

O=09 26 58.9 ± 0.10s  
 LAT=37.92 N ± 0.85km  
 LONG=100.98 E ± 0.94km  
 DEPTH= 17 km ± 0.28km  
 STATIONS USED = 6, STAND DEV = 4.12s  
 $M_L=2.6/3,$

GTA	1.7	329	+iPg	09 27 32.0	1.9		
			Sg	09 27 56.6	2.7		
			SMN	$M_L=2.6$	0.5	0.040	
			SME		0.6	0.070	
LZH	2.9	128	ePn	09 27 49.0	3.6		
LSA	11.6	228	eP	09 29 44.5	-2.6		

1987 1 26

O=11 11 40.9 ± 0.08s  
 LAT=36.06 N ± 1.37km



LONG = 1.32 E  $\pm$  2.02km  
 DEPTH = 8 km  $\pm$  0.26km  
 STATIONS USED = 44, STAND DEV = 1.22s

KSH	57.5	62	eP	11 21 33.0	-1.0
WMQ	63.8	54	P	11 22 16.5	-0.3
LSA	73.1	65	eP	11 23 13.0	-1.9
LZH	78.4	54	-iP	11 23 45.5	0.8
BTO	79.5	47	eP	11 23 51.0	0.2
TIY	82.8	48	eP	11 24 07.8	-0.2
XAN	82.9	53	P	11 24 08.8	0.1
BJI	83.5	45	eP	11 24 11.0	-0.3
CN2	85.7	37	eP	11 24 20.8	-1.8
GYA	86.1	60	+P	11 24 26.0	1.1

1987 1 26

O = 17 19 28.6  $\pm$  0.10s  
 LAT = 13.00 N  $\pm$  1.72km  
 LONG = 125.22 E  $\pm$  2.49km  
 DEPTH = 29 km  $\pm$  0.15km

STATIONS USED = 34, STAND DEV = 1.85s

TIA	24.2	344	eP	17 24 45.1	0.8
CD2	26.6	315	eP	17 25 08.0	0.9
BJI	28.1	345	eP	17 25 21.0	0.7
SNY	28.8	357	eP	17 25 24.7	-1.5
BTO	30.6	337	eP	17 25 42.0	-0.4
GTA	34.6	324	eP	17 26 16.2	-1.3
			PcP	17 28 51.3	0.1
LSA	35.6	303	eP	17 26 25.0	-1.9
WMQ	44.5	321	eP	17 27 41.0	1.6

1987 1 26

O = 21 52 39.3  $\pm$  0.15s  
 LAT = 14.81 N  $\pm$  3.75km  
 LONG = 54.56 E  $\pm$  2.35km  
 DEPTH = 10 km  $\pm$  0.35km

STATIONS USED = 14, STAND DEV = 2.92s

XAN	52.4	58	P	22 01 54.2	-0.8
BJI	59.0	52	eP	22 02 40.0	-1.9
CN2	66.1	48	eP	22 03 26.8	-3.0

1987 1 27

O = 00 25 17.2  $\pm$  0.06s  
 LAT = 41.93 N  $\pm$  1.73km  
 LONG = 142.68 E  $\pm$  1.28km  
 DEPTH = 70 km  $\pm$  1.06km

STATIONS USED = 76, STAND DEV = 1.32s

Ms = 4.3 / 7,

MDJ	9.9	290	eP	00 27 41.0	1.7
CN2	12.8	284	eP	00 28 18.0	0.1
			eS	00 30 42.0	3.0

SNY	14.2	276	eP	00 28 38.1	1.3
			LE	Ms = 4.0	32.0 1.21
DL2	16.3	266	P	00 29 04.7	1.3
BJI	20.1	273	-P	00 29 45.0	-2.7
			ePP	00 30 03.0	-6.6
			LN	Ms = 4.1	12.0 0.33
SSE	20.3	245	-P	00 29 50.8	0.5
			pP	00 30 03.5	-1.5
			sP	00 30 14.0	-0.2
			esS	00 33 44.0	-6.8
			LE	Ms = 4.5	18.0 1.14
TIA	20.6	262	eP	00 29 51.1	-2.1
			eS	00 33 32.5	-2.5
			LN	Ms = 4.3	12.0 0.55
NJ2	21.4	250	+P	00 30 00.0	-0.9
HHC	23.3	278	eP	00 30 18.8	-1.3
TIY	23.5	270	eP	00 30 21.2	-1.1
			LN	Ms = 4.4	19.0 0.74
BTO	24.5	278	eP	00 30 30.6	-1.1
WHN	25.4	253	eP	00 30 40.0	-0.1
XAN	27.6	265	P	00 31 01.0	0.4
			pP	00 31 17.6	1.1
LZH	30.5	272	-iP	00 31 26.5	-0.3
GTA	32.4	280	-P	00 31 43.3	0.6
CD2	32.9	263	P	00 31 46.6	-1.0
GYA	33.3	254	P	00 31 51.0	0.4
KMI	36.9	256	eP	00 32 23.0	1.4
WMQ	39.7	292	+P	00 32 46.0	1.2
KSH	49.5	291	eP	00 34 04.5	1.5

1987 1 27

O = 00 36 27.1  $\pm$  0.15s  
 LAT = 14.96 N  $\pm$  2.72km  
 LONG = 54.61 E  $\pm$  1.65km  
 DEPTH = 11 km  $\pm$  0.24km

STATIONS USED = 47, STAND DEV = 1.43s

Ms = 5.0 / 2,

m<sub>B</sub> = 5.5 / 1

GTA	46.4	49	eP	00 44 58.0	1.9
			LE	Ms = 5.0	22.0 1.07
CD2	47.6	62	eP	00 45 04.6	-0.9
LZH	48.6	55	eP	00 45 14.0	0.7
GYA	49.7	68	P	00 45 21.8	-0.3
XAN	52.3	58	P	00 45 40.8	-1.0
BTO	54.3	51	eP	00 45 57.0	0.8
HHC	55.5	51	eP	00 46 05.6	-0.6
TIY	55.6	54	eP	00 46 06.0	-0.2
			SMN	m <sub>B</sub> = 5.5	10.0 0.29
			SME		8.0 0.44
			LE	Ms = 5.0	19.0 0.74
WHN	56.6	63	eP	00 46 12.0	-1.3



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BJI	58.8	52	eP	00 46 28.5	-0.2
TIA	59.2	57	eP	00 46 31.4	-0.1
NJ2	60.5	61	+P	00 46 39.8	-0.6
SSE	62.5	63	eP	00 46 54.2	0.4
			eS	00 55 20.0	0.0
SNY	64.6	51	eP	00 47 06.0	-1.2
CN2	66.0	48	eP	00 47 16.0	-0.6
			pP	00 47 22.0	-0.3
			eS	00 56 02.0	-1.2

1987 1 27  
 O=00 38 47.5 ± 0.13s  
 LAT=41.31 N ± 1.65km  
 LONG= 79.87 E ± 1.36km  
 DEPTH= 30 km ± 0.24km  
 STATIONS USED = 8, STAND DEV = 2.43s

$M_L=4.0 / 4,$

KSH	3.5	239	Pn	00 39 40.0	-0.5
			Sn	00 40 22.0	-0.4
WMQ	6.3	64	ePn	00 40 20.4	1.5
			Pg	00 40 39.6	0.8
			Sn	00 41 33.8	2.2
			Sg	00 42 09.4	4.4
			SMN	$M_L=4.0$	1.5 0.11
			SME		1.2 0.060

1987 1 27  
 O=01 18 05.3 ± 0.03s  
 LAT=25.34 N ± 0.27km  
 LONG=100.10 E ± 0.27km  
 DEPTH= 11 km ± 0.21km  
 STATIONS USED = 6, STAND DEV = 1.60s

$M_L=3.3 / 4,$

KMI	2.4	95	ePn	01 18 46.5	1.2
GYA	6.0	78	Pn	01 19 35.8	0.9

1987 1 27  
 O=01 30 36.5 ± 0.08s  
 LAT=35.51 N ± 1.68km  
 LONG=140.71 E ± 1.65km  
 DEPTH= 54 km ± 0.97km  
 STATIONS USED = 68, STAND DEV = 1.55s

$M_S=4.7 / 12,$   $m_B=4.9 / 1$

MDJ	12.4	320	eP	01 33 35.3	1.8
CN2	14.4	310	eP	01 34 00.0	1.3
SSE	16.9	260	eP	01 34 30.0	-1.1
			eS	01 37 33.0	-2.3
			esS	01 37 46.0	-5.6
			SS	01 37 58.0	1.8
			LN	$M_S=4.9$	20.0 3.36

			LE		
NJ2	18.5	266	eP	01 34 49.0	-1.6
			LN	$M_S=4.8$	13.0 1.90
TIA	19.1	279	eP	01 34 56.8	-1.4
			sP	01 35 16.5	1.3
			eS	01 38 19.0	-6.4
			LN	$M_S=4.6$	13.0 0.79
			LE		13.0 0.99
BJI	19.9	290	eP	01 35 04.5	-2.0
			S	01 38 38.0	-3.4
			SMN	$m_B=4.9$	6.0 0.24
WHN	22.6	265	eP	01 35 35.5	1.4
			eS	01 39 40.0	6.8
			LN	$M_S=5.0$	13.0 0.90
			LE		15.0 2.38
TIY	22.8	284	eP	01 35 35.0	-0.7
			S	01 39 41.0	5.8
			LN	$M_S=4.7$	13.0 0.63
			LE		15.0 1.24
HHC	23.5	292	P	01 35 43.4	0.9
BTO	24.6	291	eP	01 35 53.4	-0.3
XAN	26.1	276	+P	01 36 07.8	0.2
			LN	$M_S=5.0$	14.0 1.36
			LE		16.0 1.43
LZH	29.8	282	+iP	01 36 41.0	-0.1
			PMZ		1.5 0.080
			LE	$M_S=4.7$	25.0 1.34
GYA	30.4	262	-P	01 36 46.2	-0.5
CD2	31.1	272	eP	01 36 52.2	-0.6
			eS	01 42 00.0	6.8
			LE	$M_S=5.5$	20.0 6.20
GTA	32.5	289	-P	01 37 05.8	0.9
			LE	$M_S=4.7$	22.0 1.17
KMI	34.2	263	+P	01 37 19.0	-0.6
			pP	01 37 35.0	2.7
WMQ	41.0	298	+P	01 38 19.0	2.2

1987 1 27  
 O=04 01 57.5 ± 0.15s  
 LAT=14.81 N ± 3.12km  
 LONG= 54.65 E ± 1.73km  
 DEPTH= 10 km ± 0.08km  
 STATIONS USED = 18, STAND DEV = 1.90s

GYA	49.7	68	P	04 10 51.6	-1.2
XAN	52.4	58	eP	04 11 11.1	-1.5
BJI	58.9	52	eP	04 11 59.0	-0.6
CN2	66.1	48	eP	04 12 46.0	-1.6

1987 1 27  
 O=06 48 02.2 ± 0.15s



LAT=41.27 N  $\pm$  0.81km  
 LONG= 79.26 E  $\pm$  1.54km  
 DEPTH= 25 km  $\pm$  0.11km  
 STATIONS USED = 6, STAND DEV = 3.48s

$M_L=3.8/5,$   
 WMQ 6.7 65 cPn 06 49 44.0 4.0  
 Pg 06 49 57.4 -3.6  
 Sn 06 50 56.4 -1.5  
 Sg 06 51 30.0 -3.1  
 SMN  $M_L=3.6$  0.8 0.030  
 SME 0.8 0.030

1987 1 27

O=07 06 50.6  $\pm$  0.26s  
 LAT=31.94 S  $\pm$  3.33km  
 LONG= 71.97 W  $\pm$  1.46km  
 DEPTH= 7 km  $\pm$  2.49km  
 STATIONS USED = 20, STAND DEV = 3.40s

 $M_s=5.4/1,$ 

WMQ 160.1 48 PKP 07 26 50.0 -1.7  
 LSA 165.3 94 -PKP 07 26 54.6 -2.7  
 BJI 169.6 323 ePKP 07 26 56.0 -3.7  
 GTA 170.0 40 PKP 07 26 58.4 -1.7  
 PKP<sub>2</sub> 07 28 13.8  
 LN  $M_s=5.4$  20.0 0.52  
 GYA 174.4 167 PKP 07 27 08.0 5.8  
 PP 07 32 29.0 0.4  
 LZH 174.6 39 ePKP 07 27 00.5 -1.8  
 PKP<sub>2</sub> 07 28 33.0  
 PP 07 32 24.0 -5.5  
 SKKS 07 39 09.0  
 XAN 177.8 341 ePKP 07 27 00.4 -2.5  
 PKP<sub>2</sub> 07 28 50.0

1987 1 27

O=07 27 30.4  $\pm$  0.11s  
 LAT=41.52 N  $\pm$  0.76km  
 LONG= 79.46 E  $\pm$  1.36km  
 DEPTH= 22 km  $\pm$  0.56km  
 STATIONS USED = 7, STAND DEV = 4.24s

 $M_L=3.5/5,$ 

KSH 3.4 233 cPg 07 28 30.5 0.5  
 Sg 07 29 15.5 -0.3  
 WMQ 6.5 67 cPn 07 29 08.6 3.2  
 Sn 07 30 21.9 1.0  
 Sg 07 30 57.8 3.9  
 SMN  $M_L=3.1$  0.8 0.010

1987 1 27

O=09 27 01.2  $\pm$  0.14s

LAT=10.72 N  $\pm$  2.88km  
 LONG= 56.95 E  $\pm$  1.46km  
 DEPTH= 10 km  $\pm$  0.22km  
 STATIONS USED = 49, STAND DEV = 1.29s

LSA 37.0 54 -P 09 34 13.5 -0.5  
 WMQ 42.4 33 cP 09 35 00.0 2.1  
 GTA 47.6 46 P 09 35 39.4 -0.1  
 CD2 47.7 58 P 09 35 39.5 -1.3  
 LZH 49.3 51 P 09 35 53.0 0.0  
 GYA 49.3 64 +P 09 35 52.6 -0.8  
 XAN 52.7 55 +P 09 36 18.1 -0.8  
 BTO 55.3 48 cP 09 36 38.0 0.1  
 TIY 56.3 52 -P 09 36 45.0 -0.5  
 WHN 56.6 61 -P 09 36 46.5 -0.8  
 BJI 59.7 50 cP 09 37 08.5 -0.5  
 TIA 59.7 54 cP 09 37 07.9 -1.3  
 NJ2 60.6 59 -P 09 37 14.3 -0.9  
 SSE 62.5 61 cP 09 37 27.2 -0.9  
 CN2 67.2 47 +P 09 37 57.0 -1.1  
 MDJ 70.2 46 cP 09 38 17.5 0.5

1987 1 27

O=15 26 20.8  $\pm$  0.07s  
 LAT=41.87 N  $\pm$  1.60km  
 LONG=143.57 E  $\pm$  0.94km  
 DEPTH= 46 km  $\pm$  1.02km  
 STATIONS USED = 41, STAND DEV = 1.51s

MDJ 10.6 290 eP 15 28 54.0 1.4  
 CN2 13.4 284 cP 15 29 31.0 -0.2  
 SNY 14.9 277 cP 15 29 49.8 -0.5  
 DL2 17.0 267 eP 15 30 15.3 -1.3  
 BJI 20.7 274 cP 15 30 57.0 -3.2  
 TIA 21.3 263 cP 15 31 03.1 -2.5  
 NJ2 22.0 252 eP 15 31 16.0 3.3  
 WHN 26.0 254 +P 15 31 52.6 0.8  
 XAN 28.3 265 cP 15 32 12.0 -0.4  
 LZH 31.2 273 cP 15 32 36.5 -2.1  
 GTA 33.0 281 +P 15 32 54.6 0.1  
 WMQ 40.3 292 P 15 33 56.3 0.2

1987 1 27

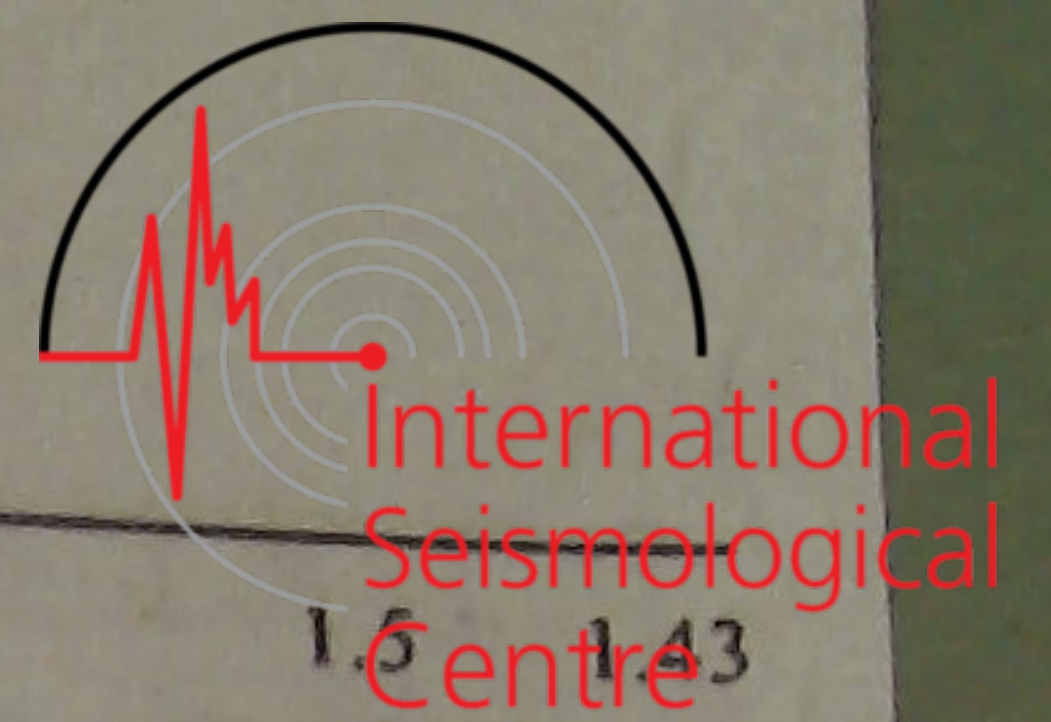
O=16 39 56.3  $\pm$  0.14s  
 LAT=32.98 N  $\pm$  1.83km  
 LONG=141.87 E  $\pm$  3.41km  
 DEPTH= 36 km  $\pm$  0.80km  
 STATIONS USED = 32, STAND DEV = 1.53s

 $M_s=4.3/1,$ 

MDJ 15.0 324 cP 16 43 32.5 4.3  
 BJI 21.8 296 cP 16 44 44.0 -3.2  
 WHN 23.5 272 cP 16 45 06.0 1.8



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TIY	24.4	289	eP	16 45 15.0	1.8		
			LE			Ms=4.3	12.0 0.35
BTO	26.5	296	eP	16 45 32.5	-0.5		
XAN	27.4	281	eP	16 45 40.2	-1.1		
CD2	32.3	277	P	16 46 23.4	-1.2		
GTA	34.3	293	+P	16 46 41.0	-1.1		
WMQ	43.1	301	eP	16 47 56.0	0.4		

1987 1 27

O=19 10 52.7 ± 0.10s  
 LAT=41.76 N ± 1.53km  
 LONG= 73.73 E ± 1.29km  
 DEPTH= 31 km ± 0.83km  
 STATIONS USED = 27, STAND DEV= 2.02s

ML=4.9 / 2,

KSH	2.9	143	-iPn	19 11 41.0	4.1		
			LE			4.0	9.60
LSA	18.5	125	eP	19 15 08.7	-0.7		
GTA	19.9	88	+P	19 15 24.3	-0.8		
LZH	24.0	94	eP	19 16 07.5	1.2		
CD2	26.4	105	eP	19 16 28.6	0.1		
GYA	31.0	109	P	19 17 09.6	-0.7		

1987 1 27

O=22 56 33.2 ± 0.15s  
 LAT=47.41 N ± 1.20km  
 LONG=129.14 E ± 1.19km  
 DEPTH= 21 km ± 0.55km  
 STATIONS USED = 9, STAND DEV= 3.62s

ML=3.0 / 9,

MDJ	2.8	173	ePn	22 57 18.0	0.6		
			Pg	22 57 23.0	0.2		
			Sn	22 57 47.5	-5.0		
			SME			ML=3.5	0.6 0.22
CN2	4.4	217	ePn	22 57 40.2	0.3		
			Pg	22 57 56.7	5.1		
			eSn	22 58 28.7	-4.2		
			eSg	22 58 49.6	-2.8		
			SMN			ML=3.1	0.6 0.030
			SME				0.6 0.030

1987 1 27

O=23 34 16.4 ± 0.09s  
 LAT=24.23 N ± 1.34km  
 LONG=122.81 E ± 1.25km  
 DEPTH= 57 km ± 0.73km  
 STATIONS USED = 68, STAND DEV= 1.74s

Ms=4.1 / 7, ML=4.5 / 9,

QZH	3.9	281	-iP	23 35 14.4	-1.2		
			S	23 35 57.0	-2.2		

			SMN			ML=4.5	1.5 1.43
			SME				1.4 0.71
			LN				3.0 3.05
SSE	7.0	348	+iP	23 35 57.6	-1.1		
			S	23 37 17.0	0.8		
			LN			Ms=4.1	12.0 1.20
			LE				6.0 0.99
NJ2	8.5	337	-P	23 36 18.5	-1.6		
			S	23 37 52.8	-1.8		
			LN			Ms=4.1	12.0 1.50
GZH	8.8	264	-P	23 36 22.6	-0.4		
			S	23 38 02.0	2.1		
			LN			Ms=4.8	5.0 2.24
			LE				5.0 0.97
WHN	9.8	312	eP	23 36 38.0	0.6		
			eS	23 38 25.5	-0.4		
			LN			Ms=4.3	8.0 1.06
TIA	12.9	339	eP	23 37 22.2	2.8		
			LN			Ms=4.0	18.0 0.47
			LE				10.0 0.46
QZN	13.1	249	eP	23 37 20.4	-1.7		
GYA	14.8	282	P	23 37 44.4	0.6		
			S	23 40 27.4	2.5		
XAN	15.6	312	eP	23 37 55.0	1.0		
TIY	16.1	329	eP	23 38 03.0	2.2		
			LN			Ms=4.0	12.0 0.35
CD2	18.1	296	eP	23 38 26.4	0.2		
KMI	18.3	277	eP	23 38 28.0	0.2		
HHC	19.1	333	eP	23 38 38.2	1.0		
BTO	19.5	330	eP	23 38 41.6	-0.7		
CN2	19.6	6	eP	23 38 43.0	-0.4		
LZH	20.2	310	P	23 38 50.0	0.8		
MDJ	21.1	14	eP	23 38 57.0	-1.3		
GTA	24.6	313	+P	23 39 32.5	-0.7		
LSA	28.7	288	-P	23 40 10.7	-0.3		
WMQ	34.7	313	eP	23 41 00.0	-3.2		

1987 1 28

O=00 01 39.5 ± 0.15s  
 LAT=41.44 N ± 1.35km  
 LONG= 79.21 E ± 1.65km  
 DEPTH= 29 km ± 0.70km  
 STATIONS USED = 31, STAND DEV= 2.57s

ML=4.3 / 5,

WMQ	6.7	66	ePn	00 03 19.4	2.8		
			Sn	00 04 31.8	-2.1		
			Sg	00 05 06.7	-2.9		
			SMN			ML=4.1	1.0 0.10
			SME				1.0 0.10
LSA	15.2	137	eP	00 05 18.1	3.6		



GTA	15.8	91	eP	00 05 22.4	0.2		
CD2	22.4	110	eP	00 06 39.4	2.4		
1987 1 28							
O=	00 03 38.3			± 0.16s			
LAT=	8.38 N			± 4.06km			
LONG=	58.66 E			± 2.69km			
DEPTH=	10 km			± 0.16km			
STATIONS USED = 30, STAND DEV = 2.17s							
Ms=4.8 / 1,							
LSA	37.1	51	eP	00 10 47.2	-4.5		
CD2	47.6	56	eP	00 12 11.6	-5.2		
GTA	48.0	43	eP	00 12 22.0	1.6		
			LE			Ms=4.8	22.0 0.73
XAN	52.7	53	eP	00 12 55.0	-0.9		
BTO	55.6	46	eP	00 13 17.6	0.1		
HHC	56.8	46	eP	00 13 27.2	1.1		
TIA	59.8	53	eP	00 13 46.9	0.5		
BJI	60.0	48	eP	00 13 48.0	0.3		
SNY	65.8	48	eP	00 14 27.2	0.6		
CN2	67.5	46	eP	00 14 38.0	0.4		
1987 1 28							
O=	00 08 52.6			± 0.07s			
LAT=	41.50 N			± 0.32km			
LONG=	79.29 E			± 0.81km			
DEPTH=	5 km			± 1.08km			
STATIONS USED = 5, STAND DEV = 3.50s							
ML=3.6 / 3,							
KSH	3.2	232	ePg	00 09 51.5	1.3		
			Sg	00 10 37.5	3.2		
1987 1 28							
O=	01 59 37.1			± 0.07s			
LAT=	28.32 N			± 0.67km			
LONG=	103.01 E			± 0.79km			
DEPTH=	15 km						
STATIONS USED = 15, STAND DEV = 2.40s							
ML=3.5 / 11,							
CD2	2.7	14	Pg	02 00 22.9	-1.4		
			Sg	02 01 02.8	2.2		
			SMN			ML=3.6	0.7 0.28
			SME				0.7 0.27
KMI	3.2	184	ePg	02 00 32.0	-1.8		
GYA	3.7	119	ePn	02 00 37.0	2.0		
			Pg	02 00 47.6	4.4		
			SMN			ML=3.3	1.0 0.080
			SME				1.0 0.070
XAN	7.6	40	ePn	02 01 29.0	0.7		
			Sn	02 02 55.0	-1.8		

						SMN	ML=3.7	1.0	0.020
						SME		1.0	0.030
1987 1 28									
O=	02 39 51.7			± 0.09s					
LAT=	1.85 S			± 1.80km					
LONG=	99.42 E			± 2.62km					
DEPTH=	34 km			± 0.55km					
STATIONS USED = 20, STAND DEV = 1.65s									
CD2	32.8	7	eP	02 46 23.8	-1.0				
XAN	36.8	13	+P	02 46 58.0	-0.7				
			pP	02 47 05.5	-2.5				
GTA	41.1	0	eP	02 47 32.2	-2.1				
BJI	44.4	18	eP	02 48 02.0	0.5				
WMQ	46.7	348	P	02 48 18.2	-1.2				
CN2	51.1	24	eP	02 48 52.6	-0.9				
			pP	02 49 00.0	-3.0				
MDJ	53.5	27	eP	02 49 12.5	0.8				
1987 1 28									
O=	04 59 10.8			± 0.09s					
LAT=	16.37 N			± 1.51km					
LONG=	122.37 E			± 1.88km					
DEPTH=	34 km			± 0.36km					
STATIONS USED = 17, STAND DEV = 1.90s									
QZN	12.2	284	eP	05 02 03.0	-2.6				
CD2	22.3	314	P	05 04 07.2	0.0				
TIY	23.0	339	eP	05 04 12.4	-1.5				
BJI	24.2	348	eP	05 04 24.5	-0.9				
1987 1 28									
O=	09 07 56.8			± 0.07s					
LAT=	9.02 N			± 0.91km					
LONG=	126.36 E			± 1.40km					
DEPTH=	49 km			± 0.47km					
STATIONS USED = 68, STAND DEV = 1.03s									
Ms=5.0 / 5,									
GZH	18.7	320	eP	09 12 15.2	0.9				
QZN	18.8	304	eP	09 12 16.4	0.9				
			eS	09 15 44.0	4.0				
			LN			Ms=5.2	17.0	5.50	
			LE				15.0	4.20	
SSE	22.5	348	+P	09 12 54.4	0.9				
			PMZ				1.0	0.070	
			pP	09 13 05.0	0.0				
			esS	09 17 12.0	0.6				
NJ2	24.0	344	+P	09 13 09.5	1.8				
WHN	24.2	334	eP	09 13 11.5	1.6				
			eS	09 17 28.0	6.4				
			LN			Ms=4.9	18.0	2.20	



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GYA	25.5	315	eP	09 13 23.0	0.4				
TIA	28.3	344	eP	09 13 47.6	-1.1				
XAN	29.6	330	P	09 13 57.6	-2.5				
DL2	30.1	353	-iP	09 14 04.5	0.6				
			eS	09 19 04.0	6.7				
			LE			Ms=5.0	10.0	1.15	
CD2	30.3	319	eP	09 14 05.2	-0.9				
BJI	32.2	345	-P	09 14 22.0	-0.8				
SNY	32.8	356	+iP	09 14 28.3	0.5				
CN2	34.7	359	+P	09 14 44.0	0.0				
MDJ	35.6	4	+iP	09 14 53.4	1.5				
GTA	38.5	326	P	09 15 15.6	-0.6				
			PcP	09 17 28.8	0.6				
WMQ	48.3	323	-P	09 16 35.5	0.1				
1987 1 28									
O=09 12 48.3				± 0.17s					
LAT= 1.23 S				± 2.48km					
LONG=129.73 E				± 2.84km					
DEPTH= 15 km				± 0.18km					
STATIONS USED = 81, STAND DEV= 2.12s									
Ms=5.4/ 35,				m <sub>B</sub> =5.5/ 5					
QZN	28.1	317	eP	09 18 42.8	1.2				
			PP	09 19 33.0	2.1				
			eS	09 23 24.0	-0.3				
			LN			Ms=5.4	12.0	2.00	
			LE				11.5	2.70	
QZH	28.2	338	eP	09 18 46.0	3.4				
			pP	09 18 52.0	3.3				
			LN			Ms=5.1	13.0	1.55	
			LE				14.0	1.18	
GZH	29.0	328	eP	09 18 48.0	-1.7				
			eS	09 23 36.0	-2.8				
			LN			Ms=5.4	18.0	4.23	
			LE				13.0	3.00	
SSE	33.2	347	eP	09 19 28.0	1.2				
			S	09 24 44.0	0.0				
			LN			Ms=5.4	22.0	4.38	
			LE				14.0	2.53	
NJ2	34.7	344	+P	09 19 42.0	2.2				
			S	09 25 11.0	3.6				
			LN			Ms=5.4	11.0	2.30	
WHN	34.8	336	eP	09 19 41.5	0.3				
			S	09 25 13.0	3.1				
			esS	09 25 24.0	2.8				
			LE			Ms=5.4	20.0	4.60	
GYA	35.4	323	P	09 19 46.4	0.2				
			pP	09 19 50.0	-2.3				
			PP	09 21 04.0	-1.3				
			S	09 25 17.0	-1.7				

									LN	Ms=5.3	15.0	2.50
									LE		16.0	1.50
KMI	37.0	317	-P	09 20 01.0	1.1							
			S	09 25 44.0	0.5							
			LN			Ms=5.2					14.0	1.70
TIA	39.1	344	eP	09 20 16.2	-0.7							
			PP	09 21 49.0	-1.0							
			eS	09 26 14.0	-1.6							
			SMN			m <sub>B</sub> =5.2					11.5	0.47
			SME								11.5	0.26
			LN			Ms=5.6					13.0	3.17
			LE								13.0	1.24
XAN	40.2	333	P	09 20 25.0	-1.1							
			pP	09 20 30.0	-2.3							
			PP	09 21 58.0	-4.1							
			S	09 26 28.0	-3.3							
			LN			Ms=5.2					13.0	1.16
			LE								14.0	1.01
CD2	40.4	324	eP	09 20 27.1	-0.9							
			PP	09 22 04.5	0.1							
			S	09 26 33.0	-1.7							
			LE			Ms=5.5					15.5	3.14
DL2	40.6	350	eP	09 20 31.5	1.7							
			PP	09 22 11.0	4.5							
			eS	09 26 40.0	0.8							
			LE			Ms=5.6					17.0	4.60
TIY	41.9	339	eP	09 20 38.7	-1.9							
			PP	09 22 20.0	-0.5							
			S	09 26 58.5	1.1							
			sS	09 27 10.0	1.2							
			SS	09 30 04.5	5.7							
			LE			Ms=5.4					20.0	3.01
BJI	42.9	345	eP	09 20 47.5	-1.0							
			epP	09 20 53.0	-1.9							
			ePP	09 22 29.0	-1.3							
			SMN			m <sub>B</sub> =5.4					7.0	0.27
			SME								7.0	0.29
			LN			Ms=5.2					15.0	1.56
SNY	43.2	353	+iP	09 20 54.2	3.1							
			sP	09 21 02.4	2.0							
			S	09 27 19.0	2.6							
			LN			Ms=5.5					20.0	3.70
			LE								24.0	2.17
LZH	44.3	330	eP	09 21 00.5	0.7							
			pP	09 21 07.0	1.1							
			PP	09 22 46.0	2.1							
			S	09 27 32.0	0.4							
CN2	45.0	356	eP	09 21 08.0	2.5							
			sP	09 21 16.0	1.3							
			eS	09 27 43.0	-0.2							







$M_L = 3.0 / 7,$

LZH	2.3	288	Pn	17 36 26.0	3.1		
			Sn	17 36 56.0	3.8		
			SMN	$M_L = 3.1$		1.0	0.11
			SME			1.0	0.12
XAN	2.4	124	Pn	17 36 21.8	-2.7		
			Pg	17 36 25.8	-2.2		
			Sg	17 36 55.6	-5.3		
			SMN	$M_L = 2.6$		0.4	0.030
			SME			0.4	0.040
TIY	5.3	62	cPg	17 37 22.4	3.4		
GTA	6.7	309	Pn	17 37 23.4	0.2		

			eS	23 35 40.0	0.5		
			LN	$M_s = 4.7$		14.0	0.59
			LE			20.0	0.84
CN2	31.3	328	-P	23 30 43.0	-1.0		
			pP	23 30 53.0	-4.7		
			PcP	23 33 36.0	0.1		
			eS	23 35 48.0	2.7		
TIA	32.2	309	eP	23 30 51.0	-0.1		
			eS	23 36 03.5	5.4		
			SMN	$m_B = 5.2$		8.0	0.31
			SME			8.0	0.35
			LN	$M_s = 4.8$		14.0	0.74
			LE			14.0	0.58

1987 1 28

O=20 14 36.1 ± 0.10s  
 LAT=61.31 S ± 0.89km  
 LONG=153.46 E ± 1.54km  
 DEPTH= 14 km ± 0.42km  
 STATIONS USED = 13, STAND DEV = 1.23s  
 $M_s = 5.5 / 1,$

SSE	95.7	333	eP	20 28 06.0	2.1		
			ePP	20 31 51.0	-5.8		
			SKS	20 38 42.0	4.8		
			SS	20 45 56.0	6.1		
			LN	$M_s = 5.5$		20.0	0.84
			LE			20.0	0.63

1987 1 28

O=23 24 26.4 ± 0.09s  
 LAT=18.59 N ± 1.51km  
 LONG=147.73 E ± 2.34km  
 DEPTH= 59 km ± 0.70km  
 STATIONS USED = 79, STAND DEV = 1.32s  
 $M_s = 4.8 / 10,$   $m_B = 5.2 / 4$

SSE	27.0	302	eP	23 30 05.4	-0.1		
			eS	23 34 38.0	1.3		
			sS	23 34 58.0	-2.6		
			LN	$M_s = 4.8$		16.0	0.70
			LE			16.0	1.09
QZH	27.8	288	eP	23 30 09.0	-3.0		
			eS	23 34 48.0	-0.3		
			sS	23 35 06.0	-6.3		
			LN	$M_s = 4.8$		20.0	1.24
			LE			14.0	0.55
NJ2	29.2	303	eP	23 30 25.5	0.2		
MDJ	30.1	334	-P	23 30 33.0	0.4		
			LE	$M_s = 5.4$		8.0	2.00
DL2	30.4	317	-P	23 30 40.0	4.6		
			LN	$M_s = 4.5$		13.0	0.46
SNY	31.0	324	+P	23 30 39.4	-1.3		

WHN	32.5	298	eP	23 30 54.5	0.6		
BJI	34.6	315	eP	23 31 11.0	-0.8		
			eS	23 36 38.0	2.7		
			SMN	$m_B = 5.2$		8.0	0.43
TIY	36.2	309	eP	23 31 26.0	0.1		
			eS	23 37 06.0	5.2		
			sS	23 37 19.0	-6.1		
			LN	$M_s = 4.9$		17.0	0.46
			LE			20.0	1.08
XAN	37.8	302	P	23 31 38.6	-0.6		
			eS	23 37 26.0	1.0		
HHC	38.1	313	+P	23 31 40.6	-0.9		
GYA	38.6	289	P	23 31 46.8	0.8		
			PcP	23 33 59.4	2.5		
BTO	39.0	312	P	23 31 50.0	0.4		
			pP	23 31 59.0	-4.7		
			S	23 37 49.0	6.1		
			LN	$M_s = 4.8$		16.0	0.50
			LE			16.0	0.60
CD2	41.5	296	eP	23 32 10.8	0.7		
			eS	23 38 23.0	1.8		
KMI	42.1	287	eP	23 32 14.5	-0.6		
			eS	23 38 35.0	4.9		
LZH	42.3	303	P	23 32 18.0	1.3		
			PMZ			2.0	0.070
			eS	23 38 33.0	0.1		
GTA	46.1	307	P	23 32 47.2	-0.3		
LSA	52.4	293	eP	23 33 35.5	-0.1		
WMQ	55.8	311	-P	23 34 01.2	0.5		
			PMZ			1.5	0.010
			eS	23 41 46.5	4.8		
			ScS	23 43 45.0	5.6		
KSH	64.5	305	eP	23 35 02.0	1.9		
			eS	23 43 39.0	6.0		

1987 1 29

O=02 06 16.0 ± 0.09s



LAT = 24.47 N ± 1.76km  
 LONG = 122.22 E ± 1.60km  
 DEPTH = 71 km ± 1.58km  
 STATIONS USED = 26, STAND DEV = 2.17s  
 Ms = 3.2 / 1,

QZH	3.3	279	+P	02 07 04.6	-2.6		
			S	02 07 45.6	0.1		
			SMN			0.2	0.18
			SME			0.4	0.18
SSE	6.7	352	P	02 07 53.0	-0.4		
			PMZ			0.8	0.050
			LN	Ms = 3.2		20.0	0.48
NJ2	8.1	339	eP	02 08 11.3	-2.1		
			eS	02 09 47.5	3.2		
			SMN			1.0	0.060
BJI	16.3	343	eP	02 10 06.0	3.6		
CD2	17.6	296	eP	02 10 18.9	1.3		
CN2	19.5	7	eP	02 10 38.0	-1.8		
LZH	19.6	310	eP	02 10 42.0	0.5		
GTA	24.1	314	eP	02 11 27.5	1.5		

1987 1 29  
 O = 02 43 47.0 ± 0.10s  
 LAT = 1.31 N ± 1.48km  
 LONG = 126.22 E ± 1.86km  
 DEPTH = 48 km ± 0.16km  
 STATIONS USED = 101, STAND DEV = 1.17s  
 Ms = 5.9 / 45, m<sub>B</sub> = 6.1 / 27

QZN	23.8	319	+P	02 48 58.0	1.2		
			sP	02 49 15.0	1.5		
			PP	02 49 34.0	3.6		
			S	02 53 07.0	1.8		
			SMN	m <sub>B</sub> = 6.4		10.0	8.00
			SME			11.0	8.10
			SS	02 53 57.0	0.3		
			LN	Ms = 5.9		13.0	12.4
			LE			12.0	11.0
QZH	24.6	343	+iP	02 49 05.0	0.5		
			sP	02 49 21.0	-0.3		
			iS	02 53 20.0	0.4		
			SS	02 54 19.0	2.3		
			LN	Ms = 5.5		16.0	7.40
GZH	25.0	331	+P	02 49 08.5	0.3		
			S	02 53 26.0	0.9		
			SMN	m <sub>B</sub> = 6.3		10.0	6.50
			SME			9.0	3.12
			LN	Ms = 5.7		15.0	12.8
			LE			28.0	7.03
SSE	30.0	351	+P	02 49 55.0	1.2		
			pP	02 50 09.0	3.4		

S	02 54 48.0	1.9					
SMN	m <sub>B</sub> = 6.0		12.0	3.68			
SME			12.0	1.91			
sS	02 55 08.0	0.8					
eSS	02 56 25.0	-0.1					
LN	Ms = 6.0		24.0	25.0			
LE			12.0	2.51			
WHN	31.2	340	eP	02 50 04.5	0.3		
			PMZ		1.0	0.15	
			sP	02 50 22.0	0.8		
			S	02 55 06.0	1.5		
			SMN	m <sub>B</sub> = 5.8		10.0	2.03
			SS	02 56 48.0	-4.2		
			LN	Ms = 5.8		17.0	8.96
			LE			16.0	8.02
GYA	31.3	325	P	02 50 05.4	0.1		
			pP	02 50 16.0	-0.8		
			sP	02 50 21.0	-1.1		
			PP	02 51 13.0	4.6		
			S	02 55 05.0	-1.2		
			SMN	m <sub>B</sub> = 6.4		9.0	2.20
			SME			9.0	7.10
			LN	Ms = 5.9		16.0	9.90
			LE			14.0	8.80
NJ2	31.4	348	+P	02 50 06.8	1.1		
			S	02 55 10.0	2.7		
			SMN	m <sub>B</sub> = 6.1		12.0	5.40
			ScP	02 56 39.5	4.0		
			LN	Ms = 5.9		12.5	9.20
KMI	32.8	318	-P	02 50 18.0	-0.4		
			pP	02 50 32.0	2.1		
			sP	02 50 38.0	2.9		
			PP	02 51 22.0	-5.8		
			sS	02 55 46.0	-4.8		
TIA	35.7	347	+P	02 50 43.3	-0.3		
			S	02 56 15.0	-0.3		
			SMN	m <sub>B</sub> = 6.3		11.0	6.80
			SME			11.0	1.95
CD2	36.3	326	P	02 50 47.5	-1.1		
			sP	02 51 03.2	-2.4		
			PP	02 52 06.5	-5.2		
			S	02 56 23.0	-1.3		
			PcS	02 57 00.5	2.1		
			LE	Ms = 6.1		9.2	10.3
XAN	36.4	335	-P	02 50 47.6	-1.3		
			sP	02 51 04.0	-2.0		
			PP	02 52 11.0	-1.2		
			PcP	02 53 17.0	4.9		
			S	02 56 18.0	-6.9		
			SMN	m <sub>B</sub> = 6.0		9.0	2.28



			SME		6.0	0.82			pP	02 51 45.5	-0.4		
			PcS	02 57 04.0	5.4				PP	02 53 17.0	3.2		
			ScS	03 01 00.0	2.1				S	02 57 49.0	2.5		
			LN	Ms=5.8	18.0	7.96			eScS	03 01 30.0	0.7		
			LE		15.0	3.20			LN	Ms=6.1	24.0	15.4	
DL2	37.6	354	eP	02 51 01.0	1.3				LE		25.0	15.1	
			sP	02 51 16.0	-0.9			CN2	42.3	359	+P	02 51 38.0	-0.3
			iS	02 56 46.0	0.5				PMZ	m <sub>B</sub> =6.4	5.0	2.90	
			LN	Ms=5.9	16.0	8.19			epP	02 51 50.0	-0.3		
			LE		15.0	5.99			ePP	02 53 22.0	2.6		
TIY	38.4	342	+P	02 51 06.0	0.1				eS	02 57 52.0	-3.4		
			sP	02 51 26.5	3.5				SMN	m <sub>B</sub> =6.1	8.0	2.50	
			S	02 56 54.0	-1.8				esS	02 58 14.0	-2.0		
			ScP	02 57 04.0	3.4				SS	03 00 55.0	-4.1		
			SS	02 59 41.0	3.6				ScS	03 01 32.0	-0.5		
			LN	Ms=5.9	17.5	4.90		MDJ	43.2	4	+iP	02 51 46.5	0.8
			LE		21.0	11.4			pP	02 51 58.0	0.1		
BJI	39.6	348	eP	02 51 16.0	0.0				sP	02 52 03.0	-0.1		
			PMZ	m <sub>B</sub> =5.9	7.0	1.52			PcP	02 53 36.0	2.0		
			ePcP	02 53 25.0	2.8				S	02 58 10.0	2.3		
			ScP	02 57 10.0	4.6				SMN	m <sub>B</sub> =6.2	10.0	4.20	
			eS	02 57 14.0	-1.3				SS	03 01 17.0	0.9		
			SMN	m <sub>B</sub> =6.0	12.0	3.63		LSA	43.7	314	-P	02 51 48.8	-1.2
			SS	03 00 03.0	-1.3				ScS	03 01 44.0	3.1		
			eScS	03 01 21.0	4.5				LE	Ms=6.0	11.0	7.31	
			LN	Ms=5.5	17.0	3.65		GTA	44.9	331	-iP	02 51 59.0	-0.6
LZH	40.3	332	P	02 51 22.0	-0.3				PcP	02 53 44.8	5.0		
			PMZ		1.4	0.95			S	02 58 26.0	-6.2		
			pP	02 51 35.0	0.9				ScS	03 01 54.0	5.3		
			sP	02 51 41.0	1.6				LN	Ms=6.1	26.0	13.6	
			PcS	02 57 16.0	2.3				LE		17.0	6.49	
			S	02 57 30.0	4.7			WMQ	54.4	326	-P	02 53 11.5	-0.7
			ScS	03 01 26.0	5.3				S	03 00 41.0	-3.2		
			LN	Ms=6.1	16.0	10.9			SMN	m <sub>B</sub> =5.9	9.0	1.46	
			LE		17.0	8.53			ScS	03 02 54.5	2.0		
SNY	40.4	357	+iP	02 51 23.0	0.4				SS	03 04 20.0	-6.0		
			pP	02 51 34.5	-0.1				LN	Ms=6.2	36.0	20.4	
			PcS	02 57 15.5	1.5				LE		24.0	10.8	
			S	02 57 28.0	1.8			KSH	59.4	316	+iP	02 53 48.0	0.5
			LN	Ms=6.0	24.0	14.9			sP	02 54 07.0	2.1		
			LE		21.0	8.60			iS	03 01 54.0	2.8		
HHC	41.5	343	+P	02 51 32.0	0.0				SME	m <sub>B</sub> =6.2	10.0	3.50	
			sP	02 51 50.0	0.8				sS	03 02 14.0	1.9		
			PcP	02 53 30.0	1.6				LN	Ms=6.2	22.0	14.0	
			PcS	02 57 23.3	4.9								
			S	02 57 43.0	0.0								
			ScS	03 01 34.0	6.2								
			LN	Ms=6.1	20.0	12.9							
			LE		18.0	7.36							
BTO	41.8	341	P	02 51 34.0	0.0								

1987 1 29  
 O=03 04 39.1 ± 0.11s  
 LAT= 6.25 S ± 1.08km  
 LONG=155.09 E ± 1.16km  
 DEPTH= 74 km ± 0.70km



STATIONS USED = 43, STAND DEV = 1.04s

QZN	51.2	300	-P	03 13 38.5	1.3
MDJ	55.6	338	eP	03 14 09.0	-0.9
CN2	56.6	335	eP	03 14 15.7	-1.1
GYA	57.1	307	eP	03 14 19.6	-1.1
BJI	58.4	325	eP	03 14 28.0	-1.5
XAN	59.2	316	P	03 14 35.0	-0.6
CD2	61.4	310	eP	03 14 50.2	-0.2
LZH	63.9	315	P	03 15 07.5	0.7
GTA	68.3	317	P	03 15 35.0	0.1
WMQ	78.3	317	eP	03 16 34.5	0.7
KSH	85.6	310	P	03 17 14.5	3.1

1987 1 29

O = 07 06 50.0 ± 0.05s

LAT = 35.73 N ± 0.37km

LONG = 80.85 E ± 0.66km

DEPTH = 31 km ± 0.81km

STATIONS USED = 6, STAND DEV = 4.97s

 $M_L = 4.3 / 3,$ 

KSH	5.4	315	Pn	07 08 10.5	2.0
			Pg	07 08 27.0	2.2
			eSn	07 09 17.5	6.6
			Sg	07 09 35.0	-3.3
			SMN	$M_L = 4.5$	0.6 0.50
			SME		0.8 0.50
WMQ	9.6	31	eP	07 09 04.0	-5.9

1987 1 29

O = 07 16 03.3 ± 0.51s

LAT = 24.57 N ± 4.00km

LONG = 97.51 E ± 2.59km

DEPTH = 15 km

STATIONS USED = 6, STAND DEV = 2.72s

 $M_L = 3.6 / 3,$ 

KMI	4.8	82	ePg	07 17 30.0	1.9
			Sg	07 18 29.0	-4.2
			SMN		2.0 0.50
			SME		1.5 0.30
GYA	8.5	75	eP	07 18 06.0	-3.0

1987 1 29

O = 11 30 50.4 ± 0.18s

LAT = 12.58 N ± 1.82km

LONG = 143.39 E ± 1.30km

DEPTH = 376 km ± 1.47km

STATIONS USED = 37, STAND DEV = 1.59s

QZN	32.9	286	P	11 36 53.2	0.6
BJI	36.4	324	eP	11 37 19.0	-3.1
GYA	37.1	297	P	11 37 29.4	0.9

TIY	37.3	318	-P	11 37 29.3	-0.4
XAN	37.9	310	P	11 37 34.2	-0.8
BTO	40.4	320	eP	11 37 55.2	-0.5
CD2	40.8	303	-iP	11 37 58.4	-0.3
LZH	42.5	310	eP	11 38 13.5	0.7
GTA	46.8	313	P	11 38 45.8	-0.3
			PcP	11 40 17.0	4.9
WMQ	56.8	314	eP	11 40 01.0	1.6

1987 1 29

O = 17 22 38.8 ± 0.28s

LAT = 29.47 S ± 3.56km

LONG = 71.42 W ± 5.58km

DEPTH = 50 km ± 2.52km

STATIONS USED = 34, STAND DEV = 2.88s

KSH	151.5	61	ePKP	17 42 29.0	7.1
			PP	17 46 06.0	-3.8
WMQ	158.0	44	ePKP	17 42 30.0	-0.8
			PKP <sub>2</sub>	17 43 06.0	
			PP	17 46 47.2	0.6
LSA	164.8	85	-PKP	17 42 37.7	-0.6
GTA	167.7	34	PKP	17 42 39.8	-0.4
QZN	169.5	187	ePKP	17 42 42.0	0.9
TIA	170.2	315	ePKP	17 42 41.5	0.0
LZH	172.3	30	ePKP	17 42 39.0	-3.9
KMI	173.2	128	ePKP	17 42 43.5	0.0
XAN	175.4	356	ePKP	17 42 43.2	-0.6
			ePP	17 48 13.5	-2.0
GYA	176.6	150	PKP	17 42 42.0	-2.2

1987 1 29

O = 20 17 57.7 ± 0.09s

LAT = 39.73 N ± 0.94km

LONG = 122.83 E ± 0.70km

DEPTH = 16 km ± 0.34km

STATIONS USED = 6, STAND DEV = 2.70s

 $M_L = 2.9 / 5,$ 

DL2	1.2	229	Pn	20 18 20.7	-0.3
			Pg	20 18 21.5	1.7
			Sg	20 18 39.0	2.0
			SMN	$M_L = 2.9$	0.4 0.21
			SME		0.4 0.16
SNY	2.2	15	ePg	20 18 37.2	1.1
			Sg	20 19 05.4	-0.4
			SMN	$M_L = 3.0$	0.4 0.10
			SME		0.4 0.10

1987 1 29

O = 23 14 50.9 ± 0.07s

LAT = 37.22 N ± 2.15km



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LONG = 141.53 E  $\pm$  1.60km  
 DEPTH = 68 km  $\pm$  1.43km  
 STATIONS USED = 26, STAND DEV = 1.85s

MDJ	11.7	313	eP	23 17 41.5	4.8
CN2	13.9	303	eP	23 18 08.0	2.0
BJI	20.0	286	eP	23 19 19.0	-1.7
XAN	26.6	273	P	23 20 25.2	-0.2
GYA	31.3	260	P	23 21 07.0	-0.7
GTA	32.6	287	eP	23 21 20.5	1.8
KMI	35.1	261	-P	23 21 40.0	-0.1
WMQ	40.8	297	eP	23 22 29.0	1.0
LSA	42.3	275	eP	23 22 41.0	0.7

1987 1 30

O = 03 00 18.1  $\pm$  0.04s  
 LAT = 41.01 N  $\pm$  0.29km  
 LONG = 129.14 E  $\pm$  0.39km  
 DEPTH = 17 km  $\pm$  0.63km  
 STATIONS USED = 7, STAND DEV = 1.62s

$M_L = 3.1 / 6,$

MDJ	3.6	5	Pn	03 01 15.2	1.3
			Pg	03 01 25.5	3.5
			Sn	03 01 57.0	-1.2
			Sg	03 02 11.0	-0.5
			SMN	$M_L = 3.4$	0.7 0.10
CN2	3.9	317	ePg	03 01 27.5	0.4
			eSn	03 01 59.0	-6.2
			eSg	03 02 18.5	-1.9
			SMN	$M_L = 2.9$	0.7 0.030
			SME		0.7 0.020
SNY	4.3	283	ePg	03 01 32.6	-0.8
			Sg	03 02 27.5	-4.1
			SMN	$M_L = 3.1$	1.0 0.040
			SME		1.0 0.030

1987 1 30

O = 06 10 21.5  $\pm$  0.06s  
 LAT = 30.57 N  $\pm$  0.45km  
 LONG = 116.79 E  $\pm$  0.53km  
 DEPTH = 8 km  $\pm$  0.14km  
 STATIONS USED = 5, STAND DEV = 2.07s

$M_L = 2.7 / 4,$

NJ2	2.3	50	ePg	06 11 02.2	-0.1
			Sg	06 11 31.6	-2.3
			SMN	$M_L = 2.9$	0.2 0.080

1987 1 30

O = 12 00 18.2  $\pm$  0.19s  
 LAT = 41.51 N  $\pm$  1.67km  
 LONG = 79.10 E  $\pm$  1.08km

DEPTH = 30 km  $\pm$  1.01km  
 STATIONS USED = 7, STAND DEV = 4.39s

$M_L = 3.5 / 5,$

KSH	3.1	230	ePg	12 01 14.0	0.0
			Sg	12 01 59.2	2.3
			SME	$M_L = 3.3$	0.5 0.10
WMQ	6.7	67	ePn	12 02 00.5	4.7
			Pg	12 02 21.6	4.2
			Sn	12 03 14.9	1.4
			Sg	12 03 50.4	0.7
			SMN	$M_L = 3.4$	1.2 0.020

1987 1 30

O = 12 16 39.1  $\pm$  0.06s  
 LAT = 31.93 N  $\pm$  0.54km  
 LONG = 103.50 E  $\pm$  0.82km  
 DEPTH = 14 km  $\pm$  0.31km  
 STATIONS USED = 6, STAND DEV = 2.45s

$M_L = 2.9 / 5,$

CD2	1.0	168	Pg	12 16 58.8	1.1
			Sg	12 17 09.2	-2.8
			SMN	$M_L = 2.7$	0.6 0.12
			SME		0.6 0.23
XAN	5.0	64	Pg	12 18 08.0	0.2
			Sn	12 18 50.0	-4.3
			Sg	12 19 12.5	-3.8
			SMN	$M_L = 2.9$	1.0 0.020
			SME		1.0 0.010

1987 1 30

O = 13 11 12.7  $\pm$  0.10s  
 LAT = 36.04 N  $\pm$  0.12km  
 LONG = 81.12 E  $\pm$  0.70km  
 DEPTH = 11 km  $\pm$  1.15km  
 STATIONS USED = 9, STAND DEV = 2.33s

$M_L = 4.3 / 5,$

KSH	5.3	311	ePn	13 12 34.7	2.2
			Pg	13 12 46.5	0.0
			Sn	13 13 37.0	1.3
			Sg	13 13 53.0	-6.1
			SMN	$M_L = 4.7$	0.5 0.90
			SME		0.6 0.80
WMQ	9.3	31	eP	13 13 30.8	1.3
			SMN		1.0 0.050

1987 1 30

O = 13 46 21.7  $\pm$  0.04s  
 LAT = 36.05 N  $\pm$  0.30km  
 LONG = 81.06 E  $\pm$  0.59km  
 DEPTH = 17 km  $\pm$  0.69km



STATIONS USED = 5, STAND DEV = 3.67s

$M_L = 4.2 / 2,$

KSH	5.3	312	ePn	13 47 42.0	1.7
			Pg	13 47 54.0	-0.8
			Sn	13 48 40.2	-2.4
			Sg	13 49 01.4	-5.4
WMQ	9.3	31	eP	13 48 39.3	1.2
			SME		1.4 0.020

1987 1 30

O=14 45 31.6 ± 0.05s  
 LAT=43.17 N ± 0.50km  
 LONG= 87.56 E ± 0.45km  
 DEPTH= 19 km ± 0.16km

STATIONS USED = 7, STAND DEV = 2.21s

$M_L = 3.6 / 5,$

WMQ	0.7	9	Pg	14 45 44.1	0.4
			Sg	14 45 52.5	-0.3
GTA	10.0	108	eP	14 47 55.7	-1.5

1987 1 30

O=17 34 39.0 ± 0.08s  
 LAT=37.99 N ± 0.72km  
 LONG=102.02 E ± 0.71km  
 DEPTH= 8 km ± 0.13km

STATIONS USED = 9, STAND DEV = 2.37s

$M_L = 3.2 / 7,$

GTA	2.2	310	-iPg	17 35 17.7	-1.1
			Sg	17 35 46.8	-2.4
			SMN	$M_L = 3.1$	0.5 0.12
			SME		0.5 0.11
LZH	2.4	142	Pn	17 35 20.0	0.9
			Sn	17 35 50.0	-0.2
			SMN	$M_L = 3.6$	1.0 0.41
			SME		1.0 0.36

1987 1 30

O=22 29 41.4 ± 0.32s  
 LAT=59.94 S ± 6.19km  
 LONG= 26.68 W ± 6.38km  
 DEPTH= 51 km ± 1.85km

STATIONS USED = 94, STAND DEV = 2.84s

$M_s = 7.1 / 20,$

$m_B = 6.8 / 8$

QZN	128.7	123	PKP	22 48 47.0	3.0
			PP	22 50 57.0	2.9
			PPMZ	$m_B = 6.4$	8.0 2.20
			SS	23 08 09.0	4.2
			LN	$M_s = 7.1$	16.0 13.5
			LE		17.0 17.5
LSA	129.1	98	-PKP	22 48 45.1	-0.1

			PP	22 50 59.0	2.5
			SKS	22 55 52.0	4.1
			LN	$M_s = 7.0$	18.0 10.0
			LE		18.0 15.2
KSH	129.2	77	+PKP	22 48 49.0	3.9
			PP	22 50 59.0	1.7
			SKS	22 55 55.0	6.8
KMI	130.9	112	-PKP	22 48 52.0	3.6
			PP	22 51 11.0	2.8
			SKKS	22 58 02.0	
GZH	133.8	125	+PKP	22 48 58.0	4.3
			ePP	22 51 21.0	-5.6
GYA	133.8	115	PKP	22 48 54.0	0.1
			PP	22 51 29.0	2.1
			LN	$M_s = 7.0$	18.0 14.4
			LE		18.0 8.60
CD2	136.2	109	ePKP	22 48 57.8	-0.4
			PKP <sub>2</sub>	22 49 03.0	
			LN	$M_s = 7.3$	22.0 28.2
			LE		18.0 21.7
QZH	137.6	130	+PKP	22 48 58.0	-2.6
			PP	22 51 52.0	2.0
			PPMZ	$m_B = 6.6$	8.0 2.92
			LN	$M_s = 7.1$	24.0 25.6
WMQ	138.3	82	ePKP	22 48 56.3	-5.7
			sPKP	22 49 09.8	
			PP	22 51 53.6	-1.2
			SKS	22 56 04.0	0.2
LZH	140.5	105	ePKP	22 49 03.5	-2.6
			PP	22 52 07.0	-1.0
			PPMZ	$m_B = 7.0$	12.0 10.0
			SKKS	22 58 54.0	
			LN	$M_s = 7.1$	17.0 18.4
			LE		15.0 3.04
WHN	140.8	121	-PKP	22 49 04.0	-2.4
			PP	22 52 13.5	4.0
			SKKS	22 59 00.0	
			LN	$M_s = 7.4$	19.0 40.1
			LE		19.0 19.3
GTA	141.1	97	-PKP	22 49 04.8	-2.4
			PP	22 52 14.0	2.4
			SKS	22 56 11.0	2.6
			LN	$M_s = 7.2$	22.0 24.5
			LE		17.0 15.6
XAN	141.3	112	ePKP	22 49 05.4	-2.0
			PP	22 52 12.0	-0.5
			SKS	22 56 13.0	4.3
			SKKS	22 58 56.0	
			SS	23 10 40.0	5.7
			LN	$M_s = 7.0$	18.0 10.9







HHC	87.6	314	+P	02 35 29.4	0.7
KMI	88.1	297	+P	02 35 32.5	1.1
CD2	89.4	303	eP	02 35 37.6	0.6
LZH	91.2	308	-P	02 35 45.0	-0.5
GTA	95.3	310	+P	02 36 04.0	-0.3

1987 1 31

O=02 24 49.8 ± 0.02s  
 LAT=59.84 S ± 1.01km  
 LONG= 26.63 W ± 0.53km  
 DEPTH= 29 km ± 0.16km  
 STATIONS USED = 6, STAND DEV= 0.86s

BJI	149.5	114	ePKP	02 44 32.0	-0.8
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1987 1 31

O=03 19 34.5 ± 0.19s  
 LAT=60.05 S ± 4.66km  
 LONG= 26.82 W ± 3.32km  
 DEPTH= 37 km ± 0.86km  
 STATIONS USED = 8, STAND DEV= 4.47s

TIA	146.8	120	ePKP	03 39 14.5	2.5
BJI	149.5	114	ePKP	03 39 22.5	6.2

1987 1 31

O=04 40 15.6 ± 0.19s  
 LAT=59.88 S ± 5.66km  
 LONG= 26.57 W ± 3.51km  
 DEPTH= 30 km ± 0.83km  
 STATIONS USED = 35, STAND DEV= 2.42s  
 Ms=5.3/ 1,

LSA	129.0	97	+PKP	04 59 22.8	0.4
GYA	133.8	115	PKP	04 59 31.6	0.5
WMQ	138.2	82	ePKP	04 59 36.7	-2.5
GTA	141.1	97	ePKP	04 59 40.0	-4.4
		LN		Ms=5.3	25.0 0.43
TIY	145.9	112	ePKP	04 59 53.0	0.4
TIA	146.8	119	ePKP	04 59 56.1	2.0
BTO	147.0	106	ePKP	04 59 57.0	2.4
BJI	149.5	114	ePKP	05 00 00.0	1.6
DL2	151.0	122	ePKP	05 00 06.7	6.0
MDJ	159.1	126	ePKP	05 00 11.5	-0.1

1987 1 31

O=06 26 17.6 ± 0.19s  
 LAT=17.94 S ± 2.45km  
 LONG=178.38 W ± 2.48km  
 DEPTH=592 km ± 0.83km  
 STATIONS USED = 54, STAND DEV= 0.90s

NJ2	78.0	309	+P	06 37 18.0	0.4
MDJ	78.2	325	+iP	06 37 19.3	0.3

DL2	79.6	317	P	06 37 26.6	0.3
CN2	80.1	322	+iP	06 37 28.6	0.0
WHN	80.6	306	eP	06 37 31.5	-0.1
TIA	81.3	312	eP	06 37 35.0	0.1
BJI	83.8	315	eP	06 37 48.0	0.4
GYA	85.1	300	+P	06 37 54.0	0.2
TIY	85.3	312	+iP	06 37 55.2	0.3
			PMZ		1.0 1.70
XAN	86.3	307	P	06 38 00.0	0.4
HHC	87.3	314	P	06 38 05.0	0.5
CD2	89.1	303	eP	06 38 13.6	0.8
LZH	90.9	308	+iP	06 38 22.0	0.7
			PMZ		1.5 0.060
GTA	95.1	310	-iP	06 38 40.0	-0.1

1987 1 31

O=08 43 44.3 ± 0.21s  
 LAT=59.91 S ± 7.48km  
 LONG= 26.47 W ± 6.90km  
 DEPTH= 30 km ± 0.47km  
 STATIONS USED = 37, STAND DEV= 3.63s

LSA	129.0	97	ePKP	09 02 48.4	-2.5
WMQ	138.2	82	ePKP	09 03 11.0	3.2
GTA	141.0	97	ePKP	09 03 06.8	-6.1
XAN	141.2	112	PKP	09 03 11.8	-1.4
TIY	145.8	112	ePKP	09 03 20.0	-1.2
TIA	146.7	119	ePKP	09 03 23.1	0.5
BTO	146.9	106	ePKP	09 03 26.0	2.9
HHC	147.9	107	-PKP	09 03 27.0	2.3
BJI	149.4	114	ePKP	09 03 29.0	2.0
DL2	150.9	122	ePKP	09 03 33.8	4.5
MDJ	159.0	126	ePKP	09 03 42.0	1.8

1987 1 31

O=13 17 41.5 ± 0.11s  
 LAT=34.20 N ± 2.57km  
 LONG=141.61 E ± 2.52km  
 DEPTH= 34 km ± 0.79km  
 STATIONS USED = 24, STAND DEV= 2.35s

XAN	27.0	279	eP	13 23 21.6	-1.1
GTA	33.6	291	eP	13 24 21.2	-0.5

1987 1 31

O=19 30 03.6 ± 0.18s  
 LAT=60.10 S ± 6.69km  
 LONG= 26.38 W ± 5.88km  
 DEPTH= 28 km ± 1.24km  
 STATIONS USED = 27, STAND DEV= 3.10s

LSA	128.9	97	ePKP	19 49 09.5	-0.9
WMQ	138.2	82	PKP	19 49 29.4	2.0



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GTA	140.9	97	ePKP	19 49 26.5	-6.0
XAN	141.1	112	ePKP	19 49 28.0	-4.6
NJ2	143.8	125	ePKP	19 49 34.0	-3.1
TIY	145.7	112	ePKP	19 49 39.0	-1.6
TIA	146.6	119	ePKP	19 49 41.8	-0.3
BTO	146.8	106	ePKP	19 49 42.8	0.2
BJI	149.3	114	ePKP	19 49 43.0	-3.4
DL2	150.8	122	ePKP	19 49 53.3	4.6

1987 1 31

O = 22° 02' 34.6" ± 0.26s

LAT = 14.18 N ± 3.09km

LONG = 123.12 E ± 4.24km

DEPTH = 51 km

STATIONS USED = 27, STAND DEV = 3.28s

GYA	19.7	311	P	22 07 03.2	0.9
TIA	22.6	347	eP	22 07 34.3	2.2
XAN	23.6	329	eP	22 07 38.4	-3.5
CD2	24.4	316	eP	22 07 46.8	-2.7
DL2	24.7	357	eP	22 07 53.8	1.6
TIY	25.3	340	eP	22 08 00.8	2.5
BJI	26.5	348	eP	22 08 12.5	3.3
BTO	28.7	339	eP	22 08 30.6	1.0