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中国地震台网观测报告

BULLETIN OF SEISMOLOGICAL OBSERVATIONS OF CHINESE STATIONS

1986

下册

国家地震局地球物理研究所编

地震出版社出版

International Seismological Centre

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Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
			1986 6 1				
			O = 00 06 24.4	**± 0.12s**			
			LAT = 49.52 N	**± 3.36km**			
			LONG = 156.05 E	**± 2.52km**			
			DEPTH = 37 km	**± 0.53km**			
			STATIONS USED = 25, STAND DEV = 2.04s				
MDJ	18.6	265	eP	00 10 38.5	−3.1		
SNY	23.8	264	eP	00 11 35.4	0.2		
WHN	36.6	255	(P)	00 13 28.0	−1.0		
GYA	44.2	257	P	00 14 30.6	−2.1		
			1986 6 1				
			O = 00 08 47.3	**± 0.15s**			
			LAT = 4.68 S	**± 2.05km**			
			LONG = 153.62 E	**± 3.84km**			
			DEPTH = 94 km	**± 2.46km**			
			STATIONS USED = 45, STAND DEV = 1.38s				
SSE	47.2	321	P	00 17 13.0	0.5		
			PMZ			1.2	0.040
NJ2	49.3	320	−P	00 17 30.0	1.1		
TIA	53.1	323	−P	00 17 57.2	−0.7		
MDJ	53.6	339	−P	00 18 02.0	0.5		
SNY	53.8	332	eP	00 18 02.2	−0.6		
CN2	54.5	335	+P	00 18 04.7	−3.6		
GYA	55.0	307	+P	00 18 12.0	0.3		
TIY	56.9	321	eP	00 18 25.0	−0.7		
XAN	57.1	316	P	00 18 26.0	−0.8		
CD2	59.3	310	+iP	00 18 52.6	11.4		
			PMZ			0.7	0.040
BTO	60.2	323	P	00 18 48.8	0.5		
LZH	61.7	315	eP	00 18 59.0	0.3		
GTA	66.1	317	+P	00 19 28.4	0.9		
WMQ	76.2	317	+iP	00 20 28.6	0.7		
			1986 6 1				
			O = 10 56 20.7	**± 0.17s**			
			LAT = 22.15 N	**± 2.31km**			
			LONG = 144.03 E	**± 2.47km**			
			DEPTH = 97 km	**± 0.72km**			
			STATIONS USED = 36, STAND DEV = 2.28s				
SSE	22.2	298	cP	11 01 10.0	−0.6		
			PMZ			1.0	0.030
			S	11 05 10.0	6.3		
			LN			12.0	0.30
NJ2	24.4	299	cP	11 01 33.0	1.2		
MDJ	25.4	335	cP	11 01 43.0	2.3		
SNY	26.1	324	+P	11 01 47.4	0.2		
CN2	26.5	329	eP	11 01 52.4	1.1		
TIA	27.2	307	eP	11 01 56.7	−1.3		
WHN	27.8	294	eP	11 02 02.5	−0.7		
BJI	29.6	313	eP	11 02 21.0	1.9		
XAN	33.0	299	eP	11 02 50.5	1.5		
LZH	37.5	301	eP	11 03 27.5	0.3		
WMQ	50.9	309	eP	11 05 14.5	−0.1		
			1986 6 1				
			O = 11 06 41.7	**± 0.10s**			
			LAT = 42.16 N	**± 0.75km**			
			LONG = 105.83 E	**± 0.86km**			
			DEPTH = 37 km	**± 1.63km**			
			STATIONS USED = 12, STAND DEV = 2.00s				
				M_L = 3.8 / 8,			
BTO	3.5	115	Pn	11 07 34.6	0.4		
			Pg	11 07 43.0	−1.0		
			Sn	11 08 17.6	1.9		
			Sg	11 08 28.0	−4.3		
			SMN	M_L = 3.5		0.5	0.16
			SME			0.5	0.12
HHC	4.5	105	Pn	11 07 46.0	−1.7		
			Pg	11 08 00.1	−1.3		
			Sn	11 08 41.0	0.9		
			Sg	11 08 54.6	−8.4		
			SMN	M_L = 4.0		0.8	0.24
			SME			0.8	0.28
GTA	5.3	241	Pn	11 07 59.2	0.0		
			Pg	11 08 15.5	−0.5		
			Sn	11 08 59.0	−1.7		
			Sg	11 09 24.3	−4.8		
LZH	6.3	195	ePg	11 08 32.0	−0.7		
			eSg	11 09 55.5	−2.6		
			SMN	M_L = 3.7		1.0	0.040
			SME			0.8	0.060
TIY	6.7	129	Pg	11 08 40.0	−1.1		
			Sg	11 10 04.6	−8.6		
			SMN	M_L = 3.7		1.2	0.050
			SME			0.8	0.020
BJI	8.1	102	ePg	11 09 06.0	1.2		
XAN	8.5	162	ePg	11 09 08.0	−3.5		
			Sg	11 11 07.2	0.1		
CD2	11.4	189	(P)	11 09 13.0	−11.4		
			1986 6 1				
			O = 12 51 39.7	**± 0.14s**			

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LAT = 18.02 S ± 3.42km
LONG = 174.04 W ± 3.12km
DEPTH = 33 km ± 0.18km
STATIONS USED = 23, STAND DEV = 2.34s

CN2	82.7	321	eP	13 04 04.0	1.8
SNY	82.8	318	eP	13 04 05.4	2.7
TIA	84.4	311	eP	13 04 08.4	−2.6
BJI	86.8	314	eP	13 04 20.0	−2.8
TIY	88.5	310	eP	13 04 30.0	−0.8
GYA	88.7	298	P	13 04 37.0	4.9
XAN	89.7	306	eP	13 04 34.0	−2.4

1986 6 1
O = 14 11 53.4 ± 0.08s
LAT = 43.35 N ± 1.33km
LONG = 96.43 E ± 1.02km
DEPTH = 16 km ± 1.22km
STATIONS USED = 6, STAND DEV = 3.77s
M_L = 3.8 / 6,

GTA	4.7	146	Pn	14 13 04.0	−0.1		
			Pg	14 13 20.3	4.2		
			Sn	14 13 55.1	−4.9		
			Sg	14 14 16.2	−3.9		
			SMN	M_L = 3.3		0.8	0.040
			SME			0.8	0.040
WMQ	6.4	277	ePn	14 13 31.8	4.7		
			Sg	14 15 07.0	−5.7		
			SMN	M_L = 3.7		0.8	0.050
			SME			0.8	0.040

1986 6 1
O = 15 23 40.1 ± 0.23s
LAT = 23.18 N ± 1.24km
LONG = 117.03 E ± 1.79km
DEPTH = 33 km ± 2.90km
STATIONS USED = 8, STAND DEV = 3.45s
M_L = 3.7 / 6,

QZH	2.3	39	ePn	15 24 12.3	−3.4		
			Sn	15 24 37.2	−6.7		
			SMN	M_L = 3.4		0.2	0.23
			SME			0.2	0.25
GZH	3.4	269	ePn	15 24 31.5	0.3		
			SMN	M_L = 3.7		0.9	0.29
			SME			0.9	0.15

1986 6 1
O = 18 37 47.9 ± 0.16s
LAT = 37.04 N ± 2.01km
LONG = 72.88 E ± 2.70km
DEPTH = 36 km ± 0.65km
STATIONS USED = 22, STAND DEV = 3.16s
Ms = 3.6 / 3,

KSH	3.4	44	Pn	18 38 44.9	5.5		
			Pg	18 38 47.9	−0.9		
			Sg	18 39 32.9	−3.1		
			LN			1.0	10.9
WMQ	13.2	54	eP	18 40 53.0	−2.2		
			LG_1	18 44 34.0	−7.2		
			LE			1.4	0.020
GTA	21.3	75	+P	18 42 32.9	−0.9		
			eS	18 46 24.8	1.5		
			LN	Ms = 4.0		16.0	0.35
XAN	29.4	85	eP	18 43 51.8	1.6		

1986 6 1
O = 20 14 17.2 ± 0.06s
LAT = 5.49 N ± 4.57km
LONG = 125.94 E ± 3.37km
DEPTH = 122 km ± 3.59km
STATIONS USED = 63, STAND DEV = 1.29s

QZH	20.6	341	eP	20 18 49.1	0.6		
GZH	21.3	326	+P	20 18 56.7	1.1		
			eS	20 22 50.0	9.9		
SSE	25.9	351	eP	20 19 40.0	0.6		
			eS	20 24 04.0	5.7		
			sS	20 24 50.0	6.6		
WHN	27.2	338	eP	20 19 51.0	−0.8		
NJ2	27.2	347	eP	20 19 52.0	−0.1		
GYA	27.8	321	P	20 19 58.6	1.1		
			pP	20 20 21.0	−2.1		
			PcP	20 23 11.4	1.3		
			S	20 24 33.6	4.4		
			ScP	20 26 42.6	4.5		
KMI	29.6	314	eP	20 20 14.0	0.5		
			PcP	20 23 15.5	0.9		
TIA	31.6	346	eP	20 20 30.7	−0.4		
XAN	32.5	333	+iP	20 20 37.6	−1.2		
CD2	32.8	323	eP	20 20 51.8	11.3		
DL2	33.5	354	eP	20 20 47.8	0.6		
TIY	34.4	341	eP	20 20 54.5	−0.2		
			sP	20 21 32.0	−3.9		
			(S)	20 26 17.0	4.2		
BJI	35.5	347	eP	20 21 04.0	−0.3		
			ScP	20 27 08.0	4.0		
			eS	20 26 25.0	−5.3		
			ScS	20 31 14.0	6.5		
SNY	36.2	357	+iP	20 21 11.4	0.8		
LZH	36.6	329	P	20 21 14.0	0.2		
			PMZ			1.2	0.050
HHC	37.5	342	−P	20 21 20.2	−1.0		

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BTO	37.8	340	eP	20 21 23.0	−0.5	
CN2	38.2	359	+P	20 21 26.4	−0.2	
MDJ	39.1	4	eP	20 21 37.5	3.0	
LSA	40.7	310	P	20 21 48.1	0.0	
GTA	41.2	329	+iP	20 21 51.9	0.1	
			PcP	20 23 49.0	0.4	
			ScP	20 27 29.0	3.4	
			ScS	20 31 43.4	3.2	
WMQ	50.8	325	−iP	20 23 07.7	−0.3	
			ScP	20 28 08.8	3.3	
KSH	56.2	315	P	20 23 49.0	1.4	

1986 6 1

O = 21 10 52.7 ± 0.14s
LAT = 28.49 N ± 2.41km
LONG = 140.97 E ± 2.78km
DEPTH = 35 km ± 0.66km
STATIONS USED = 47, STAND DEV = 2.56s
Ms = 4.5 / 13, m_B = 5.4 / 14

SSE	17.4	283	+P	21 14 54.0	−0.2		
			PMZ	m_B = 5.3		4.0	0.56
			eS	21 18 04.0	−0.6		
			sS	21 18 12.0	−5.0		
			LE	Ms = 4.3		8.0	0.47
MDJ	18.5	334	−P	21 15 04.0	−4.0		
			S	21 18 20.0	−9.1		
DL2	19.1	308	eP	21 15 14.0	−1.7		
			eS	21 18 40.0	−4.1		
			LN	Ms = 4.4		12.0	0.67
NJ2	19.4	286	+P	21 15 20.0	1.0		
			PMZ	m_B = 5.7		5.0	1.80
			S	21 18 56.0	5.8		
			LN	Ms = 5.1		10.0	2.90
SNY	19.4	318	eP	21 15 17.5	−1.6		
			eS	21 18 52.0	1.1		
			LN	Ms = 4.5		10.0	0.44
			LE			10.0	0.48
CN2	19.7	325	P	21 15 18.0	−4.2		
			PMZ	m_B = 5.1		4.0	0.40
			LN	Ms = 4.6		10.0	0.80
TIA	21.5	297	eP	21 15 38.4	−2.7		
			PMZ	m_B = 5.3		6.0	0.93
			eS	21 19 33.5	0.5		
			SME	m_B = 5.5		6.0	0.91
WHN	23.2	282	+P	21 15 59.0	1.0		
			PP	21 16 32.0	3.3		
			S	21 20 12.0	8.8		
			SMN	m_B = 5.4		8.0	0.92
			LN	Ms = 4.5		10.0	0.52
BJI	23.4	306	eP	21 16 00.0	0.1		
			PMZ			3.2	0.20
			eS	21 20 14.0	6.7		
			SMN	m_B = 5.3		7.0	0.60
			SME			10.0	0.60
GZH	25.4	264	+P	21 16 20.0	1.0		
TIY	25.5	298	+P	21 16 21.0	0.8		
			PMZ	m_B = 5.8		5.0	1.15
			S	21 20 48.5	6.2		
			SMN	m_B = 5.2		6.0	0.40
			LN	Ms = 4.4		10.0	0.29
			LE			11.0	0.27
HHC	27.0	305	P	21 16 32.0	−2.0		
			LE	Ms = 4.5		7.0	0.30
XAN	27.9	290	eP	21 16 40.1	−1.7		
			eS	21 21 30.0	8.6		
BTO	28.1	304	−P	21 16 44.0	0.5		
			eS	21 21 23.0	−1.5		
GYA	30.4	274	eP	21 17 04.0	−0.7		
			S	21 22 05.0	3.6		
LZH	32.1	293	eP	21 17 20.0	0.2		
			S	21 22 18.0	−9.9		
CD2	32.3	284	eP	21 17 30.6	9.4		
GTA	35.6	299	P	21 17 49.0	−0.2		
			PMZ	m_B = 5.5		5.0	0.42
			ePP	21 19 04.6	−4.6		
			eS	21 23 20.6	−1.6		
			LN	Ms = 4.4		10.0	0.22
WMQ	44.9	305	P	21 19 07.5	1.2		
KSH	54.0	300	eP	21 20 19.0	3.0		

1986 6 1

O = 21 46 06.1 ± 0.16s
LAT = 36.95 N ± 2.55km
LONG = 72.85 E ± 2.49km
DEPTH = 39 km ± 0.70km
STATIONS USED = 20, STAND DEV = 3.41s
M_L = 4.5 / 2,

KSH	3.5	44	P	21 47 05.3	5.3		
			SMN	M_L = 4.6		1.0	1.40
			SME			1.0	2.00
WMQ	13.2	54	e(P)	21 49 12.0	−2.2		
			LN			2.0	0.040
GTA	21.3	75	+P	21 50 51.8	−0.4		

1986 6 2

O = 01 31 09.4 ± 0.14s
LAT = 6.90 S ± 2.25km
LONG = 154.64 E ± 2.80km
DEPTH = 18 km ± 0.41km
STATIONS USED = 86, STAND DEV = 1.27s

Ms=5.5/33,				m_B=6.2/36			
QZH	47.3	313	−iP	01 39 44.5	0.5		
			PMZ	m_B=6.1		4.5	1.35
			PP	01 41 37.0	3.0		
			iS	01 46 34.5	−1.3		
			SS	01 50 04.0	8.4		
			LN	Ms=5.3		15.0	1.31
			LE			15.0	0.52
SSE	49.5	322	−P	01 40 20.0	19.0		
			PMZ			3.0	2.02
			PP	01 42 02.0	6.3		
			iS	01 47 08.0	0.4		
			SMN	m_B=6.3		6.0	1.50
			SME			6.0	1.88
			PS	01 47 16.0			
			sS	01 47 28.0	9.1		
			eSS	01 50 32.0	−2.6		
			LE	Ms=5.3		12.0	1.17
GZH	50.2	308	−P	01 40 07.4	0.7		
			S	01 47 21.0	5.2		
			SMN			22.0	3.68
			LN	Ms=5.6		18.0	3.82
NJ2	51.6	321	+P	01 40 19.0	1.4		
			PMZ			3.0	2.20
			iS	01 47 40.0	3.3		
			SMN	m_B=6.6		8.0	6.10
			SME			7.0	2.90
			LN	Ms=5.7		13.0	2.90
WHN	53.6	316	−P	01 40 33.0	0.4		
			PMZ			1.0	0.27
			PcP	01 41 32.0	−6.2		
			iS	01 48 07.0	2.9		
			SMN	m_B=6.4		7.0	3.19
			eSS	01 51 49.0	6.3		
			LE	Ms=5.7		22.0	4.80
DL2	54.9	329	P	01 40 41.0	−1.0		
			sP	01 40 55.0	3.1		
			S	01 48 21.0	0.8		
			LN	Ms=5.6		14.0	1.35
			LE			12.0	1.35
TIA	55.5	323	+P	01 40 45.1	−1.1		
			eS	01 48 23.0	−6.1		
			SMN	m_B=5.9		7.5	0.60
			SME			7.5	1.20
			ScS	01 50 32.8	2.6		
			LN	Ms=5.5		17.0	1.09
			LE			17.0	1.96
SNY	56.2	332	+iP	01 40 49.7	−1.6		
			PMZ	m_B=5.8		6.0	0.79
			PcP	01 41 51.0	2.9		
			S	01 48 32.0	−5.5		
			SMN			28.0	1.90
			SME			20.0	1.49
			ScS	01 50 30.5	−4.8		
			SS	01 52 18.0	−6.1		
			LN	Ms=5.9		42.0	10.4
			LE			42.0	9.80
CN2	57.0	335	+iP	01 40 55.2	−1.6		
			PMZ			2.5	0.70
			cPP	01 43 02.0	−2.1		
			ScP	01 45 49.5	1.3		
			S	01 48 44.0	−3.5		
			SMN	m_B=5.8		7.0	0.70
			SME			7.0	0.40
			ScS	01 50 41.0	0.2		
			LN	Ms=5.7		15.0	2.70
BJI	58.6	326	eP	01 41 07.5	−1.1		
			PMZ	m_B=5.9		5.0	0.76
			cS	01 49 10.0	−0.9		
			SMN	m_B=5.8		4.0	0.28
			SME			4.0	0.36
			esS	01 49 28.0	5.8		
			ScS	01 50 54.0	0.9		
			LN	Ms=5.2		19.0	1.23
TIY	59.3	322	+iP	01 41 13.4	0.1		
			PMZ			3.0	1.17
			S	01 49 16.0	−2.2		
			SME	m_B=5.9		6.0	0.99
			LN	Ms=5.6		18.0	1.81
			LE			17.0	2.00
XAN	59.4	316	−iP	01 41 13.2	−0.7		
			iS	01 49 20.5	−0.3		
			SMN	m_B=6.3		7.0	2.30
			SME			8.0	0.97
			LN	Ms=5.5		16.0	1.88
KMI	59.7	304	−P	01 41 16.0	0.0		
			PMZ	m_B=6.0		4.0	0.90
			S	01 49 19.0	−4.0		
			SMN	m_B=5.7		10.0	1.00
			SS	01 53 17.0	−2.8		
			LN	Ms=5.4		20.0	1.91
CD2	61.5	311	−iP	01 41 38.7	11.3		
			PcP	01 42 16.0	7.1		
			SMN	m_B=6.4		6.0	2.76
			LE	Ms=5.8		24.0	5.28
HHC	61.8	324	−iP	01 41 29.0	−1.5		
			S	01 49 49.0	−1.3		
			LN	Ms=5.6		18.0	1.88
			LE			18.0	1.84
BTO	62.6	323	+iP	01 41 36.5	1.0		

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			PMZ			3.0	1.40		
			iS	01 50 03.5	2.2				
			SMN	$m_B = 6.1$		8.0	1.30		
			SME			8.0	1.40		
			sS	01 50 22.0	9.6				
			LN	Ms = 5.5		14.0	1.20		
			LE			14.0	1.10		
LZH	64.0	316	−iP	01 41 45.5	0.5				
			PMZ			2.0	0.77		
			S	01 50 22.0	4.2				
			SMN	$m_B = 6.3$		6.0	1.88		
			SS	01 54 25.0	−2.8				
			LN	Ms = 5.3		20.0	0.71		
			LE			22.0	1.23		
GTA	68.4	317	−iP	01 42 13.8	0.5				
			PMZ	$m_B = 6.3$		4.0	1.53		
			iS	01 51 16.0	2.8				
			SMN	$m_B = 6.3$		7.0	1.70		
			SME			7.5	1.40		
			SS	01 55 46.0	9.4				
			LN	Ms = 5.3		12.0	0.66		
LSA	70.9	305	P	01 42 28.4	−0.5				
			S	01 51 43.0	2.1				
			SME			3.0	1.27		
WMQ	78.5	317	+P	01 43 12.5	0.2				
			PMZ			2.5	1.13		
			S	01 53 08.0	2.7				
			SMN	$m_B = 6.6$		6.0	2.67		
			LN	Ms = 5.5		13.0	0.90		
KSH	85.7	310	−iP	01 43 52.8	3.3				
			iS	01 54 23.8	3.6				
			SMN	$m_B = 6.6$		6.0	3.50		

1986 6 2
O = 03 56 23.4 ± 0.06s
LAT = 29.67 N ± 1.03km
LONG = 130.71 E ± 0.99km
DEPTH = 63 km ± 0.56km
STATIONS USED = 76, STAND DEV = 1.14s
Ms = 5.5 / 43, m_B = 5.7 / 25

SSE	8.3	282	+P	03 58 24.0	−0.3				
			PMZ	$m_B = 5.8$		4.0	1.12		
			pP	03 58 32.0	1.8				
			S	03 59 58.0	1.4				
			SMN	$m_B = 5.1$		8.0	1.69		
			SME			8.0	1.63		
			LN	Ms = 4.9		16.0	11.7		
NJ2	10.5	286	−P	03 58 52.5	−0.7				
			S	04 00 52.5	4.1				
			LE	Ms = 5.4		13.0	19.7		
QZH	11.8	249	eP	03 59 09.0	−1.7				
			PMZ	$m_B = 5.3$		6.0	0.31		
			SS	04 01 25.5	−9.7				
			LG_1	04 02 24.0	−8.7				
			LN	Ms = 5.1		20.0	6.22		
			LE			20.0	11.6		
DL2	11.9	323	P	03 59 14.0	1.6				
			PMZ	$m_B = 6.0$		4.0	1.10		
			PP	03 59 23.5	1.0				
			LN	Ms = 5.5		14.0	16.2		
			LE			14.0	15.9		
TIA	13.1	303	eP	03 59 29.2	0.1				
			PP	03 59 40.0	0.0				
			eS	04 01 56.0	2.7				
			eSS	04 02 10.0	0.4				
			LN	Ms = 5.5		12.5	4.87		
			LE			14.0	19.5		
SNY	13.4	336	+iP	03 59 33.5	0.5				
			PMZ	$m_B = 6.2$		6.0	2.13		
			pP	03 59 44.0	1.0				
			sP	03 59 53.0	1.6				
			PcP	04 04 56.0	−0.7				
			S	04 02 00.0	0.1				
			SMN	$m_B = 5.1$		9.0	0.90		
			SME			10.0	0.60		
			eScS	04 12 04.5	5.9				
			LN	Ms = 5.7		5.0	7.04		
			LE			5.0	8.66		
WHN	14.2	278	+P	03 59 42.0	−0.8				
			PMZ	$m_B = 5.9$		6.0	1.26		
			PP	03 59 55.0	0.4				
			SMN	$m_B = 5.3$		8.0	1.31		
			sS	04 02 42.0	7.0				
			LN	Ms = 5.2		12.0	7.95		
CN2	14.7	345	+P	03 59 50.0	0.3				
			PMZ	$m_B = 6.1$		4.0	1.30		
			cS	04 02 33.0	2.2				
			SS	04 02 48.0	−0.8				
			LN	Ms = 5.6		13.5	20.4		
MDJ	14.9	357	eP	03 59 53.2	0.5				
			pP	03 59 58.0	−5.1				
			SME	$m_B = 5.6$		10.0	3.50		
BJI	15.8	315	eP	04 00 03.0	−0.2				
			PMZ	$m_B = 5.2$		6.0	0.64		
			SMN	$m_B = 5.5$		9.0	0.82		
			SME			8.0	1.73		
			LN	Ms = 5.6		13.0	13.9		
			LE			12.0	10.4		
GZH	16.9	251	+P	04 00 16.5	−0.6				
			PP	04 00 31.0	−0.5				

			eS	04 03 18.0	−2.6		
			LE	Ms=5.2		18.0	7.63
TIY	17.2	303	+P	04 00 22.0	1.0		
			PMZ	m_B=5.8		6.0	3.05
			sP	04 00 34.5	−5.3		
			LN	Ms=4.2		4.0	0.19
XAN	19.0	289	P	04 00 40.1	−3.0		
			PMZ	m_B=5.8		8.0	3.67
			LN	Ms=5.6		12.0	8.49
			LE			12.6	6.24
HHC	19.2	311	P	04 00 45.0	0.2		
			PMZ	m_B=5.9		7.0	4.54
			S	04 04 20.0	8.7		
			LN	Ms=5.7		11.0	7.55
			LE			12.0	10.6
BTO	20.1	308	eP	04 00 55.3	0.6		
			eS	04 04 36.0	4.2		
			SS	04 05 05.0	3.4		
			LN	Ms=5.6		15.0	9.80
			LE			15.0	8.10
GYA	21.4	267	P	04 01 09.8	1.1		
			PcP	04 05 13.0	3.4		
			S	04 04 58.0	1.5		
			sS	04 05 14.0	−6.0		
			SS	04 05 30.0	−4.5		
			LE	Ms=5.5		14.0	8.30
CD2	23.3	280	−iP	04 01 26.2	−0.5		
			sP	04 01 50.0	2.4		
			sS	04 05 50.0	−4.5		
			LE	Ms=5.8		12.0	12.6
LZH	23.4	293	P	04 01 28.0	0.0		
			PMZ	m_B=5.5		4.0	0.89
			S	04 05 38.0	6.2		
			SME	m_B=5.7		10.0	1.76
			LN	Ms=5.8		16.0	4.96
			LE			14.0	15.8
KMI	25.2	266	eP	04 01 46.0	0.5		
			sS	04 06 22.0	−5.8		
			LE	Ms=5.6		16.0	9.56
GTA	27.1	299	P	04 02 02.7	−0.4		
			SME			22.0	2.97
			LE	Ms=5.5		13.0	5.87
LSA	34.3	280	P	04 03 07.0	0.7		
			LE	Ms=5.4		15.0	3.74
WMQ	36.8	305	P	04 03 28.0	0.2		
			eS	04 09 16.0	9.1		
			sS	04 09 30.0	−2.3		
			ScP	04 09 35.5	7.7		
			ScS	04 13 38.5	5.0		
			LN	Ms=5.7		16.0	5.94
			LE			20.0	4.84

1986 6 2
O=04 04 30.5 ± 0.20s
LAT= 7.03 S ± 3.76km
LONG=154.73 E ± 3.96km
DEPTH= 37 km ± 0.98km
STATIONS USED = 18, STAND DEV= 1.61s

WHN	53.8	316	P	04 13 51.5	−0.6
GYA	57.3	308	cP	04 14 30.6	14.0
XAN	59.5	316	P	04 14 31.3	−2.0
KMI	59.8	304	+P	04 14 36.5	1.1
CD2	61.6	311	(P)	04 14 57.4	10.7
LZH	64.2	316	cP	04 15 04.0	−0.3

1986 6 2
O=06 25 22.2 ± 0.43s
LAT=36.15 N ± 6.08km
LONG= 45.77 E ± 2.25km
DEPTH= 31 km ± 1.26km
STATIONS USED = 18, STAND DEV= 3.80s

WMQ	32.7	63	eP	06 31 48.5	−6.4
CD2	48.0	79	(P)	06 34 14.0	13.8
XAN	50.9	73	eP	06 34 26.6	3.6
GYA	52.2	83	eP	06 34 38.6	5.9

1986 6 2
O=08 13 18.0 ± 0.17s
LAT= 5.87 S ± 2.33km
LONG=154.63 E ± 4.12km
DEPTH= 72 km ± 1.32km
STATIONS USED = 43, STAND DEV= 1.99s

QZH	46.6	313	+P	08 21 41.7	1.0
NJ2	50.8	320	eP	08 22 07.0	−6.8
WHN	52.9	316	eP	08 22 30.0	0.7
TIA	54.7	323	eP	08 22 41.8	−0.5
CN2	56.0	335	+P	08 22 51.2	−1.0
GYA	56.5	307	P	08 22 56.0	0.4
BJI	57.8	326	(P)	08 23 00.0	−4.7
XAN	58.6	316	P	08 23 10.4	−0.3
KMI	59.1	304	+P	08 23 14.5	0.5
CD2	60.8	310	eP	08 23 36.2	11.4
LZH	63.3	315	eP	08 23 43.0	0.9
GTA	67.7	317	+P	08 24 10.8	0.4
WMQ	77.8	317	P	08 25 12.5	2.7

1986 6 2
O=14 21 33.8 ± 0.12s
LAT=23.92 N ± 1.86km
LONG=123.36 E ± 1.59km

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DEPTH = 38 km ± 0.78km
STATIONS USED = 77, STAND DEV = 1.79s
Ms = 5.1 / 37, M_L = 4.8 / 5, m_B = 5.1 / 8

QZH	4.5	284	+P	14 22 40.2	−0.8		
			S	14 23 30.7	−1.1		
			LG_1	14 23 47.3	−6.8		
			LG_2	14 23 57.2	−4.0		
			LN	Ms = 4.8		7.0	11.1
SSE	7.4	345	−P	14 23 21.5	−0.7		
			PMZ			1.0	0.20
			eS	14 24 45.0	−0.5		
			LG_2	14 25 37.5	−0.6		
			LN	Ms = 4.7		12.0	6.05
			LE			12.0	4.38
NJ2	9.0	335	−P	14 23 44.0	−0.7		
			S	14 25 25.5	−0.1		
			LG_1	14 26 20.0	2.7		
			LG_2	14 26 34.0	2.4		
			LN	Ms = 5.1		12.0	11.3
GZH	9.2	267	eP	14 23 46.6	−1.0		
			S	14 25 29.5	−1.3		
			LN	Ms = 4.8		13.0	5.37
			LE			13.0	3.71
WHN	10.4	311	eP	14 24 03.0	−0.4		
			S	14 26 03.0	4.0		
			LE	Ms = 5.0		11.0	6.57
TIA	13.4	338	P	14 24 46.7	2.9		
			PP	14 24 57.0	2.4		
			eS	14 27 10.0	−2.0		
			SS	14 27 26.0	−1.5		
			LN	Ms = 4.8		14.0	1.98
			LE			12.0	3.25
DL2	15.0	355	eP	14 25 07.0	1.8		
			S	14 28 00.0	9.9		
			LN	Ms = 5.0		13.0	3.85
			LE			13.0	2.72
GYA	15.3	283	+P	14 25 10.0	0.6		
			PP	14 25 25.0	3.7		
			S	14 27 58.0	0.5		
			LG_1	14 29 31.0	−4.3		
			LN	Ms = 5.3		8.0	5.00
			LE			8.0	1.90
XAN	16.1	312	eP	14 25 21.6	1.8		
			LE	Ms = 5.0		13.0	4.29
TIY	16.6	328	+P	14 25 28.0	2.1		
			PMZ	m_B = 5.5		5.5	1.24
			PP	14 25 46.0	6.5		
			eS	14 28 30.0	1.6		
			LG_2	14 30 38.5	−3.9		
			LN	Ms = 5.0		13.0	3.10
			LE			13.0	2.26
BJI	17.2	341	eP	14 25 34.0	1.3		
			PMZ	m_B = 5.0		6.0	0.43
			csP	14 25 47.0	1.0		
			cS	14 28 48.0	7.1		
			SME	m_B = 4.7		10.0	0.36
			LN	Ms = 5.0		13.0	3.39
			LE			13.0	0.90
SNY	17.9	1	+iP	14 25 40.5	−0.7		
			PMZ	m_B = 5.2		6.0	0.71
			pP	14 25 52.0	2.5		
			S	14 28 59.0	3.3		
			SME			23.0	1.38
			sS	14 29 14.0	4.4		
			SS	14 29 25.0	6.3		
			LN	Ms = 4.9		16.0	2.64
			LE			16.0	2.32
CD2	18.7	296	eP	14 26 02.7	11.1		
			LE	Ms = 5.2		12.0	4.26
KMI	18.8	278	+P	14 25 54.5	1.4		
			PMZ	m_B = 5.5		5.0	1.27
			eS	14 29 18.0	−0.1		
			sS	14 29 33.0	2.0		
			LE	Ms = 5.1		12.0	3.67
HHC	19.6	332	−iP	14 26 00.6	−1.0		
			S	14 29 40.6	6.4		
			LN	Ms = 5.1		12.0	2.86
			LE			14.0	1.84
CN2	19.9	4	−P	14 26 03.0	−2.2		
			S	14 29 31.5	−9.9		
			LN	Ms = 5.1		13.0	3.90
BTO	20.1	329	−iP	14 26 06.0	−0.9		
			PP	14 26 22.0	−4.1		
			eS	14 29 39.0	−6.4		
			LN	Ms = 5.1		15.0	3.70
			LE			15.0	2.40
LZH	20.8	310	+iP	14 26 14.0	−0.3		
			PMZ			2.0	0.81
			eS	14 30 04.0	4.9		
			LN	Ms = 5.1		11.0	1.88
			LE			14.0	2.50
MDJ	21.3	12	+iP	14 26 18.5	−0.7		
GTA	25.2	313	+P	14 26 56.5	−1.4		
			S	14 31 18.0	0.8		
			SME			18.0	1.20
			LE	Ms = 5.2		13.0	2.75
LSA	29.3	288	P	14 27 35.6	0.3		
			LE	Ms = 4.9		13.0	1.30
WMQ	35.3	313	P	14 28 26.5	−1.0		
			ScP	14 34 41.5	3.2		

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KSH	42.7	303	eP	14 29 31.0	1.6		
			eS	14 35 50.0	−0.1		
			LE	Ms=5.4		12.0	2.00

1986 6 2
O=14 47 10.8 ± 0.12s
LAT=15.14 S ± 0.96km
LONG=167.59 E ± 2.17km
DEPTH=145 km ± 0.44km
STATIONS USED = 36, STAND DEV= 1.00s

MDJ	68.8	332	eP	14 58 01.5	−0.3		
CN2	70.2	329	eP	14 58 09.2	−1.0		
GYA	72.2	305	+P	14 58 22.8	0.3		
BJI	72.8	321	eP	14 58 25.0	−0.8		
TIY	73.8	317	eP	14 58 32.0	0.3		
XAN	74.2	313	P	14 58 34.1	0.0		
KMI	74.8	302	+P	14 58 39.0	1.3		
LZH	78.8	312	eP	14 58 59.5	−0.6		
			PMZ			1.5	0.040
GTA	83.2	314	+iP	14 59 23.5	0.6		
WMQ	93.2	314	+P	15 00 11.0	0.1		

1986 6 2
O=15 16 16.7 ± 0.09s
LAT=40.98 N ± 2.46km
LONG= 47.75 E ± 1.06km
DEPTH= 33 km ± 0.11km
STATIONS USED = 19, STAND DEV= 1.57s

KSH	21.6	85	eP	15 21 06.4	0.5		
			eS	15 24 57.0	−1.5		
WMQ	29.4	71	P	15 22 18.5	−1.5		
GTA	39.3	75	P	15 23 44.8	−0.1		
LZH	43.5	78	eP	15 24 20.0	0.5		
XAN	48.2	78	eP	15 24 55.4	−0.8		
GYA	50.2	88	P	15 25 11.4	−0.7		

1986 6 2
O=16 22 23.8 ± 0.22s
LAT=42.05 N ± 0.84km
LONG= 79.04 E ± 1.91km
DEPTH= 7 km ± 0.19km
STATIONS USED = 11, STAND DEV= 2.78s
M_L=3.8/ 8,

KSH	3.5	223	Pn	16 23 22.4	3.5		
			Sg	16 24 05.0	−7.8		
			SMN	M_L=4.1		0.5	0.50
			SME			0.7	0.60
WMQ	6.6	72	ePn	16 24 05.0	3.3		
			SMN	M_L=3.6		0.6	0.030
			SME			0.8	0.040
GTA	16.0	93	eP	16 26 11.8	0.7		
			LN			1.2	0.010

1986 6 2
O=17 51 53.9 ± 0.10s
LAT= 9.05 N ± 1.44km
LONG= 93.50 E ± 1.64km
DEPTH= 80 km ± 0.10km
STATIONS USED = 90, STAND DEV= 1.22s
Ms=5.6/ 42, m_B=5.9/ 30

KMI	18.2	28	−iP	17 56 06.0	2.4		
			PMZ	m_B=6.2		4.0	4.50
			pP	17 56 18.0	−0.8		
			iPP	17 56 22.0	1.2		
			SMN	m_B=5.7		8.0	1.99
			sS	17 59 42.0	−3.4		
			LE	Ms=5.3		14.0	7.39
LSA	20.7	354	−iP	17 56 28.0	−2.0		
			S	18 00 06.0	−4.4		
			LE	Ms=6.0		5.0	10.8
GYA	21.3	34	+P	17 56 37.4	0.8		
			S	18 00 27.0	3.8		
			SMN	m_B=6.5		9.0	5.50
			SME			9.0	10.8
			PcP	18 00 40.0	1.9		
			sS	18 00 53.0	1.6		
			SS	18 01 03.0	0.2		
			ScP	18 04 05.0	−1.4		
			ScS	18 07 50.0	0.9		
			LN	Ms=5.7		14.0	6.70
			LE			14.0	12.4
GZH	23.6	51	+iP	17 57 00.0	1.6		
			PMZ	m_B=5.8		5.5	2.27
			sP	17 57 24.5	−1.6		
			S	18 01 08.0	4.9		
			SMN	m_B=6.2		10.0	3.58
			SME			8.0	3.62
			sS	18 01 44.0	10.0		
			LN	Ms=5.5		13.0	5.59
			LE			10.0	2.60
CD2	23.8	22	eP	17 57 11.7	12.1		
			S	18 01 15.0	9.0		
			SMN			3.0	4.50
			LE	Ms=5.6		12.0	7.71
LZH	28.5	18	−iP	17 57 44.3	−0.2		
			PMZ			1.2	0.060
			PP	17 58 40.0	1.4		
			S	18 02 20.0	−4.3		
			SME	m_B=5.7		7.0	1.52
			LN	Ms=5.4		8.5	1.97

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			LE			11.5	2.86
XAN	28.6	27	+P	17 57 44.7	−0.7		
			iS	18 02 21.0	−6.0		
			SMN	$m_B = 6.1$		6.0	1.22
			SME			6.0	3.27
			LN	Ms = 5.8		15.0	6.73
			LE			14.0	7.49
QZH	28.7	53	+iP	17 57 46.0	0.5		
			PMZ	$m_B = 5.8$		4.0	0.72
			epP	17 58 05.0	1.4		
			iS	18 02 28.0	0.8		
			SMN	$m_B = 5.6$		7.5	1.04
			SME			7.5	0.71
			SS	18 03 57.0	−1.2		
			LN	Ms = 5.5		16.0	6.19
WHN	28.9	39	eP	17 57 41.5	−6.4		
			PP	17 58 38.0	−5.8		
			S	18 02 30.0	−0.6		
			SME	$m_B = 5.7$		9.0	1.93
			LN	Ms = 5.6		16.0	7.98
GTA	30.8	10	−iP	17 58 04.1	−0.3		
			pP	17 58 26.1	3.6		
			iS	18 02 57.0	−3.8		
			SME	$m_B = 5.8$		8.5	2.32
			ScP	18 04 34.1	0.5		
			ScS	18 08 29.3	0.5		
			LN	Ms = 5.3		25.0	4.79
NJ2	32.8	42	+P	17 58 22.4	0.2		
			sP	17 58 49.0	−1.4		
			iS	18 03 32.0	−0.6		
			SMN	$m_B = 5.9$		9.0	2.80
			sS	18 04 03.0	−1.7		
			LN	Ms = 5.8		10.0	5.50
TIY	33.3	28	−P	17 58 26.0	−0.2		
			sP	17 58 52.0	−2.4		
			PP	17 59 43.0	3.7		
			S	18 03 35.5	−3.4		
			SMN	$m_B = 5.9$		6.0	1.03
			SME			7.0	1.86
			PcS	18 04 51.5	0.8		
			LN	Ms = 5.6		14.0	4.73
			LE			17.0	4.17
SSE	33.8	46	+P	17 58 32.0	1.0		
			PMZ	$m_B = 5.8$		4.0	0.56
			sP	17 58 55.0	−4.4		
			ScP	18 04 43.2	−1.0		
			iS	18 03 48.0	−0.7		
			SMN	$m_B = 5.9$		6.0	1.28
			SME			6.0	1.41
			sS	18 04 22.0	1.3		
			ScP	18 04 43.2	−1.0		
			SS	18 06 02.0	3.2		
			LN	Ms = 5.5		12.0	2.11
			LE			12.0	2.92
KSH	34.1	335	+iP	17 58 34.0	0.7		
			sP	17 59 00.0	−1.5		
			PP	17 59 50.0	1.1		
			iS	18 03 53.0	0.2		
			sS	18 04 23.0	−1.5		
			SS	18 06 03.0	−1.4		
			LN	Ms = 6.0		9.0	7.90
TIA	34.5	35	+P	17 58 36.8	−0.2		
			pP	17 58 54.8	−0.8		
			sP	17 59 04.4	−1.0		
			ePP	17 59 54.0	−0.8		
			S	18 03 55.0	−3.5		
			SMN	$m_B = 6.0$		6.0	0.76
			SME			9.0	3.01
			LN	Ms = 5.7		15.0	1.27
			LE			18.5	8.52
BTO	34.7	22	+iP	17 58 38.0	−0.3		
			pP	17 58 58.0	1.2		
			ePP	17 59 53.0	−3.6		
			iS	18 03 59.0	−2.8		
			SMN	$m_B = 5.8$		8.0	0.80
			SME			8.0	1.60
			LN	Ms = 5.6		13.0	4.10
			LE			14.0	2.40
WMQ	35.0	353	−iP	17 58 41.2	0.1		
			pP	17 58 59.4	−0.3		
			sP	17 59 06.5	−2.9		
			PP	18 00 02.0	1.7		
			S	18 04 04.5	−1.2		
			SMN	$m_B = 6.6$		5.0	7.31
			ScS	18 08 51.0	0.3		
			LN	Ms = 5.6		32.0	6.01
			LE			36.0	8.84
BJI	36.9	30	eP	17 58 57.5	0.6		
			epP	17 59 16.0	0.3		
			esP	17 59 24.0	−1.4		
			ePP	18 00 26.0	2.6		
			eS	18 04 33.0	−2.5		
			SMN	$m_B = 6.0$		7.0	1.36
			SME			9.0	2.39
			esS	18 05 08.0	0.1		
			eSS	18 07 02.0	−5.4		
			eScS	18 09 00.0	−1.1		
			LE	Ms = 5.4		18.0	3.69
DL2	39.0	36	eP	17 59 18.0	3.7		
			sP	17 59 40.0	−2.9		

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			S	18 05 15.0	8.7		
			LN	Ms=5.7		14.0	1.80
			LE			16.0	5.77
SNY	42.0	34	+iP	17 59 39.6	0.0		
			pP	17 59 58.0	−0.6		
			sP	18 00 06.0	−2.2		
			ePP	18 01 22.0	1.4		
			iS	18 05 51.0	−1.9		
			SMN	m_B=6.1		8.0	0.80
			SME			8.0	2.30
			sS	18 06 23.0	−2.7		
			SS	18 08 56.0	−1.2		
			ScS	18 09 31.4	0.2		
			LN	Ms=5.7		17.0	4.61
			LE			16.0	3.59
CN2	44.4	33	+P	17 59 58.5	−0.2		
			pP	18 00 17.0	−0.7		
			sP	18 00 26.0	−1.3		
			S	18 06 24.0	−2.0		
			SMN	m_B=6.4		7.0	2.20
			SME			7.0	3.60
			ScS	18 09 44.0	−1.6		
			LE	Ms=5.5		13.0	2.50
MDJ	47.2	35	eP	18 00 21.0	0.0		
			pP	18 00 39.8	−0.3		
			sP	18 00 48.0	−1.7		
			ScP	18 05 34.0	−2.2		
			iS	18 07 06.5	−0.7		
			SME	m_B=6.2		8.0	2.80

1986 6 2
O=19 03 59.4 ± 0.32s
LAT=31.97 N ± 5.37km
LONG= 50.17 E ± 2.78km
DEPTH= 57 km ± 0.79km
STATIONS USED = 43, STAND DEV= 1.87s
Ms=4.9/ 3,

KSH	22.2	63	eP	19 08 54.0	1.2		
			LN	Ms=5.4		12.0	5.80
WMQ	31.6	57	eP	19 10 19.0	−0.8		
GTA	40.6	65	+P	19 11 35.2	−0.5		
CD2	45.3	77	(P)	19 12 24.2	10.6		
KMI	46.3	85	−P	19 12 21.5	−0.7		
BTO	48.2	62	eP	19 12 37.0	0.1		
			eS	19 19 38.0	7.2		
XAN	48.7	71	eP	19 12 40.0	−0.9		
GYA	49.2	81	P	19 12 43.0	−1.2		
			S	19 19 49.0	6.2		
			ScS	19 22 34.0	7.4		
HHC	49.3	61	P	19 12 45.0	−0.4		
TIY	50.6	65	eP	19 12 55.0	−0.3		
			LN	Ms=4.7		13.0	0.32
BJI	52.9	62	(P)	19 13 11.0	−1.6		
WHN	54.1	73	eP	19 13 20.5	−1.1		
TIA	54.6	66	eP	19 13 24.2	−1.0		
NJ2	57.3	70	eP	19 13 43.0	−1.2		
CN2	58.7	55	eP	19 14 03.0	8.9		

1986 6 2
O=19 29 54.9 ± 0.07s
LAT=48.08 N ± 1.84km
LONG=146.01 E ± 1.27km
DEPTH=451 km ± 0.34km
STATIONS USED = 72, STAND DEV= 1.03s
m_B=4.7/ 5

MDJ	11.9	259	−iP	19 32 34.2	−0.1		
			sP	19 34 12.0	4.1		
			S	19 34 41.3	−0.1		
			ScS	19 44 02.0	−3.3		
			LN			1.2	1.67
CN2	14.9	261	−iP	19 33 05.5	−1.2		
			PMZ			14.0	0.80
			esP	19 34 52.0	2.1		
			eS	19 35 37.0	−4.4		
			SMN			2.5	2.00
			SME			2.5	0.90
SNY	17.0	257	−iP	19 33 28.2	0.2		
			S	19 36 19.0	−0.9		
			SMN	m_B=4.5		7.0	0.64
			SME			7.0	0.38
			ScS	19 44 15.0	−3.4		
DL2	19.9	251	+iP	19 33 56.0	0.4		
			S	19 37 00.0	−9.2		
BJI	22.8	260	eP	19 34 23.0	0.0		
			eS	19 37 56.0	−2.8		
			ScS	19 44 34.0	−4.0		
TIA	24.3	251	−P	19 34 36.8	−0.2		
HHC	25.5	266	−iP	19 34 46.0	−1.3		
			S	19 38 34.0	−7.2		
NJ2	26.0	242	+P	19 34 52.5	0.1		
			S	19 38 48.5	−1.9		
			SME	m_B=4.5		7.0	0.30
TIY	26.5	259	−P	19 34 57.5	1.0		
			PMZ			1.2	0.13
			S	19 38 57.0	−0.5		
			SMN	m_B=5.8		7.0	3.54
			SME			8.0	6.29
			ScS	19 44 52.0	−1.5		
BTO	26.6	267	+P	19 34 57.0	−0.6		
WHN	29.8	246	+P	19 35 25.3	−0.2		

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			S	19 39 46.0	−3.5		
			SME	m_B = 5.0		4.0	0.41
XAN	31.0	257	−iP	19 35 35.1	−0.3		
LZH	33.1	265	−iP	19 35 55.0	1.2		
			PMZ			1.5	0.40
			pP	19 37 23.0	8.0		
			S	19 40 39.0	−1.2		
GTA	34.0	273	−iP	19 36 02.2	0.6		
			PP	19 37 34.0	−1.3		
			PcP	19 38 27.1	0.0		
			S	19 40 53.6	−0.8		
			SMN	m_B = 4.7		6.0	0.24
			ScP	19 41 25.7	−2.2		
			ScS	19 45 28.7	−1.8		
CD2	36.3	257	eP	19 36 31.6	11.7		
GYA	37.5	249	−P	19 36 30.2	0.0		
			PMZ			1.2	0.13
			sP	19 38 50.0	6.5		
			ScP	19 41 40.0	−0.4		
			S	19 41 41.0	−5.2		
			ScS	19 45 46.0	−3.6		
WMQ	39.9	286	+iP	19 36 51.0	0.7		
			PMZ			1.0	0.11
			PP	19 38 36.5	1.9		
			ScP	19 41 47.5	−2.3		
			(S)	19 42 23.0	−0.6		
			ScS	19 46 01.3	−2.7		
KMI	40.9	252	−P	19 36 58.5	0.2		
			S	19 42 33.5	−3.0		
			sS	19 45 12.5	4.9		

1986 6 3

O = 00 54 43.9 ± 0.18s

LAT = 5.59 S ± 2.59km

LONG = 151.97 E ± 4.62km

DEPTH = 71 km ± 0.75km

STATIONS USED = 75, STAND DEV = 1.02s

Ms = 5.3 / 25, m_B = 5.8 / 3

QZH	44.4	314	+iP	01 02 50.0	0.0		
			PMZ			2.0	0.54
			PP	01 04 33.0	−2.3		
			S	01 09 22.0	3.6		
			sS	01 09 48.0	−1.2		
			LN	Ms = 5.2		18.0	1.35
			LE			18.0	1.28
SSE	46.9	323	+P	01 03 09.5	0.3		
			PMZ			1.5	0.11
			pP	01 03 22.0	−4.5		
			PcP	01 04 40.0	−0.9		
			cS	01 09 56.0	2.1		
			ScS	01 12 55.0	1.6		
			cSS	01 13 11.0	−2.5		
			LN	Ms = 5.4		18.0	2.05
			LE			18.0	1.52
GZH	47.3	309	+P	01 03 14.0	1.4		
			cS	01 10 03.0	3.0		
			LN	Ms = 5.5		20.0	2.31
			LE			20.0	2.08
NJ2	48.9	322	+P	01 03 26.0	0.6		
			pP	01 03 38.0	−4.8		
			S	01 10 26.0	3.8		
			sS	01 10 49.0	−4.5		
			LN	Ms = 4.9		20.0	0.70
			LE			19.0	0.30
WHN	50.9	317	+P	01 03 40.5	0.4		
			pP	01 03 54.0	−3.6		
			PcP	01 04 56.0	0.6		
			cS	01 10 54.0	4.2		
			sS	01 11 14.0	−6.2		
			LE	Ms = 5.5		21.0	3.13
DL2	52.4	330	eP	01 04 02.4	11.1		
TIA	52.9	325	+P	01 03 54.0	−1.2		
			PcP	01 05 04.0	1.2		
			cS	01 11 14.0	−3.4		
			LE	Ms = 5.5		20.0	2.63
SNY	53.8	334	eP	01 04 00.0	−2.3		
			cS	01 11 33.5	3.1		
			LN	Ms = 5.3		27.0	1.79
			LE			30.0	1.45
MDJ	53.9	340	+P	01 04 01.0	−1.6		
			PcP	01 05 07.2	0.6		
			ScP	01 09 02.5	6.0		
			S	01 11 28.0	−1.8		
			SMN			20.0	1.31
GYA	54.2	308	P	01 04 04.6	−0.7		
			S	01 11 40.0	5.4		
			sS	01 12 02.0	−4.2		
			LE	Ms = 4.3		18.0	0.14
CN2	54.7	337	+P	01 04 06.5	−2.0		
			PMZ	m_B = 5.6		4.0	0.30
			PcP	01 05 09.0	−0.7		
			ScP	01 09 05.0	4.9		
			LE	Ms = 5.2		16.0	1.10
BJI	56.1	327	eP	01 04 17.0	−1.7		
			PcP	01 05 16.0	0.9		
			ScP	01 09 11.0	4.7		
			ScS	01 14 03.0	6.3		
			LN	Ms = 5.2		20.0	1.20
XAN	56.6	317	+P	01 04 21.8	−0.8		
			PcP	01 05 17.5	0.3		

			sS	01 12 40.0	1.5		
			LN	Ms = 5.4		19.0	1.38
			LE			19.0	1.54
TIY	56.6	323	+P	01 04 22.0	−0.7		
			S	01 12 10.5	3.7		
			SMN			13.0	3.15
KMI	56.7	305	+P	01 04 23.5	−0.2		
			PMZ	m_B = 5.8		4.0	0.50
			pP	01 04 37.0	−4.2		
			PP	01 06 30.0	−1.2		
			eS	01 12 05.0	−4.8		
			LE	Ms = 5.3		20.0	1.44
CD2	58.6	311	eP	01 04 46.9	11.0		
			pP	01 04 59.0	4.6		
			LE	Ms = 5.6		22.0	3.56
HHC	59.2	325	+P	01 04 39.9	−0.8		
			S	01 12 38.0	−2.3		
			LN	Ms = 5.6		20.0	2.49
			LE			20.0	1.95
BTO	59.9	324	−iP	01 04 45.0	−0.8		
			eS	01 12 52.0	0.8		
			LN	Ms = 5.6		20.0	1.80
			LE			20.0	1.80
LZH	61.2	317	+iP	01 04 54.0	−0.6		
			PMZ			2.0	0.17
			eS	01 13 10.0	2.2		
			LE	Ms = 5.2		20.0	1.04
GTA	65.7	318	+iP	01 05 23.4	−0.4		
			eS	01 13 59.5	−3.7		
			LE	Ms = 5.3		18.0	1.09
LSA	68.0	305	P	01 05 38.2	−0.6		
			PcP	01 06 04.0	0.6		
			iS	01 14 35.0	3.1		
WMQ	75.8	318	+P	01 06 24.5	−0.1		
			PMZ			2.0	0.21
			pP	01 06 36.0	−7.0		
			eS	01 16 02.0	1.9		
			sS	01 16 30.0	−1.8		
KSH	82.8	311	+iP	01 07 04.0	1.2		
			pP	01 07 17.0	−4.3		
			iS	01 17 22.0	7.5		
			PS	01 18 22.0			

1986 6 3

O = 02 35 08.2 ± 0.12s

LAT = 38.39 N ± 1.73km

LONG = 104.20 E ± 1.37km

DEPTH = 18 km ± 0.20km

STATIONS USED = 60, STAND DEV = 3.13s

Ms = 4.2 / 14, M_L = 4.9 / 10,

LZH	2.3	187	Pn	02 35 50.0	3.8		
			Pg	02 35 53.0	3.8		
			Sn	02 36 19.0	3.1		
			Sg	02 36 24.0	3.0		
			SMN	M_L = 5.4		1.0	13.8
			SME			1.0	34.8
GTA	3.6	288	+iPn	02 36 04.1	0.7		
			Sn	02 36 46.0	−0.8		
			SMN	M_L = 5.0		1.8	3.78
BTO	5.0	62	ePn	02 36 30.0	6.8		
			Pg	02 36 39.0	2.3		
			cSn	02 37 22.5	−0.1		
			Sg	02 37 42.0	−3.3		
			LN	Ms = 3.8		20.0	2.10
			LE			20.0	1.80
XAN	5.8	137	iPn	02 36 35.4	1.7		
			Pg	02 36 58.4	8.1		
			Sg	02 38 11.4	2.0		
			SMN	M_L = 4.7		1.2	0.67
			SME			1.2	0.46
			LN	Ms = 4.2		9.0	1.87
			LE			9.0	1.83
HHC	6.2	64	Pn	02 36 41.9	2.5		
			Pg	02 36 58.8	1.2		
			Sg	02 38 17.8	−4.5		
			SMN	M_L = 4.9		0.6	0.76
			SME			0.6	0.74
TIY	6.5	93	ePn	02 36 47.0	2.9		
			Pg	02 37 11.3	7.7		
			Sg	02 38 30.0	−3.0		
			SMN			3.0	4.79
			SME			2.0	1.45
CD2	7.5	183	P*	02 37 18.8	7.1		
			Sg	02 38 55.0	−7.4		
			LE	Ms = 4.7		10.0	5.70
BJI	9.4	76	(P)	02 37 21.0	−5.6		
			eLG_1	02 40 01.0	−3.8		
			LN	Ms = 4.3		12.0	2.02
TIA	10.5	98	eP	02 37 40.7	−0.9		
			eLG_1	02 40 37.5	−1.3		
			LN	Ms = 3.8		9.0	0.40
WHN	11.5	130	P	02 37 52.2	−2.2		
			LN	Ms = 4.2		8.0	0.71
GYA	12.1	169	P	02 38 00.2	−2.7		
			S	02 40 13.6	−4.1		
			LG_1	02 41 22.0	−5.6		
			LG_2	02 41 43.0	−3.8		
			LE	Ms = 4.5		9.0	1.60
KMI	13.3	186	eP	02 38 18.0	−1.2		
			eS	02 40 40.0	−7.7		

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			LE	Ms=3.7		10.0	0.21
WMQ	13.6	299	eP	02 38 19.6	−3.1		
			LG_1	02 42 10.0	−4.4		
			LN			1.0	0.12
			LE			1.0	0.14
SNY	15.2	71	eP	02 38 50.2	6.0		
			LN	Ms=4.5		7.3	0.72
CN2	16.9	65	eP	02 39 12.3	6.7		
GZH	17.1	150	eP	02 39 08.5	−0.3		
KSH	21.9	282	eP	02 40 09.0	5.8		
			eS	02 44 09.0	8.9		

1986 6 3
O=03 51 09.1 ± 0.29s
LAT=38.32 N ± 1.59km
LONG= 76.27 E ± 0.96km
DEPTH= 10 km ± 1.39km
STATIONS USED = 7, STAND DEV= 2.23s
M_L=4.1 / 3,

KSH	1.2	349	+Pg	03 51 29.8	0.0		
			Sg	03 51 42.5	−3.0		
			SMN	M_L=4.1		0.3	3.20
			SME			0.5	3.30
WMQ	10.2	54	eP	03 53 40.7	1.4		
			(S)	03 55 33.8	−1.4		
			LN			1.6	0.030
GTA	18.4	79	eP	03 55 28.6	2.6		

1986 6 3
O=05 29 56.2 ± 0.04s
LAT=38.65 N ± 0.67km
LONG=104.04 E ± 0.39km
DEPTH= 11 km ± 0.10km
STATIONS USED = 13, STAND DEV= 3.07s
M_L=3.8 / 11,

LZH	2.6	183	Pn	05 30 40.0	1.8		
			Sn	05 31 09.5	−1.6		
			SMN	M_L=4.1		1.0	0.82
			SME			1.0	1.35
GTA	3.4	284	+iPn	05 30 50.3	1.0		
			Sn	05 31 32.4	1.3		
			SMN	M_L=3.7		0.8	0.25
			SME			0.8	0.19
BTO	5.0	65	Pn	05 31 14.2	2.4		
			Pg	05 31 25.4	0.8		
			Sg	05 32 30.0	−3.2		
			SMN	M_L=3.4		0.4	0.060
			SME			0.4	0.030
HHC	6.2	67	Pg	05 31 45.6	−0.3		

1986 6 3
O=06 49 29.5 ± 0.12s
LAT= 6.42 S ± 1.44km
LONG=148.30 E ± 3.51km
DEPTH= 64 km ± 0.39km
STATIONS USED = 34, STAND DEV= 1.90s

NJ2	47.4	325	eP	06 57 58.5	−1.6
GYA	51.9	311	P	06 58 50.0	16.1
SNY	53.1	337	eP	06 58 45.0	2.0
MDJ	53.5	343	eP	06 58 46.0	−0.4
KMI	54.3	307	eP	06 58 56.5	4.3
XAN	54.8	320	eP	06 58 54.3	−1.7
BJI	54.9	330	(P)	06 59 12.0	16.2
LZH	59.4	319	eP	06 59 28.0	−0.3
GTA	63.9	320	P	06 59 57.8	−0.8
WMQ	74.0	319	P	07 01 19.5	19.9

1986 6 3
O=10 11 45.5 ± 0.14s
LAT=35.80 N ± 2.38km
LONG=135.53 E ± 2.54km
DEPTH= 32 km ± 0.66km
STATIONS USED = 15, STAND DEV= 2.73s

CN2	11.1	319	+P	10 14 23.8	−1.8
BJI	15.8	291	eP	10 15 31.0	3.1
HHC	19.4	292	e(P)	10 16 14.0	1.6
BTO	20.6	291	eP	10 16 22.0	−2.6
XAN	21.9	273	eP	10 16 39.2	1.6
LZH	25.6	280	eP	10 17 12.5	−1.5
GYA	26.3	257	eP	10 17 17.6	−3.1

1986 6 3
O=12 15 02.4 ± 0.05s
LAT=36.57 N ± 1.05km
LONG= 70.86 E ± 0.80km
DEPTH=197 km ± 0.40km
STATIONS USED = 43, STAND DEV= 1.12s
M_L=5.3 / 2,

KSH	5.0	53	−iP	12 16 19.0	1.7		
			S	12 17 12.0	−2.7		
			SME	M_L=5.3		0.5	4.00
WMQ	14.7	55	P	12 18 22.8	−0.3		
			S	12 21 06.7	5.7		
			SMN			1.5	0.040
LSA	18.3	106	eP	12 19 06.5	1.7		
			eS	12 22 16.0	−3.7		
GTA	23.0	74	+P	12 19 52.2	1.3		
CD2	27.8	92	eP	12 20 47.7	12.1		
XAN	31.0	83	P	12 21 03.7	−0.6		
GYA	32.0	98	P	12 21 12.4	−0.2		

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			PP	12 22 22.6	−3.2		
			PcP	12 23 56.6	−0.6		
			S	12 26 08.4	0.6		
TIY	33.0	75	eP	12 21 22.0	1.0		
WHN	36.5	87	P	12 21 51.5	0.7		
GZH	38.9	98	P	12 22 11.5	0.5		
NJ2	39.6	82	−P	12 22 17.0	0.6		

1986 6 3
O = 14 40 09.2 ± 0.09s
LAT = 10.38 N ± 1.55km
LONG = 125.97 E ± 1.93km
DEPTH = 67 km ± 0.24km
STATIONS USED = 94, STAND DEV = 0.98s
Ms = 5.6 / 42, m_B = 6.0 / 32

QZH	16.1	335	+P	14 43 51.0	−1.8		
			PMZ	m_B = 5.7		5.0	1.80
			pP	14 44 02.0	−4.3		
			iS	14 46 54.0	5.0		
			SMN	m_B = 5.8		7.0	2.30
			SME			7.0	1.86
			SS	14 47 16.0	6.9		
			LN	Ms = 5.3		18.0	10.9
			LE			18.0	4.91
GZH	17.5	318	+iP	14 44 09.5	−0.5		
			PMZ	m_B = 6.0		8.0	6.22
			PP	14 44 23.0	−3.2		
			S	14 47 26.0	6.2		
			SS	14 47 45.0	1.6		
			LN	Ms = 5.6		17.0	19.3
			LE			16.0	5.15
SSE	21.1	349	+iP	14 44 51.0	0.7		
			PMZ	m_B = 6.3		4.0	6.08
			PP	14 45 14.0	−1.7		
			SMN	m_B = 6.5		6.0	6.84
			SME			6.0	1.64
			sS	14 48 54.0	−5.8		
			LN	Ms = 5.1		14.0	3.15
			LE			14.0	2.34
NJ2	22.6	344	+iP	14 45 05.0	0.2		
			PMZ	m_B = 6.0		8.0	6.60
			pP	14 45 19.0	−0.9		
			iS	14 49 10.0	7.0		
			SMN	m_B = 6.4		10.0	10.6
			SME			10.0	2.50
			sS	14 49 33.0	4.6		
			LN	Ms = 5.6		16.0	12.2
WHN	22.8	333	+iP	14 45 08.0	0.8		
			PMZ	m_B = 6.0		6.0	4.59
			pP	14 45 21.0	−1.3		
			S	14 49 12.0	5.4		
			SMN	m_B = 6.3		10.0	7.02
			sS	14 49 36.0	3.1		
			LN	Ms = 5.4		14.0	6.25
GYA	24.3	314	P	14 45 22.0	0.5		
			PMZ	m_B = 6.0		4.0	2.60
			pP	14 45 35.0	−1.7		
			PP	14 45 57.0	−1.6		
			S	14 49 38.0	6.0		
			sS	14 49 54.0	−5.1		
			ScP	14 52 36.0	4.0		
			LN	Ms = 5.7		16.0	8.20
			LE			16.0	10.8
KMI	26.5	307	+P	14 45 42.0	−0.6		
			PMZ	m_B = 5.8		5.0	1.17
			pP	14 45 55.0	−2.7		
			PP	14 46 25.0	−2.5		
			PPMZ			7.0	2.10
			eS	14 50 11.5	1.4		
			SS	14 51 18.0	−5.2		
			LE	Ms = 5.5		15.0	6.30
TIA	26.9	344	+P	14 45 46.3	−0.3		
			pP	14 45 58.0	−4.1		
			eS	14 50 17.5	0.2		
			LN	Ms = 5.1		19.0	1.89
			LE			14.0	2.17
XAN	28.3	329	+iP	14 45 57.2	−1.4		
			eS	14 50 34.0	−4.7		
			LN	Ms = 5.6		14.0	3.70
			LE			15.0	5.22
DL2	28.7	353	eP	14 46 02.5	0.3		
			PcP	14 49 11.0	−0.1		
			eS	14 50 45.0	−0.1		
			SMN	m_B = 5.4		9.0	0.60
			SME			7.0	0.66
			sS	14 51 05.5	−6.7		
			ScS	14 56 42.5	5.4		
			LE	Ms = 5.2		13.0	2.64
CD2	29.0	318	+iP	14 46 15.0	10.0		
			PcS	14 52 57.0	3.6		
			LN	Ms = 5.8		15.0	12.5
TIY	29.8	338	+P	14 46 12.4	−0.1		
			PMZ	m_B = 6.1		5.5	2.17
			S	14 51 07.0	4.5		
			SME	m_B = 5.6		8.0	1.28
			ScS	14 56 43.0	0.5		
			LN	Ms = 5.6		15.0	5.48
			LE			14.0	3.31
BJI	30.8	345	eP	14 46 21.0	−0.1		
			PMZ	m_B = 6.2		5.0	2.17

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			ScP	14 52 55.0	3.0		
			eS	14 51 21.0	2.3		
			SMN	$m_B = 5.7$		7.0	1.31
			SME			7.0	0.64
			esS	14 51 38.0	−8.0		
			eSS	14 53 08.0	3.5		
			ScS	14 56 52.0	4.8		
			LN	Ms = 5.2		16.0	2.01
			LE			16.0	1.59
SNY	31.4	357	+iP	14 46 26.5	0.1		
			PMZ	$m_B = 6.3$		5.0	2.79
			PP	14 47 35.5	4.0		
			S	14 51 30.0	2.7		
			SME	$m_B = 5.8$		5.5	1.25
			LN	Ms = 5.6		28.0	7.25
			LE			23.0	6.13
LZH	32.5	325	+iP	14 46 36.3	−0.1		
			PMZ			2.0	0.60
			PP	14 47 44.0	−2.1		
			S	14 51 52.0	7.2		
			ScP	14 53 05.0	7.2		
			PcS	14 53 07.0	2.0		
			LN	Ms = 5.9		15.0	10.5
			LE			15.0	6.95
HHC	32.9	340	+iP	14 46 38.5	−1.3		
			PP	14 47 47.0	−4.0		
			PcP	14 49 22.0	−0.2		
			S	14 51 56.0	5.1		
			LN	Ms = 5.0		16.0	0.78
			LE			8.0	0.75
BTO	33.2	338	−iP	14 46 42.0	−0.6		
			PMZ	$m_B = 6.2$		6.0	2.40
			pP	14 46 54.0	−4.4		
			ePP	14 47 54.0	−1.1		
			S	14 51 58.0	1.9		
			SMN	$m_B = 5.4$		11.0	0.90
			SME			11.0	0.60
			sS	14 52 15.0	−9.4		
			SS	14 54 04.0	2.4		
			LN	Ms = 5.7		20.0	6.80
			LE			19.0	4.70
CN2	33.3	359	+iP	14 46 42.0	−1.0		
			pP	14 46 55.0	−3.9		
			ePP	14 47 48.0	−7.8		
			eS	14 51 58.0	0.1		
			PcS	14 53 09.0	1.3		
			LN	Ms = 5.4		15.0	3.20
MDJ	34.3	5	+iP	14 46 51.5	0.3		
			PMZ	$m_B = 6.4$		4.0	2.29
			PcP	14 49 26.0	0.0		
			S	14 52 15.5	3.7		
			ScS	14 57 11.0	6.1		
GTA	37.1	326	+iP	14 47 15.7	0.0		
			PP	14 48 43.5	0.8		
			PPMZ			8.5	1.99
			PcP	14 49 35.4	0.9		
			eS	14 52 56.0	−1.0		
			sS	14 53 22.0	−2.5		
			LN	Ms = 5.8		19.0	9.41
LSA	37.7	306	+iP	14 47 20.2	−0.8		
			pP	14 47 33.0	−3.7		
			S	14 53 03.0	−1.9		
			LN	Ms = 5.4		18.0	2.73
			LE			18.0	2.19
WMQ	47.0	322	+iP	14 48 35.5	−0.3		
			PMZ			2.0	0.32
			pP	14 48 51.0	−1.1		
			PcP	14 50 07.5	0.5		
			PP	14 50 26.0	−0.3		
			PcS	14 54 02.0	1.5		
			S	14 55 24.5	4.1		
			sS	14 55 40.0	−9.8		
			ScS	14 58 23.0	2.8		
			SS	14 58 49.0	7.9		
			LN	Ms = 6.3		15.0	9.44
			LE			15.0	10.8
KSH	52.9	312	+iP	14 49 22.0	0.6		
			pP	14 49 36.0	−1.9		
			PP	14 51 23.0	0.4		
			PcS	14 54 27.0	1.1		
			S	14 56 48.5	5.5		
			sS	14 57 03.0	−9.8		
			ScS	14 59 06.0	5.6		
			LE	Ms = 6.2		17.0	11.3

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O = 17 56 49.5 ± 0.23s
LAT = 9.26 N ± 3.93km
LONG = 58.13 E ± 1.34km
DEPTH = 10 km ± 0.30km
STATIONS USED = 19, STAND DEV = 1.83s

WMQ	43.0	32	eP	18 04 47.7	−3.4
KMI	45.2	64	+P	18 05 10.5	1.2
GYA	48.9	63	P	18 05 38.2	−0.4
XAN	52.6	54	eP	18 06 05.8	−0.6
TIY	56.3	51	P	18 06 33.3	−0.5
BJI	59.8	49	eP	18 06 56.5	−1.2
CN2	67.3	46	eP	18 07 46.4	−0.9

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O = 19 34 40.1 ± 0.09s
LAT = 20.70 S ± 1.26km
LONG = 177.93 W ± 1.49km
DEPTH = 502 km ± 0.44km
STATIONS USED = 67, STAND DEV = 0.73s

GZH	79.9	299	−iP	19 45 59.0	1.1	
NJ2	80.1	310	−P	19 45 59.2	0.4	
MDJ	80.7	325	−P	19 46 02.5	0.2	
DL2	81.9	317	eP	19 46 08.5	0.1	
SNY	82.4	320	−iP	19 46 10.5	−0.3	
CN2	82.5	322	−iP	19 46 11.0	−0.3	
			pP	19 48 06.6	5.9	
WHN	82.6	306	P	19 46 12.5	0.6	
TIA	83.5	312	−P	19 46 16.3	0.1	
BJI	86.1	315	eP	19 46 28.5	−0.4	
GYA	86.8	300	−P	19 46 33.0	0.5	
TIY	87.5	312	−P	19 46 36.0	0.4	
XAN	88.3	307	−iP	19 46 40.0	0.5	
KMI	89.5	297	−P	19 46 46.5	1.2	
HHC	89.5	314	+iP	19 46 44.8	−0.5	
BTO	90.5	314	eP	19 46 48.5	−1.1	
CD2	91.0	303	eP	19 47 03.4	12.7	
LZH	92.9	307	eP	19 47 00.5	−0.6	
GTA	97.2	309	P	19 47 19.3	−0.9	

1986 6 3
O = 23 05 22.2 ± 0.20s
LAT = 51.39 N ± 5.45km
LONG = 174.73 W ± 2.81km
DEPTH = 32 km ± 0.43km
STATIONS USED = 79, STAND DEV = 1.42s
Ms = 5.3 / 19,

MDJ	37.1	282	+P	23 12 30.5	−1.1		
			S	23 18 11.0	−3.4		
CN2	40.0	283	+P	23 12 55.5	−0.8		
			eS	23 18 56.0	−4.2		
SNY	42.3	282	+iP	23 13 15.5	0.8		
			eS	23 19 32.0	−1.4		
			LN	Ms = 5.3		21.0	1.72
			LE			20.0	1.61
DL2	45.2	280	eP	23 13 39.0	0.6		
BJI	47.9	285	eP	23 14 00.0	0.7		
			sP	23 14 15.0	2.5		
			eS	23 21 02.0	8.4		
			LN	Ms = 5.4		20.0	2.40
			LE			20.0	1.26
TIA	49.7	280	+P	23 14 13.0	−0.5		
			eS	23 21 17.5	−1.7		
			LE	Ms = 5.3		19.0	2.03
SSE	50.5	272	eP	23 14 18.0	−2.1		
			pP	23 14 26.0	−3.3		
			PP	23 16 16.0	−0.1		
			eS	23 21 34.0	2.9		
			sS	23 21 44.0	−2.6		
			ScS	23 24 12.0	7.4		
			LN	Ms = 4.9		14.0	0.35
			LE			14.0	0.39
BTO	51.2	289	−P	23 14 25.0	−0.1		
			cPP	23 16 21.0	−0.9		
			eS	23 21 39.0	−1.4		
			LN	Ms = 5.3		17.0	1.10
			LE			17.0	1.20
NJ2	51.4	275	+P	23 14 26.0	−0.2		
			S	23 21 45.0	3.8		
			LN	Ms = 5.3		19.0	1.70
TIY	51.6	285	+P	23 14 28.5	0.5		
			PMZ			1.2	0.070
			pP	23 14 34.0	−3.2		
			sP	23 14 42.0	0.9		
			S	23 21 49.0	4.6		
			LN	Ms = 5.4		18.0	1.09
			LE			20.0	2.15
WHN	55.2	277	P	23 14 54.0	−0.6		
			eS	23 22 38.0	3.6		
			sS	23 22 55.0	5.0		
			LN	Ms = 5.2		16.0	0.92
XAN	56.2	284	+iP	23 15 00.9	−0.7		
			LE	Ms = 5.3		18.0	1.31
QZH	56.5	269	eP	23 15 03.0	−1.0		
			eS	23 22 51.0	−0.8		
			LN	Ms = 4.8		18.0	0.40
LZH	57.8	289	eP	23 15 13.5	−0.1		
			pP	23 15 19.0	−3.7		
GZH	61.1	271	eP	23 15 37.0	0.8		
WMQ	61.5	305	P	23 15 38.0	−0.5		
			PMZ			1.5	0.050
			ScS	23 25 32.5	9.7		
			LN	Ms = 5.6		20.0	2.82
CD2	61.5	285	eP	23 15 49.2	11.5		
			LE	Ms = 5.5		20.0	2.31
GYA	62.9	279	P	23 15 47.6	−0.3		
			pP	23 15 54.0	−3.2		
			S	23 24 15.0	2.5		
			LE	Ms = 5.2		20.0	1.10
KMI	66.2	281	eP	23 16 10.0	0.0		
			pP	23 16 20.0	0.7		
			ePP	23 18 40.0	2.8		
			eS	23 24 54.0	−2.1		
			LN	Ms = 5.4		20.0	1.37
LSA	69.8	292	+P	23 16 32.8	0.2		

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			S	23 25 43.0	5.9	
KSH	70.6	309	P	23 16 36.9	0.2	
			eS	23 25 46.0	−1.3	

1986 6 4
O=06 47 01.4 ± 0.11s
LAT=41.58 N ± 1.14km
LONG= 79.11 E ± 1.33km
DEPTH= 30 km ± 0.33km
STATIONS USED = 19, STAND DEV= 2.79s
M_L=4.0/ 8,

KSH	3.2	229	Pg	06 48 00.5	2.3	
			Sg	06 48 45.2	3.4	
			SMN	M_L=4.0	0.9	0.50
			SME		0.7	0.50
WMQ	6.7	68	ePn	06 48 42.0	3.4	
			Sn	06 49 58.0	2.1	
			SMN	M_L=4.0	1.0	0.080
			SME		1.0	0.090
GTA	15.9	91	P	06 50 48.9	3.8	
			LG_2	06 55 43.3	−2.6	
			LN		1.5	0.020

1986 6 4
O=12 43 16.5 ± 0.25s
LAT=23.97 N ± 3.57km
LONG=121.62 E ± 3.08km
DEPTH= 26 km ± 1.21km
STATIONS USED = 42, STAND DEV= 2.90s
Ms=4.7/ 19, M_L=4.1/ 8,

QZH	2.9	290	ePn	12 44 01.7	−0.2	
			Sn	12 44 35.2	−2.8	
			SMN	M_L=4.1	0.6	0.80
			SME		1.2	0.72
			LN		9.5	3.30
			LE		8.0	3.88
GZH	7.6	265	ePn	12 45 07.8	1.0	
			eSn	12 46 29.0	−5.9	
			LN	Ms=4.2	10.0	1.65
NJ2	8.4	344	eP	12 45 17.4	−2.5	
			S	12 46 48.6	−6.2	
			LG_2	12 48 00.0	5.8	
			LN	Ms=4.8	9.0	4.90
WHN	9.2	317	e(P)	12 45 23.0	−7.8	
			LG_2	12 48 11.0	−9.2	
			LN	Ms=4.7	8.0	2.86
GYA	13.8	283	eP	12 46 39.0	6.2	
			S	12 49 14.0	8.7	
			LE	Ms=4.7	10.0	2.20
XAN	15.0	315	eP	12 46 43.2	−5.2	
			LG_1	12 51 10.0	3.6	
			LN	Ms=4.7	7.0	0.81
			LE		10.0	1.35
TIY	15.8	332	eP	12 47 01.5	2.3	
			LN	Ms=5.0	15.0	3.29
			LE		15.0	2.86
BJI	16.7	345	eP	12 47 10.0	−0.2	
KMI	17.2	278	eP	12 47 20.5	3.1	
CD2	17.3	297	eP	12 47 31.0	13.3	
			LN	Ms=4.9	7.0	1.72
HHC	18.8	336	eP	12 47 41.0	3.7	
			LN	Ms=4.7	9.0	0.78
			LE		8.0	0.75
BTO	19.2	332	eP	12 47 44.0	2.0	
			eS	12 51 16.0	3.7	
			LN	Ms=4.9	10.0	1.70
			LE		10.0	1.20
LZH	19.5	312	eP	12 47 47.5	2.2	
			LG_2	12 53 51.0	−9.9	
			LN	Ms=4.8	9.0	0.85
			LE		8.0	0.81
CN2	20.0	8	eP	12 47 51.4	0.7	
			eS	12 51 31.0	1.3	
			LN	Ms=4.4	10.0	0.50
MDJ	21.6	16	eP	12 48 05.0	−1.8	
GTA	24.0	315	eP	12 48 34.2	3.4	
			LE	Ms=4.6	11.0	0.75
WMQ	34.1	314	P	12 50 05.5	3.8	

1986 6 4
O=15 00 29.8 ± 0.12s
LAT=23.96 N ± 1.46km
LONG=121.85 E ± 1.42km
DEPTH= 13 km ± 1.30km
STATIONS USED = 11, STAND DEV= 2.86s
M_L=3.3/ 4,

QZH	3.1	289	ePn	15 01 18.0	−1.1

1986 6 4
O=15 48 19.2 ± 0.17s
LAT=65.69 N ± 4.21km
LONG=152.62 W ± 2.08km
DEPTH= 10 km ± 0.22km
STATIONS USED = 66, STAND DEV= 1.62s
Ms=5.5/ 9,

MDJ	45.6	282	eP	15 56 43.5	1.6	
			S	16 03 24.0	1.1	
CN2	47.9	285	−P	15 57 00.0	−0.4	
			eS	16 03 52.0	−5.3	
			LN	Ms=5.3	14.0	1.60

SNY	50.3	285	+iP	15 57 18.5	−0.3		
			eS	16 04 26.0	−4.8		
			LN	Ms=5.7		18.0	2.20
			LE			18.0	3.98
DL2	53.6	285	eP	15 57 43.7	0.3		
			LN	Ms=5.7		14.0	1.35
			LE			14.0	2.73
BJI	54.8	290	eP	15 57 52.0	−0.1		
			eS	16 05 34.0	2.5		
			LN	Ms=5.5		16.0	1.38
			LE			16.0	1.32
HHC	55.9	294	eP	15 58 02.0	2.0		
BTO	56.7	295	eP	15 58 04.8	−0.9		
TIA	57.7	287	eP	15 58 12.6	−0.6		
TIY	58.3	292	eP	15 58 16.1	−0.8		
			eS	16 06 15.0	−2.7		
			LN	Ms=5.9		15.0	3.29
			LE			15.0	2.86
NJ2	60.7	283	−P	15 58 33.4	−0.2		
WMQ	61.3	314	P	15 58 37.5	−0.7		
GTA	61.4	303	−iP	15 58 38.2	−0.4		
			eS	16 06 51.0	−7.3		
			LE	Ms=5.5		14.0	1.52
XAN	62.8	293	+P	15 58 46.6	−1.5		
LZH	62.9	298	−iP	15 58 49.0	0.2		
			pP	15 58 55.0	0.8		
WHN	63.8	286	eP	15 58 54.0	−0.5		
KSH	68.6	321	eP	15 59 37.0	12.4		
GYA	70.5	291	+P	15 59 37.0	0.3		
			S	16 08 44.0	−3.3		
LSA	73.2	305	P	15 59 53.2	−0.1		
KMI	73.2	294	eP	15 59 53.0	0.0		

1986 6 4
O=16 12 28.5 ± 0.43s
LAT=23.91 N ± 2.33km
LONG=121.54 E ± 3.64km
DEPTH= 14 km ± 0.42km
STATIONS USED = 21, STAND DEV= 3.23s
Ms=4.0/ 3, M_L=3.9/ 7,

QZH	2.9	292	ePn	16 13 15.5	1.2		
			Sn	16 13 49.3	−1.3		
			SMN	M_L=4.1		0.7	0.32
			SME			1.2	1.14
			LN			9.0	0.93
			LE			8.0	0.66
SSE	7.2	358	cPn	16 14 12.5	−0.8		
GZH	7.6	265	cPn	16 14 13.8	−5.0		
			(Sn)	16 15 37.0	−9.8		
NJ2	8.5	344	eP	16 14 31.0	−2.6		
			S	16 16 05.0	−4.5		
			LN	Ms=4.0		9.0	0.90
WHN	9.2	318	eP	16 14 56.0	12.2		
			LN	Ms=4.0		9.0	0.72
XAN	14.9	315	eP	16 16 00.6	−0.9		

1986 6 4
O=16 14 57.0 ± 0.24s
LAT=23.61 N ± 3.11km
LONG=121.80 E ± 2.99km
DEPTH= 22 km ± 0.79km
STATIONS USED = 53, STAND DEV= 3.60s
Ms=4.9/ 20, M_L=4.5/ 4,

QZH	3.2	295	ePn	16 15 44.2	−2.5		
			Sn	16 16 23.5	−2.7		
			LE	Ms=4.5		6.0	8.80
GZH	7.8	268	ePn	16 16 50.4	0.8		
			Sn	16 18 14.0	−5.5		
			LN	Ms=4.6		9.0	2.66
			LE			9.0	3.14
NJ2	8.8	343	+P	16 17 02.8	−3.4		
			S	16 18 37.5	−8.1		
			LG_2	16 19 42.0	−5.6		
			LN	Ms=5.2		8.0	11.4
WHN	9.6	318	e(P)	16 17 32.0	15.3		
			LG_2	16 20 18.0	4.9		
			LN	Ms=4.8		8.0	4.06
GYA	14.0	285	P	16 18 14.6	−2.3		
			S	16 20 44.0	−8.2		
			LE	Ms=4.8		10.0	2.70
XAN	15.3	316	eP	16 18 31.8	−2.3		
			LG_2	16 23 21.0	−1.8		
			LN	Ms=4.7		12.0	1.25
			LE			12.0	1.90
TIY	16.2	332	P	16 18 47.0	1.8		
			LG_1	16 23 33.0	7.4		
			LN	Ms=5.1		9.0	3.18
			LE			9.0	1.39
BJI	17.1	345	eP	16 18 58.5	2.4		
KMI	17.4	279	eP	16 19 04.0	3.0		
			epP	16 19 12.0	5.1		
			S	16 22 18.0	6.0		
			LE	Ms=5.0		10.0	3.00
CD2	17.6	298	eP	16 19 12.2	9.3		
			LG_2	16 24 46.0	8.2		
			LN	Ms=5.4		7.0	4.89
HHC	19.2	336	P	16 19 27.8	5.0		
BTO	19.6	332	eP	16 19 27.8	0.5		
LZH	19.9	313	eP	16 19 32.0	1.7		

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1986 6 4							
O=16 20 58.9		± 0.14s					
LAT=23.96 N		± 1.91km					
LONG=121.64 E		± 2.06km					
DEPTH= 18 km		± 0.47km					
STATIONS USED = 76, STAND DEV= 2.38s							
Ms=5.5/ 31,			m_B=5.6/ 2				
QZH	3.0	290	ePn	16 21 44.5	−0.9		
			Sn	16 22 23.0	0.7		
			LE			13.0	88.7
SSE	7.1	357	Pn	16 22 42.2	−0.6		
			LG_1	16 24 38.0	−4.7		
			LG_2	16 24 56.0	2.1		
			LN	Ms=5.2		10.0	21.6
GZH	7.7	265	−Pn	16 22 52.0	1.8		
			Sn	16 24 15.2	−3.9		
			LN	Ms=5.4		10.0	14.2
			LE			10.0	24.5
NJ2	8.4	344	+P	16 23 00.6	−2.8		
			S	16 24 32.0	−6.9		
			LG_1	16 25 16.0	−7.8		
			LG_2	16 25 31.5	−5.6		
			LE	Ms=5.0		9.0	8.50
WHN	9.2	317	e(P)	16 23 11.0	−3.4		
			eS	16 24 52.0	−6.8		
			LG_1	16 25 44.4	−4.3		
			LG_2	16 25 58.0	−5.3		
			LE	Ms=5.5		10.0	27.3
TIA	12.8	343	eP	16 24 02.7	−0.8		
			eS	16 26 29.0	2.2		
			eLG_1	16 27 38.0	−3.7		
			eLG_2	16 27 58.0	−4.0		
			LN	Ms=5.4		11.0	10.3
			LE			10.0	8.73
GYA	13.8	284	P	16 24 20.0	3.6		
			S	16 26 44.0	−5.5		
			LN	Ms=6.0		10.0	12.4
			LE			10.0	36.1
DL2	14.9	360	eP	16 24 39.6	8.8		
			eS	16 27 23.0	6.6		
			LN	Ms=5.3		11.0	6.46
			LE			11.0	5.78
XAN	15.0	315	P	16 24 32.2	0.3		
			LG_1	16 28 48.0	−1.5		
			LG_2	16 29 06.0	−7.2		
			LN	Ms=5.3		8.0	5.42
			LE			10.0	2.60
TIY	15.8	332	eP	16 24 43.6	0.8		
			LG_1	16 29 11.5	−4.2		
			LG_2	16 29 39.5	−1.3		
			LN	Ms=5.9		10.0	23.3
			LE			10.0	12.5
BJI	16.7	345	eP	16 24 55.0	1.2		
			LN	Ms=5.4		11.0	8.93
SNY	17.9	5	+P	16 25 13.3	4.4		
			S	16 28 30.0	4.9		
			SME			20.0	4.42
			LN	Ms=5.5		16.0	2.35
			LE			18.0	13.0
HHC	18.8	336	P	16 25 24.4	3.6		
			sS	16 29 01.0	4.6		
			LN	Ms=5.7		11.0	12.4
			LE			10.0	1.54
BTO	19.3	332	eP	16 25 27.2	1.6		
			eS	16 28 57.0	0.4		
			LN	Ms=5.5		13.0	4.40
			LE			13.0	9.00
LZH	19.6	312	P	16 25 31.0	2.0		
			LN	Ms=5.9		11.0	11.3
			LE			11.0	15.1
CN2	20.0	8	P	16 25 34.5	0.3		
			eS	16 29 10.0	−3.8		
			LN	Ms=5.5		12.5	8.00
MDJ	21.6	16	eP	16 25 49.5	−0.8		
			eS	16 29 42.0	−2.2		
GTA	24.0	315	−P	16 26 16.8	2.3		
			PP	16 26 49.0	1.1		
			S	16 30 34.6	7.4		
			sS	16 30 43.0	4.4		
			SME	m_B=5.7		11.0	2.94
			LE	Ms=5.9		11.0	12.9
LSA	27.8	289	P	16 26 50.2	0.6		
			eS	16 31 21.0	−9.3		
			LE	Ms=5.6		10.0	5.27
WMQ	34.1	314	eP	16 27 47.0	1.6		
			PMZ			2.0	0.13
			LG_2	16 39 40.0	−4.6		
			LN	Ms=6.1		11.0	5.89
			LE			11.0	9.87
KSH	41.4	303	eP	16 28 47.0	0.8		
			eS	16 34 58.0	−2.3		
			LE	Ms=6.0		12.0	8.40
1986 6 4							
O=16 37 48.0		± 0.08s					
LAT=23.67 N		± 1.19km					
LONG=121.60 E		± 1.67km					
DEPTH= 5 km		± 1.70km					
STATIONS USED = 22, STAND DEV= 2.14s							
Ms=4.0/ 2, M_L=4.0/ 7,							

QZH	3.0	295	+iPn	16 38 37.4	0.5		
			Pg	16 38 48.2	6.8		
			Sn	16 39 13.4	−2.1		
			LN	Ms=3.7		10.0	1.53
			LE			9.0	1.61
GZH	7.6	267	e(P)	16 39 40.5	−1.9		
			(S)	16 41 02.5	−7.4		
			LN			2.5	0.080
			LE			1.0	0.050
WHN	9.4	318	e(P)	16 40 05.0	−2.5		
			eS	16 41 51.5	−3.4		
			LE	Ms=4.4		10.0	1.90
GYA	13.8	285	P	16 41 07.6	0.2		
XAN	15.2	316	eP	16 41 24.3	−0.6		

1986 6 4

O=19 25 42.4 ± 0.06s
LAT=51.57 N ± 2.42km
LONG=174.78 W ± 1.05km
DEPTH= 31 km ± 0.32km
STATIONS USED = 53, STAND DEV= 1.71s

MDJ	37.0	282	eP	19 32 51.5	0.1		
CN2	40.0	283	eP	19 33 16.0	−0.1		
SNY	42.2	282	+iP	19 33 35.6	1.0		
BJI	47.8	284	eP	19 34 19.0	−0.1		
TIA	49.6	280	eP	19 34 33.4	0.0		
BTO	51.1	289	eP	19 34 44.0	−0.9		
NJ2	51.3	275	eP	19 34 45.8	−0.4		
TIY	51.5	285	eP	19 34 49.0	1.2		
WHN	55.1	277	eP	19 35 12.5	−2.2		
XAN	56.1	284	+P	19 35 20.9	−0.6		
LZH	57.7	289	eP	19 35 33.5	0.1		
GTA	57.8	294	eP	19 35 32.6	−1.3		
WMQ	61.3	305	P	19 35 57.7	−0.4		
GYA	62.8	279	P	19 36 08.2	0.3		
KMI	66.2	281	+P	19 36 30.0	0.0		
LSA	69.7	292	P	19 36 52.7	0.3		

1986 6 4

O=20 24 20.9 ± 0.10s
LAT=23.86 N ± 1.26km
LONG=121.78 E ± 1.16km
DEPTH= 11 km ± 1.29km
STATIONS USED = 10, STAND DEV= 3.16s
M_L=3.2/ 3,

QZH	3.1	291	ePn	20 25 07.5	−2.6		
			eSn	20 25 43.3	−5.8		
			SMN	M_L=3.1		0.7	0.070

1986 6 4

O=20 26 08.1 ± 0.08s
LAT=31.85 N ± 1.06km
LONG=141.57 E ± 1.85km
DEPTH= 58 km ± 0.11km
STATIONS USED = 16, STAND DEV= 1.32s

CN2	17.4	318	eP	20 30 08.5	−0.2		
SNY	17.5	310	−P	20 30 10.7	1.2		
XAN	27.4	283	P	20 31 50.0	−0.8		
WMQ	43.5	302	eP	20 34 09.0	1.0		

1986 6 4

O=21 50 40.0 ± 0.14s
LAT=23.95 N ± 1.83km
LONG=121.81 E ± 1,67km
DEPTH= 13 km ± 1.92km
STATIONS USED = 12, STAND DEV= 4.06s
M_L=3.3/ 3,

QZH	3.1	289	ePn	21 51 26.8	−2.1		
			eSn	21 52 04.2	−3.5		
			SMN	M_L=3.3		0.8	0.11
GZH	7.8	265	eP *	21 52 42.2	−7.2		

1986 6 5

O=02 52 28.8 ± 0.03s
LAT=39.63 N ± 0.34km
LONG= 97.57 E ± 0.26km
DEPTH= 11 km ± 0.14km
STATIONS USED = 7, STAND DEV= 4.13s
M_L=3.1/ 5,

GTA	1.8	96	iPg	02 53 00.2	0.3		
			Sg	02 53 23.9	0.2		
			SMN	M_L=3.1		0.7	0.18
			SME			0.7	0.21

1986 6 5

O=03 43 43.5 ± 0.12s
LAT=28.46 N ± 2.30km
LONG=140.80 E ± 2.16km
DEPTH= 34 km ± 0.52km
STATIONS USED = 29, STAND DEV= 2.01s
Ms=4.3/ 10, m_B=5.4/ 8

SSE	17.2	284	eP	03 47 43.0	−0.3		
			LN	Ms=4.2		9.0	0.43
DL2	19.0	308	eP	03 48 06.0	0.6		
			eS	03 51 25.0	−7.7		
NJ2	19.3	286	+P	03 48 09.0	0.6		
			PMZ	m_B=5.3		6.0	0.90
			S	03 51 46.0	8.0		
			SMN	m_B=5.2		10.0	1.00
SNY	19.3	318	−P	03 48 08.0	−1.0		

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			iS	03 51 49.0	9.0		
			PcP	03 52 25.0	−4.7		
			LN	Ms = 4.4		12.0	0.60
			LE			12.0	0.36
CN2	19.6	325	−P	03 48 09.5	−2.9		
			LN	Ms = 4.4		10.0	0.60
TIA	21.4	297	eP	03 48 31.6	0.8		
			LE	Ms = 4.4		10.0	0.44
WHN	23.1	282	eP	03 48 48.0	0.5		
			PMZ	m_B = 5.3		5.0	0.63
			eS	03 52 58.0	5.7		
			SMN	m_B = 5.4		6.0	0.72
			LN	Ms = 4.5		10.0	0.55
BJI	23.3	306	eP	03 48 48.0	−1.7		
			PcP	03 52 35.0	−2.3		
			esS	03 53 06.0	−5.3		
GZH	25.3	264	+P	03 49 11.0	2.5		
			(S)	03 53 38.0	8.4		
TIY	25.4	299	eP	03 49 09.0	−1.0		
			PMZ	m_B = 5.7		6.0	1.10
			sS	03 53 52.0	4.7		
			LE	Ms = 4.2		13.0	0.32
HHC	26.9	305	P	03 49 21.0	−2.9		
			S	03 53 58.0	2.3		
XAN	27.7	290	eP	03 49 28.5	−3.0		
BTO	28.0	304	eP	03 49 33.0	−0.4		
CD2	32.2	284	eP	03 50 23.6	13.3		
GTA	35.4	299	eP	03 50 36.8	−2.3		
			eS	03 56 04.5	−6.8		
			LN	Ms = 4.4		9.0	0.20
WMQ	44.8	305	P	03 51 54.5	−1.8		

1986 6 5
O = 05 55 23.7 ± 0.05s
LAT = 5.14 S ± 0.65km
LONG = 131.42 E ± 1.84km
DEPTH = 32 km ± 0.26km
STATIONS USED = 15, STAND DEV = 1.24s

XAN	44.4	333	+P	06 03 32.6	−0.9
BJI	47.1	344	(P)	06 03 53.0	−1.9

1986 6 5
O = 09 01 16.5 ± 0.18s
LAT = 36.13 S ± 4.89km
LONG = 97.02 W ± 3.59km
DEPTH = 2 km ± 0.78km
STATIONS USED = 22, STAND DEV = 3.73s

CN2	146.9	297	cPKP	09 20 56.5	−3.2
SNY	148.1	293	cPKP	09 21 04.6	2.8
NJ2	150.1	273	cPKP	09 21 03.0	−1.9
TIA	152.5	280	cPKP	09 21 16.9	8.4
BJI	153.7	289	PKP	09 21 21.0	12.2

1986 6 5
O = 10 08 02.9 ± 0.22s
LAT = 9.93 S ± 2.89km
LONG = 116.81 E ± 4.36km
DEPTH = 46 km ± 0.72km
STATIONS USED = 43, STAND DEV = 2.65s

KMI	37.4	339	+P	10 15 17.0	2.7
GYA	37.5	345	P	10 15 16.0	1.4
			PcP	10 17 38.8	7.1
WHN	40.3	357	eP	10 15 51.0	13.7
CD2	42.5	343	eP	10 16 07.1	11.8
XAN	44.4	351	eP	10 16 11.3	0.2
TIA	45.9	0	eP	10 16 23.9	0.6
LZH	47.4	346	eP	10 16 36.0	0.9
TIY	47.6	355	e(P)	10 16 31.0	−5.5
BJI	49.7	359	eP	10 16 53.0	0.0
SNY	51.9	6	eP	10 17 07.1	−2.3
			pP	10 17 24.0	2.7
CN2	54.0	8	eP	10 17 20.5	−5.1
MDJ	55.5	11	eP	10 17 35.5	−0.7
WMQ	59.7	336	P	10 18 03.0	−2.7

1986 6 5
O = 10 37 14.2 ± 0.19s
LAT = 29.39 N ± 0.95km
LONG = 98.82 E ± 0.81km
DEPTH = 48 km ± 1.51km
STATIONS USED = 7, STAND DEV = 4.69s
M_L = 3.5 / 3,

KMI	5.5	140	eP *	10 38 47.0	4.2
GYA	7.5	111	Pn	10 39 04.6	3.9

1986 6 5
O = 15 24 54.3 ± 0.87s
LAT = 51.58 N ± 3.28km
LONG = 174.28 W ± 2.67km
DEPTH = 35 km ± 7.07km
STATIONS USED = 35, STAND DEV = 1.32s

MDJ	37.3	282	eP	15 32 04.5	−0.9
CN2	40.3	283	eP	15 32 29.0	−1.0
SNY	42.5	282	eP	15 32 48.5	0.0
BJI	48.1	285	eP	15 33 33.0	0.1
TIA	49.9	280	eP	15 33 46.5	−0.7
TIY	51.8	285	eP	15 34 01.5	0.0
XAN	56.4	284	eP	15 34 34.4	−0.7
GTA	58.1	294	iP	15 34 45.8	−1.5
WMQ	61.6	305	P	15 35 05.5	−5.6

CD2	61.7	285	(P)	15 35 22.3	11.3	
KMI	66.5	281	eP	15 35 43.0	−0.3	
LSA	70.0	293	−P	15 36 05.9	0.4	

1986 6 5
O = 15 44 29.4 ± 0.19s
LAT = 59.00 S ± 8.62km
LONG = 25.79 W ± 7.30km
DEPTH = 29 km ± 1.96km
STATIONS USED = 6, STAND DEV = 3.22s

BJI	149.5	111	eP	16 04 16.0	3.5	

1986 6 5
O = 17 32 40.5 ± 0.17s
LAT = 51.56 N ± 5.63km
LONG = 175.43 W ± 1.82km
DEPTH = 32 km ± 0.09km
STATIONS USED = 46, STAND DEV = 0.91s
Ms = 4.7 / 2,

CN2	39.6	283	+P	17 40 10.0	−0.7		
			eS	17 46 10.0	−1.5		
			LN	Ms = 4.6		18.0	0.50
SNY	41.8	281	eP	17 40 30.0	0.7		
			pP	17 40 44.2	5.7		
BJI	47.4	284	eP	17 41 13.5	−0.5		
TIA	49.2	279	eP	17 41 27.2	−1.1		
HHC	49.7	288	−P	17 41 31 0	−0.7		
BTO	50.7	289	−P	17 41 40.5	0.6		
TIY	51.1	284	eP	17 41 43.0	0.2		
WHN	54.7	276	eP	17 42 09.4	−0.2		
XAN	55.7	283	eP	17 42 15.8	−0.8		
LZH	57.3	288	+P	17 42 29.0	0.4		
			PMZ			1.5	0.060
GTA	57.4	294	eP	17 42 25.6	−3.6		
			LN	Ms = 4.8		20.0	0.45
CD2	61.0	284	(P)	17 43 03.2	10.3		
WMQ	61.0	305	P	17 42 53.6	−0.2		
GYA	62.4	278	P	17 43 02.4	−0.8		
KMI	65.8	280	eP	17 43 25.0	−0.4		

1986 6 5
O = 20 17 48.6 ± 0.06s
LAT = 14.48 N ± 1.11km
LONG = 146.92 E ± 1.15km
DEPTH = 33 km ± 0.16km
STATIONS USED = 13, STAND DEV = 0.97s

BJI	37.0	319	eP	20 24 57.0	−0.5
LZH	44.0	307	eP	20 25 56.5	0.8
GTA	48.1	310	−P	20 26 28.0	0.2

1986 6 5
O = 20 27 02.5 ± 0.14s
LAT = 51.83 N ± 4.85km
LONG = 174.43 W ± 1.75km
DEPTH = 30 km ± 0.35km
STATIONS USED = 71, STAND DEV = 0.79s
Ms = 5.1 / 11, m_B = 5.5 / 2

MDJ	37.2	282	eP	20 34 12.2	−0.8		
			S	20 40 00.0	3.4		
CN2	40.1	283	+P	20 34 37.0	−0.6		
			PMZ			2.5	0.30
			cPP	20 36 12.0	−2.0		
			eS	20 40 39.0	−3.2		
			LN	Ms = 5.2		19.0	2.00
SNY	42.4	282	+iP	20 34 57.0	0.8		
			PMZ	m_B = 5.7		6.0	0.79
			pP	20 35 10.0	5.0		
			S	20 41 18.0	3.4		
			LN	Ms = 5.0		18.0	1.19
			LE			20.0	0.42
DL2	45.3	280	P	20 35 19.4	−0.6		
BJI	47.9	284	eP	20 35 40.0	−0.5		
			eS	20 42 36.0	0.6		
			LN	Ms = 5.1		20.0	1.20
TIA	49.8	280	eP	20 35 54.5	−0.5		
			LN	Ms = 4.8		20.0	0.40
			LE			20.0	0.43
HHC	50.2	288	P	20 35 57.0	−0.9		
SSE	50.7	272	+P	20 36 02.3	0.3		
			PMZ			1.0	0.040
			eS	20 43 14.0	−0.3		
			LE	Ms = 4.8		18.0	0.58
BTO	51.2	289	−P	20 36 06.5	0.5		
			PP	20 38 04.0	1.2		
			eS	20 43 19.0	−2.7		
NJ2	51.5	275	−P	20 36 07.6	−0.4		
TIY	51.7	285	+P	20 36 10.0	0.8		
			PMZ			1.0	0.060
			sP	20 36 25.0	3.3		
			(S)	20 43 29.0	1.5		
			LN	Ms = 5.1		18.0	0.72
			LE			18.0	0.79
WHN	55.3	277	eP	20 36 35.2	−1.1		
			pP	20 36 50.0	4.7		
XAN	56.2	284	+iP	20 36 42.0	−0.8		
LZH	57.8	289	+iP	20 36 54.6	0.1		
			PMZ			2.0	0.13
GTA	57.9	294	+iP	20 36 53.6	−1.2		
			LN	Ms = 5.2		16.0	0.89
WMQ	61.3	305	+P	20 37 18.5	0.0		

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			PMZ			1.5	0.050
CD2	61.5	285	eP	20 37 30.0	11.1		
GYA	63.0	279	P	20 37 28.8	−0.6		
KMI	66.3	281	+P	20 37 51.0	−0.3		
LSA	69.8	292	P	20 38 14.3	1.0		
KSH	70.4	309	eP	20 38 18.0	1.4		
			eS	20 47 26.0	−0.6		

1986 6 5

O = 23 59 16.6 ± 0.03s
LAT = 39.49 N ± 0.32km
LONG = 103.43 E ± 0.19km
DEPTH = 29 km ± 0.01km
STATIONS USED = 5, STAND DEV = 1.40s

$M_L = 2.8 / 4$,

GTA	2.8	270	Pg	24 00 05.7	−0.7		
			Sn	24 00 38.6	4.4		
			SMN	$M_L = 2.9$		0.7	0.050

1986 6 6

O = 00 47 45.4 ± 0.07s
LAT = 21.74 N ± 1.34km
LONG = 120.99 E ± 1.28km
DEPTH = 27 km ± 1.10km
STATIONS USED = 69, STAND DEV = 1.69s
Ms = 5.0 / 34, M_L = 4.0 / 8, m_B = 5.4 / 5

QZH	3.9	326	ePn	00 48 43.0	−0.7		
			Sn	00 49 27.8	−2.4		
			SMN	$M_L = 3.9$		1.0	0.29
			SME			1.0	0.21
			LN	Ms = 4.1		12.0	3.74
			LE			11.0	3.61
GZH	7.2	282	cPn	00 49 31.5	2.1		
			Sn	00 50 48.0	−4.5		
			LN	Ms = 4.8		12.0	3.80
			LE			12.0	7.20
SSE	9.3	1	cP	00 49 58.5	−2.7		
			cSS	00 52 02.0	2.9		
			LG_2	00 52 59.0	6.1		
			LN	Ms = 4.5		12.0	3.26
NJ2	10.4	350	eP	00 50 14.0	−2.7		
			eS	00 52 09.0	−5.0		
			LN	Ms = 5.1		12.0	9.30
GYA	13.9	293	P	00 51 02.6	−0.7		
			S	00 53 37.4	0.2		
			LN	Ms = 4.9		11.0	2.70
			LE			11.0	2.80
TIA	14.8	348	eP	00 51 17.0	1.9		
			eS	00 54 08.5	9.3		
			LG_1	00 55 38.5	8.0		
			LN		Ms = 4.8	10.0	1.50
			LE			12.0	2.00
XAN	16.2	322	eP	00 51 34.0	0.5		
KMI	17.1	285	eP	00 51 45.0	0.5		
			eS	00 54 54.0	1.4		
			SS	00 55 12.0	−0.5		
			LN		Ms = 5.1	14.0	5.60
DL2	17.1	2	eP	00 51 46.0	1.4		
			eS	00 54 54.0	1.1		
			LN		Ms = 4.8	11.0	2.11
TIY	17.6	337	eP	00 51 49.5	−0.7		
			S	00 55 07.0	4.8		
			sS	00 55 15.0	1.4		
			LG_2	00 57 32.5	8.0		
			LN		Ms = 5.1	11.0	2.89
			LE			14.0	3.39
BJI	18.7	348	eP	00 52 04.5	0.3		
			PMZ		m_B = 5.3	4.0	0.55
			SMN		m_B = 4.8	11.0	0.37
			SME			11.0	0.39
			LG_2	00 58 05.0	2.7		
			LN		Ms = 4.9	12.0	2.56
SNY	20.1	6	eP	00 52 19.0	−1.6		
			eS	00 55 56.0	−4.7		
			LN		Ms = 4.9	27.0	1.93
			LE			25.0	4.28
HHC	20.7	339	P	00 52 25.2	−0.9		
			PP	00 52 45.0	−2.2		
			S	00 56 08.0	−2.0		
			LN		Ms = 5.2	12.0	3.35
			LE			12.0	2.78
LZH	20.7	317	+iP	00 52 27.0	0.6		
			PMZ			2.0	0.13
			S	00 56 16.0	5.6		
			SS	00 56 51.0	9.5		
			LN		Ms = 5.1	13.0	2.80
			LE			12.0	1.68
BTO	21.0	336	eP	00 52 30.0	0.6		
			cPP	00 52 51.0	−0.6		
			S	00 56 16.0	−0.2		
			LN		Ms = 5.2	17.0	3.30
			LE			16.0	3.90
CN2	22.3	9	+P	00 52 42.0	−0.6		
			PP	00 53 10.0	0.9		
			eS	00 56 43.0	1.3		
			eSS	00 57 28.0	6.3		
			LN		Ms = 5.0	13.0	2.50
MDJ	23.9	15	eP	00 52 58.5	0.4		
			S	00 57 10.0	0.9		
GTA	25.2	319	+P	00 53 11.0	−0.4		

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			eS	00 57 33.0	−0.1		
			LE	Ms=5.0		18.0	2.45
LSA	28.0	293	eP	00 53 31.0	−5.8		
WMQ	35.3	316	P	00 54 40.5	0.1		
KSH	42.1	305	eP	00 55 40.0	2.5		
			eS	01 01 59.0	3.4		
			LE	Ms=5.5		12.0	2.30

1986 6 6
O=04 12 31.1 ± 0.08s
LAT=43.89 N ± 2.53km
LONG=147.72 E ± 1.56km
DEPTH= 45 km ± 1.22km
STATIONS USED = 73, STAND DEV= 1.50s
Ms=4.7/ 18, m_B=5.1/ 2

MDJ	13.0	279	eP	04 15 37.1	1.0		
			pP	04 15 45.0	0.7		
			S	04 18 02.0	2.6		
CN2	16.1	277	+P	04 16 14.0	−1.7		
			pP	04 16 21.2	−3.1		
			PPP	04 16 34.0			
			eS	04 19 07.0	−4.7		
			eSS	04 19 33.0	2.4		
			LE	Ms=4.6		14.0	1.90
SNY	17.8	272	+P	04 16 35.5	−2.0		
			eS	04 19 50.0	−1.5		
			LN	Ms=4.7		16.0	1.41
			LE			20.0	2.03
DL2	20.2	265	eP	04 17 03.0	−1.6		
			pP	04 17 11.0	−3.8		
			eS	04 20 48.0	4.5		
			LN	Ms=4.4		12.0	0.68
BJI	23.7	272	eP	04 17 39.0	−0.9		
			eS	04 21 54.0	5.7		
			LN	Ms=4.7		16.0	1.26
SSE	24.5	248	P	04 17 49.8	2.1		
			PMZ			1.0	0.020
			sP	04 17 59.0	−4.6		
			sS	04 22 18.0	−2.6		
			LN	Ms=4.7		18.0	1.36
TIA	24.5	262	eP	04 17 48.7	0.5		
			SME	m_B=5.1		10.0	0.50
			LE	Ms=4.7		17.0	1.30
NJ2	25.5	252	+P	04 17 58.2	0.9		
			LE	Ms=4.9		17.0	1.80
HHC	26.8	276	−P	04 18 08.2	−0.8		
			LN	Ms=4.9		15.0	1.21
			LE			15.0	1.05
TIY	27.3	269	P	04 18 14.5	0.8		
			sP	04 18 25.0	−4.6		
			(S)	04 22 55.5	7.4		
			sS	04 23 02.5	−4.4		
			LN	Ms=4.6		13.0	0.56
			LE			14.0	0.40
BTO	27.9	276	P	04 18 19.5	−0.4		
			cPP	04 19 07.0	−2.3		
			S	04 22 58.0	0.1		
			csS	04 23 08.0	−9.8		
			LN	Ms=4.9		14.0	1.00
			LE			14.0	1.00
WHN	29.5	254	P	04 18 33.5	−0.2		
			LE	Ms=4.7		13.0	0.69
XAN	31.5	265	P	04 18 50.5	−0.8		
LZH	34.2	272	P	04 19 15.0	0.2		
			PMZ			1.4	0.11
GTA	35.7	280	+P	04 19 27.4	−0.2		
			LE	Ms=4.8		13.0	0.76
CD2	36.8	264	eP	04 19 38.0	0.8		
GYA	37.4	256	P	04 19 41.6	−0.1		
			S	04 25 25.4	0.5		
KMI	40.9	258	eP	04 20 11.5	−0.2		
WMQ	42.4	292	+P	04 20 24.0	0.3		
			PMZ			1.2	0.070
			eS	04 26 39.0	−3.0		
LSA	46.6	272	eP	04 20 57.4	−0.2		

1986 6 6
O=05 03 03.5 ± 0.13s
LAT=40.82 N ± 1.20km
LONG=122.93 E ± 1.17km
DEPTH= 3 km ± 0.40km
STATIONS USED = 14, STAND DEV= 2.58s
M_L=3.8/ 12,

DL2	2.2	208	ePn	05 03 39.5	−1.1		
			Pg	05 03 39.8	−1.7		
			Sg	05 04 06.0	−5.0		
			SMN	M_L=4.0		0.5	1.10
			SME			0.5	1.10
CN2	3.5	31	(Pn)	05 03 57.0	−2.3		
			Pg	05 04 10.4	4.9		
			Sn	05 04 41.6	−1.8		
			Sg	05 04 56.0	2.4		
			SMN	M_L=3.7		0.6	0.17
			SME			0.6	0.29
BJI	5.2	264	ePg	05 04 40.0	4.4		
			Sg	05 05 51.0	4.2		
MDJ	6.2	50	ePg	05 04 58.0	4.9		
			eSg	05 06 19.8	2.0		
			SMN	M_L=4.1		0.6	0.12

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1986 6 6
O=10 39 46.6 ± 0.14s
LAT=38.18 N ± 3.11km
LONG= 37.93 E ± 1.51km
DEPTH= 9 km ± 0.08km
STATIONS USED = 80, STAND DEV= 1.30s
Ms=6.1/38, m_B=6.1/23

KSH	29.5	75	+iP	10 45 55.3	1.2		
			PP	10 46 50.0	0.8		
			iS	10 50 48.0	0.0		
			LN	Ms=6.2		11.0	18.0
WMQ	37.5	65	+P	10 47 04.5	1.3		
			PMZ	m_B=6.1		6.0	1.87
			PP	10 48 30.0	−0.6		
			S	10 52 53.0	2.0		
			LN	Ms=6.3		13.0	18.8
			LE			12.0	9.60
LSA	44.4	84	P	10 47 59.0	−1.6		
			pP	10 48 10.0	4.4		
			PP	10 49 40.0	−4.6		
			S	10 54 35.0	1.2		
			LE	Ms=5.4		14.0	2.21
GTA	47.4	68	+iP	10 48 24.2	0.4		
			PMZ	m_B=5.9		7.0	1.34
			iPP	10 50 16.0	2.3		
			PPMZ			7.0	1.85
			S	10 55 17.0	0.9		
			SMN	m_B=5.9		10.5	1.65
			LE	Ms=5.6		20.0	4.16
LZH	51.6	71	+iP	10 48 56.5	0.6		
			PMZ			1.0	0.32
			eS	10 56 10.0	−5.8		
			LN	Ms=6.0		15.0	6.08
			LE			10.0	0.70
CD2	53.7	77	+P	10 49 11.5	−0.2		
			(S)	10 56 49.0	4.4		
			LE	Ms=5.9		13.0	4.84
BTO	54.3	63	−P	10 49 16.5	0.4		
			PMZ	m_B=6.0		6.0	1.40
			PP	10 51 21.0	2.4		
			S	10 56 51.0	−0.4		
			LN	Ms=6.2		19.0	11.2
			LE			19.0	7.40
HHC	55.3	62	+P	10 49 22.5	−0.9		
			PP	10 51 22.0	−5.5		
			S	10 57 06.5	1.9		
			LN	Ms=5.7		11.0	1.07
			LE			13.0	2.36
KMI	55.7	83	+P	10 49 25.5	−0.8		
			PMZ	m_B=6.2		5.0	1.60
			sP	10 49 31.5	−2.7		
			PP	10 51 33.0	2.0		
			cS	10 57 13.0	1.6		
			ScS	10 59 04.0	−7.0		
			SS	11 01 04.0	9.3		
			LN	Ms=5.9		20.0	6.00
TIY	57.2	65	+P	10 49 36.5	−0.5		
			PMZ	m_B=6.2		5.0	1.84
			S	10 57 30.0	0.1		
			LN	Ms=6.1		15.0	6.25
			LE			14.0	4.27
BJI	58.8	61	eP	10 49 48.0	−0.4		
			PMZ	m_B=5.9		6.0	1.07
			cS	10 58 00.0	7.5		
			SMN	m_B=6.0		12.0	1.69
			SME			8.0	1.04
			LN	Ms=6.3		18.0	13.3
TIA	61.2	65	eP	10 50 04.8	0.0		
			cS	10 58 13.5	−9.9		
			SMN	m_B=5.9		10.5	0.81
			SME			9.0	0.96
			LN	Ms=6.0		15.0	1.95
			LE			15.0	4.66
WHN	61.9	72	+iP	10 50 09.0	−0.4		
			PMZ	m_B=6.3		5.0	2.22
			S	10 58 25.0	−5.9		
			SMN	m_B=5.8		11.0	1.20
			LN	Ms=6.0		16.0	5.38
SNY	63.0	57	+P	10 50 15.0	−1.9		
			PMZ	m_B=6.1		6.0	1.42
			S	10 58 44.0	−0.9		
			SMN			20.0	2.06
			LN	Ms=6.6		23.0	25.7
			LE			25.0	17.8
DL2	63.1	60	+P	10 50 16.0	−1.4		
			eS	10 58 40.0	−7.1		
			LN	Ms=6.0		15.0	3.20
			LE			15.0	3.80
CN2	63.3	54	+iP	10 50 17.0	−1.7		
			PMZ	m_B=6.3		4.5	1.90
			PP	10 52 40.0	1.4		
			S	10 58 45.0	−3.4		
			SMN	m_B=6.1		9.0	1.50
			SME			9.0	0.90
			eSS	11 02 50.0	−6.7		
			LN	Ms=6.5		16.5	6.00
			LE			16.5	15.3
NJ2	64.5	68	+P	10 50 26.0	−0.5		
			PMZ			3.0	1.10
			S	10 59 04.5	1.3		

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			LN	Ms=6.1	14.0	5.60
GZH	65.0	80	eP	10 50 30.0	0.2		
			PMZ	m_B=6.3	6.0	2.25
			S	10 59 15.0	5.7		
			SMN		16.0	2.00
			LN	Ms=6.0	22.0	5.62
			LE		21.0	3.80
MDJ	65.5	52	eP	10 50 32.0	−1.1		
			PP	10 52 56.0	−2.7		
			S	10 59 12.0	−3.7		
			SS	11 03 25.0	−5.6		
			SMN		16.0	1.50
SSE	66.7	68	−P	10 50 40.0	−0.6		
			PMZ		1.0	0.080
			PP	10 53 09.0	0.6		
			PPMZ		7.0	1.16
			cS	10 59 28.0	−3.3		
			sS	10 59 35.0	−5.5		
			LN	Ms=6.1	17.0	4.63
			LE		14.0	3.51

1986 6 6
O=10 40 48.2 ± 0.18s
LAT=23.88 N ± 1.98km
LONG=121.66 E ± 1.97km
DEPTH= 35 km ± 0.41km
STATIONS USED = 47, STAND DEV= 2.33s
Ms=4.7/ 16, M_L=4.5/ 8,

QZH	3.0	291	eP	10 41 32.8	−1.6		
			S	10 42 09.4	0.2		
			SMN	M_L=4.4	0.7	1.78
			SME		0.7	1.04
			LN		8.0	10.0
			LE		8.0	6.98
SSE	7.2	357	eP	10 42 30.0	−3.9		
			LG_1	10 44 31.0	−3.4		
			LG_2	10 44 42.0	−3.8		
			LN	Ms=4.4	8.0	2.41
			LE		8.0	0.93
GZH	7.7	266	eP	10 42 40.4	−0.1		
			cS	10 44 04.5	−2.5		
			LN	Ms=4.6	8.0	1.89
			LE		8.0	3.10
NJ2	8.5	344	+P	10 42 51.0	−1.1		
			S	10 44 27.4	−0.3		
			LG_2	10 45 21.5	−7.5		
			LN	Ms=5.2	8.0	11.8
WHN	9.3	317	eP	10 43 02.0	−0.9		
			S	10 44 43.5	−3.6		
			LN	Ms=4.7	8.0	3.35
TIA	12.9	343	eP	10 43 49.7	−2.4		
			cS	10 46 11.0	−4.3		
			LG_2	10 47 49.0	−4.8		
			LN	Ms=4.7	10.0	1.20
			LE		9.0	1.93
GYA	13.8	284	P	10 44 02.4	−1.9		
			S	10 46 29.4	−7.5		
			LN	Ms=4.8	10.0	1.90
			LE		10.0	2.00
XAN	15.0	315	eP	10 44 19.6	−0.7		
			LG_2	10 48 56.6	−8.0		
TIY	15.9	332	eP	10 44 35.6	4.4		
			LN	Ms=5.0	9.0	3.07
			LE		9.5	1.13
BJI	16.8	345	eP	10 44 25.0	−16.8		
KMI	17.3	278	eP	10 44 52.5	3.8		
CD2	17.4	298	eP	10 44 51.2	1.5		
SNY	18.0	5	eP	10 45 01.3	4.0		
			cS	10 48 18.0	4.2		
			LE	Ms=4.7	16.0	2.15
LZH	19.6	312	P	10 45 20.0	3.1		
			PMZ		2.0	0.080
CN2	20.1	8	eP	10 45 20.0	−2.1		
MDJ	21.7	15	eP	10 45 39.0	0.9		
GTA	24.1	315	eP	10 46 03.8	1.6		

1986 6 6
O=13 25 59.5 ± 0.50s
LAT= 4.31 S ± 1.28km
LONG=152.66 E ± 3.63km
DEPTH=101 km ± 3.16km
STATIONS USED = 36, STAND DEV= 1.21s

SSE	46.3	322	eP	13 34 17.5	0.5	
NJ2	48.4	321	+P	13 34 35.0	1.6	
MDJ	52.9	339	−P	13 35 07.0	−0.9	
SNY	53.0	333	eP	13 35 07.3	−1.3	
CN2	53.8	336	−P	13 35 13.5	−0.9	
GYA	54.0	307	P	13 35 17.0	1.1	
TIY	56.1	322	eP	13 35 30.6	−0.3	
XAN	56.2	316	−P	13 35 31.2	−0.5	
KMI	56.6	304	+P	13 35 35.5	0.6	
CD2	58.3	310	eP	13 35 47.4	0.7	
GTA	65.2	317	eP	13 36 32.7	−0.3	
WMQ	75.3	317	P	13 37 34.4	0.4	

1986 6 6
O=15 04 22.7 ± 0.23s
LAT=19.98 N ± 2.37km
LONG=121.02 E ± 3.98km
DEPTH= 21 km ± 0.20km

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STATIONS USED = 15, STAND DEV = 3.56s
M_L = 3.5 / 3,

GZH	7.8	295	+Pn	15 06 16.5	1.2	
GYA	14.7	299	eP	15 07 58.4	6.9	
CD2	19.0	308	eP	15 08 46.8	0.9	
TIY	19.2	339	eP	15 08 50.2	2.0	
BJI	20.4	349	eP	15 09 00.0	−1.5	

1986 6 6
O = 15 50 11.9 ± 0.12s
LAT = 23.92 N ± 0.79km
LONG = 121.53 E ± 0.40km
DEPTH = 30 km ± 0.85km
STATIONS USED = 6, STAND DEV = 3.43s

1986 6 6
O = 17 46 04.2 ± 0.22s
LAT = 40.09 N ± 1.44km
LONG = 76.77 E ± 1.26km
DEPTH = 15 km ± 1.02km
STATIONS USED = 19, STAND DEV = 2.12s
M_L = 4.3 / 5,

KSH	0.9	224	−iPg	17 46 19.6	−0.5		
			Sg	17 46 36.6	4.4		
			LE			0.6	34.9
WMQ	8.9	62	cP	17 48 17.6	1.3		
			S	17 49 59.5	2.1		
			LN			1.4	0.090
			LE			1.4	0.11
GTA	17.7	85	eP	17 50 13.7	1.1		
			LG_2	17 55 55.0	5.9		
LZH	21.6	92	eP	17 50 56.0	−0.6		
XAN	26.3	93	eP	17 51 40.4	−0.8		
GYA	28.3	110	eP	17 52 18.4	19.2		

1986 6 6
O = 20 48 41.4 ± 0.16s
LAT = 17.00 N ± 2.50km
LONG = 120.87 E ± 3.65km
DEPTH = 17 km ± 0.40km
STATIONS USED = 20, STAND DEV = 2.59s

XAN	20.1	330	eP	20 53 17.0	−0.3
CD2	20.8	315	eP	20 53 27.2	1.9
TIY	21.9	342	eP	20 53 40.5	4.2
BJI	23.3	351	eP	20 53 49.0	−0.9
SNY	24.8	5	eP	20 54 00.9	−3.9
CN2	27.0	7	eP	20 54 40.0	15.6
WMQ	38.7	321	P	20 56 10.9	3.9

1986 6 6
O = 21 43 59.8 ± 0.06s
LAT = 25.76 N ± 1.12km
LONG = 124.57 E ± 0.80km
DEPTH = 181 km ± 0.86km
STATIONS USED = 91, STAND DEV = 1.28s
M_L = 4.3 / 4, m_B = 5.3 / 7

QZH	5.5	263	+iP	21 45 19.5	−1.3		
			PMZ			1.5	3.88
			sP	21 45 56.0	−3.8		
			S	21 46 19.5	−3.8		
			LN			5.0	1.79
SSE	6.1	332	+iP	21 45 29.4	0.5		
			PMZ			1.0	0.46
			S	21 46 37.0	−1.0		
			LN			10.0	1.53
			LE			4.0	0.91
NJ2	8.0	323	+iP	21 45 55.0	0.6		
			PMZ			3.0	4.20
			S	21 47 25.0	1.4		
			SMN	m_B = 5.3		11.0	2.90
			LN			11.0	2.30
WHN	10.2	300	P	21 46 24.0	1.2		
			cS	21 48 16.0	1.1		
			LN			6.0	1.80
GZH	10.6	258	+P	21 46 26.5	−1.2		
			LN			1.0	0.12
			LE			1.0	0.050
TIA	12.2	330	P	21 46 50.5	1.5		
			cS	21 49 11.5	9.5		
DL2	13.3	350	−P	21 47 05.5	2.2		
			cS	21 49 30.0	2.1		
TIY	15.7	322	−P	21 47 35.2	1.8		
			PMZ			1.3	3.60
			sP	21 48 23.0	2.1		
			SMN	m_B = 5.0		8.5	0.57
			LN			16.0	0.67
			LE			20.0	0.35
XAN	15.9	305	−iP	21 47 35.7	0.8		
BJI	15.9	336	eP	21 47 35.0	0.1		
			PMZ	m_B = 5.5		4.0	0.78
			cS	21 50 30.0	4.6		
			LN			12.0	0.34
SNY	16.0	357	−iP	21 47 38.1	1.1		
			PMZ	m_B = 5.8		3.5	1.38
			sP	21 48 21.0	−3.8		
			iS	21 50 34.0	4.8		
			SME			16.0	1.05
GYA	16.1	276	+P	21 47 39.0	1.2		
			sP	21 48 27.8	2.3		
			S	21 50 32.0	2.1		

			ScS	21 59 19.0	2.7		
CN2	18.0	2	P	21 48 00.0	0.1		
			PMZ			1.5	0.60
			sP	21 48 47.0	−2.9		
			S	21 51 16.5	5.0		
			SMN	m_B = 5.2		7.0	0.30
			SME			7.0	0.70
HHC	18.5	328	−iP	21 48 04.0	−1.4		
			eS	21 51 30.0	7.1		
CD2	19.0	290	−iP	21 48 10.0	−0.4		
			PMZ			1.0	0.16
			S	21 51 33.0	1.5		
BTO	19.1	324	+iP	21 48 11.0	−0.5		
			sP	21 49 02.0	−1.9		
			eS	21 51 31.0	−3.5		
MDJ	19.2	11	+iP	21 48 12.4	−0.3		
			PMZ			0.6	0.070
			sP	21 49 04.0	−1.4		
			S	21 51 38.0	2.1		
			PcP	21 52 28.3	0.6		
KMI	19.7	273	−P	21 48 19.0	1.2		
			PP	21 48 48.5	2.7		
			sP	21 49 11.0	−0.2		
			S	21 51 53.0	8.4		
			SMN	m_B = 5.1		6.0	0.51
LZH	20.5	305	−iP	21 48 25.5	−0.2		
			PMZ			1.5	0.070
GTA	24.8	309	−iP	21 49 06.0	−1.2		
			PMZ			1.0	0.10
			pP	21 49 42.5	0.1		
			PcP	21 52 40.0	1.2		
			eS	21 53 10.0	−4.4		
			SMN			18.0	0.58
			sS	21 54 10.0	−6.5		
			SS	21 54 24.0	−6.2		
			PcS	21 56 18.0	0.6		
			LE			9.0	0.29
LSA	29.8	285	−iP	21 49 51.2	−1.4		
WMQ	34.9	311	P	21 50 35.7	−0.5		
			PMZ			2.0	0.20
			pP	21 51 11.5	−2.4		
			PcP	21 53 05.5	0.9		
			ScP	21 56 36.0	4.5		
			ScS	22 00 37.5	3.3		
KSH	42.7	301	−iP	21 51 44.3	3.6		
			pP	21 52 22.0	2.6		
			sP	21 52 44.0	4.2		
			eS	21 57 54.0	3.7		

1986 6 7

O = 01 46 39.2 ± 0.13s
LAT = 39.98 N ± 3.12km
LONG = 54.09 E ± 1.86km
DEPTH = 37 km ± 0.26km
STATIONS USED = 70, STAND DEV = 1.11s
Ms = 4.9 / 6,

KSH	16.8	85	P	01 50 29.0	−5.2		
			pP	01 50 36.5	−5.6		
			sP	01 50 43.0	−4.1		
			S	01 53 30.0	−8.3		
			LN	Ms = 5.4		5.0	3.30
WMQ	25.2	70	P	01 52 04.5	1.0		
			PMZ			1.2	0.21
			pP	01 52 16.0	3.0		
			PP	01 52 44.5	3.0		
			S	01 56 27.0	4.1		
			sS	01 56 48.0	8.3		
			LG_2	02 00 35.0	4.2		
GTA	34.9	76	+iP	01 53 30.0	0.2		
			LN	Ms = 4.8		9.0	0.48
LZH	39.0	79	P	01 54 05.0	0.8		
			PMZ			0.7	0.030
			pP	01 54 14.0	−0.1		
CD2	41.0	87	eP	01 54 21.6	0.6		
BTO	42.0	70	eP	01 54 30.3	0.8		
			pP	01 54 41.0	1.6		
			eS	02 00 48.0	1.9		
KMI	43.1	95	+P	01 54 38.0	−0.1		
			pP	01 54 49.0	1.0		
			S	02 00 53.0	−7.0		
HHC	43.1	69	P	01 54 37.4	−0.6		
XAN	43.6	80	+iP	01 54 42.2	0.0		
			pP	01 54 53.4	1.1		
TIY	44.8	73	P	01 54 51.8	0.0		
			eS	02 01 25.0	−1.1		
			LN	Ms = 4.9		10.0	0.41
GYA	45.4	91	+P	01 54 56.0	−0.6		
			pP	01 55 07.4	0.8		
			S	02 01 34.8	1.3		
BJI	46.7	69	eP	01 55 07.0	0.5		
TIA	48.8	73	eP	01 55 23.7	0.2		
WHN	49.3	81	P	01 55 27.0	0.2		
DL2	51.0	68	P	01 55 39.4	−0.6		
SNY	51.2	64	eP	01 55 41.2	−0.5		
CN2	51.7	61	+P	01 55 44.5	−1.1		
GZH	52.3	90	−P	01 55 59.5	10.2		
SSE	54.2	77	eP	01 56 01.0	−2.7		
			pP	01 56 14.7	0.7		
			LE	Ms = 4.7		28.0	0.64

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1986 6 7
O=03 08 42.7 ± 0.15s
LAT= 7.64 S ± 1.74km
LONG=106.04 E ± 1.90km
DEPTH= 40 km ± 0.26km
STATIONS USED = 10, STAND DEV= 1.18s

GTA	47.2	353	+P	03 17 14.0	0.2	
BJI	48.4	10	(P)	03 17 22.0	−0.9	
CN2	54.1	17	eP	03 18 06.4	−0.3	

1986 6 7
O=04 18 20.3 ± 0.27s
LAT=22.28 S ± 4.21km
LONG=170.27 E ± 3.06km
DEPTH= 23 km ± 0.38km
STATIONS USED = 65, STAND DEV= 1.62s
m_B=5.5/ 2

SSE	70.9	317	P	04 29 37.5	−1.0		
			PMZ			1.6	0.050
			S	04 38 52.0	1.6		
WHN	75.1	312	eP	04 30 01.5	−1.5		
DL2	76.0	323	P	04 30 08.0	−0.2		
MDJ	76.2	331	eP	04 30 08.5	−1.0		
TIA	76.8	318	eP	04 30 12.4	−0.6		
SNY	77.0	326	eP	04 30 12.6	−1.4		
CN2	77.5	328	P	04 30 15.4	−1.4		
GYA	78.3	305	P	04 30 21.8	0.4		
BJI	79.9	321	eP	04 30 29.0	−0.7		
			eS	04 40 30.0	−0.9		
KMI	80.7	302	eP	04 30 35.0	0.8		
			S	04 40 45.0	7.4		
			SMN	m_B=5.6		7.0	0.30
TIY	80.7	317	eP	04 30 34.5	0.3		
			S	04 40 45.0	7.2		
			SME	m_B=5.4		10.0	0.31
XAN	80.9	312	+iP	04 30 35.0	0.1		
CD2	82.8	307	eP	04 30 45.8	0.6		
HHC	83.1	319	P	04 30 46.2	−0.6		
BTO	83.9	318	P	04 30 51.0	0.1		
LZH	85.5	312	P	04 30 59.5	0.9		
			PMZ			2.0	0.080
GTA	89.9	313	+P	04 31 19.7	−0.2		
LSA	91.9	301	P	04 31 29.0	−0.7		
WMQ	100.0	313	P	04 32 05.8	−0.2		

1986 6 7
O=09 52 46.7 ± 0.17s
LAT=28.45 N ± 2.12km
LONG=140.70 E ± 2.65km
DEPTH= 34 km ± 0.29km

STATIONS USED = 59, STAND DEV= 1.99s
Ms=4.8/23, m_B=5.6/24

SSE	17.1	284	+P	09 56 46.0	0.6		
			PMZ	m_B=5.5		6.0	1.53
			sP	09 57 06.0	8.2		
			sS	10 00 06.0	0.3		
			SS	10 00 13.0	−1.3		
			LN	Ms=4.8		10.0	1.20
			LE			9.0	1.18
MDJ	18.4	334	eP	09 57 01.0	−0.1		
			S	10 00 28.0	6.5		
DL2	19.0	308	eP	09 57 08.0	0.2		
			PMZ	m_B=5.5		5.0	1.30
			pP	09 57 20.0	4.5		
			eS	10 00 33.0	−1.5		
			SMN	m_B=5.7		7.0	1.70
			SME			9.0	1.80
			LN	Ms=4.9		10.0	1.10
			LE			10.0	1.40
SNY	19.3	318	−P	09 57 10.0	−1.6		
			pP	09 57 20.0	0.5		
			eS	10 00 36.0	−6.1		
			sS	10 00 54.0	−0.4		
			LN	Ms=4.8		11.0	1.14
			LE			10.0	1.12
CN2	19.6	325	−P	09 57 14.0	−1.1		
QZH	20.1	265	P	09 57 18.5	−1.5		
			PMZ	m_B=5.5		5.0	1.26
			pP	09 57 31.5	3.0		
			PP	09 57 44.0	4.7		
			S	10 00 51.0	−7.1		
			SS	10 01 18.0	−8.8		
TIA	21.3	297	eP	09 57 32.7	−0.5		
			PMZ	m_B=5.8		5.0	2.16
			S	10 01 19.5	−3.2		
			SMN	m_B=5.8		7.0	0.89
			SME			6.0	1.70
			LE	Ms=4.1		10.0	0.25
WHN	23.0	282	+iP	09 57 52.0	2.1		
			PMZ	m_B=5.9		5.0	2.53
			pP	09 58 04.0	5.1		
			PP	09 58 26.0	6.4		
			eS	10 02 00.0	5.9		
			SMN	m_B=5.7		8.0	1.94
			LN	Ms=4.9		9.0	1.18
BJI	23.3	306	eP	09 57 51.0	−1.3		
			PMZ	m_B=5.5		6.0	1.17
			epP	09 58 05.0	3.7		
			eS	10 02 07.0	8.6		
			SMN	m_B=5.7		7.0	1.63

			SME			9.0	1.11
			LN	Ms=4.6		11.0	0.67
GZH	25.2	264	+P	09 58 14.0	3.2		
TIY	25.3	299	−P	09 58 13.0	0.5		
			(S)	10 02 36.5	2.2		
			sS	10 02 54.5	5.4		
			LN	Ms=4.8		13.0	0.87
			LE			12.0	0.61
HHC	26.8	305	+P	09 58 25.0	−1.4		
			S	10 02 57.0	−0.9		
			LE	Ms=4.7		11.0	0.69
XAN	27.7	290	eP	09 58 32.4	−1.5		
BTO	27.9	304	+P	09 58 35.0	−1.0		
			PMZ	m_B=5.8		6.0	1.30
			pP	09 58 50.0	5.0		
			S	10 03 12.0	−2.8		
			LN	Ms=4.6		13.0	0.50
			LE			13.0	0.40
LZH	31.9	293	P	09 59 11.5	−0.5		
			PMZ	m_B=5.4		4.5	0.30
CD2	32.1	284	eP	09 59 14.0	0.7		
			LE	Ms=5.0		11.0	1.08
KMI	34.0	273	+P	09 59 31.0	1.4		
			PMZ	m_B=5.6		5.0	0.50
			PP	10 00 50.0	7.0		
GTA	35.4	299	−P	09 59 40.4	−1.3		
			PMZ	m_B=5.9		5.0	0.95
			cPP	10 01 03.5	2.3		
			PPMZ			10.0	0.53
			S	10 05 13.0	0.7		
			SMN	m_B=5.3		7.0	0.43
			LN	Ms=4.8		9.0	0.45
LSA	43.1	284	eP	10 00 49.0	3.1		
			eS	10 07 15.0	5.3		
WMQ	44.7	305	P	10 00 57.5	−1.5		
KSH	53.8	300	−P	10 02 09.9	1.2		
			pP	10 02 25.7	7.5		
			PP	10 04 13.4	3.2		
			eS	10 09 40.0	0.3		

1986 6 7
O=12 26 13.3 ± 0.19s
LAT=20.39 S ± 4.09km
LONG=177.54 W ± 3.21km
DEPTH=414 km ± 0.73km
STATIONS USED = 30, STAND DEV= 2.38s

MDJ	80.7	325	cP	12 37 44.0	0.4		
CN2	82.5	322	−P	12 37 52.8	0.0		
BJI	86.1	315	cP	12 38 11.0	0.2		
XAN	88.4	307	cP	12 38 23.0	1.3		
KMI	89.7	297	+P	12 38 20.0	−7.8		

1986 6 7
O=12 26 23.9 ± 0.29s
LAT= 5.02 S ± 3.51km
LONG= 76.65 W ± 7.54km
DEPTH= 93 km ± 2.86km
STATIONS USED = 25, STAND DEV= 2.85s

GTA	145.6	5	−iPKP	12 45 51.6	−1.1		
TIY	146.4	347	ePKP	12 45 54.0	0.0		
LZH	149.1	359	PKP	12 45 58.0	−0.4		
SSE	149.1	329	+PKP	12 46 00.8	2.6		
NJ2	149.4	333	+PKP	12 46 02.0	3.2		
XAN	150.7	351	−iPKP	12 46 05.3	4.5		

1986 6 7
O=12 39 00.5 ± 0.21s
LAT= 5.14 S ± 1.56km
LONG=152.10 E ± 4.21km
DEPTH= 70 km ± 0.30km
STATIONS USED = 23, STAND DEV= 1.58s
Ms=4.7/ 2,

SNY	53.5	334	eP	12 48 44.3	28.5		
			LN	Ms=4.7		30.0	0.59
BJI	55.8	327	(P)	12 48 46.0	13.5		
XAN	56.4	317	eP	12 48 35.2	−2.3		
KMI	56.6	305	eP	12 48 40.0	0.8		
CD2	58.4	311	eP	12 48 51.2	−0.7		
LZH	61.0	316	eP	12 49 08.0	−1.6		
GTA	65.4	318	eP	12 49 39.0	0.1		
WMQ	75.5	318	P	12 50 40.0	0.1		

1986 6 7
O=15 56 58.4 ± 0.10s
LAT=22.92 N ± 1.30km
LONG=121.38 E ± 1.23km
DEPTH= 47 km ± 0.71km
STATIONS USED = 49, STAND DEV= 1.77s
Ms=4.2/ 4, M_L=4.2/ 8,

QZH	3.2	309	−iP	15 57 47.5	−0.8		
			S	15 58 23.0	−2.0		
			SMN	M_L=4.2		1.2	1.10
			SME			0.2	0.36
GZH	7.4	273	+iP	15 58 46.2	−0.4		
			iS	16 00 02.0	−7.2		
			LN			1.0	0.13
			LE			1.0	0.070
SSE	8.1	359	eP	15 58 55.2	−1.6		
			LG_1	16 01 09.8	−4.4		
			LG_2	16 01 24.0	−3.1		

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			LE	Ms=4.1		5.0	0.66
NJ2	9.4	347	eP	15 59 13.4	−0.3		
			S	16 00 52.0	−5.7		
			LE	Ms=4.2		7.0	0.80
WHN	9.9	322	P	15 59 19.0	−1.4		
			S	16 01 02.5	−7.1		
			LN			3.0	1.12
GYA	13.8	288	P	16 00 15.0	1.0		
			S	16 02 50.0	4.2		
XAN	15.6	318	eP	16 00 36.4	0.0		
TIY	16.6	334	eP	16 00 55.0	5.1		
			LG_2	16 06 06.0	−1.0		
			LN	Ms=4.3		13.0	0.48
			LE			12.0	0.48
CD2	17.6	301	eP	16 01 04.1	2.0		
BJI	17.6	347	eP	16 01 03.5	1.2		
HHC	19.7	337	P	16 01 27.0	0.2		
BTO	20.1	334	eP	16 01 31.0	0.2		
LZH	20.1	315	eP	16 01 33.0	1.9		
MDJ	22.7	15	eP	16 01 56.2	−0.7		

1986 6 7
O=15 58 59.2 ± 0.11s
LAT=51.71 N ± 3.96km
LONG=175.08 W ± 1.76km
DEPTH= 31 km ± 0.48km
STATIONS USED = 48, STAND DEV= 1.40s
Ms=4.8/ 5,

MDJ	36.8	281	eP	16 06 05.6	−1.0		
CN2	39.8	283	eP	16 06 30.8	−0.4		
SNY	42.0	281	+P	16 06 50.0	0.2		
			cS	16 13 05.0	−1.7		
			LN	Ms=4.8		20.0	0.61
			LE			20.0	0.48
DL2	44.9	279	eP	16 07 14.0	0.4		
BJI	47.6	284	eP	16 07 35.0	0.7		
TIA	49.4	280	eP	16 07 49.0	0.3		
SSE	50.3	272	eP	16 07 54.0	−1.6		
			ePP	16 09 48.0	−3.4		
			PS	16 15 12.0			
NJ2	51.1	274	eP	16 08 03.5	1.8		
TIY	51.3	284	P	16 08 04.3	1.2		
			LE	Ms=4.9		20.0	0.65
GTA	57.6	294	P	16 08 43.9	−5.3		
			LE	Ms=5.0		15.0	0.61
WMQ	61.1	305	P	16 09 14.0	0.6		
CD2	61.2	284	eP	16 09 14.7	0.8		
GYA	62.6	279	P	16 09 24.4	0.9		

1986 6 7
O=19 15 55.6 ± 0.49s
LAT=15.09 S ± 8.94km
LONG=175.81 W ± 4.42km
DEPTH= 31 km ± 0.97km
STATIONS USED = 28, STAND DEV= 2.72s
Ms=5.2/ 1,

MDJ	77.4	323	eP	19 27 54.7	4.7		
			S	19 37 42.0	6.1		
CN2	79.4	321	eP	19 27 57.0	−3.9		
SNY	79.5	319	eP	19 28 00.6	−1.0		
BJI	83.6	314	(P)	19 28 23.0	0.1		
			eS	19 38 44.0	2.0		
TIY	85.3	311	e(P)	19 28 35.0	3.4		
			(S)	19 39 06.0	6.9		
			sS	19 39 24.0	9.8		
			LE	Ms=5.2		18.0	0.63
XAN	86.6	306	eP	19 28 36.8	−1.1		
HHC	87.1	314	P	19 28 44.0	3.4		
BTO	88.1	313	eP	19 28 45.3	−0.1		
GTA	95.2	309	eP	19 29 15.0	−3.2		

1986 6 7
O=21 06 41.2 ± 0.09s
LAT=51.37 N ± 2.40km
LONG=179.93 E ± 0.95km
DEPTH= 32 km ± 0.05km
STATIONS USED = 43, STAND DEV= 2.00s

CN2	36.8	280	eP	21 13 47.0	−1.1		
SNY	39.0	279	eP	21 14 07.3	0.7		
BJI	44.6	281	eP	21 14 53.5	0.9		
TIA	46.4	276	eP	21 15 06.8	0.0		
HHC	46.9	285	P	21 15 11.0	−0.2		
BTO	48.0	286	P	21 15 21.4	1.6		
TIY	48.3	281	eP	21 15 24.0	1.8		
XAN	52.9	280	eP	21 15 56.5	−0.3		
LZH	54.6	285	eP	21 16 10.5	0.8		
			PMZ			1.5	0.020
GTA	54.8	291	+P	21 16 10.1	−1.1		
WMQ	58.7	302	P	21 16 39.0	0.4		
LSA	66.7	289	P	21 17 21.0	−11.2		

1986 6 7
O=22 02 10.5 ± 0.22s
LAT=24.41 N ± 2.49km
LONG=121.00 E ± 1.87km
DEPTH= 13 km ± 0.58km
STATIONS USED = 28, STAND DEV= 4.57s
Ms=3.8/ 2, M_L=3.6/ 7,

QZH	2.3	284	−iPn	22 02 48.9	1.0
			Sg	22 03 22.7	1.5

			SMN		$M_L = 3.4$	0.1	0.33
			SME			0.1	0.16
SSE	6.7	1	ePn	22 03 38.5	−9.9		
			LG_1	22 05 36.0	−3.8		
			LN			1.0	0.040
			LE			1.0	0.060
GZH	7.1	261	ePn	22 03 57.5	2.5		
			eSn	22 05 21.0	2.7		
			LN			1.0	0.080
NJ2	7.8	347	ePn	22 03 58.5	−6.2		
			LE			3.0	0.60
WHN	8.5	317	e(P)	22 04 11.0	−5.4		
			eS	22 05 49.0	−3.9		
			LN	Ms = 4.1		5.0	0.55
GYA	13.1	282	P	22 05 19.4	−0.2		
			S	22 07 48.0	2.2		
CD2	16.6	297	eP	22 06 02.9	−1.8		
CN2	19.7	10	eP	22 06 40.8	−1.6		
GTA	23.3	315	eP	22 07 13.8	−5.8		

1986 6 8
O = 02 30 48.4 ± 0.05s
LAT = 17.04 N ± 1.22km
LONG = 145.97 E ± 0.93km
DEPTH = 171 km ± 0.31km
STATIONS USED = 11, STAND DEV = 1.19s

1986 6 8
O = 04 25 02.9 ± 0.08s
LAT = 36.57 N ± 1.57km
LONG = 142.59 E ± 1.50km
DEPTH = 14 km ± 0.41km
STATIONS USED = 91, STAND DEV = 1.33s
Ms = 5.3 / 42, m_B = 5.5 / 16

MDJ	12.7	313	eP	04 28 05.5	−1.1		
			S	04 30 25.0	−3.7		
			SS	04 30 39.0	−4.4		
CN2	14.9	304	+P	04 28 34.8	−1.1		
			PMZ	$m_B = 5.4$		6.0	0.50
			pP	04 28 42.0	1.2		
			PPP	04 28 52.0			
			S	04 31 16.0	−5.7		
			SME	$m_B = 4.8$		9.0	0.50
			SS	04 31 37.0	−1.9		
			LN	Ms = 5.2		12.5	7.20
SNY	15.6	295	+iP	04 28 45.0	0.1		
			PMZ	$m_B = 5.3$		11.0	1.67
			pP	04 28 52.2	2.3		
			eS	04 31 36.0	−2.5		
			sS	04 31 47.0	0.4		
			LN	Ms = 5.3		12.0	7.33
			LE			14.0	4.73
DL2	16.7	284	P	04 29 00.0	1.0		
			PMZ	$m_B = 5.6$		4.0	1.10
			sP	04 29 12.0	4.3		
			PP	04 29 15.0	2.5		
			LN	Ms = 5.1		10.0	3.10
			LE			10.0	2.00
SSE	18.6	259	eP	04 29 21.0	−1.0		
			PMZ	$m_B = 5.2$		9.0	1.11
			PP	04 29 36.0	−1.2		
			sS	04 32 50.0	−4.5		
			SS	04 33 14.0	4.3		
			LN	Ms = 5.4		12.0	5.05
			LE			12.0	5.20
NJ2	20.1	264	eP	04 29 38.0	−1.4		
			LN	Ms = 5.4		12.0	6.20
TIA	20.5	277	eP	04 29 41.1	−2.4		
			eS	04 33 23.0	−4.9		
			SS	04 33 48.8	−8.1		
			LE	Ms = 5.3		12.0	4.58
BJI	21.0	288	eP	04 29 46.0	−2.7		
			csP	04 29 58.0	0.3		
			eS	04 33 30.0	−7.4		
			LE	Ms = 5.1		11.0	2.91
QZH	23.6	247	eP	04 30 15.5	1.0		
			S	04 34 24.0	−0.3		
			LN	Ms = 4.9		12.0	0.31
			LE			12.0	1.48
TIY	24.0	282	−P	04 30 19.0	0.2		
			S	04 34 34.0	2.3		
			sS	04 34 43.5	1.3		
			SS	04 35 23.5	1.0		
			LE	Ms = 5.4		16.0	6.05
WHN	24.2	264	+P	04 30 20.5	−0.3		
			PMZ	$m_B = 5.6$		4.0	0.97
			eS	04 34 30.0	−6.2		
			SME	$m_B = 5.4$		8.0	0.99
			sS	04 34 54.0	8.1		
			LE	Ms = 5.4		14.0	5.00
HHC	24.5	290	P	04 30 24.0	0.4		
			S	04 34 36.0	−4.2		
			LN	Ms = 5.3		13.0	3.67
			LE			14.0	1.15
BTO	25.7	289	P	04 30 35.0	0.1		
			pP	04 30 43.0	2.4		
			cPP	04 31 10.0	−3.9		
			eS	04 34 58.0	−2.9		
			sS	04 35 15.0	4.5		
			LN	Ms = 5.3		13.0	1.80

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			LE			12.0	3.f0
XAN	27.5	275	eP	04 30 51.4	−0.2		
GZH	28.6	250	+P	04 31 02.0	0.9		
			S	04 35 54.0	7.1		
			LN	Ms = 5.4		13.0	2.98
			LE			12.0	1.78
LZH	31.1	281	+P	04 31 24.0	0.4		
			PMZ			2.0	0.17
			eS	04 36 26.0	−1.7		
			SME	m_B = 5.4		12.0	0.92
			LN	Ms = 5.5		14.0	2.30
			LE			15.0	4.60
GYA	32.1	262	P	04 31 33.0	0.6		
			pP	04 31 43.0	4.8		
			S	04 36 44.0	1.8		
			LN	Ms = 5.4		14.0	2.80
			LE			14.0	2.40
CD2	32.6	272	eP	04 31 37.4	0.4		
			eS	04 36 52.0	0.4		
			LE	Ms = 5.5		12.0	3.41
GTA	33.6	288	P	04 31 45.6	0.0		
			PMZ	m_B = 5.7		5.0	0.68
			ePP	04 32 52.0	−5.2		
			eS	04 37 00.0	−7.0		
			SME			16.0	1.03
			LE	Ms = 5.3		12.0	2.28
KMI	35.8	263	eP	04 32 04.0	−0.8		
			PMZ	m_B = 5.5		6.0	0.50
			sP	04 32 18.0	4.4		
			PP	04 33 30.0	4.9		
			eS	04 37 44.5	2.8		
			LE	Ms = 5.5		14.0	3.70
WMQ	41.9	298	P	04 32 57.0	1.8		
			eS	04 39 19.0	6.0		
			LN	Ms = 5.5		11.0	2.00
			LE			14.0	1.80
LSA	43.2	276	eP	04 33 08.0	1.8		
			pP	04 33 20.0	8.1		
			eS	04 39 28.0	−4.8		
			SMN	m_B = 5.4		9.0	0.51
			LE	Ms = 5.3		10.0	1.16
KSH	51.5	295	cP	04 34 12.0	1.2		
			pP	04 34 22.0	5.3		
			ePP	04 36 10.0	2.2		
			S	04 41 29.0	0.9		

1986 6 8
O = 04 55 00.5 ± 0.05s
LAT = 36.02 N ± 2.11km
LONG = 21.58 E ± 1.90km
DEPTH = 29 km ± 1.06km
STATIONS USED = 64, STAND DEV = 0.83s

KSH	42.6	68	P	05 02 58.0	1.6	
			S	05 09 17.0	0.7	
WMQ	50.1	60	+iP	05 03 35.5	−19.3	
GTA	60.1	61	+iP	05 05 07.9	−0.4	
			PP	05 07 17.4	−4.5	
LZH	64.4	63	+iP	05 05 37.0	−0.1	
			PMZ		2.0	0.10
CD2	66.8	68	eP	05 05 52.0	−0.1	
HHC	67.6	55	+P	05 05 55.0	−2.1	
KMI	68.9	74	+P	05 06 05.0	−0.5	
XAN	69.1	63	+P	05 06 06.2	−0.1	
TIY	69.7	58	eP	05 06 10.3	0.1	
BJI	71.0	54	eP	05 06 18.0	−0.2	
GYA	71.2	71	P	05 06 20.6	1.0	
			S	05 15 27.0	−5.6	
TIA	73.7	57	eP	05 06 34.2	0.2	
CN2	74.7	47	+iP	05 06 40.0	−0.2	
SNY	74.8	49	+iP	05 06 39.7	−0.5	
			pP	05 06 52.4	3.4	
WHN	74.8	63	eP	05 06 40.0	−0.5	
DL2	75.2	53	eP	05 06 41.0	−1.7	
MDJ	76.7	44	eP	05 06 50.5	−0.7	
NJ2	77.2	60	−P	05 06 54.4	0.4	

1986 6 8
O = 05 17 58.3 ± 0.10s
LAT = 51.62 N ± 3.09km
LONG = 175.03 W ± 1.49km
DEPTH = 34 km ± 0.33km
STATIONS USED = 42, STAND DEV = 1.38s

MDJ	36.8	281	eP	05 25 05.0	−0.6	
CN2	39.8	283	+P	05 25 30.2	−0.1	
SNY	42.0	282	−iP	05 25 50.7	1.9	
			pP	05 26 07.2	8.9	
BJI	47.6	284	eP	05 26 33.5	0.1	
SSE	50.4	272	eP	05 26 55.2	0.7	
			PMZ		1.0	0.020
BTO	50.9	289	eP	05 27 00.3	1.1	
NJ2	51.2	274	−P	05 27 02.5	1.9	
TIY	51.3	284	P	05 27 03.4	1.2	
			(S)	05 34 25.0	6.8	
XAN	55.9	283	eP	05 27 35.6	−0.3	
LZH	57.6	289	eP	05 27 48.0	0.2	
GTA	57.6	294	+P	05 27 47.6	−0.7	
WMQ	61.2	305	P	05 28 12.0	−0.6	

1986 6 8
O = 11 02 24.9 ± 0.08s

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LAT = 43.34 N ± 2.09km
LONG = 146.43 E ± 1.63km
DEPTH = 53 km ± 0.73km
STATIONS USED = 97, STAND DEV = 1.06s
Ms = 5.4 / 39, m_B = 6.0 / 29

MDJ	12.2	282	+P	11 05 19.2	0.6		
			PP	11 05 30.0	1.3		
			S	11 07 31.0	−1.7		
			SMN	m_B = 5.7		12.0	6.67
			SS	11 07 44.0	−4.1		
			ScS	11 18 04.0	4.4		
CN2	15.2	279	+iP	11 05 57.0	−1.1		
			PMZ	m_B = 5.4		4.0	0.60
			pP	11 06 08.0	0.4		
			ePP	11 06 11.0	0.8		
			eS	11 08 45.0	0.2		
			SMN	m_B = 5.6		6.0	1.90
			sS	11 09 02.6	2.3		
			LN	Ms = 5.6		13.0	16.2
SNY	16.9	273	eP	11 06 18.2	−1.2		
			PMZ			18.0	2.66
			S	11 09 21.0	−1.9		
			SMN	m_B = 5.6		7.0	1.66
			ScS	11 18 12.7	1.3		
			LE	Ms = 5.1		31.0	10.1
DL2	19.2	265	+iP	11 06 46.0	−1.1		
			PMZ	m_B = 5.9		4.0	2.60
			PP	11 07 03.0	−1.1		
			S	11 10 13.0	−1.2		
			SS	11 10 37.0	−4.2		
			LN	Ms = 5.0		10.0	2.20
			LE			12.0	1.35
BJI	22.8	272	eP	11 07 23.5	−0.5		
			epP	11 07 36.0	−0.2		
			esP	11 07 46.0	4.0		
			eS	11 11 23.5	−0.9		
			SMN	m_B = 6.5		8.0	6.57
			SME			8.0	6.64
			esS	11 11 48.0	2.9		
			ScS	11 18 32.0	1.2		
			LN	Ms = 5.4		15.0	6.47
SSE	23.4	247	+P	11 07 32.0	1.7		
			PMZ			0.8	0.040
			PP	11 08 08.0	5.7		
			S	11 11 40.0	4.8		
			SMN	m_B = 6.4		7.0	4.24
			SME			7.0	5.04
			SS	11 12 25.0	0.4		
			ScP	11 14 51.0	2.7		
			LN	Ms = 5.5		14.0	6.58
			LE			12.0	2.92
TIA	23.5	262	+P	11 07 31.6	0.1		
			pP	11 07 45.0	1.3		
			S	11 11 37.0	−0.2		
			SME	m_B = 6.3		12.0	9.61
			LN	Ms = 5.1		11.0	1.56
			LE			11.0	1.87
NJ2	24.4	252	+P	11 07 41.0	0.8		
			pP	11 07 56.0	3.4		
			sP	11 08 04.0	5.7		
			PP	11 08 18.0	1.8		
			S	11 11 56.0	3.2		
			SMN	m_B = 6.1		8.0	4.10
			sS	11 12 23.5	8.9		
			LN	Ms = 5.6		14.0	9.00
HHC	25.9	277	+P	11 07 52.5	−1.5		
			pP	11 08 07.0	0.8		
			PP	11 08 36.0	1.2		
			S	11 12 16.5	−0.2		
			SMN	m_B = 6.3		9.0	5.56
			SME			9.0	6.38
			LN	Ms = 5.4		10.0	3.32
			LE			11.0	2.53
TIY	26.3	269	P	11 07 58.4	0.3		
			PMZ	m_B = 6.0		6.5	2.71
			pP	11 08 14.5	4.1		
			S	11 12 26.5	2.6		
			SMN	m_B = 6.2		6.0	3.31
			SME			6.0	1.53
			ScP	11 14 47.0	−9.4		
			PcS	11 15 06.5	4.2		
BTO	27.1	277	−iP	11 08 05.0	0.0		
			PMZ	m_B = 5.9		6.0	1.70
			pP	11 08 20.0	2.6		
			PP	11 08 54.0	2.6		
			S	11 12 37.0	0.8		
			SMN	m_B = 6.2		7.0	1.50
			SME			7.0	4.10
			sS	11 13 02.5	3.8		
			LN	Ms = 5.3		9.0	1.60
			LE			11.0	2.20
WHN	28.5	254	P	11 08 17.0	−0.4		
			pP	11 08 33.0	3.1		
			sP	11 08 42.0	6.4		
			S	11 12 57.0	−1.4		
			SMN	m_B = 5.7		8.0	1.76
			ScP	11 15 02.0	−0.9		
			LN	Ms = 5.5		14.0	5.06
QZH	29.2	240	eP	11 08 26.0	1.6		
			pP	11 08 40.0	3.0		

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			sP	11 08 48.5	5.7		
			iS	11 13 14.0	2.2		
			SMN	m_B=5.8	8.0	1.50	
			SME		9.0	1.16	
			SS	11 14 51.0	6.8		
			LN	Ms=5.1	14.0	2.14	
XAN	30.5	265	+P	11 08 34.6	−1.0		
			pP	11 08 57.6	9.4		
LZH	33.3	272	eP	11 09 00.5	0.5		
			pP	11 09 14.0	1.5		
			S	11 14 13.0	−1.0		
			SMN	m_B=5.8	7.0	1.41	
			LN	Ms=5.4	10.0	1.68	
			LE		9.0	1.36	
GZH	33.9	244	−P	11 09 06.5	0.9		
			S	11 14 26.0	1.5		
			LN	Ms=5.9	14.0	6.08	
			LE		14.0	7.07	
GTA	34.8	280	+iP	11 09 13.4	−0.1		
			pP	11 09 29.0	2.8		
			sP	11 09 36.0	4.2		
			ePP	11 10 30.0	−1.1		
			S	11 14 35.0	−3.5		
			sS	11 15 07.0	5.5		
			ScP	11 15 26.7	2.4		
			ScS	11 19 34.6	8.2		
			LN	Ms=5.3	10.0	1.78	
CD2	35.8	264	+iP	11 09 21.8	−0.1		
			pP	11 09 36.0	1.3		
			sP	11 09 45.0	4.7		
			S	11 14 53.0	−0.8		
			sS	11 15 18.0	1.1		
			ScS	11 19 32.0	0.2		
			LN	Ms=5.3	12.0	2.22	
GYA	36.3	256	+P	11 09 25.2	−0.7		
			pP	11 09 42.0	3.3		
			sP	11 09 47.0	2.7		
			S	11 14 57.0	−4.0		
			sS	11 15 23.0	−1.2		
			ScP	11 15 31.0	1.4		
			PcS	11 15 38.0	2.4		
			ScS	11 19 38.0	3.7		
			LN	Ms=5.4	14.0	2.30	
			LE		14.0	1.60	
KMI	39.9	257	+P	11 09 56.0	−0.1		
			PMZ	m_B=5.9	4.0	0.70	
			pP	11 10 10.0	1.2		
			PP	11 11 28.0	−3.8		
			PcS	11 15 56.0	6.7		
			LN	Ms=5.3	13.0	1.80	
WMQ	41.8	292	+iP	11 10 12.0	0.8		
			PMZ	m_B=6.3	5.0	2.43	
			PcS	11 15 52.0	−4.6		
			S	11 16 23.0	−0.2		
			SMN	m_B=6.3	9.0	2.02	
			SME		5.0	2.97	
			ScS	11 20 04.0	−1.9		
			LN	Ms=5.9	15.0	7.53	
LSA	45.7	272	P	11 10 43.0	−0.3		
			sP	11 11 07.0	5.5		
			iS	11 17 23.0	1.1		
			SME	m_B=6.0	5.0	0.99	
			sS	11 17 37.0	−6.5		
KSH	51.5	291	+iP	11 11 29.1	0.7		
			pP	11 11 45.1	3.7		
			sP	11 11 52.1	5.1		
			PcP	11 12 42.1	1.3		
			PP	11 13 31.0	5.6		
			iS	11 18 47.1	3.5		
			SMN	m_B=6.5	5.0	3.10	
			LE	Ms=5.9	13.0	4.30	

1986 6 8

O=11 18 02.8 ± 0.06s
LAT=36.79 N ± 2.03km
LONG=142.35 E ± 1.33km
DEPTH= 6 km ± 0.70km
STATIONS USED = 17, STAND DEV= 1.34s

SNY	15.4	295	eP	11 22 00.6	18.7
TIY	23.8	281	eP	11 23 18.7	1.1
WHN	24.1	263	eP	11 23 21.5	1.3
XAN	27.3	274	eP	11 23 50.4	−0.3
GYA	31.9	261	P	11 24 31.0	−1.0
CD2	32.4	271	(P)	11 24 36.6	0.3
WMQ	41.6	297	eP	11 25 57.0	3.0

1986 6 8

O=16 43 06.5 ± 0.05s
LAT=51.19 N ± 1.88km
LONG=177.58 W ± 0.79km
DEPTH= 31 km ± 0.23km
STATIONS USED = 29, STAND DEV= 0.78s

BJI	46.2	283	eP	16 51 30.0	−0.6
BTO	49.6	288	eP	16 51 57.0	−0.2
TIY	49.9	283	eP	16 52 00.7	1.0
GTA	56.4	293	−iP	16 52 48.1	0.5
LSA	68.2	291	−iP	16 54 07.5	0.2

1986 6 8

O=21 33 40.3 ± 0.08s

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LAT=30.58 N ± 1.45km
LONG=141.97 E ± 1.41km
DEPTH= 33 km ± 0.28km
STATIONS USED = 74, STAND DEV= 1.78s
Ms=4.6/ 18,

MDJ	17.1	329	cP	21 37 37.4	−0.9		
			S	21 40 40.0	−5.2		
SSE	17.9	277	P	21 37 48.7	0.7		
			sP	21 38 02.0	1.8		
			cS	21 41 08.0	4.5		
			sS	21 41 16.0	0.5		
			SS	21 41 28.0	2.3		
			LE	Ms=4.5		16.0	1.42
SNY	18.6	312	eP	21 37 56.4	−0.4		
			pP	21 38 04.5	0.2		
			eS	21 41 16.0	−3.7		
			LN	Ms=4.7		13.0	1.19
			LE			14.0	1.23
CN2	18.6	320	+iP	21 37 56.2	−0.9		
			eS	21 41 18.0	−2.3		
			eSS	21 41 46.0	1.8		
			LN	Ms=4.4		13.0	0.90
DL2	18.6	302	eP	21 37 59.0	1.3		
			eS	21 41 21.0	−0.3		
			LN	Ms=4.6		13.0	1.15
			LE			14.0	0.91
NJ2	19.8	280	+P	21 38 11.0	0.1		
			LN	Ms=4.6		10.0	0.80
TIA	21.5	292	eP	21 38 28.0	−0.2		
			eS	21 42 27.0	7.3		
			LE	Ms=4.7		16.0	1.66
BJI	23.0	301	eP	21 38 43.0	−0.5		
			eS	21 42 46.0	−1.7		
			LE	Ms=4.4		17.0	0.78
WHN	23.8	277	eP	21 38 49.5	−1.3		
			eS	21 43 10.0	8.9		
			LE	Ms=4.5		14.0	0.67
TIY	25.4	294	+P	21 39 06.8	0.2		
			S	21 43 25.5	−2.4		
			sS	21 43 45.5	2.1		
			LE	Ms=4.7		15.0	1.05
HHC	26.6	301	P	21 39 16.2	−1.9		
			LE	Ms=4.7		13.0	0.87
BTO	27.7	300	cP	21 39 27.0	−1.1		
			cPP	21 40 12.0	−4.4		
			eS	21 44 07.0	0.2		
			LN	Ms=4.9		15.0	0.80
			LE			15.0	1.50
GYA	31.2	271	P	21 40 00.8	1.5		
LZH	32.2	290	cP	21 40 06.5	−1.4		
CD2	32.7	281	eP	21 40 10.8	−1.8		
GTA	35.4	296	−P	21 40 34.5	−0.9		
			eS	21 46 04.0	−3.4		
			LE	Ms=4.6		14.0	0.48
LSA	43.6	282	eP	21 41 44.5	0.0		
WMQ	44.5	303	P	21 41 51.5	0.9		
KSH	53.7	299	eP	21 43 04.1	2.2		

1986 6 8
O=22 53 59.9 ± 0.12s
LAT= 7.25 N ± 1.82km
LONG=126.94 E ± 3.19km
DEPTH= 68 km ± 0.14km
STATIONS USED = 26, STAND DEV= 2.56s

XAN	31.4	330	eP	23 00 17.0	−0.4		
SNY	34.6	356	eP	23 00 44.8	0.4		
MDJ	37.3	3	eP	23 01 05.5	−2.0		
WMQ	50.0	323	P	23 02 51.5	1.4		

1986 6 9
O=02 17 37.2 ± 0.16s
LAT=54.10 N ± 5.84km
LONG=168.15 W ± 2.47km
DEPTH= 33 km ± 0.88km
STATIONS USED = 49, STAND DEV= 2.64s
Ms=5.2/ 8,

MDJ	40.4	283	eP	02 25 12.7	−1.6		
SNY	45.6	284	+iP	02 25 56.0	−0.4		
			eS	02 32 33.0	−3.1		
			LN	Ms=5.2		30.0	2.06
			LE			29.0	1.34
DL2	48.6	282	eP	02 26 20.0	−0.3		
BJI	51.0	287	eP	02 26 38.0	−0.3		
			(S)	02 33 48.0	−3.8		
			LN	Ms=5.2		20.0	1.20
			LE			20.0	1.01
HHC	53.0	291	eP	02 26 52.0	−1.6		
BTO	54.0	291	P	02 27 01.5	0.3		
			eS	02 34 31.0	−2.8		
			LN	Ms=5.4		15.0	1.00
			LE			15.0	1.10
TIY	54.7	287	eP	02 27 06.0	0.0		
			eS	02 34 46.5	3.8		
			LN	Ms=5.3		19.0	1.06
			LE			20.0	1.08
XAN	59.3	287	eP	02 27 37.4	−1.4		
GTA	60.3	297	+P	02 27 44.5	−1.6		
			eS	02 35 54.0	−3.2		
			LE	Ms=5.2		20.0	0.99
LZH	60.6	292	eP	02 27 47.0	−1.0		

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WMQ	63.0	308	eP	02 28 03.5	−0.6		
CD2	64.5	288	eP	02 28 22.6	8.8		
GYA	66.3	283	P	02 28 25.0	0.0		
KMI	69.5	285	eP	02 28 51.0	5.4		

1986 6 9
O = 17 02 23.6 ± 0.11s
LAT = 30.29 N ± 2.03km
LONG = 141.75 E ± 1.97km
DEPTH = 36 km ± 0.44km
STATIONS USED = 45, STAND DEV = 1.89s
Ms = 4.3 / 8,

MDJ	17.2	329	eP	17 06 23.0	−0.3		
SSE	17.7	278	eP	17 06 28.0	−1.2		
			LE	Ms = 4.4		16.0	1.03
SNY	18.6	313	eP	17 06 41.0	0.4		
			eS	17 10 08.0	4.2		
			LN	Ms = 4.1		19.0	0.66
CN2	18.7	321	+P	17 06 40.4	−1.1		
			eS	17 10 06.0	0.6		
NJ2	19.7	281	eP	17 06 54.0	1.5		
			LE	Ms = 4.1		14.0	0.40
BJI	23.0	302	eP	17 07 26.0	−0.4		
TIY	25.3	295	eP	17 07 48.8	−0.4		
			eS	17 12 12.5	1.8		
			LN	Ms = 4.5		15.0	0.58
			LE			14.0	0.48
HHC	26.6	302	eP	17 08 01.0	0.0		
BTO	27.7	300	eP	17 08 10.7	−0.2		
			eS	17 12 53.0	3.8		
			LN	Ms = 4.7		15.0	0.50
			LE			15.0	0.80
XAN	28.0	286	eP	17 08 12.3	−1.2		
GTA	35.3	296	eP	17 09 15.6	−2.5		
WMQ	44.5	303	P	17 10 34.5	0.9		

1986 6 9
O = 17 51 38.5 ± 0.08s
LAT = 20.62 S ± 5.15km
LONG = 177.30 W ± 3.42km
DEPTH = 500 km ± 2.47km
STATIONS USED = 20, STAND DEV = 1.94s

MDJ	81.0	325	eP	18 03 03.5	1.2
CN2	82.8	322	−P	18 03 12.0	0.6
BJI	86.4	315	eP	18 03 30.0	0.8
XAN	88.7	307	eP	18 03 41.6	1.5

1986 6 10
O = 05 33 08.3 ± 0.05s
LAT = 51.24 N ± 2.26km
LONG = 176.26 W ± 1.06km
DEPTH = 34 km ± 0.57km
STATIONS USED = 12, STAND DEV = 1.40s

BJI	47.0	284	eP	05 41 39.0	0.8
TIY	50.7	284	eP	05 42 08.0	0.8
XAN	55.2	283	eP	05 42 40.6	−0.4

1986 6 10
O = 15 08 21.3 ± 0.22s
LAT = 6.79 S ± 4.58km
LONG = 71.91 E ± 4.24km
DEPTH = 9 km ± 0.37km
STATIONS USED = 50, STAND DEV = 2.76s
Ms = 5.0 / 5,

LSA	40.7	26	P	15 16 06.4	1.4		
KMI	43.7	42	eP	15 16 34.0	5.1		
KSH	46.2	4	−P	15 16 53.9	5.1		
			sP	15 17 02.8	6.1		
			PP	15 18 42.0	5.5		
			eS	15 23 41.0	6.2		
			LN	Ms = 5.5		15.0	2.40
GYA	47.2	44	P	15 16 55.8	−1.2		
			pP	15 17 02.0	−0.1		
CD2	48.3	37	eP	15 17 04.7	−1.0		
			S	15 24 04.0	0.0		
LZH	52.1	33	eP	15 17 33.5	−1.5		
			PMZ			2.0	0.080
WMQ	52.4	14	P	15 17 35.0	−1.6		
			pP	15 17 42.0	0.2		
			sP	15 17 46.3	1.8		
			(S)	15 24 52.0	−9.3		
			sS	15 25 04.0	−6.0		
			LN	Ms = 5.0		13.0	0.60
GTA	52.7	27	+P	15 17 37.7	−1.7		
			pP	15 17 43.8	−0.7		
			LN	Ms = 4.8		11.0	0.31
XAN	53.6	38	eP	15 17 43.0	−2.9		
WHN	55.0	45	eP	15 18 00.5	4.2		
TIY	58.2	37	eP	15 18 22.0	3.2		
BTO	58.7	33	eP	15 18 21.5	−1.2		
			eS	15 26 22.0	−4.6		
NJ2	59.1	46	−P	15 18 28.5	3.5		
HHC	59.8	34	eP	15 18 33.0	3.1		
BJI	61.9	37	eP	15 18 42.0	−2.3		
			epP	15 18 48.0	−1.7		
CN2	69.7	38	eP	15 19 32.0	−2.5		
			pP	15 19 37.6	−2.2		
MDJ	72.7	39	eP	15 19 51.8	−0.7		
			pP	15 19 57.0	−0.7		
			S	15 29 16.0	0.1		

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1986 6 10
O=16 59 52.0 ± 0.07s
LAT=32.42 N ± 0.70km
LONG=101.43 E ± 0.70km
DEPTH= 0 km ± 0.30km
STATIONS USED = 7, STAND DEV= 2.17s
M_L=3.3 / 3,

CD2	2.5	127	Pg	17 00 33.0	−3.0		
			Sg	17 01 04.4	−5.5		
			SMN	M_L=3.3		1.0	0.21
			SME			0.5	0.13
LZH	4.2	28	cPg	17 01 07.0	1.1		
XAN	6.5	74	cPg	17 01 46.5	−0.1		

1986 6 11
O=02 59 00.9 ± 0.14s
LAT= 1.97 S ± 2.34km
LONG=139.39 E ± 2.41km
DEPTH= 31 km ± 0.26km
STATIONS USED = 90, STAND DEV= 1.56s
Ms=5.5 / 42, m_B=5.6 / 11

QZH	33.5	324	eP	03 05 41.0	1.0		
			S	03 11 05.0	6.9		
			LN	Ms=5.2		15.0	1.45
			LE			18.0	2.04
GZH	35.6	316	eP	03 05 57.5	−0.1		
			eS	03 11 36.0	5.2		
			LN	Ms=5.5		20.0	4.92
			LE			18.0	1.79
SSE	37.2	334	eP	03 06 10.7	−0.4		
			PMZ			1.2	0.050
			pP	03 06 22.0	1.9		
			LN	Ms=5.1		10.0	0.89
NJ2	39.0	332	+P	03 06 27.0	0.2		
			S	03 12 32.0	8.9		
			LN	Ms=5.8		15.0	6.70
WHN	40.2	326	eP	03 06 37.0	0.7		
			PMZ	m_B=5.8		6.0	0.94
			S	03 12 50.0	9.7		
			SME	m_B=5.6		8.0	0.79
			LN	Ms=5.4		13.0	2.16
GYA	42.4	314	P	03 06 55.4	0.8		
			sP	03 07 04.0	−3.4		
			PP	03 08 41.0	5.1		
			S	03 13 21.0	8.1		
			LN	Ms=5.7		18.0	4.60
			LE			18.0	3.00
TIA	43.3	333	eP	03 07 01.5	−0.4		
			eS	03 13 30.5	3.5		
			SME	m_B=5.6		11.0	0.88
			LN	Ms=5.4		15.0	1.36
			LE			13.0	1.69
DL2	43.8	340	eP	03 07 09.0	2.7		
			pP	03 07 18.5	3.1		
			eS	03 13 40.0	4.9		
			csS	03 13 55.0	5.0		
			LN	Ms=5.5		13.0	2.33
KMI	44.6	310	+P	03 07 12.0	−0.4		
			pP	03 07 24.0	2.7		
			sP	03 07 30.0	4.9		
			S	03 13 48.0	3.4		
			sS	03 14 08.0	7.4		
			SS	03 17 02.0	4.7		
			LE	Ms=5.4		16.0	2.28
XAN	45.9	324	P	03 07 22.8	0.1		
			PP	03 09 13.0	3.0		
			S	03 14 07.0	3.7		
			SS	03 17 27.0	6.6		
			LN	Ms=5.5		13.0	1.51
			LE			18.0	2.66
SNY	45.9	344	−iP	03 07 22.0	−0.7		
			PMZ	m_B=5.9		5.0	0.88
			S	03 14 08.0	4.4		
			SMN	m_B=5.6		10.0	0.71
			SME			12.0	0.76
			SS	03 17 29.0	8.2		
			LN	Ms=5.6		17.0	2.88
			LE			15.0	1.59
TIY	46.7	330	+P	03 07 31.0	1.7		
			S	03 14 22.5	7.3		
			SMN	m_B=6.0		11.0	1.97
			SME			11.0	0.84
			LN	Ms=5.8		18.0	5.98
			LE			19.0	2.41
BJI	46.9	336	eP	03 07 29.0	−1.6		
			eS	03 14 20.0	1.1		
			SMN	m_B=5.5		8.0	0.60
			LN	Ms=5.6		20.0	4.20
			LE			20.0	1.26
CD2	47.1	317	eP	03 07 32.4	0.1		
			S	03 14 24.0	3.3		
			LE	Ms=5.6		20.0	4.60
MDJ	47.2	350	eP	03 07 32.4	−0.6		
			S	03 14 26.0	3.9		
CN2	47.2	346	eP	03 07 31.1	−2.3		
			PMZ			3.0	0.30
			PP	03 09 22.0	−1.5		
			PPMZ			4.5	0.40
			eS	03 14 21.0	−2.9		

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			SMN		m_B=5.6	8.0	0.40
			SME			8.0	0.50
			ScS	03 17 26.0	4.3		
			SS	03 17 40.0	−3.8		
			LN		Ms=5.8	16.0	4.30
			LE			16.0	2.30
HHC	49.6	332	eP	03 07 50.2	−1.5		
			S	03 15 00.0	4.3		
			LN		Ms=5.7	17.0	4.00
			LE			17.0	1.80
BTO	50.1	331	P	03 07 54.6	−1.3		
			ePP	03 09 49.5	−1.7		
			S	03 15 06.0	2.8		
			LN		Ms=5.9	18.0	4.20
			LE			18.0	4.70
LZH	50.3	322	eP	03 07 58.5	1.2		
			pP	03 08 04.0	−2.2		
			PS	03 15 09.0			
			SMN			14.0	1.40
			LN		Ms=5.3	13.0	1.19
GTA	54.9	323	P	03 08 31.0	−0.4		
			S	03 16 15.0	6.9		
			SME			26.0	1.54
			LN		Ms=5.3	14.0	1.27
LSA	55.8	308	P	03 08 36.6	−1.6		
			S	03 16 25.0	4.8		
WMQ	64.9	321	P	03 09 39.5	−0.4		
			PMZ			2.0	0.37
			eS	03 18 21.0	3.1		
			LN		Ms=5.6	14.0	1.57
KSH	71.1	313	P	03 10 22.0	3.4		
			PP	03 13 05.0	7.6		
			LN		Ms=5.6	14.0	1.50

1986 6 11

O=03 12 12.0 ± 0.12s
LAT= 2.07 S ± 1.50km
LONG=139.10 E ± 2.36km
DEPTH= 32 km ± 0.36km
STATIONS USED = 33, STAND DEV= 2.09s

NJ2	39.0	332	eP	03 19 42.5	5.1
GYA	42.2	314	eP	03 20 05.6	1.1
KMI	44.4	310	eP	03 20 23.0	0.9
XAN	45.8	324	eP	03 20 32.6	−0.3
BJI	46.9	336	eP	03 20 40.0	−1.4
CD2	47.0	317	eP	03 20 43.1	0.8
GTA	54.8	323	P	03 21 41.2	−0.5
WMQ	64.8	321	eP	03 22 49.5	−0.7

1986 6 11

O=04 02 55.8 ± 0.05s
LAT= 2.02 S ± 0.65km
LONG=139.31 E ± 1.19km
DEPTH= 32 km ± 0.09km
STATIONS USED = 23, STAND DEV= 1.00s

XAN	45.9	324	P	04 11 17.4	−0.1	
BJI	46.9	336	eP	04 11 25.0	−0.6	
CD2	47.1	317	eP	04 11 28.0	1.0	
CN2	47.3	346	+P	04 11 27.8	−0.7	
GTA	54.9	323	eP	04 12 25.2	−1.0	
WMQ	64.8	321	P	04 13 34.5	−0.1	

1986 6 11

O=05 16 47.5 ± 0.20s
LAT=24.16 N ± 3.05km
LONG=121.51 E ± 2.00km
DEPTH= 56 km ± 2.02km
STATIONS USED = 44, STAND DEV= 3.34s
Ms=4.4/ 9, M_L=4.3/ 8,

QZH	2.8	287	eP	05 17 28.7	−1.9		
			S	05 18 01.3	−0.2		
			LG_2	05 18 19.5	0.8		
			LN			8.0	1.67
			LE			8.0	1.97
GZH	7.6	264	eP	05 18 35.2	−2.5		
			S	05 19 56.0	−5.5		
			LN			1.0	0.23
			LE			1.0	0.10
NJ2	8.2	344	+P	05 18 43.8	−2.7		
			S	05 20 14.0	−3.3		
			LG_2	05 21 16.0	−2.1		
			LN		Ms=4.4	10.0	2.40
WHN	9.0	317	eP	05 18 54.0	−3.4		
			S	05 20 37.0	0.1		
			LE		Ms=4.4	10.0	2.20
GYA	13.6	283	P	05 20 05.6	5.7		
			LN		Ms=4.5	10.0	0.90
			LE			10.0	0.80
XAN	14.7	315	eP	05 20 14.8	0.3		
			LE		Ms=4.2	10.0	0.64
TIY	15.6	332	eP	05 20 25.2	0.0		
			eS	05 23 18.5	3.0		
			LG_1	05 24 48.0	−8.7		
			LG_2	05 25 13.0	−8.4		
			LN		Ms=4.4	10.5	0.71
			LE			10.0	0.46
CD2	17.1	297	eP	05 20 47.8	3.3		
MDJ	21.4	16	eP	05 21 34.0	0.9		
GTA	23.8	315	eP	05 21 57.8	1.3		
			LE		Ms=4.3	11.0	0.37

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1986 6 11
O=06 18 17.4 ± 0.20s
LAT=15.56 S ± 3.76km
LONG=179.07 W ± 3.69km
DEPTH= 17 km ± 0.55km
STATIONS USED = 76, STAND DEV= 2.63s
Ms=5.7/28, m_B=6.0/23

QZH	72.9	303	-P	06 29 50.0	1.9		
			PcP	06 30 08.0	3.6		
			iS	06 39 19.0	6.2		
			LN	Ms=5.6		18.0	1.08
			LE			18.0	1.42
SSE	73.8	309	+P	06 29 50.0	-3.3		
			PMZ	m_B=6.4		10.0	4.16
			S	06 39 13.0	-8.3		
			sS	06 39 28.0	-6.0		
			SKS	06 39 48.0	-5.5		
			SS	06 44 12.0	4.7		
			SSS	06 52 30.0			
			LE	Ms=5.6		22.0	1.99
MDJ	75.9	325	+P	06 30 05.0	-0.7		
			cS	06 39 52.0	5.2		
			ScS	06 40 20.0	5.3		
			PS	06 40 30.0			
NJ2	76.0	309	-P	06 30 06.4	0.4		
			S	06 39 54.0	8.2		
			SME	m_B=5.9		12.0	1.20
			LN	Ms=5.9		16.0	3.20
GZH	76.4	299	eP	06 30 10.0	1.3		
			eS	06 40 00.0	7.5		
DL2	77.5	317	P	06 30 15.0	0.6		
			S	06 40 11.0	9.0		
			LN	Ms=5.7		16.0	1.90
CN2	77.8	322	eP	06 30 14.7	-1.5		
			PMZ	m_B=5.9		6.0	0.90
			eS	06 40 02.0	-5.2		
			SMN	m_B=5.9		10.0	0.80
			SME			9.0	0.60
			PS	06 40 41.0			
			SS	06 45 01.0	-7.6		
			LE	Ms=5.5		16.0	1.20
SNY	77.8	320	+iP	06 30 14.0	-2.2		
			PMZ	m_B=5.9		6.0	0.79
			PcP	06 30 24.5	-1.0		
			S	06 40 12.0	6.4		
			SMN	m_B=6.0		10.0	1.20
			SME			10.0	0.48
			LN	Ms=5.6		40.0	2.36
			LE			49.0	2.94
WHN	78.7	306	eP	06 30 17.5	-3.8		
			PcP	06 30 26.0	-3.5		
			eS	06 40 14.0	-3.1		
			SME	m_B=6.1		10.0	1.67
			LE	Ms=5.6		16.0	1.42
TIA	79.2	312	eP	06 30 23.3	-0.7		
			S	06 40 29.0	8.3		
			SMN	m_B=6.0		9.5	0.41
			SME			10.5	1.10
			PS	06 41 23.0			
			LE	Ms=5.8		20.0	2.63
BJI	81.7	315	eP	06 30 35.5	-1.6		
			PMZ	m_B=5.7		6.0	0.53
			eS	06 40 54.0	5.9		
			SMN	m_B=6.0		10.0	0.68
			SME			10.0	0.97
			eSS	06 46 16.0	9.0		
			LE	Ms=5.6		20.0	1.51
TIY	83.2	312	eP	06 30 44.5	-0.8		
			S	06 41 09.5	7.3		
			SMN			20.0	1.25
			SME			18.0	1.00
			sS	06 41 24.0	8.9		
			LN	Ms=5.8		21.0	1.43
			LE			21.0	2.24
GYA	83.3	300	P	06 30 49.0	3.2		
			pP	06 30 56.0	3.6		
			S	06 41 12.0	8.8		
			SME	m_B=6.1		9.0	1.30
			LN	Ms=5.5		18.0	1.10
XAN	84.3	307	eP	06 30 53.0	2.2		
			S	06 41 18.0	4.8		
			SMN	m_B=6.2		12.0	0.77
			SME			10.0	1.90
HHC	85.2	315	eP	06 30 54.5	-0.6		
			PcP	06 30 59.0	1.5		
			PP	06 34 17.0	4.0		
			SKS	06 41 16.5	2.1		
			S	06 41 26.0	4.4		
			LE	Ms=5.8		14.0	1.64
BTO	86.1	314	P	06 31 01.0	1.1		
			ePP	06 34 21.0	0.2		
			eSKS	06 41 25.0	4.1		
			S	06 41 34.5	3.6		
			LN	Ms=5.6		19.0	0.80
			LE			19.0	1.40
KMI	86.2	297	eP	06 31 01.5	1.2		
			S	06 41 37.0	5.6		
			LE	Ms=5.7		16.0	1.70
CD2	87.3	303	eP	06 31 07.0	1.7		

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			eSKS	06 41 32.0	3.8			
			LE	Ms = 5.7		28.0	2.90	
LZH	89.0	308	eP	06 31 14.0	0.5			
			PMZ			2.0	0.17	
			eSKS	06 41 45.0	6.2			
			eS	06 41 58.0	−1.5			
			SME	m_B = 5.8		10.0	0.99	
GTA	93.0	310	−P	06 31 31.6	−0.9			
			SKS	06 42 06.5	3.8			
			eS	06 42 37.5	1.5			
			SME	m_B = 5.6		11.0	0.60	
			sS	06 42 45.0	−2.0			
			LE	Ms = 5.7		30.0	2.79	
WMQ	102.9	312	c(P)	06 32 02.7	−13.2			

1986 6 11
O = 07 12 29.1 ± 0.07s
LAT = 47.89 N ± 2.28km
LONG = 147.82 E ± 1.34km
DEPTH = 380 km ± 0.76km
STATIONS USED = 58, STAND DEV = 1.30s

MDJ	13.0	262	+P	07 15 22.5	−1.1			
CN2	16.1	264	−iP	07 15 53.9	−2.5			
SNY	18.2	260	−P	07 16 17.0	−0.6			
DL2	21.0	254	eP	07 16 45.0	0.3			
BJI	24.0	263	eP	07 17 12.5	−0.2			
HHC	26.7	268	+P	07 17 36.3	−1.0			
TIY	27.7	262	−P	07 17 46.8	0.8			
			PMZ			1.0	0.040	
BTO	27.8	269	eP	07 17 47.0	−0.5			
WHN	30.9	248	P	07 18 13.5	−0.3			
XAN	32.1	259	−P	07 18 24.4	−0.2			
LZH	34.3	266	−P	07 18 44.5	1.1			
			PMZ			1.0	0.10	
GTA	35.3	274	−iP	07 18 52.2	0.8			
GZH	36.9	240	−P	07 19 05.0	−0.2			
CD2	37.5	259	eP	07 19 10.7	1.1			
GYA	38.6	251	−P	07 19 18.8	0.1			
			PcP	07 21 15.0	−7.6			
			S	07 24 40.0	−6.2			
KMI	42.0	254	−P	07 19 47.5	0.6			
LSA	46.7	268	+iP	07 20 24.6	0.8			

1986 6 11
O = 11 04 40.1 ± 0.19s
LAT = 35.34 N ± 1.79km
LONG = 120.42 E ± 2.33km
DEPTH = 15 km ± 0.05km
STATIONS USED = 18, STAND DEV = 3.81s
M_L = 4.0 / 11,

TIA	2.8	289	ePn	11 05 22.8	−2.3			
			P*	11 05 28.0	0.5			
			Sn	11 06 00.4	−0.3			
			SMN	M_L = 3.9		0.5	0.56	
			SME			0.5	0.46	
NJ2	3.5	202	Pn	11 05 37.0	2.2			
			P*	11 05 42.6	3.5			
			S*	11 06 27.0	3.7			
			SMN	M_L = 4.3		0.5	1.00	
			SME			0.5	0.60	
DL2	3.7	15	Pg	11 05 49.8	4.4			
			S*	11 06 35.2	7.2			
			SMN	M_L = 4.1		0.8	0.39	
			SME			0.8	0.56	
SNY	6.9	20	cPg	11 06 50.2	7.5			
			SMN	M_L = 4.5		1.5	0.21	
			SME			1.5	0.20	
WHN	7.0	229	cPg	11 06 49.0	5.4			
XAN	9.6	266	eP	11 06 56.8	−3.8			
			SMN			1.0	0.020	
			SME			1.0	0.020	

1986 6 11
O = 12 41 05.0 ± 0.09s
LAT = 40.37 N ± 2.04km
LONG = 51.59 E ± 1.20km
DEPTH = 33 km ± 0.06km
STATIONS USED = 44, STAND DEV = 1.38s
Ms = 4.7 / 2,

KSH	18.7	85	cP	12 45 22.8	−0.8			
			eS	12 48 53.8	5.6			
			LG_2	12 51 23.0	0.2			
			LE	Ms = 4.9		6.0	1.20	
WMQ	26.9	71	P	12 46 45.0	−0.2			
LSA	33.8	96	P	12 47 46.1	−1.2			
GTA	36.7	75	+iP	12 48 11.2	0.3			
LZH	40.8	79	eP	12 48 46.0	0.6			
BTO	43.7	70	eP	12 49 10.0	0.7			
KMI	45.0	94	+P	12 49 19.5	−0.4			
XAN	45.4	79	P	12 49 22.0	−0.9			
TIY	46.5	73	P	12 49 32.4	0.8			
GYA	47.3	89	P	12 49 37.8	−0.1			
WHN	51.1	80	eP	12 50 06.5	−0.5			
CN2	53.2	60	eP	12 50 21.6	−1.3			
NJ2	53.7	76	−P	12 50 26.2	−0.5			
GZH	54.2	89	eP	12 50 29.0	−1.3			

1986 6 11
O = 13 48 01.3 ± 0.26s
LAT = 10.75 N ± 5.66km

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LONG= 62.96 W ± 6.28km
DEPTH= 18 km ± 1.09km
STATIONS USED = 73, STAND DEV= 2.52s
Ms=6.5/31,

WMQ	119.5	24	PKP	14 06 55.0	3.8		
			PP	14 08 12.5	−3.9		
			LN	Ms=6.5		19.0	6.25
MDJ	123.7	349	PKP	14 07 00.0	0.7		
			PP	14 08 38.0	−7.6		
CN2	125.2	353	ePKP	14 07 01.2	−0.9		
			LN	Ms=6.5		20.0	6.20
SNY	127.3	354	ePKP	14 07 04.7	−1.6		
			PP	14 09 12.5	3.8		
			LN	Ms=6.4		20.0	2.19
			LE			25.0	6.16
GTA	127.6	17	ePKP	14 07 05.8	−1.1		
			ePP	14 09 16.5	6.0		
			LE	Ms=6.6		27.0	10.3
HHC	128.4	5	PKP	14 07 07.0	−1.5		
			LN	Ms=6.7		24.0	3.60
			LE			24.0	12.7
BTO	128.5	7	ePKP	14 07 10.6	1.9		
			ePP	14 09 12.0	−4.9		
			LN	Ms=6.5		21.0	5.30
			LE			21.0	3.40
BJI	129.5	1	ePKP	14 07 09.0	−1.3		
			ePP	14 09 22.0	−1.3		
			SS	14 26 40.0	−1.5		
			LE	Ms=6.2		20.0	3.28
DL2	130.4	355	PKP	14 07 15.0	2.8		
			LE	Ms=6.5		19.0	6.32
TIY	131.6	5	ePKP	14 07 16.4	1.9		
LZH	131.8	14	ePKP	14 07 17.0	2.0		
			LN	Ms=6.4		19.0	4.26
LSA	132.7	31	ePKP	14 07 21.0	4.0		
TIA	133.3	360	ePKP	14 07 19.9	2.2		
			ePP	14 09 52.0	4.6		
			eSS	14 27 24.0	−4.1		
			LN	Ms=6.3		20.0	1.98
			LE			19.0	2.71
XAN	134.8	10	ePKP	14 07 19.1	−1.4		
			PP	14 09 49.0	−8.2		
			LN	Ms=6.7		24.0	9.43
			LE			17.0	3.94
CD2	136.7	17	PKP	14 07 26.0	2.1		
			PP	14 10 06.0	−2.3		
			LE	Ms=6.5		19.0	5.08
NJ2	137.4	358	--PKP	14 07 28.0	2.8		
			PP	14 10 14.0	0.9		
			LN	Ms=7.0		20.0	18.2
SSE	138.2	355	ePKP	14 07 30.5	3.8		
			PP	14 10 20.0	1.3		
			SS	14 28 35.5	9.0		
			LN	Ms=6.4		19.0	4.80
WHN	138.9	4	ePKP	14 07 28.5	0.6		
			PP	14 10 30.0	7.4		
			LN	Ms=6.4		21.0	4.66
GYA	141.7	15	PKP	14 07 34.0	1.0		
			PKS	14 11 16.8			
			LE	Ms=6.6		22.0	7.40
QZH	144.5	358	ePKP	14 07 41.0	3.3		
			LN	Ms=6.4		22.0	2.95
			LE			22.0	4.65
GZH	146.2	6	+PKP	14 07 43.5	2.8		
			cPP	14 11 00.0	−6.5		
			LN	Ms=6.4		30.0	3.52
			LE			28.0	6.02

1986 6 11
O=15 17 05.1 ± 0.08s
LAT=30.47 N ± 1.41km
LONG=142.08 E ± 2.17km
DEPTH= 37 km ± 0.61km
STATIONS USED = 25, STAND DEV= 1.36s

MDJ	17.2	329	eP	15 21 06.0	1.4
CN2	18.7	320	−P	15 21 21.4	−2.0
NJ2	19.9	281	eP	15 21 36.5	−0.1
BJI	23.1	301	eP	15 22 09.0	−0.2
TIY	25.5	294	eP	15 22 32.7	0.4
XAN	28.2	286	P	15 22 55.0	−1.8
WMQ	44.6	303	P	15 25 16.5	0.4

1986 6 11
O=20 15 42.3 ± 0.12s
LAT=40.44 N ± 2.34km
LONG= 51.72 E ± 1.39km
DEPTH= 48 km ± 0.17km
STATIONS USED = 68, STAND DEV= 1.18s
Ms=5.0/10,

KSH	18.6	85	eP	20 19 58.6	0.1		
			sP	20 20 14.6	0.8		
			S	20 23 20.6	0.6		
			LN	Ms=5.6		6.0	5.90
WMQ	26.8	71	+iP	20 21 20.7	0.7		
			pP	20 21 32.8	1.3		
			PP	20 21 59.0	−5.9		
			S	20 25 54.0	4.5		
			LN	Ms=5.1		7.0	1.27
LSA	33.8	96	P	20 22 21.8	−0.6		
GTA	36.5	76	P	20 22 45.0	−0.8		

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			eS	20 28 23.0	−1.2		
			LE	Ms=4.9		18.0	1.11
LZH	40.7	79	eP	20 23 21.0	0.7		
			PMZ			2.0	0.060
			eS	20 29 28.0	1.2		
CD2	42.8	86	eP	20 23 38.5	0.9		
BTO	43.6	70	eP	20 23 43.0	−1.1		
			epP	20 23 55.0	−1.2		
			eS	20 30 08.0	−1.7		
HHC	44.6	69	eP	20 23 52.0	−0.4		
KMI	44.9	94	+iP	20 23 55.0	0.0		
XAN	45.3	79	P	20 23 57.2	−0.6		
			S	20 30 35.0	1.9		
			LN	Ms=5.0		14.0	0.41
			LE			14.0	0.68
TIY	46.4	73	P	20 24 07.9	1.4		
			S	20 30 51.0	2.4		
			LN	Ms=4.9		13.0	0.32
			LE			17.0	0.67
GYA	47.2	90	+P	20 24 12.4	−0.5		
			pP	20 24 24.8	−0.1		
			S	20 31 00.8	0.7		
BJI	48.2	68	eP	20 24 20.5	0.1		
WHN	51.0	80	P	20 24 41.5	−0.4		
			pP	20 24 54.2	0.1		
CN2	53.1	60	+P	20 24 57.0	−0.7		
			eS	20 32 23.0	0.1		
NJ2	53.6	76	+P	20 25 03.0	1.4		

1986 6 12
O=03 59 39.4 ± 0.12s
LAT= 2.03 S ± 1.61km
LONG=139.43 E ± 2.85km
DEPTH= 39 km ± 0.69km
STATIONS USED = 31, STAND DEV= 1.69s

WHN	40.3	326	eP	04 07 15.0	0.4		
GYA	42.5	314	P	04 07 33.8	0.9		
KMI	44.6	310	eP	04 07 51.0	0.4		
XAN	45.9	324	P	04 08 00.0	−0.9		
BJI	47.0	336	eP	04 08 08.0	−0.8		
CD2	47.2	317	eP	04 08 10.8	0.3		
CN2	47.3	346	eP	04 08 10.8	−0.8		
LZH	50.4	322	eP	04 08 36.0	0.5		
GTA	55.0	323	−P	04 09 09.1	−0.5		
WMQ	64.9	321	P	04 10 18.0	0.1		

1986 6 12
O=04 17 56.7 ± 0.16s
LAT= 2.00 S ± 1.68km
LONG=139.28 E ± 2.60km
DEPTH= 33 km ± 0.28km
STATIONS USED = 42, STAND DEV= 1.99s
Ms=4.6 / 1,

NJ2	39.0	332	eP	04 25 24.5	2.4		
			LE	Ms=4.6		10.0	0.30
GYA	42.3	314	P	04 25 51.6	1.9		
TIA	43.3	334	eP	04 25 58.4	1.2		
KMI	44.5	310	eP	04 26 07.0	−0.4		
			eS	04 32 46.0	5.5		
XAN	45.8	324	P	04 26 17.2	−0.7		
SNY	45.9	344	eP	04 26 20.0	1.7		
BJI	46.9	336	eP	04 26 25.0	−1.0		
CD2	47.0	317	eP	04 26 28.4	1.0		
CN2	47.3	346	eP	04 26 29.0	0.0		
BTO	50.1	331	eP	04 26 50.8	−0.4		
LZH	50.3	322	eP	04 26 53.0	0.5		
GTA	54.8	323	P	04 27 26.0	−0.7		
WMQ	64.8	321	P	04 28 35.0	−0.1		

1986 6 12
O=05 52 16.8 ± 0.07s
LAT=43.16 N ± 0.75km
LONG=135.51 E ± 0.78km
DEPTH=379 km ± 0.83km
STATIONS USED = 68, STAND DEV= 1.07s
m_B=4.6 / 5

MDJ	4.5	291	+iP	05 53 33.9	0.4		
			S	05 54 34.0	0.8		
CN2	7.3	278	+iP	05 54 05.2	0.3		
			csP	05 55 10.0	−5.8		
			S	05 55 30.5	1.0		
			SMN	m_B=4.3		5.0	0.60
			SME			5.0	0.50
SNY	8.9	265	−P	05 54 25.0	1.9		
			PMZ	m_B=5.2		3.5	0.49
DL2	11.3	253	P	05 54 51.5	0.1		
			S	05 57 00.0	6.5		
BJI	14.8	264	−iP	05 55 30.0	−0.6		
TIA	15.7	250	eP	05 55 40.9	0.4		
			eS	05 58 26.5	1.8		
			SMN	m_B=4.7		6.0	0.30
			SME			6.0	0.42
NJ2	17.2	235	−P	05 55 56.0	0.6		
HHC	17.9	271	P	05 56 02.0	−1.0		
TIY	18.4	261	eP	05 56 07.5	0.3		
			S	05 59 18.5	5.6		
			SMN	m_B=4.6		6.0	0.29
BTO	19.1	271	eP	05 56 14.5	−0.4		
WHN	21.0	240	P	05 56 33.5	0.4		
XAN	22.6	255	−P	05 56 47.6	−0.5		

LZH	25.3	265	P	05 57 13.0	0.4		
			PMZ			1.4	0.050
GTA	27.0	274	P	05 57 26.7	−0.9		
			ScS	06 07 33.0	1.8		
KMI	32.3	247	eP	05 58 13.0	−0.9		
WMQ	34.3	288	P	05 58 30.5	−0.7		
KSH	44.1	286	e(P)	05 59 47.0	−3.9		

1986 6 12
O = 09 26 50.2 ± 0.15s
LAT = 14.52 N ± 2.38km
LONG = 121.91 E ± 3.22km
DEPTH = 32 km ± 0.35km
STATIONS USED = 75, STAND DEV = 2.60s
Ms = 4.9 / 31, m_B = 5.1 / 2

GZH	11.8	318	−P	09 29 38.0	−0.8		
			eS	09 31 50.0	0.0		
			LN	Ms = 4.9		14.0	6.08
			LE			10.0	1.00
WHN	17.4	338	eP	09 30 44.5	−7.7		
			pP	09 31 06.0	6.3		
			LN	Ms = 4.7		14.0	1.79
NJ2	17.7	351	−P	09 30 57.2	1.6		
			LE	Ms = 4.6		14.0	1.60
GYA	18.6	312	P	09 31 06.2	−0.5		
			sP	09 31 14.0	−4.6		
			PP	09 31 27.0	5.0		
			S	09 34 30.0	1.3		
			sS	09 34 49.0	7.8		
			LN	Ms = 5.1		14.0	2.90
			LE			14.0	2.70
KMI	20.9	303	eP	09 31 33.0	0.6		
			LN	Ms = 4.8		14.0	1.95
TIA	22.0	350	eP	09 31 43.3	−0.4		
			eS	09 35 44.0	4.0		
			SMN	m_B = 5.0		10.0	0.52
			LE	Ms = 4.8		17.0	2.21
XAN	22.7	331	eP	09 31 49.2	−1.5		
			eS	09 35 56.0	3.3		
			LN	Ms = 5.0		16.0	1.90
			LE			16.0	2.38
CD2	23.3	317	eP	09 31 56.7	0.1		
			eS	09 36 05.0	1.5		
			LN	Ms = 5.3		14.0	2.80
			LE			15.5	4.70
DL2	24.3	359	eP	09 32 06.5	0.6		
			eS	09 36 20.0	−0.2		
TIY	24.6	342	eP	09 32 07.5	−1.4		
			PP	09 32 43.5	−1.2		
			S	09 36 19.0	−5.5		
			sS	09 36 35.0	−4.6		
			LN	Ms = 4.8		15.0	1.10
			LE			14.0	0.73
BJI	25.9	350	eP	09 32 21.0	−0.4		
			eS	09 36 40.0	−7.3		
			LN	Ms = 4.4		12.0	0.41
LZH	26.9	326	eP	09 32 31.5	0.9		
			PMZ			1.4	0.050
			eS	09 36 57.0	−6.7		
			LN	Ms = 5.2		13.0	1.91
			LE			15.0	2.62
SNY	27.2	3	eP	09 32 33.8	0.1		
			S	09 37 09.0	0.6		
			LN	Ms = 4.9		20.0	1.09
			LE			19.0	1.95
HHC	27.7	343	eP	09 32 39.0	0.7		
			S	09 37 16.0	−0.3		
			LN	Ms = 5.4		14.0	4.70
BTO	28.0	340	eP	09 32 40.0	−0.5		
			cPP	09 33 27.0	−2.9		
			eS	09 37 20.0	−1.2		
			LN	Ms = 4.9		16.0	1.40
			LE			14.0	0.60
CN2	29.3	5	eP	09 32 51.0	−1.5		
			eS	09 37 42.0	−0.7		
			LE	Ms = 4.7		13.0	0.80
MDJ	30.7	11	eP	09 33 04.5	−0.1		
			eS	09 38 03.0	−1.2		
GTA	31.5	326	P	09 33 11.4	−0.4		
			PcP	09 36 11.3	7.6		
			eS	09 38 11.0	−6.0		
			LN	Ms = 5.1		16.0	2.07
WMQ	41.3	322	P	09 34 34.5	−0.1		
KSH	47.2	311	eP	09 35 25.8	3.3		
			ePP	09 37 14.0	1.5		
			S	09 42 18.0	6.5		
			LN	Ms = 5.5		16.0	2.90

1986 6 12
O = 13 40 46.2 ± 0.11s
LAT = 6.98 S ± 1.30km
LONG = 129.57 E ± 2.08km
DEPTH = 117 km ± 0.66km
STATIONS USED = 78, STAND DEV = 1.17s
m_B = 5.4 / 10

GZH	33.8	332	+P	13 47 20.0	0.3		
			LN			12.0	0.39
			LE			12.0	0.59
SSE	38.7	348	+P	13 48 01.6	1.0		
			PMZ			1.0	0.050

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			eS	13 53 44.0	−4.8		
			sS	13 54 30.0	−4.5		
			LN			20.0	0.30
GYA	40.0	327	+P	13 48 12.0	0.6		
			pP	13 48 41.0	3.4		
			PcP	13 50 20.0	5.7		
			ScP	13 53 52.0	1.1		
			S	13 54 03.0	−4.1		
			sS	13 54 50.0	−3.9		
			ScS	13 58 03.0	−0.1		
WHN	40.1	339	P	13 48 13.0	1.1		
			sP	13 48 56.0	3.8		
			PcP	13 50 18.0	3.4		
			ScP	13 53 51.0	−0.3		
			eS	13 54 06.0	−3.2		
			SME	$m_B = 5.2$		9.0	0.44
			sS	13 54 56.0	0.9		
NJ2	40.1	346	+P	13 48 14.0	1.5		
			ScP	13 53 51.0	−0.5		
			S	13 54 08.0	−1.4		
KMI	41.2	322	+P	13 48 23.0	1.2		
			sP	13 49 07.0	5.2		
			eS	13 54 23.0	−4.0		
			sS	13 55 17.0	4.5		
TIA	44.5	346	eP	13 48 47.0	−1.3		
			eScP	13 54 09.3	0.2		
			eS	13 55 06.0	−8.6		
			SME	$m_B = 5.5$		7.0	0.50
			sS	13 55 54.0	−7.1		
			eScS	13 58 33.7	2.9		
CD2	45.1	328	eP	13 48 52.3	−0.3		
XAN	45.2	336	+P	13 48 53.0	−1.1		
			pP	13 49 22.0	1.4		
			S	13 55 18.0	−5.8		
			SME	$m_B = 5.5$		5.0	0.34
			sS	13 56 10.0	−1.5		
			SS	13 58 34.0	−7.3		
DL2	46.2	351	eP	13 49 02.0	0.1		
			eS	13 55 33.0	−6.1		
TIY	47.3	341	P	13 49 09.6	−0.3		
			PMZ			0.6	0.060
			S	13 55 49.0	−3.4		
			SME	$m_B = 5.3$		7.0	0.29
			sS	13 56 41.0	0.6		
			ScS	13 58 50.0	1.7		
BJI	48.4	346	eP	13 49 19.0	0.3		
			eScP	13 54 25.0	−0.2		
			eS	13 56 04.0	−5.3		
			esS	13 56 58.0	1.5		
			eScS	13 58 55.0	−0.8		
SNY	48.9	354	+iP	13 49 22.0	−0.4		
			S	13 56 11.0	−4.1		
			SME	$m_B = 5.3$		7.0	0.31
			sS	13 56 58.5	−4.9		
LZH	49.2	332	+iP	13 49 25.0	0.0		
			PMZ			2.0	0.26
			eS	13 56 18.0	−2.8		
HHC	50.4	342	−P	13 49 33.5	−0.7		
			sP	13 50 13.0	−1.7		
			S	13 56 34.0	−2.1		
			SME	$m_B = 5.4$		7.0	0.33
			sS	13 57 27.0	2.4		
BTO	50.7	341	P	13 49 35.8	−0.3		
			sP	13 50 19.0	2.3		
			ePP	13 51 33.0	−1.2		
			S	13 56 35.0	−4.7		
CN2	50.7	356	+P	13 49 41.8	5.6		
			ScP	13 54 41.0	6.1		
			eS	13 56 49.0	7.8		
MDJ	51.4	0	+P	13 49 41.4	0.0		
			pP	13 50 10.0	1.5		
			sP	13 50 22.0	−0.1		
			PP	13 51 40.0	−0.5		
			ScP	13 54 37.0	−0.8		
			eS	13 56 47.5	−3.0		
			sS	13 57 40.0	2.1		
			ScS	13 59 16.0	0.2		
LSA	51.9	317	P	13 49 45.2	−0.6		
			pP	13 50 16.0	3.4		
			sP	13 50 31.0	4.9		
			S	13 56 54.0	−2.6		
			LE			6.0	0.24
GTA	53.8	332	+iP	13 49 58.8	−0.5		
			sP	13 50 42.4	2.5		
			PcP	13 51 04.5	1.6		
			ScP	13 54 48.4	0.3		
			S	13 57 18.5	−3.4		
			SME	$m_B = 5.2$		7.0	0.22
			sS	13 58 10.0	−0.7		
			ScS	13 59 32.5	0.0		
			LN			9.0	0.16
WMQ	63.1	327	+P	13 51 04.0	−0.6		
			PMZ			1.0	0.020
			PcP	13 51 40.5	0.5		
			ScP	13 55 30.5	1.0		
			S	13 59 23.5	−0.3		
			sS	14 00 22.0	8.1		
			ScS	14 00 40.0	−1.3		
			LN			22.0	0.86
KSH	67.7	318	+iP	13 51 33.7	0.0		

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			sP	13 52 18.0	2.9		
			eS	14 00 17.5	−3.2		
			eScS	14 01 20.7	4.4		

1986 6 12
O = 19 52 05.6 ± 0.12s
LAT = 5.08 N ± 1.60km
LONG = 94.20 E ± 1.58km
DEPTH = 32 km ± 0.06km
STATIONS USED = 49, STAND DEV = 0.96s

KMI	21.5	21	+P	19 56 56.5	1.8		
GYA	24.4	28	−P	19 57 23.6	1.3		
			sP	19 57 36.0	1.1		
			S	20 01 29.0	−7.3		
LSA	24.7	354	−iP	19 57 24.4	−1.1		
GZH	25.7	44	eP	19 57 37.5	2.4		
CD2	27.2	18	eP	19 57 48.2	−0.8		
WHN	31.6	34	eP	19 58 28.5	0.1		
XAN	31.9	24	+iP	19 58 29.0	−1.7		
LZH	32.1	15	P	19 58 31.5	−1.2		
			PMZ			1.0	0.020
GTA	34.5	8	+P	19 58 52.9	−0.9		
			pP	19 59 04.3	1.6		
NJ2	35.4	38	−P	19 59 01.5	0.7		
TIY	36.5	25	eP	19 59 11.5	1.3		
BTO	38.1	20	P	19 59 23.4	−0.4		
HHC	38.9	21	−P	19 59 29.5	−0.7		
WMQ	39.0	353	P	19 59 31.8	0.5		
			PMZ			1.7	0.040
BJI	40.0	27	eP	19 59 41.0	1.3		
SNY	45.0	31	+P	20 00 19.8	−0.4		
CN2	47.4	31	+P	20 01 01.8	23.5		

1986 6 12
O = 22 19 50.5 ± 0.09s
LAT = 43.72 N ± 1.51km
LONG = 87.36 E ± 1.06km
DEPTH = 32 km ± 0.09km
STATIONS USED = 72, STAND DEV = 2.26s
Ms = 4.6 / 17, M_L = 5.0 / 5,

WMQ	0.3	66	+iPg	22 19 55.8	−1.8		
			Sg	22 19 59.8	−3.1		
KSH	9.5	247	eP	22 22 09.5	0.7		
			S	22 23 56.0	0.4		
			LN	Ms = 5.1		4.0	4.20
GTA	10.3	111	−iP	22 22 16.9	−2.1		
			S	22 24 10.3	−3.5		
			LG_1	22 25 03.5	−9.7		
			LN	Ms = 4.4		7.0	1.24
LZH	14.8	116	P	22 23 19.5	0.5		
			PMZ			2.0	0.050
			LN	Ms = 4.5		12.0	1.39
BTO	17.1	93	eP	22 23 50.8	2.1		
			LG_2	22 29 08.0	−5.9		
			LN	Ms = 4.3		11.0	0.50
			LE			11.0	0.40
HHC	18.1	91	P	22 24 01.2	−0.5		
			eS	22 27 20.0	−0.2		
			LN	Ms = 4.6		7.0	0.56
			LE			7.0	0.33
CD2	18.2	129	eP	22 24 05.0	2.1		
XAN	19.3	113	P	22 24 15.0	−1.0		
			LG_2	22 30 19.0	−8.9		
			LE	Ms = 4.4		11.0	0.68
TIY	19.9	99	P	22 24 21.4	−0.9		
			PMZ			1.0	0.030
			S	22 28 05.5	6.6		
			LG_1	22 30 17.0	1.7		
			LN	Ms = 4.5		10.0	0.47
			LE			12.0	0.55
BJI	21.7	90	eP	22 24 42.0	1.0		
			(S)	22 28 34.0	−0.7		
KMI	22.4	141	+iP	22 24 48.0	−0.1		
			pP	22 24 53.0	−3.6		
			PP	22 25 18.0	3.0		
			eS	22 28 54.0	6.2		
			LN	Ms = 4.5		14.0	0.82
GYA	23.3	131	+P	22 24 57.4	0.8		
			pP	22 25 10.4	5.3		
			S	22 29 08.0	5.8		
TIA	23.9	98	eP	22 25 04.1	1.3		
			LE	Ms = 4.6		12.0	0.74
WHN	25.1	113	P	22 25 14.5	0.5		
			LN	Ms = 5.0		10.0	0.92
			LE			9.0	1.00
SNY	26.5	81	eP	22 25 27.0	−0.4		
			eS	22 29 56.5	−1.2		
			LN	Ms = 4.6		22.0	1.25
NJ2	27.3	105	eP	22 25 34.0	−0.4		
			LN	Ms = 4.8		13.0	1.00
CN2	27.3	76	eP	22 25 41.2	6.2		
SSE	29.5	104	eP	22 25 51.0	−3.0		
			LE	Ms = 4.4		20.0	0.58
GZH	29.7	125	eP	22 25 55.5	−0.4		

1986 6 13
O = 00 08 55.7 ± 0.11s
LAT = 0.15 S ± 0.98km
LONG = 125.16 E ± 2.55km
DEPTH = 71 km ± 0.84km

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STATIONS USED = 17, STAND DEV = 1.26s

XAN	37.3	337	P	00 16 02.2	−0.6
TIY	39.5	344	eP	00 16 21.6	0.4
SNY	41.8	358	eP	00 16 40.4	0.0
GTA	45.7	332	P	00 17 12.1	0.1

1986 6 13
O = 09 25 51.0 ± 0.08s
LAT = 53.63 N ± 2.97km
LONG = 163.86 W ± 1.28km
DEPTH = 32 km ± 0.41km
STATIONS USED = 51, STAND DEV = 1.29s

CN2	45.8	288	+P	09 34 11.8	−0.7	
SNY	48.2	287	eP	09 34 31.1	0.5	
BJI	53.5	290	eP	09 35 11.0	−0.4	
BTO	56.5	294	P	09 35 33.4	0.0	
TIY	57.2	290	eP	09 35 38.0	−0.4	
NJ2	57.6	281	+P	09 35 41.3	0.4	
XAN	61.9	290	eP	09 36 10.0	−0.2	
GTA	62.8	300	+P	09 36 15.8	−0.8	
LZH	63.1	295	eP	09 36 18.5	−0.4	
			PMZ		2.0	0.060
WMQ	65.3	311	P	09 36 32.5	−0.3	
CD2	67.1	291	eP	09 36 45.5	1.4	
GYA	68.8	286	P	09 36 56.4	1.2	

1986 6 13
O = 10 48 08.8 ± 0.05s
LAT = 43.04 N ± 0.52km
LONG = 87.56 E ± 0.46km
DEPTH = 7 km ± 0.11km
STATIONS USED = 7, STAND DEV = 1.80s
M_L = 3.6 / 4,

WMQ	0.8	7	−iPg	10 48 24.0	1.2
			Sg	10 48 34.0	0.6

1986 6 13
O = 11 51 56.4 ± 0.12s
LAT = 38.65 N ± 0.70km
LONG = 76.50 E ± 0.64km
DEPTH = 42 km ± 0.86km
STATIONS USED = 6, STAND DEV = 4.25s
M_L = 3.4 / 3,

KSH	0.9	333	Pg	11 52 13.0	−0.8
			Sg	11 52 28.8	1.9

1986 6 13
O = 12 58 11.2 ± 0.21s
LAT = 41.66 N ± 1.03km
LONG = 85.84 E ± 0.67km
DEPTH = 16 km ± 1.30km
STATIONS USED = 7, STAND DEV = 2.51s
M_L = 3.1 / 6,

WMQ	2.6	32	Pn	12 58 54.8	2.2	
			Sn	12 59 27.6	2.5	
			SMN	M_L = 3.1	0.6	0.10

1986 6 13
O = 13 01 23.0 ± 0.10s
LAT = 1.85 N ± 1.53km
LONG = 126.31 E ± 3.27km
DEPTH = 65 km ± 0.42km
STATIONS USED = 28, STAND DEV = 2.00s

GZH	24.6	330	eP	13 06 39.0	0.7
XAN	35.9	335	P	13 08 18.8	−0.5
BJI	39.1	348	eP	13 08 45.5	−0.5
GTA	44.5	330	eP	13 09 29.0	−1.3
WMQ	54.0	326	eP	13 10 43.0	−0.5

1986 6 13
O = 18 05 31.1 ± 0.04s
LAT = 1.98 S ± 0.68km
LONG = 139.26 E ± 1.52km
DEPTH = 40 km ± 0.32km
STATIONS USED = 19, STAND DEV = 1.14s

GYA	42.3	314	eP	18 13 24.8	1.6
BJI	46.9	336	eP	18 13 58.0	−1.6
CD2	47.0	317	(P)	18 14 01.2	0.3
BTO	50.1	331	eP	18 14 24.0	−0.7
GTA	54.8	323	eP	18 14 59.4	−0.8
WMQ	64.8	321	eP	18 16 08.5	−0.1

1986 6 13
O = 22 09 38.4 ± 0.13s
LAT = 28.37 N ± 2.34km
LONG = 140.81 E ± 2.48km
DEPTH = 34 km ± 0.65km
STATIONS USED = 63, STAND DEV = 1.84s
Ms = 4.7 / 21, m_B = 5.6 / 32

SSE	17.3	284	P	22 13 38.0	−0.6	
			PMZ	m_B = 5.4	6.0	1.17
			eS	22 16 52.0	4.0	
			SS	22 17 04.0	−4.9	
			PcS	22 21 52.0	−3.8	
			LN	Ms = 4.5	10.0	0.89
MDJ	18.5	334	−P	22 13 52.0	−2.3	
			S	22 17 08.0	−7.9	
DL2	19.1	308	eP	22 14 00.0	−1.0	
			PMZ	m_B = 5.5	6.0	1.50
			eS	22 17 32.0	2.9	

			SMN		$m_B=5.7$		6.0	0.83
			SME				8.0	2.17
			LN		Ms=4.8		8.0	0.58
			LE				7.0	0.82
NJ2	19.3	286	+P	22 14 03.0		−0.7		
			PMZ		$m_B=5.8$		6.0	3.20
			LN		Ms=4.8		14.0	2.20
SNY	19.4	318	−P	22 14 04.0		−0.8		
			pP	22 14 13.0		0.2		
			eS	22 17 38.0		1.4		
			sS	22 17 49.0		0.0		
			LN		Ms=4.8		12.0	1.09
			LE				12.0	1.14
CN2	19.7	325	−P	22 14 07.0		−1.2		
			PMZ		$m_B=5.3$		4.5	0.70
			eS	22 17 46.5		2.9		
			LN		Ms=4.7		10.0	1.10
QZH	20.1	265	eP	22 14 12.0		−0.7		
			pP	22 14 22.5		1.2		
			S	22 17 49.0		−2.7		
TIA	21.5	297	eP	22 14 24.0		−2.2		
			PMZ		$m_B=5.6$		6.0	1.59
			eS	22 18 08.0		−9.5		
			sS	22 18 23.0		−8.9		
			SMN		$m_B=5.6$		7.0	0.49
			SME				7.0	1.38
			PcP	22 18 33.5		5.0		
			LE		Ms=4.7		9.0	0.84
BJI	23.4	306	eP	22 14 44.0		−1.2		
			PMZ		$m_B=5.4$		6.0	1.07
			eS	22 18 59.0		6.6		
			eSS	22 19 49.0		9.7		
			SMN		$m_B=5.6$		7.0	1.36
			SME				10.0	0.91
			LN		Ms=4.5		11.0	0.55
GZH	25.3	264	eP	22 15 03.0		−0.4		
			S	22 19 19.0		−4.8		
			SME		$m_B=5.3$		8.0	0.76
			sS	22 19 34.0		−5.7		
TIY	25.5	299	eP	22 15 04.2		−1.2		
			PMZ		$m_B=6.0$		5	2.07
			S	22 19 21.0		−6.1		
			sS	22 19 35.5		−7.6		
			LN		Ms=4.5		11.0	0.50
HHC	27.0	305	eP	22 15 16.7		−2.6		
			eS	22 19 47.0		−5.7		
			LE		Ms=4.5		12.0	0.50
XAN	27.8	290	eP	22 15 24.0		−2.7		
			eS	22 20 04.0		−1.8		
			LN		Ms=4.5		10.0	0.43
BTO	28.0	304	eP	22 15 27.8		−1.1		
			PMZ		$m_B=5.8$		6.0	1.10
			S	22 20 05.0		−3.6		
			LN		Ms=4.5		11.0	0.30
			LE				11.0	0.30
GYA	30.3	275	P	22 15 50.6		1.2		
			S	22 20 40.0		−5.2		
LZH	32.1	293	eP	22 16 03.5		−1.3		
			PMZ		$m_B=5.6$		4.0	0.45
CD2	32.2	284	eP	22 16 06.6		0.6		
KMI	34.1	274	eP	22 16 22.0		−0.2		
GTA	35.5	299	P	22 16 34.2		−0.2		
			PMZ		$m_B=5.7$		5.0	0.68
			PP	22 17 52.0		−2.4		
			S	22 22 06.0		0.1		
			SMN		$m_B=5.2$		7.0	0.32
			LN		Ms=4.7		9.0	0.34
WMQ	44.8	305	eP	22 17 49.0		−2.7		
			PMZ		$m_B=5.9$		5.0	0.87
			(S)	22 24 20.0		−6.7		
			SMN		$m_B=5.3$		8.0	0.42
KSH	53.9	300	P	22 19 04.0		2.7		
			ePP	22 21 07.0		3.9		
			eS	22 26 34.0		1.0		

1986 6 14
O=01 17 13.7 ± 0.06s
LAT=43.78 N ± 0.82km
LONG= 81.78 E ± 0.67km
DEPTH= 3 km ± 0.27km
STATIONS USED = 7, STAND DEV= 4.92s
M_L=3.5 / 6,

WMQ	4.3	87	cPn	01 18 22.7		2.5		
			Sn	01 19 04.0		−8.8		
			Sg	01 19 25.6		−2.4		
			SMN		$M_L=3.5$		0.7	0.070
			SME				0.8	0.090

1986 6 14
O=03 50 24.5 ± 0.31s
LAT=57.77 S ± 6.77km
LONG= 22.88 W ± 7.10km
DEPTH= 37 km ± 1.56km
STATIONS USED = 63, STAND DEV= 3.70s
Ms=5.6 / 4,

KMI	129.7	107	ePKP	04 09 32.0		0.7
GYA	132.8	109	PKP	04 09 38.4		1.3
			PP	04 12 00.6		−4.3
GZH	133.3	119	ePKP	04 09 40.4		2.6
CD2	134.9	103	ePKP	04 09 42.8		1.8

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WMQ	136.0	77	PKP	04 09 43.0	0.1			
LZH	139.0	98	cPKP	04 09 40.0	−8.5			
GTA	139.3	91	cPKP	04 09 40.4	−8.7			
WHN	140.0	114	cPKP	04 09 46.5	−3.7			
XAN	140.1	105	PKP	04 09 43.8	−6.6			
NJ2	143.4	118	+iPKP	04 09 56.2	0.1			
SSE	143.7	122	−PKP	04 09 56.5	−0.1			
			LN	Ms=5.5		24.0	0.64	
TIY	144.7	105	−PKP	04 09 59.2	0.7			
			PP	04 13 17.0	−1.2			
			LN	Ms=5.6		17.0	0.62	
TIA	146.0	112	+PKP	04 10 02.2	1.7			
			PMZ			3.0	1.67	
HHC	146.6	100	+PKP	04 10 06.0	4.3			
BJI	148.4	106	cPKP	04 10 05.5	1.0			
DL2	150.3	114	PKP	04 10 14.5	7.0			
SNY	153.5	112	−PKP	04 10 11.0	−1.2			
			PP	04 14 06.0	−2.7			
CN2	155.9	112	PKP	04 10 15.5	0.2			
			PKP_2	04 10 43.0				
			cPP	04 14 15.0	−7.1			
MDJ	158.5	116	−PKP	04 10 18.5	−0.3			
			PP	04 14 28.0	−8.4			

1986 6 14
O=06 55 04.3 ± 0.08s
LAT=36.82 N ± 1.28km
LONG= 71.28 E ± 0.84km
DEPTH=243 km ± 0.74km
STATIONS USED = 17, STAND DEV= 1.88s

KSH	4.5	53	−iP	06 56 15.3	0.1			
			S	06 57 12.8	3.2			
			LN			0.3	1.00	
			LE			0.3	0.90	
WMQ	14.3	56	P	06 58 18.2	0.0			
GTA	22.6	75	eP	06 59 49.0	3.7			

1986 6 14
O=14 51 02.9 ± 0.12s
LAT= 2.03 N ± 2.00km
LONG= 98.13 E ± 2.03km
DEPTH= 65 km ± 0.24km
STATIONS USED = 83, STAND DEV= 1.34s
Ms=4.8/12,

KMI	23.4	11	+P	14 56 08.5	1.4			
			S	15 00 19.0	8.0			
			sS	15 00 47.0	10.0			
			LN	Ms=5.0		16.0	2.87	
GZH	25.6	34	eP	14 56 29.6	1.4			
			eS	15 00 47.0	−2.4			
GYA	25.6	18	P	14 56 28.8	0.2			
			pP	14 56 45.0	1.6			
			S	15 00 52.0	2.9			
LSA	28.3	347	iP	14 56 52.0	−1.4			
CD2	29.2	10	eP	14 57 00.0	−1.0			
			(S)	15 01 52.0	4.1			
			LE	Ms=4.7		26.0	1.60	
WHN	32.3	27	eP	14 57 27.5	−0.3			
XAN	33.4	16	+iP	14 57 36.2	−1.6			
			eS	15 02 55.0	1.4			
			LN	Ms=4.8		13.0	0.58	
			LE			12.0	0.40	
LZH	34.3	8	P	14 57 45.0	−0.6			
			PMZ			1.5	0.090	
NJ2	35.7	31	−P	14 57 57.6	0.4			
SSE	36.2	35	−P	14 58 02.3	0.6			
			PMZ			0.7	1.01	
GTA	37.2	2	+iP	14 58 09.6	−0.9			
			PcP	15 00 29.4	0.7			
			ScS	15 08 17.0	1.7			
			LE	Ms=4.5		14.0	0.37	
TIY	37.9	19	eP	14 58 15.3	−0.4			
			(S)	15 04 06.5	4.3			
			ScP	15 04 06.0	−5.1			
			LN	Ms=4.7		15.0	0.55	
BTO	39.9	14	eP	14 58 32.5	0.1			
			epP	14 58 52.0	3.9			
			eS	15 04 35.0	2.4			
HHC	40.5	16	+P	14 58 38.6	0.9			
BJI	41.2	21	eP	14 58 44.0	0.5			
KSH	42.4	334	P	14 58 53.6	0.7			
			epP	14 59 10.6	1.9			
			S	15 05 13.1	4.8			
DL2	42.5	27	eP	14 58 55.0	1.0			
WMQ	42.6	349	+iP	14 58 55.5	0.4			
			eS	15 05 14.0	0.6			
SNY	45.7	27	−iP	14 59 19.8	−0.2			
			eS	15 06 00.0	1.8			
			LN	Ms=4.8		24.0	0.65	
			LE			23.0	0.63	
CN2	48.2	26	+P	14 59 38.0	−0.9			
			PcP	15 01 05.0	−0.2			
MDJ	50.7	29	eP	14 59 58.2	−0.3			
			S	15 07 09.0	2.4			

1986 6 14
O=15 33 56.3 ± 0.12s
LAT= 5.72 S ± 1.71km
LONG=110.37 E ± 2.14km
DEPTH=561 km ± 0.06km

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STATIONS USED = 87, STAND DEV = 1.23s

m_B = 5.5 / 27

GZH	28.8	6	eP	15 39 12.4	1.1		
			sP	15 41 45.0	−1.5		
			S	15 43 19.5	−2.9		
QZH	31.5	14	eP	15 39 35.0	0.4		
			sP	15 42 14.0	2.6		
			S	15 44 00.0	−4.6		
			SMN	m_B = 5.1		9.0	0.93
KMI	31.5	347	−iP	15 39 37.0	1.8		
			PMZ			3.0	0.61
			sP	15 42 10.0	−1.7		
			iS	15 44 08.5	2.1		
			ScS	15 49 02.5	3.5		
GYA	32.2	354	−P	15 39 41.4	0.9		
			PcP	15 42 13.0	0.8		
			S	15 44 15.0	0.0		
			SME	m_B = 5.3		8.0	1.30
			ScP	15 45 04.0	1.8		
			ScS	15 49 02.0	−0.3		
WHN	36.3	6	+P	15 40 15.3	1.0		
			ScP	15 45 19.0	2.3		
			eS	15 45 11.0	−6.3		
			SMN	m_B = 5.2		7.0	0.92
CD2	37.0	351	−iP	15 40 20.7	0.5		
			S	15 45 25.5	−1.5		
SSE	38.0	15	+P	15 40 30.0	1.2		
			PMZ			1.0	0.070
			pP	15 42 08.0	1.9		
			sP	15 43 07.0	−1.2		
			(S)	15 45 36.0	−7.6		
			LN			16.0	1.16
NJ2	38.4	12	+P	15 40 33.2	1.3		
			ScP	15 45 27.0	2.2		
			S	15 45 52.0	3.7		
			SMN	m_B = 5.5		9.0	2.10
XAN	39.6	358	−iP	15 40 41.0	−0.3		
			ePP	15 42 26.0	−1.9		
			iS	15 46 02.0	−4.0		
			SMN	m_B = 5.8		6.0	1.26
			SME			5.0	2.10
			eSS	15 49 11.0	−7.9		
LSA	39.8	333	−iP	15 40 42.6	−0.6		
			iS	15 46 06.0	−3.6		
			SME	m_B = 5.6		5.0	1.48
			ScS	15 49 41.5	−3.3		
LZH	42.0	352	−iP	15 41 02.0	0.9		
			PMZ			1.5	0.21
			pP	15 42 40.0	−0.5		
			S	15 46 40.0	−0.3		
			SME	m_B = 5.6		5.5	1.30
			ScS	15 49 59.0	0.4		
			SS	15 50 08.0	5.3		
TIA	42.2	8	−P	15 41 01.7	−0.5		
			epP	15 42 43.0	1.2		
			eS	15 46 36.5	−7.0		
			SME	m_B = 5.4		7.0	1.02
			SS	15 49 58.0	−7.2		
TIY	43.2	2	eP	15 41 10.0	−0.6		
			S	15 46 55.5	−2.1		
			SMN	m_B = 5.5		7.5	0.90
			SME			7.0	0.78
			ScS	15 50 06.0	−0.2		
			LN			13.0	0.40
DL2	45.6	12	eP	15 41 27.5	−1.3		
BJI	45.8	6	eP	15 41 29.0	−1.6		
			ePcP	15 42 52.5	−3.5		
			eScP	15 45 56.0	1.4		
			eS	15 47 31.0	−3.8		
			SMN	m_B = 5.4		9.0	0.55
			SME			7.0	0.58
GTA	45.9	349	−iP	15 41 31.6	0.0		
			PMZ	m_B = 5.4		5.0	0.56
			PcP	15 42 56.0	−0.4		
			sP	15 44 10.0	−3.8		
			ScP	15 45 57.0	2.0		
			S	15 47 35.0	−0.3		
			SME	m_B = 5.5		10.0	1.17
			LE			11.0	0.25
BTO	46.1	360	+P	15 41 32.0	−0.6		
			epP	15 43 12.0	−2.2		
			esP	15 44 11.0	−3.9		
			S	15 47 37.0	−0.2		
			SMN	m_B = 5.4		7.0	0.50
			SME			7.0	0.60
			ScS	15 50 27.0	2.4		
			LN			13.0	0.40
			LE			13.0	0.30
HHC	46.3	1	P	15 41 34.8	0.2		
			S	15 47 39.0	−1.9		
			SME	m_B = 5.3		8.0	0.69
SNY	48.8	13	+iP	15 41 51.2	−2.0		
			pP	15 43 34.0	−2.5		
			PP	15 43 52.0	−3.2		
			sP	15 44 31.0	−5.8		
			S	15 48 10.0	−4.9		
			SMN	m_B = 5.7		7.0	1.02
			SME			6.0	0.58
			ScS	15 50 44.0	1.2		
CN2	51.1	14	+iP	15 42 08.5	−1.7		

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			PcP	15 43 15.5	0.0		
			pP	15 43 51.0	−3.9		
			ePP	15 44 10.0	−6.2		
			sP	15 44 48.5	−6.2		
			ScP	15 46 18.5	1.4		
			SMN	m_B = 5.5		7.0	0.60
			SME			6.0	0.40
			ScS	15 51 00.0	1.3		
MDJ	53.0	17	eP	15 42 22.4	−1.1		
			pP	15 44 10.0	0.6		
			S	15 49 08.0	−2.8		
			sS	15 52 10.0	−9.2		
WMQ	53.4	340	−iP	15 42 25.5	−0.9		
			PMZ			2.0	0.28
			PcP	15 43 24.3	0.3		
			iS	15 49 15.0	−2.3		
			SME	m_B = 5.9		6.0	1.39
			ScS	15 51 14.0	−0.5		
KSH	55.0	328	−iP	15 42 37.6	−0.4		
			pP	15 44 18.0	−7.0		
			iS	15 49 37.6	−1.3		
			SME	m_B = 6.0		4.0	1.20
			ScS	15 51 30.6	4.3		

1986 6 14
O = 17 50 24.2 ± 0.09s
LAT = 36.12 N ± 1.82km
LONG = 22.09 E ± 1.49km
DEPTH = 46 km ± 0.41km
STATIONS USED = 71, STAND DEV = 0.84s

KSH	42.2	69	eP	17 58 16.5	1.7		
WMQ	49.7	60	P	17 59 14.0	−0.2		
			PMZ			1.5	0.060
			PP	18 01 09.0	0.4		
			S	18 06 20.0	2.8		
GTA	59.7	61	+iP	18 00 26.6	−0.7		
LZH	64.0	63	+P	18 00 56.0	−0.1		
			PMZ			1.0	0.070
BTO	66.3	56	eP	18 01 10.6	0.1		
CD2	66.4	68	eP	18 01 11.5	0.3		
HHC	67.2	55	P	18 01 18.0	1.7		
KMI	68.5	74	+P	18 01 24.0	−0.5		
XAN	68.6	63	+iP	18 01 25.4	−0.1		
TIY	69.3	58	eP	18 01 29.5	0.0		
BJI	70.6	54	eP	18 01 37.0	−0.5		
GYA	70.8	71	+P	18 01 38.4	−0.4		
TIA	73.3	57	eP	18 01 53.3	−0.1		
SNY	74.4	50	+iP	18 01 59.2	−0.5		
CN2	74.4	47	+P	18 01 59.5	−0.3		
DL2	74.8	53	eP	18 02 02.4	0.3		
MDJ	76.3	45	eP	18 02 12.0	1.2		
NJ2	76.8	60	−P	18 02 13.5	0.1		
GZH	77.7	70	−P	18 02 20.0	1.2		

1986 6 14
O = 23 29 22.5 ± 0.14s
LAT = 19.01 S ± 2.08km
LONG = 169.89 E ± 2.08km
DEPTH = 15 km ± 0.26km
STATIONS USED = 81, STAND DEV = 1.26s
Ms = 5.5 / 14, m_B = 6.0 / 23

QZH	66.3	309	−P	23 40 12.0	−1.3		
			PMZ	m_B = 6.0		5.0	0.90
			(S)	23 49 06.0	4.6		
			LN	Ms = 4.9		13.0	0.30
SSE	68.3	316	−P	23 40 24.0	−1.9		
			PMZ	m_B = 6.0		5.0	0.92
			eS	23 49 26.0	0.7		
			ScS	23 50 12.0	−8.2		
			eSS	23 53 48.0	−0.6		
			LN	Ms = 5.4		24.0	1.60
NJ2	70.5	316	+P	23 40 39.0	−0.1		
			PMZ	m_B = 5.9		7.0	1.10
			pP	23 40 46.8	1.3		
			LE	Ms = 5.4		18.0	1.20
WHN	72.7	312	P	23 40 51.7	−0.5		
			PMZ	m_B = 6.0		5.0	0.95
			eS	23 50 22.0	6.1		
			SMN	m_B = 5.8		10.0	0.74
DL2	73.2	323	P	23 40 55.0	−0.4		
			pP	23 41 06.0	4.2		
			S	23 50 16.0	−4.7		
MDJ	73.2	331	−P	23 40 55.5	0.0		
			S	23 50 30.0	9.1		
SNY	74.1	326	−iP	23 41 00.0	−0.8		
			S	23 50 38.0	6.8		
			LN	Ms = 5.6		21.0	1.91
			LE			23.0	1.31
TIA	74.2	318	+P	23 41 01.1	0.0		
			eS	23 50 31.0	−2.2		
			SME	m_B = 5.7		9.0	0.60
			PS	23 51 08.0			
			LE	Ms = 5.3		14.0	0.69
CN2	74.6	328	−iP	23 41 02.6	−0.9		
			PMZ	m_B = 6.2		4.5	1.20
			sP	23 41 15.0	2.3		
			S	23 50 30.0	−6.2		
			SMN	m_B = 6.0		8.5	1.00
GYA	76.2	304	P	23 41 12.6	−0.2		
			pP	23 41 20.0	1.0		

			sP	23 41 26.0	4.1		
			S	23 50 52.0	−2.0		
BJI	77.2	321	eP	23 41 17.5	−0.6		
			eS	23 50 58.0	−7.9		
			SMN	m_B = 6.1		9.0	1.26
			LN	Ms = 5.6		20.0	1.68
			LE			20.0	1.01
TIY	78.1	317	eP	23 41 23.3	0.0		
			S	23 51 09.5	−5.0		
			SKS	23 51 27.5	−3.1		
			LN	Ms = 5.6		17.0	1.23
			LE			18.0	0.94
XAN	78.4	312	−P	23 41 24.7	−0.4		
			PMZ	m_B = 5.0		8.0	0.15
			sP	23 41 37.5	3.3		
			ePP	23 44 21.0	−2.3		
			eS	23 51 10.0	−9.6		
			ScS	23 51 35.0	−5.6		
KMI	78.7	302	−iP	23 41 27.0	0.3		
			PMZ	m_B = 6.0		5.0	0.98
			sP	23 41 40.0	4.3		
			PP	23 44 24.0	−1.3		
			eS	23 51 19.0	−3.8		
HHC	80.5	319	P	23 41 37.0	0.8		
			S	23 51 33.0	−6.3		
			SMN	m_B = 6.0		10.0	1.11
			SKS	23 51 44.0	−3.5		
			ScS	23 51 54.0	−3.2		
CD2	80.6	307	eP	23 41 37.4	0.5		
			S	23 51 49.0	8.2		
BTO	81.3	318	+P	23 41 40.5	0.0		
			sP	23 41 53.0	3.4		
			ePP	23 44 44.0	−3.2		
			eS	23 51 40.0	−9.8		
LZH	83.0	312	P	23 41 50.5	0.8		
			PMZ			2.3	0.22
			eS	23 52 06.0	−1.9		
			SMN	m_B = 5.9		10.0	0.88
GTA	87.4	313	−P	23 42 11.4	−0.1		
			S	23 52 44.5	−4.2		
LSA	89.9	301	P	23 42 22.6	−1.2		
WMQ	97.5	314	P	23 42 57.7	−0.4		
			PMZ			2.0	0.10
			iPP	23 46 55.0	−1.9		
KSH	104.8	307	Pdif	23 43 37.3	6.7		
			eSKKS	23 54 44.0			

1986 6 14
O = 23 37 42.7 ± 0.22s
LAT = 18.79 S ± 2.33km
LONG = 169.63 E ± 1.61km
DEPTH = 25 km ± 0.81km
STATIONS USED = 47, STAND DEV = 1.11s

QZH	66.0	309	eP	23 48 26.0	−4.0		
SSE	68.0	316	eP	23 48 41.0	−1.6		
NJ2	70.1	316	+P	23 48 56.0	0.2		
WHN	72.3	312	eP	23 49 08.6	−0.3		
MDJ	72.9	331	eP	23 49 12.5	0.1		
SNY	73.8	326	+P	23 49 18.0	0.3		
CN2	74.3	328	+P	23 49 20.6	0.3		
GYA	75.9	305	P	23 49 30.0	0.3		
BJI	76.8	321	eP	23 49 35.0	0.1		
TIY	77.8	317	eP	23 49 40.5	0.3		
KMI	78.4	302	+P	23 49 45.0	1.3		
BTO	80.9	318	eP	23 49 58.0	0.4		
LZH	82.7	312	P	23 50 07.0	0.3		
			PMZ			2.0	0.10
GTA	87.1	313	−P	23 50 28.2	−0.4		
WMQ	97.2	314	P	23 51 14.0	−1.3		

1986 6 15
O = 03 10 56.1 ± 0.09s
LAT = 29.92 S ± 3.99km
LONG = 176.40 W ± 3.38km
DEPTH = 14 km ± 0.94km
STATIONS USED = 65, STAND DEV = 1.87s
Ms = 5.7 / 16, m_B = 6.2 / 22

QZH	82.8	304	+P	03 23 20.0	−2.3		
			S	03 33 34.0	−3.7		
			SS	03 39 08.0	4.1		
			LN	Ms = 5.1		15.0	0.41
SSE	84.8	310	+P	03 23 30.0	−2.5		
			(S)	03 34 00.0	0.5		
			LN	Ms = 5.2		14.0	0.42
GZH	85.6	300	eP	03 23 36.2	−0.1		
			S	03 34 07.5	2.2		
			SMN	m_B = 6.1		12.0	1.54
			SME			12.0	1.78
MDJ	89.0	325	eP	03 23 52.8	−0.1		
			SKS	03 34 16.0	−2.8		
			S	03 34 47.0	9.4		
			SMN			14.0	4.30
WHN	89.2	306	eP	03 23 53.0	−0.5		
			PMZ	m_B = 6.2		6.0	0.94
			eSKS	03 34 15.0	−4.7		
			eS	03 34 45.0	4.3		
			SME	m_B = 6.1		10.0	1.88
			LN	Ms = 5.7		20.0	1.80
DL2	89.5	316	P	03 23 55.0	−0.3		
			SKS	03 34 22.0	0.0		

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			S	03 34 37.0	−5.4		
			SMN	m_B=6.3		10.0	2.54
			PS	03 35 54.0			
SNY	90.3	320	+P	03 23 58.5	−0.4		
			SMN	m_B=5.9		10.0	0.75
			SME			11.0	0.86
			LN	Ms=5.4		20.0	0.85
CN2	90.6	322	−P	03 24 00.0	−0.3		
			PMZ	m_B=6.2		4.0	0.60
			ePP	03 27 43.0	7.2		
			eSKS	03 34 25.0	−3.3		
			S	03 34 50.0	−2.0		
			SMN	m_B=6.4		10.0	2.80
			SME			10.0	1.40
TIA	90.7	312	eP	03 24 08.0	7.4		
			SKS	03 34 31.6	2.9		
			SMN	m_B=6.3		9.5	0.74
			SME			9.5	2.58
			LE	Ms=5.5		15.0	0.93
GYA	92.5	299	P	03 24 09.0	−0.2		
			SME	m_B=6.3		8.0	2.10
			LE	Ms=5.4		17.0	0.80
BJI	93.6	315	eP	03 24 14.0	0.2		
			eSKS	03 34 44.0	−1.1		
			SMN	m_B=6.8		9.5	5.85
			SME			9.0	3.27
TIY	94.6	311	eP	03 24 19.0	0.3		
			(S)	03 35 20.3	−8.4		
			SS	03 41 56.0	2.3		
			LN	Ms=5.6		17.0	1.23
KMI	94.9	296	eP	03 24 20.0	0.0		
			PMZ	m_B=6.0		7.0	0.38
			LN	Ms=6.2		9.0	1.51
			LE			9.0	2.00
XAN	94.9	306	P	03 24 20.2	0.0		
			SKS	03 34 50.0	−2.7		
			S	03 35 29.0	−0.7		
			SMN	m_B=6.6		10.0	3.66
			SME			10.0	2.33
HHC	96.9	313	P	03 24 30.2	0.9		
			PP	03 28 19.0	−7.0		
			SKS	03 35 00.0	−2.9		
			S	03 35 47.0	0.6		
			SMN	m_B=6.9		10.0	4.42
			SME			10.0	5.76
			LN	Ms=5.9		20.0	2.16
			LE			18.0	1.22
CD2	97.0	302	(P)	03 24 30.0	0.3		
BTO	97.8	313	eP	03 24 34.6	1.5		
			eSKS	03 35 05.0	−3.1		
			S	03 35 57.0	3.5		
			LN	Ms=5.5		15.0	0.60
			LE			15.0	0.40
LZH	99.6	306	eP	03 24 42.0	0.7		
			eSKS	03 35 20.0	3.3		
			SMN	m_B=6.0		11.0	0.94
GTA	103.9	307	eP	03 24 59.8	−1.1		

1986 6 15
O=05 21 16.8 ± 0.65s
LAT=24.20 N ± 4.14km
LONG=121.80 E ± 4.78km
DEPTH= 5 km ± 0.36km
STATIONS USED = 20, STAND DEV= 2.61s
M_L=3.9/ 7,

QZH	3.0	285	−iPn	05 22 05.9	0.5		
			Sn	05 22 41.5	−2.4		
			SMN	M_L=4.3		1.2	1.81
			SME			0.9	0.53
GZH	7.8	264	eP*	05 23 34.0	6.8		
			LN			1.0	0.10
GYA	13.9	282	P	05 24 36.6	−0.2		
XAN	14.9	314	eP	05 24 57.2	6.8		

1986 6 15
O=06 55 33.8 ± 0.12s
LAT=72.71 N ± 2.03km
LONG=125.34 E ± 3.15km
DEPTH= 10 km ± 0.10km
STATIONS USED = 23, STAND DEV= 2.21s
Ms=4.6/ 2,

BJI	33.1	193	eP	07 02 12.5	0.4		
WMQ	33.9	232	eP	07 02 19.8	0.1		
TIY	35.7	198	eP	07 02 42.5	7.8		
			LE	Ms=4.6		10.0	0.36
XAN	39.7	202	eP	07 03 07.7	−0.4		
SSE	41.7	185	eP	07 03 21.5	−3.6		
			LE	Ms=4.5		16.0	0.34

1986 6 15
O=08 00 54.8 ± 0.08s
LAT=19.14 S ± 1.31km
LONG=169.92 E ± 2.60km
DEPTH= 38 km ± 0.34km
STATIONS USED = 17, STAND DEV= 1.15s

MDJ	73.3	331	eP	08 12 25.5	0.2
CN2	74.7	328	eP	08 12 32.4	−0.8
GYA	76.3	305	eP	08 12 42.4	0.0
XAN	78.5	312	eP	08 12 54.6	−0.1
KMI	78.8	302	+P	08 12 57.5	1.2

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GTA	87.5	313	P	08 13 41.0	0.0	

1986 6 15
O = 14 54 13.2 ± 0.07s
LAT = 1.92 S ± 1.16km
LONG = 100.83 E ± 1.52km
DEPTH = 87 km ± 0.23km
STATIONS USED = 64, STAND DEV = 0.99s
Ms = 4.4/ 2,

KMI	26.9	4	+P	14 59 49.5	0.5	
GYA	28.8	11	P	15 00 05.0	−0.4	
			sP	15 00 40.0	4.6	
			S	15 04 52.0	5.5	
CD2	32.8	5	eP	15 00 39.4	−1.1	
LSA	32.8	344	+iP	15 00 40.0	−1.0	
XAN	36.6	11	−P	15 01 12.0	−0.9	
			eS	15 06 48.0	−0.9	
NJ2	37.9	25	eP	15 01 24.5	0.9	
			S	15 07 10.0	2.5	
LZH	37.9	4	eP	15 01 24.0	−0.3	
			PMZ		1.0	0.030
SSE	38.1	29	eP	15 01 28.0	2.2	
			PMZ		1.0	0.010
			LN	Ms = 4.4	20.0	0.36
TIY	40.9	14	eP	15 01 49.0	0.3	
			LN	Ms = 4.4	13.0	0.24
GTA	41.1	359	−P	15 01 50.4	−0.5	
			iPcP	15 03 49.4	0.7	
BTO	43.1	10	eP	15 02 07.5	0.2	
HHC	43.7	12	P	15 02 12.8	1.1	
BJI	44.1	17	eP	15 02 15.0	0.4	
DL2	44.9	23	eP	15 02 22.0	0.6	
WMQ	47.0	347	+iP	15 02 39.0	0.6	
			PMZ		1.4	0.11
			PcP	15 04 08.8	−0.1	
			PcS	15 08 04.0	1.6	
			S	15 09 26.2	4.4	
KSH	47.1	334	−P	15 02 38.6	−0.1	
			iS	15 09 28.6	4.9	
			sS	15 10 06.6	7.3	
SNY	48.2	23	eP	15 02 46.6	−0.6	
CN2	50.6	23	+iP	15 03 05.0	−0.7	

1986 6 15
O = 15 06 11.8 ± 0.04s
LAT = 1.87 S ± 0.79km
LONG = 100.86 E ± 1.12km
DEPTH = 75 km ± 0.18km
STATIONS USED = 41, STAND DEV = 0.80s

KMI	26.9	4	eP	15 11 49.0	0.9	
GYA	28.7	11	P	15 12 04.8	0.3	
LSA	32.7	344	+iP	15 12 39.4	−0.9	
XAN	36.5	11	eP	15 13 11.4	−0.7	
TIY	40.8	14	eP	15 13 48.5	0.6	
GTA	41.1	359	P	15 13 49.6	−0.6	
BJI	44.0	17	(P)	15 14 14.0	0.2	
WMQ	47.0	347	P	15 14 38.4	0.7	
CN2	50.5	23	eP	15 15 04.2	−0.7	
MDJ	52.9	25	eP	15 15 23.0	0.2	

1986 6 15
O = 17 14 29.5 ± 0.05s
LAT = 36.59 N ± 1.08km
LONG = 137.20 E ± 0.91km
DEPTH = 275 km ± 0.56km
STATIONS USED = 28, STAND DEV = 1.31s

MDJ	9.9	327	eP	17 16 48.5	1.2
CN2	11.5	312	+P	17 17 07.6	−0.1
SSE	14.4	252	+P	17 17 42.5	−0.3
BJI	16.9	288	(P)	17 18 15.0	4.2
XAN	23.2	272	eP	17 19 13.2	−0.5

1986 6 15
O = 20 39 57.4 ± 0.10s
LAT = 0.21 S ± 1.31km
LONG = 124.55 E ± 2.36km
DEPTH = 31 km ± 0.15km
STATIONS USED = 41, STAND DEV = 1.45s

GYA	31.6	328	P	20 46 20.2	−0.1
NJ2	32.5	351	eP	20 46 28.0	−0.1
KMI	32.8	322	eP	20 46 32.0	0.9
XAN	37.1	338	eP	20 47 07.0	−0.1
TIY	39.4	345	eP	20 47 26.0	−0.1
BJI	40.8	350	eP	20 47 37.0	−0.8
LZH	40.9	334	eP	20 47 40.0	0.8
LSA	43.6	316	P	20 48 00.5	−0.6
CN2	43.8	1	eP	20 48 03.0	0.3
			PcP	20 49 48.0	−0.8
MDJ	44.9	5	eP	20 48 10.5	−0.5
GTA	45.5	333	eP	20 48 14.9	−1.2
WMQ	54.8	328	eP	20 49 25.0	−2.2

1986 6 16
O = 04 52 08.1 ± 0.15s
LAT = 49.20 S ± 2.86km
LONG = 121.16 E ± 3.29km
DEPTH = 11 km ± 0.37km
STATIONS USED = 18, STAND DEV = 3.08s

KMI	75.8	343	eP	05 03 56.0	−0.9
GYA	76.4	347	P	05 04 06.8	6.5

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LSA	83.0	334	−iP	05 04 33.5	−2.5	
XAN	83.6	350	eP	05 04 39.0	0.4	
GTA	90.2	344	eP	05 05 11.0	−0.1	
WMQ	97.2	336	eP	05 05 39.5	−3.3	

1986 6 16
O=10 24 45.3 ± 0.08s
LAT= 4.63 S ± 1.94km
LONG= 69.26 E ± 1.42km
DEPTH= 9 km ± 0.07km
STATIONS USED = 25, STAND DEV= 1.21s

GYA	47.6	48	P	10 33 24.2	0.2		
WMQ	51.0	17	+P	10 33 50.3	0.1		
XAN	53.7	41	P	10 34 09.0	−1.0		
NJ2	59.6	49	+P	10 34 52.4	0.2		
BJI	61.9	39	eP	10 35 08.0	0.1		

1986 6 16
O=10 48 26.0 ± 0.12s
LAT=21.79 S ± 1.98km
LONG=178.83 W ± 2.03km
DEPTH=548 km ± 0.68km
STATIONS USED = 92, STAND DEV= 0.88s
m_B=6.6 / 45

QZH	76.5	304	−iP	10 59 21.5	−0.1		
			PMZ	m_B=6.5		6.0	14.4
			pP	11 01 20.0	2.9		
			sP	11 02 15.5	3.6		
			iS	11 08 21.5	−2.2		
			SMN	m_B=6.5		10.0	6.04
			SME			8.0	7.51
			sS	11 11 54.0	8.0		
SSE	77.9	311	+iP	10 59 29.0	−0.4		
			PMZ	m_B=6.4		8.0	15.7
			PcP	10 59 35.5	−1.1		
			cpP	11 01 25.0	−0.5		
			esP	11 02 20.0	0.0		
			ePP	11 02 40.0	3.8		
			iS	11 08 38.0	−0.9		
			SMN	m_B=6.5		12.0	4.21
			SME			12.0	10.2
			SKS	11 08 48.0	1.3		
			ScS	11 09 00.0	4.2		
			esS	11 12 04.0	1.8		
			LN			16.0	5.52
			LE			12.0	1.17
GZH	79.7	300	−iP	10 59 39.5	0.9		
			PMZ	m_B=6.6		7.0	21.3
			sP	11 02 30.0	0.2		
			iS	11 08 59.0	2.0		
			SMN	m_B=7.0		10.0	7.60
			SME			8.5	27.6
NJ2	80.1	310	−iP	10 59 41.0	0.1		
			PMZ	m_B=6.6		7.0	19.8
			pP	11 01 42.0	4.3		
			PPMZ			11.0	20.1
			iS	11 09 00.0	−1.4		
			SMN			13.0	8.40
			SSS	11 17 26.0			
DL2	82.1	317	−iP	10 59 51.0	−0.3		
			PMZ	m_B=6.5		7.0	15.0
			pP	11 01 52.0	3.3		
			iSKS	11 09 18.0	1.7		
			eS	11 09 25.0	3.3		
			LN			15.0	8.74
			LE			15.0	9.71
WHN	82.6	307	−iP	10 59 54.0	0.5		
			PMZ	m_B=6.6		8.0	17.3
			pP	11 01 52.0	0.8		
			sP	11 02 44.0	−1.3		
			PP	11 03 14.0	−0.1		
			eSKS	11 09 20.0	0.6		
			S	11 09 24.0	−0.4		
			SME	m_B=6.6		6.0	6.05
			esS	11 12 51.0	−1.5		
			iSS	11 15 02.0	−3.7		
SNY	82.7	320	−iP	10 59 53.9	−0.2		
			PMZ			17.0	24.5
			pP	11 01 49.5	−2.3		
			sP	11 02 48.0	2.1		
			iS	11 09 20.0	−7.2		
			LN			8.0	2.54
			LE			9.0	10.1
CN2	82.8	323	−iP	10 59 54.6	−0.3		
			PMZ	m_B=6.9		4.0	17.8
			pP	11 01 54.5	1.9		
			sP	11 02 50.0	3.3		
			SKS	11 09 23.0	1.8		
			SMN	m_B=6.8		8.0	3.70
			SME			8.0	12.5
			esS	11 12 57.0	1.7		
			SS	11 15 11.0	1.6		
TIA	83.6	313	−P	10 59 58.8	0.3		
			pP	11 01 59.0	2.6		
			PP	11 03 17.5	−4.4		
			S	11 09 28.0	−6.1		
			SMN	m_B=6.9		9.0	2.56
			SME			10.0	21.4
			sS	11 13 12.0	9.2		
			LN			15.5	6.24

			LE			19.5	49.5
BJI	86.3	316	–iP	11 00 11.5	0.0		
			pP	11 02 10.0	–0.2		
			sP	11 03 07.0	2.9		
			SKS	11 09 44.0	0.3		
			S	11 10 06.0	6.5		
			SME	m_B=6.6		11.0	8.07
GYA	86.6	300	–P	11 00 13.6	0.3		
			PMZ	m_B=6.7		6.0	11.5
			PP	11 03 51.0	4.4		
			SKS	11 09 46.0	0.0		
			S	11 10 09.0	6.3		
			SME	m_B=6.5		9.0	6.00
			LE			18.0	11.4
TIY	87.6	312	–iP	11 00 18.5	0.8		
			PMZ			1.4	2.95
			pP	11 02 20.0	3.3		
			sP	11 03 12.0	1.4		
			SKS	11 09 54.0	2.1		
			S	11 10 16.5	5.1		
			SME	m_B=6.7		10.0	9.74
			PS	11 12 52.0			
			sS	11 13 44.0	1.2		
XAN	88.3	308	–iP	11 00 21.4	0.3		
			PMZ	m_B=6.9		6.0	12.8
			SKS	11 09 56.0	–0.4		
			S	11 10 26.0	8.0		
			SMN	m_B=7.0		10.0	6.50
			SME			10.0	19.9
			sS	11 13 48.0	–2.0		
KMI	89.2	297	–iP	11 00 27.0	1.2		
			PMZ	m_B=7.1		4.0	11.6
			pP	11 02 26.0	1.0		
			sP	11 03 17.0	–1.8		
			SKS	11 10 05.0	3.0		
			S	11 10 31.0	4.5		
			SME	m_B=6.5		9.0	5.00
HHC	89.7	315	–iP	11 00 28.0	0.3		
			PMZ			3.0	2.03
			pP	11 02 28.0	0.7		
			sP	11 03 25.0	4.0		
			S	11 10 28.0	–2.6		
			SMN	m_B=6.9		7.0	4.35
			SME			10.0	11.1
BTO	90.6	314	+iP	11 00 32.0	0.1		
			PMZ	m_B=6.8		7.0	9.00
			pP	11 02 33.3	1.7		
			sP	11 03 25.0	–0.2		
			SKS	11 10 10.0	0.0		
			iS	11 10 39.0	–1.5		
			SMN	m_B=6.8		9.0	3.79
			SME			9.0	10.5
			PS	11 13 05.0			
			sS	11 14 11.0	–1.0		
			LN			18.0	4.40
			LE			18.0	6.40
CD2	90.8	303	–iP	11 00 33.8	0.9		
			PMZ	m_B=6.4		7.0	3.58
			pP	11 02 36.5	3.9		
			sP	11 03 24.0	–2.3		
			SKS	11 10 11.0	–0.3		
			iS	11 10 40.0	–2.3		
LZH	92.9	308	–iP	11 00 43.0	0.3		
			PMZ	m_B=6.8		8.0	7.81
			pP	11 02 45.0	2.6		
			PP	11 04 31.0	–5.8		
			SKS	11 10 19.0	–3.9		
			S	11 11 03.0	4.3		
			SME	m_B=6.5		11.0	6.41
			sS	11 14 38.0	4.7		
GTA	97.2	309	–iP	11 01 01.5	–0.5		
			pP	11 03 00.0	–2.1		
			sP	11 03 57.0	1.5		
			SKS	11 10 45.0	–0.2		
			iS	11 11 44.0	7.4		
			SMN	m_B=5.8		7.0	1.77
LSA	100.5	298	–P	11 01 16.0	–1.2		
			pP	11 03 25.0	8.0		
			sP	11 04 16.0	5.6		
			PP	11 05 30.0	–4.5		
			SKS	11 11 01.8	0.0		
			LE			20.0	11.7

1986 6 16
O=13 58 39.1 ± 0.09s
LAT=35.51 N ± 2.05km
LONG=141.00 E ± 1.40km
DEPTH= 29 km ± 0.31km
STATIONS USED = 10, STAND DEV= 2.14s

BJI	20.1	290	(P	14 03 12.0	–1.6
GYA	30.7	263	P	14 04 55.0	1.2

1986 6 16
O=14 04 35.3 ± 0.13s
LAT=36.24 N ± 2.31km
LONG= 70.72 E ± 2.07km
DEPTH= 38 km ± 0.34km
STATIONS USED = 64, STAND DEV= 2.30s
Ms=4.2/ 2, M_L=5.6/ 3,

KSH	5.3	51	+P	14 06 00.9	7.1

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			S	14 06 57.9	4.6		
			SMN	M_L=5.8		0.5	10.1
WMQ	15.0	55	-P	14 08 07.0	-0.1		
			S	14 10 51.0	-1.2		
			LN			1.5	0.14
LSA	18.3	105	-iP	14 08 47.3	-1.8		
			S	14 12 03.5	-4.4		
GTA	23.2	73	P	14 09 40.0	0.2		
			PP	14 10 18.0	8.0		
			LN	Ms=4.1		11.0	0.24
LZH	26.7	80	eP	14 10 15.6	2.3		
CD2	28.0	91	eP	14 10 27.4	2.5		
KMI	29.6	103	eP	14 10 41.5	2.1		
BTO	30.9	70	-iP	14 10 50.4	-0.9		
XAN	31.2	83	eP	14 10 52.2	-1.4		
GYA	32.1	97	P	14 11 00.4	-0.9		
TIY	33.2	75	P	14 11 09.7	-1.2		
BJI	35.7	70	eP	14 11 31.0	-1.2		
WHN	36.6	86	P	14 11 42.4	1.9		
TIA	37.2	76	eP	14 11 43.9	-1.0		
NJ2	39.7	82	-P	14 12 08.0	1.6		
SSE	41.9	82	+P	14 12 26.5	2.0		
			PMZ			1.0	0.030

1986 6 16
O=15 43 05.2 ± 0.13s
LAT= 8.36 N ± 1.97km
LONG=126.64 E ± 2.74km
DEPTH= 73 km ± 0.76km
STATIONS USED = 19, STAND DEV= 2.51s

XAN	30.3	330	eP	15 49 19.5	7.1		
BJI	32.9	345	eP	15 49 33.5	-1.4		
SNY	33.4	356	-iP	15 49 39.8	0.2		
GTA	39.2	326	P	15 50 27.3	-0.7		
WMQ	48.9	323	eP	15 51 45.0	-1.7		

1986 6 16
O=16 23 49.2 ± 0.18s
LAT= 7.25 N ± 3.00km
LONG=123.46 E ± 5.33km
DEPTH= 65 km ± 0.40km
STATIONS USED = 43, STAND DEV= 2.82s
Ms=4.5/ 11,

QZH	18.2	346	eP	16 28 00.0	0.9		
			eS	16 31 22.0	5.2		
			LN	Ms=4.3		16.0	0.77
GZH	18.5	329	+P	16 28 05.2	2.5		
			eS	16 31 30.0	6.1		
			LN	Ms=4.5		15.0	0.72
			LE			15.0	0.93
SSE	23.8	355	e(P)	16 29 00.0	2.7		
			eS	16 33 06.0	0.5		
			LE	Ms=4.2		14.0	0.39
WHN	24.7	341	eP	16 29 05.0	-0.8		
			eS	16 33 28.0	7.6		
			LE	Ms=4.4		12.0	0.50
GYA	24.9	322	P	16 29 12.4	4.4		
			LN	Ms=5.1		14.0	1.80
			LE			14.0	1.60
NJ2	25.0	351	eP	16 29 12.0	2.8		
			LE	Ms=4.4		12.0	0.50
KMI	26.6	314	eP	16 29 27.0	3.0		
			eS	16 34 02.0	9.5		
XAN	29.9	335	eP	16 29 49.0	-4.0		
			eS	16 34 46.0	1.7		
			LN	Ms=4.7		16.0	0.95
CD2	29.9	324	eP	16 29 51.4	-2.1		
			eS	16 34 48.0	2.9		
TIY	31.9	343	eP	16 30 08.0	-3.4		
			(S)	16 35 11.0	-6.1		
			LN	Ms=4.7		13.0	0.48
			LE			13.0	0.42
BJI	33.3	350	eP	16 30 21.0	-2.1		
LZH	33.9	331	eP	16 30 27.0	-1.1		
MDJ	37.6	7	eP	16 31 08.0	8.3		
GTA	38.4	330	eP	16 31 04.4	-2.4		
			eS	16 36 56.8	-0.4		
			LN	Ms=4.5		13.0	0.30
WMQ	48.0	325	eP	16 32 23.2	-1.0		
KSH	53.2	315	eP	16 33 03.0	-1.0		
			ePP	16 35 06.0	0.1		
			eS	16 40 32.0	2.9		

1986 6 16
O=17 15 09.0 ± 0.19s
LAT=47.31 S ± 5.41km
LONG= 13.26 W ± 5.03km
DEPTH= 10 km ± 0.55km
STATIONS USED = 44, STAND DEV= 3.09s
Ms=5.7/ 4,

KMI	125.4	90	ePKP	17 34 11.5	-0.4		
WMQ	126.8	63	PKP	17 34 15.5	1.1		
GYA	129.0	92	PKP	17 34 20.0	1.4		
CD2	129.8	85	ePKP	17 34 21.6	1.5		
GTA	132.1	74	(PKP)	17 34 23.4	-1.1		
			LN	Ms=5.7		33.0	1.65
XAN	135.2	86	ePKP	17 34 28.6	-1.6		
BTO	139.4	78	PKP	17 34 39.0	0.9		
			cPP	17 37 36.0	1.2		
			LN	Ms=5.7		18.0	0.70

			LE			18.0	0.60
TIY	139.6	83	ePKP	17 34 32.3	−6.0		
NJ2	140.8	95	ePKP	17 34 42.0	1.6		
			LE	Ms=5.5		15.0	0.40
BJI	143.3	82	ePKP	17 34 42.0	−2.6		
DL2	146.4	88	PKP	17 34 51.0	0.9		
SNY	149.1	84	+PKP	17 34 59.0	4.6		
CN2	151.1	82	(PKP)	17 34 58.6	1.0		
MDJ	154.2	82	ePKP	17 35 03.5	1.5		

1986 6 16
O=20 51 42.7 ± 0.07s
LAT= 2.37 S ± 0.98km
LONG=134.45 E ± 1.43km
DEPTH= 29 km ± 0.51km
STATIONS USED = 9, STAND DEV= 1.98s

BJI	45.4	340	(P)	21 00 00.5	−0.5		
WMQ	62.1	323	eP	21 02 03.5	−0.8		

1986 6 17
O=00 35 56.5 ± 0.18s
LAT=38.94 N ± 1.79km
LONG=112.67 E ± 1.83km
DEPTH= 0 km ± 0.15km
STATIONS USED = 21, STAND DEV= 3.98s
M_L=3.7/15,

TIY	1.2	189	−iPg	00 36 19.3	0.8		
			Sg	00 36 35.2	−0.1		
			SMN	M_L=3.7		0.4	1.28
			SME			0.8	1.47
HHC	2.1	336	−Pg	00 36 35.2	1.6		
			Sg	00 37 03.7	1.8		
			SMN	M_L=3.7		0.8	0.59
			SME			0.8	0.55
BTO	2.6	310	Pg	00 36 44.2	1.1		
			Sg	00 37 17.6	−1.3		
			SMN	M_L=3.4		0.4	0.21
			SME			0.4	0.14
BJI	2.9	67	ePn	00 36 41.0	−3.4		
			Pg	00 36 49.5	1.3		
			eSn	00 37 16.0	−6.3		
			Sg	00 37 27.0	−1.2		
			SMN	M_L=4.5		0.5	1.58
			SME			0.5	2.24
TIA	4.5	126	Pn	00 37 04.7	−0.9		
			Pg	00 37 15.7	0.4		
			Sg	00 38 10.4	−6.0		
			SMN	M_L=3.7		0.5	0.11
			SME			0.5	0.13
XAN	5.7	213	Pn	00 37 22.5	−0.8		
			Pg	00 37 39.6	1.6		
			Sn	00 38 26.0	−6.1		
			Sg	00 38 52.6	−3.9		
			SMN	M_L=3.8		0.8	0.090
			SME			1.0	0.050
GTA	10.0	277	+P	00 38 21.3	−3.4		
			LG_1	00 41 08.0	−2.5		
			LN			1.0	0.030

1986 6 17
O=00 42 34.5 ± 0.07s
LAT=53.98 N ± 1.66km
LONG=160.36 E ± 0.98km
DEPTH= 33 km ± 0.07km
STATIONS USED = 87, STAND DEV= 0.89s
Ms=5.0/18,

MDJ	22.0	257	P	00 47 27.5	−0.1		
			pP	00 47 38.5	2.0		
			S	00 51 22.5	−0.3		
CN2	24.9	260	+P	00 47 58.4	2.6		
			sP	00 48 12.0	3.2		
			PcP	00 51 31.0	−0.8		
			eS	00 52 14.0	−0.2		
SNY	27.2	259	+iP	00 48 17.0	−0.2		
			sP	00 48 34.0	3.7		
			eS	00 52 48.0	−4.0		
			LN	Ms=5.0		19.0	2.10
			LE			19.0	1.48
DL2	30.2	256	eP	00 48 42.5	−1.9		
BJI	32.6	263	eP	00 49 05.0	−0.7		
			pP	00 49 11.0	−3.9		
			ePP	00 50 17.0	2.4		
			PcP	00 51 51.0	0.0		
			eS	00 54 15.0	−3.5		
			PcS	00 55 31.0	−3.9		
			LN	Ms=4.9		16.0	1.38
TIA	34.6	257	eP	00 49 22.6	−0.7		
			epP	00 49 35.0	2.5		
			eS	00 54 41.5	−8.6		
			LE	Ms=5.0		16.0	1.38
HHC	34.8	268	P	00 49 24.6	−0.3		
			(S)	00 54 48.0	−5.0		
			LN	Ms=5.5		15.0	0.75
			LE			16.0	3.95
BTO	35.9	269	−iP	00 49 34.0	0.0		
			esP	00 49 51.0	3.9		
			ePP	00 50 56.0	0.8		
			eS	00 55 09.0	−0.5		
			LN	Ms=5.1		14.0	0.80
			LE			14.0	1.30

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SSE	36.1	247	eP	00 49 36.0	0.0		
			eS	00 55 14.0	0.9		
			LE	Ms=4.5		14.0	0.39
TIY	36.3	263	eP	00 49 37.5	−0.3		
			PP	00 51 07.0	6.0		
			eS	00 55 18.5	2.1		
			LN	Ms=5.0		15.0	0.99
			LE			14.0	0.56
NJ2	36.7	250	+P	00 49 40.0	−0.6		
			PcP	00 52 02.8	0.1		
			eS	00 55 20.0	−1.6		
			LE	Ms=4.8		13.0	0.60
WHN	40.4	253	+P	00 50 10.6	−0.6		
			pP	00 50 23.5	3.0		
			sP	00 50 28.5	3.9		
			iPcP	00 52 14.5	0.3		
			eS	00 56 12.0	−5.1		
			LN	Ms=4.8		14.0	0.65
XAN	40.9	262	+iP	00 50 15.2	−0.9		
			PcP	00 52 16.3	0.3		
			LE	Ms=5.2		14.0	1.35
QZH	42.4	244	+P	00 50 28.8	0.8		
GTA	42.7	276	+iP	00 50 30.8	0.4		
			sP	00 50 49.0	5.4		
			PcP	00 52 22.0	0.3		
			ScP	00 56 09.0	0.4		
			eS	00 56 47.5	−4.0		
			PcS	00 56 14.1	1.5		
			ScS	01 00 25.5	−0.3		
			LE	Ms=5.0		13.0	0.86
CD2	46.2	264	+iP	00 50 58.4	−0.4		
			PMZ			0.9	0.090
			LN	Ms=5.3		16.0	1.59
GZH	46.7	248	+P	00 51 03.9	1.2		
WMQ	46.8	289	+iP	00 51 04.0	0.4		
			PMZ			1.5	0.36
			pP	00 51 16.0	3.1		
			PcP	00 52 36.0	0.0		
			ScP	00 56 29.0	3.4		
			PcS	00 56 30.7	1.1		
			S	00 57 53.5	3.4		
			eScS	01 00 53.0	0.9		
			SS	01 01 14.3	4.5		
GYA	47.8	257	+P	00 51 11.0	−0.7		
			pP	00 51 24.0	3.1		
			PcP	00 52 39.0	−0.7		
			S	00 58 07.0	2.4		
KMI	51.1	259	+P	00 51 36.5	−0.5		
			pP	00 51 50.0	3.8		
			PP	00 53 34.0	0.4		
			eS	00 58 50.0	−1.9		
			sS	00 59 07.0	−0.2		
			LN	Ms=5.3		20.0	1.90
LSA	54.5	273	−iP	00 52 01.2	−1.4		
KSH	56.3	292	eP	00 52 13.9	−0.8		
			sP	00 52 33.0	5.0		
			eS	01 00 03.0	1.9		

1986 6 17
O=02 08 10.4 ± 0.21s
LAT=45.51 N ± 4.16km
LONG=151.28 E ± 2.97km
DEPTH= 27 km ± 0.45km
STATIONS USED = 26, STAND DEV= 2.13s

MDJ	15.4	274	eP	02 11 47.5	0.4		
CN2	18.4	274	eP	02 12 25.8	−0.2		
SNY	20.3	269	eP	02 12 47.4	−0.1		
BJI	26.2	271	eP	02 13 47.0	1.9		
CD2	39.5	265	eP	02 15 41.8	0.8		
GYA	40.2	257	P	02 15 47.6	0.8		
KMI	43.8	259	eP	02 16 16.5	0.4		
WMQ	44.2	292	P	02 16 20.5	1.0		

1986 6 17
O=10 38 17.1 ± 0.11s
LAT= 5.79 N ± 1.93km
LONG=126.85 E ± 2.49km
DEPTH= 32 km ± 0.05km
STATIONS USED =102, STAND DEV= 1.62s
Ms=5.5/39, m_B=6.2/39

QZH	20.6	338	eP	10 42 56.0	−0.5		
			pP	10 43 05.0	0.0		
			sP	10 43 10.0	0.7		
			PP	10 43 18.5	0.5		
			S	10 46 41.0	1.1		
			SME	m_B=6.4		6.0	8.49
			SS	10 47 09.0	−2.0		
			LN	Ms=5.0		12.0	2.80
GZH	21.6	324	+iP	10 43 07.0	0.9		
			sP	10 43 27.0	8.0		
			iS	10 47 02.0	3.5		
			SMN	m_B=6.7		7.0	11.4
			SME			5.0	11.5
SSE	25.7	349	eP	10 43 46.0	−0.6		
			PMZ			1.5	1.45
			pP	10 43 56.0	0.5		
			sP	10 44 02.0	2.4		
			PcP	10 47 08.0	−8.4		
			iS	10 48 10.0	−1.2		
			SMN	m_B=6.1		8.0	2.33

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			SME			8.0	3.73
			sS	10 48 26.0	0.0		
			LN	Ms = 5.2		10.0	1.11
			LE			10.0	1.97
NJ2	27.2	345	+P	10 43 59.0	−1.0		
			PMZ	m_B = 6.2		6.0	2.90
			S	10 48 30.0	−4.2		
			sS	10 48 54.0	4.1		
			LN	Ms = 5.5		11.0	4.60
WHN	27.3	336	+iP	10 44 02.0	1.0		
			PMZ	m_B = 6.2		6.0	3.46
			iS	10 48 36.0	−0.7		
			SMN	m_B = 6.2		9.0	5.17
			sS	10 48 56.0	4.3		
			LN	Ms = 5.5		16.0	6.39
GYA	28.2	319	+P	10 44 09.0	−0.1		
			pP	10 44 19.0	1.1		
			PcP	10 47 22.0	−0.1		
			S	10 48 49.0	−1.1		
			ScP	10 50 57.0	−2.3		
			PcS	10 51 05.0	1.9		
			ScS	10 54 47.6	−2.9		
			LN	Ms = 5.6		12.0	4.40
			LE			12.0	3.30
KMI	30.1	312	+P	10 44 27.0	1.0		
			pP	10 44 37.0	2.1		
			PP	10 45 30.0	6.2		
			iS	10 49 19.0	−2.4		
			SME	m_B = 6.1		7.0	2.80
			SS	10 50 57.0	−1.3		
			LE	Ms = 5.4		12.0	3.30
TIA	31.6	345	P	10 44 37.3	−1.9		
			PMZ	m_B = 6.2		5.0	2.16
			S	10 49 40.0	−3.9		
			SMN	m_B = 6.2		10.0	2.70
			SME			9.5	4.47
			sS	10 50 03.0	3.1		
			cScP	10 51 08.6	−1.6		
			ScS	10 55 05.2	−1.5		
			LN	Ms = 5.3		11.0	0.78
			LE			13.0	2.70
XAN	32.7	332	+P	10 44 47.6	−1.2		
			PMZ	m_B = 6.5		4.0	3.36
			pP	10 44 58.0	0.2		
			PP	10 45 58.0	0.3		
			S	10 49 56.0	−4.9		
			SME	m_B = 6.3		5.0	2.94
			ScP	10 51 12.0	−1.9		
			LN	Ms = 5.6		10.0	3.23
			LE			12.0	2.83
CD2	33.1	322	eP	10 44 52.4	−0.1		
			PMZ			3.0	1.83
			S	10 50 02.0	−5.6		
			SMN	m_B = 6.4		5.0	3.96
			LN	Ms = 6.1		11.0	13.2
DL2	33.3	353	eP	10 44 53.5	−0.8		
			eS	10 50 08.0	−3.9		
			LE	Ms = 5.7		17.0	7.60
TIY	34.4	340	eP	10 45 02.6	−1.1		
			PMZ			1.0	0.030
			PP	10 46 21.0	2.0		
			S	10 50 27.0	−0.8		
			SMN	m_B = 6.2		8.0	2.82
			SME			5.0	1.61
			LN	Ms = 5.3		13.0	2.38
BJI	35.4	346	P	10 45 11.5	−1.1		
			PMZ	m_B = 6.2		6.0	2.77
			S	10 50 38.5	−5.4		
			SMN	m_B = 6.1		5.5	1.83
			SME			3.0	0.76
			ScS	10 55 25.0	−1.7		
			LN	Ms = 5.4		14.0	1.26
			LE			16.1	3.31
SNY	36.0	356	+iP	10 45 15.0	−2.5		
			PMZ			13.0	1.25
			PP	10 46 40.0	0.7		
			S	10 50 50.0	−2.8		
			SMN			22.0	4.50
			SME			10.0	3.18
			sS	10 51 10.0	1.1		
			ScS	10 55 29.0	−0.9		
			LN	Ms = 5.8		30.0	5.16
			LE			20.0	12.3
LZH	36.8	328	+iP	10 45 25.5	1.0		
			PMZ			2.0	2.59
			S	10 51 04.5	−0.7		
			SME			2.0	1.33
			SS	10 53 36.0	1.9		
			ScS	10 55 36.0	1.6		
			LN	Ms = 6.0		8.0	5.20
			LE			8.0	3.30
HHC	37.5	341	+P	10 45 30.5	0.3		
			PMZ	m_B = 6.5		4.0	3.01
			pP	10 45 41.0	1.8		
			sP	10 45 47.0	3.8		
			cPP	10 46 58.0	−0.3		
			PcP	10 47 46.0	−1.9		
			S	10 51 15.0	−0.7		
			SMN	m_B = 6.4		7.0	3.57
			SME			5.0	2.70

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			LN		Ms=5.3	11.0	1.50
			LE			11.0	1.15
BTO	37.8	339	-iP	10 45 32.0	-0.8		
			PMZ		m_B=6.4	5.0	3.10
			pP	10 45 43.0	1.2		
			sP	10 45 49.0	3.3		
			cPP	10 47 02.0	0.2		
			iS	10 51 20.0	-1.5		
			SMN		m_B=6.1	9.0	2.50
			SME			9.0	1.90
			csS	10 51 40.0	3.5		
			eSS	10 53 57.0	0.2		
			LN		Ms=5.4	12.0	1.70
			LE			15.0	2.20
CN2	37.9	358	eP	10 45 34.2	0.9		
			eS	10 51 24.0	1.6		
			LE		Ms=5.7	14.0	4.90
MDJ	38.7	3	eP	10 45 39.5	-1.0		
LSA	41.2	310	P	10 46 08.0	6.7		
			S	10 52 15.0	3.6		
			SMN		m_B=6.7	5.0	3.32
			SME			4.0	4.37
GTA	41.4	328	+iP	10 46 03.1	0.3		
			PMZ		m_B=6.4	4.5	2.52
			PP	10 47 39.2	-2.3		
			ScP	10 51 41.9	-4.5		
			iS	10 52 11.0	-4.8		
			SME		m_B=6.0	8.0	2.23
			ScS	10 55 58.4	-2.6		
			LE		Ms=5.6	10.0	2.63
WMQ	51.1	324	+iP	10 47 19.0	-0.5		
			PMZ		m_B=6.5	4.0	2.40
			pP	10 47 33.0	4.3		
			PcP	10 48 34.0	-0.3		
			ScP	10 52 28.0	1.4		
			S	10 54 30.0	-3.0		
			SME		m_B=6.2	5.0	1.73
			PS	10 54 48.0			
			ScS	10 57 00.5	-3.0		
			LN		Ms=6.1	28.0	15.8
KSH	56.7	314	+iP	10 48 00.9	0.6		
			PcP	10 48 54.9	-0.4		
			iS	10 55 47.9	-1.3		
			SMN		m_B=5.2	6.0	0.20
			sS	10 56 09.0	4.6		
			ScS	10 57 42.0	-0.5		
			LN		Ms=5.8	14.0	3.40

1986 6 17

O=12 19 18.2 ± 0.08s
LAT=20.36 S ± 1.86km
LONG= 68.01 E ± 1.63km
DEPTH= 0 km ± 0.02km
STATIONS USED = 53, STAND DEV= 1.06s
Ms=5.2 / 3,

KMI	56.4	38	-P	12 29 05.0	0.3		
			iS	12 37 01.0	5.5		
			LN		Ms=5.2	18.0	1.00
GYA	59.8	40	P	12 29 27.6	-0.4		
			S	12 37 31.0	-6.6		
KSH	60.0	7	-P	12 29 29.9	0.5		
			PPP	12 33 09.0			
			eS	12 37 41.0	-0.7		
			LE		Ms=5.5	10.0	1.00
CD2	61.5	35	eP	12 29 38.6	-0.9		
GZH	61.8	48	eP	12 29 43.6	1.9		
WMQ	66.4	15	-P	12 30 11.4	-0.3		
			PMZ			2.0	0.22
			sP	12 30 21.5	3.6		
			(S)	12 39 04.0	2.2		
GTA	66.5	26	+iP	12 30 12.5	0.0		
XAN	66.7	36	P	12 30 12.0	-1.6		
TIY	71.3	36	P	12 30 42.0	-0.3		
			LN		Ms=5.0	14.0	0.37
NJ2	71.3	44	-P	12 30 43.2	0.9		
BTO	72.1	32	P	12 30 47.0	-0.4		
			eS	12 40 08.0	-2.1		
TIA	72.9	40	eP	12 30 51.6	-0.4		
HHC	73.1	33	P	12 30 53.4	0.3		
BJI	75.0	36	eP	12 31 02.5	-1.4		
CN2	82.7	38	-P	12 31 45.2	-0.7		

1986 6 17

O=16 26 11.6 ± 0.10s
LAT= 2.97 N ± 1.01km
LONG=126.54 E ± 2.41km
DEPTH= 91 km ± 0.29km
STATIONS USED = 7, STAND DEV= 2.04s

BJI	38.1	347	(P)	16 33 22.0	-1.4		
SNY	38.8	356	eP	16 33 30.8	1.6		

1986 6 17

O=17 54 20.0 ± 0.10s
LAT=38.45 N ± 1.71km
LONG= 25.02 E ± 1.36km
DEPTH= 9 km ± 0.21km
STATIONS USED = 20, STAND DEV= 1.74s

WMQ	46.5	62	+P	18 03 02.5	13.0		
			PMZ			2.0	0.050
GTA	56.6	64	eP	18 03 47.0	-18.2		

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LZH	60.9	65	eP	18 04 37.0	0.7	
CD2	63.4	71	(P)	18 04 51.7	−1.0	
XAN	65.5	65	eP	18 05 02.2	−4.5	
GYA	67.9	73	eP	18 05 22.8	1.1	

1986 6 17
O = 18 13 10.8 ± 0.11s
LAT = 5.72 N ± 2.18km
LONG = 125.49 E ± 2.89km
DEPTH = 29 km ± 0.24km
STATIONS USED = 100, STAND DEV = 1.31s
Ms = 6.4 / 43, m_B = 6.6 / 36

QZH	20.2	342	eP	18 17 46.5	0.0		
			PMZ	m_B = 6.4		7.0	14.2
			pP	18 17 55.0	0.6		
			PP	18 18 09.0	2.7		
			iS	18 21 32.0	4.7		
			SMN	m_B = 6.6		8.0	12.5
			SME			8.0	13.7
			sS	18 21 46.0	7.3		
GZH	20.9	327	+iP	18 17 55.0	1.8		
			SMN	m_B = 6.9		10.0	32.5
			SME			10.0	26.5
			LN	Ms = 6.2		19.0	11.7
			LE			17.0	54.7
SSE	25.6	351	eP	18 18 38.5	−0.7		
			PMZ			1.5	0.29
			S	18 23 06.0	3.8		
			SMN	m_B = 6.9		12.0	13.2
			SME			12.0	37.7
			sS	18 23 20.0	3.3		
			PcS	18 25 46.0	−3.5		
			LN	Ms = 6.1		14.0	17.2
			LE			14.0	19.5
WHN	26.8	338	+P	18 18 51.5	0.6		
			PMZ	m_B = 6.7		7.0	12.5
			PP	18 19 39.0	3.2		
			PcP	18 22 12.0	−1.1		
			S	18 23 24.0	1.1		
			SMN	m_B = 6.5		8.0	10.8
			sS	18 23 42.0	4.4		
			iSS	18 24 40.0	3.9		
			ScP	18 25 48.0	−1.7		
NJ2	26.9	347	+P	18 18 51.0	−0.8		
			PMZ	m_B = 6.4		9.0	7.80
			LE	Ms = 6.0		12.0	14.3
GYA	27.3	321	+P	18 18 57.0	1.1		
			PMZ	m_B = 6.9		6.0	15.2
			sP	18 19 10.0	2.1		
			S	18 23 36.0	4.6		
			ScP	18 25 50.0	−1.3		
			PcS	18 25 54.0	−0.7		
			ScS	18 29 38.0	−3.4		
			LN	Ms = 6.6		18.0	59.9
			LE			18.0	68.7
KMI	29.1	314	+iP	18 19 13.0	1.2		
			PMZ	m_B = 6.7		7.0	9.50
			pP	18 19 24.0	4.0		
			PP	18 20 11.0	5.4		
			S	18 24 06.0	6.4		
			sS	18 24 24.0	9.4		
			LN	Ms = 6.4		16.0	44.3
TIA	31.3	347	eP	18 19 29.7	−1.4		
			PMZ	m_B = 6.4		6.0	3.71
			PcP	18 22 24.1	−0.3		
			S	18 24 32.0	−2.2		
			SME	m_B = 6.1		9.5	3.98
			ScP	18 26 01.4	−2.5		
			ScS	18 30 00.0	0.1		
			LN	Ms = 6.5		22.0	46.9
			LE			21.0	54.5
XAN	32.1	334	eP	18 19 36.2	−1.9		
			PMZ	m_B = 6.9		4.0	8.39
			sP	18 19 50.0	−0.2		
			PP	18 20 43.5	−0.9		
			S	18 24 44.0	−2.6		
			SMN	m_B = 6.4		10.0	5.60
			SME			10.0	5.50
			LN	Ms = 6.6		18.0	69.6
			LE			14.0	6.40
CD2	32.3	323	+iP	18 19 40.5	0.5		
			PMZ	m_B = 7.1		5.0	14.9
			esP	18 19 55.0	2.8		
			PP	18 20 47.0	−0.3		
			S	18 24 48.5	−1.6		
			LN	Ms = 6.7		13.0	67.8
DL2	33.2	355	+P	18 19 47.0	−0.8		
			PMZ	m_B = 6.4		7.0	3.94
			PP	18 21 00.0	1.1		
			PcP	18 22 28.0	−1.6		
			S	18 25 00.0	−4.2		
			PcS	18 26 14.0	0.1		
			LN	Ms = 6.4		16.0	25.3
			LE			15.0	27.6
TIY	34.0	341	iP	18 19 53.9	−0.7		
			PMZ			1.2	0.17
			PP	18 21 11.5	3.4		
			PPMZ			5.5	6.84
			S	18 25 19.5	3.3		
			SME			16.0	3.82

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			sS	18 25 32.5	1.3		
			PcS	18 26 16.5	−0.2		
			LN	Ms = 6.7		20.0	94.1
			LE			12.0	14.6
BJI	35.2	348	+P	18 20 03.5	−1.2		
			PP	18 21 23.0	−0.6		
			PcP	18 22 36.0	0.8		
			eScP	18 26 16.0	−1.4		
			S	18 25 33.0	−1.6		
			SME	m_B = 7.0		11.0	30.4
			esS	18 25 50.0	0.4		
			ScS	18 30 21.0	1.0		
			LN	Ms = 6.3		18.0	28.4
			LE			20.0	10.8
SNY	36.0	358	+iP	18 20 11.2	−0.4		
			PMZ	m_B = 6.6		5.5	6.35
			PP	18 21 30.0	−3.2		
			eS	18 25 39.0	−9.0		
			SMN			30.0	6.05
			SME			28.0	13.5
			sS	18 26 09.0	6.8		
			ScS	18 30 23.6	−0.8		
			LE	Ms = 6.3		30.0	52.8
LZH	36.2	330	+iP	18 20 14.0	0.7		
			PMZ			2.5	3.67
			PP	18 21 38.0	2.6		
			S	18 25 52.0	2.2		
			SMN	m_B = 6.8		12.0	23.1
			LN	Ms = 6.6		8.0	25.2
			LE			9.0	13.4
HHC	37.1	342	+iP	18 20 21.0	−0.3		
			PMZ	m_B = 6.7		6.0	8.49
			S	18 26 06.0	1.4		
			SMN	m_B = 6.5		11.0	8.96
			SME			11.0	2.88
			LN	Ms = 6.7		20.0	79.8
BTO	37.4	340	P	18 20 23.0	−0.5		
			PMZ	m_B = 6.4		7.0	5.00
			pP	18 20 32.0	0.0		
			PP	18 21 49.5	−1.7		
			PPMZ			7.0	15.7
			S	18 26 09.0	0.4		
			sS	18 26 24.0	0.2		
			SS	18 28 40.0	−1.5		
			LN	Ms = 6.8		22.0	102
			LE			22.0	62.0
CN2	37.9	360	+P	18 20 26.4	−1.5		
			PMZ	m_B = 6.3		8.0	4.30
			sP	18 20 40.0	−0.2		
			PP	18 21 59.0	1.6		
			PcP	18 22 42.0	−1.4		
			cS	18 26 19.0	1.4		
			SS	18 29 01.0	7.2		
			LE	Ms = 6.4		18.0	33.5
MDJ	38.9	5	+P	18 20 36.5	0.5		
			PcP	18 22 47.3	0.8		
			S	18 26 30.5	−1.1		
LSA	40.2	311	iP	18 20 48.0	0.7		
			S	18 26 51.0	−0.1		
			SME	m_B = 6.4		10.0	7.05
			LN	Ms = 6.3		10.0	13.7
			LE			15.0	6.73
GTA	40.8	329	+iP	18 20 51.6	0.0		
			PMZ	m_B = 6.7		7.0	8.46
			PP	18 22 28.0	−0.7		
			PPMZ			6.0	9.14
			S	18 26 59.0	−0.4		
			LE	Ms = 6.7		20.0	64.9
WMQ	50.4	325	+iP	18 22 08.0	−0.2		
			PMZ	m_B = 6.9		5.0	9.13
			PP	18 24 08.0	4.1		
			PcS	18 27 20.5	−1.0		
			S	18 29 16.0	−1.4		
			SMN	m_B = 6.5		8.0	4.99
			LN	Ms = 6.9		18.0	68.7
			LE			20.0	12.3
KSH	55.7	315	+iP	18 22 47.8	−0.1		
			pP	18 22 58.0	1.4		
			PP	18 24 55.7	2.8		
			ScP	18 27 38.7	−2.5		
			iS	18 30 34.8	3.3		
			sS	18 30 50.8	5.1		
			LE	Ms = 6.8		18.0	47.2

1986 6 17
O = 19 50 38.9 ± 0.08s
LAT = 20.99 S ± 2.51km
LONG = 173.94 W ± 1.55km
DEPTH = 32 km ± 0.43km
STATIONS USED = 12, STAND DEV = 1.88s

CN2	85.0	321	cP	20 03 12.0	−1.4
SNY	85.1	318	cP	20 03 28.0	15.5
BJI	88.9	314	cP	20 03 32.5	0.2
XAN	91.5	306	−P	20 03 45.0	0.7
KMI	93.0	296	cP	20 03 52.0	0.7

1986 6 17
O = 20 12 17.3 ± 0.07s
LAT = 29.49 S ± 3.02km
LONG = 176.65 W ± 3.61km

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DEPTH = 40 km ± 0.91km
STATIONS USED = 32, STAND DEV = 1.84s
m_B = 5.6 / 1

GZH	85.2	300	eP	20 24 51.0	−0.7		
NJ2	86.6	310	eP	20 25 00.0	1.7		
MDJ	88.6	325	eP	20 25 07.0	−1.0		
WHN	88.7	306	eP	20 25 09.0	0.1		
DL2	89.1	317	eP	20 25 03.4	−7.1		
SNY	89.9	320	eP	20 25 14.0	−0.1		
CN2	90.1	322	+P	20 25 15.2	−0.3		
TIA	90.2	312	eP	20 25 15.1	−0.8		
GYA	92.1	299	P	20 25 27.0	2.2		
BJI	93.1	315	P	20 25 29.5	0.3		
			eSKS	20 36 00.0	3.0		
			eS	20 36 37.0	6.7		
			SMN	m_B = 5.6	11.0	0.61	
KMI	94.5	296	eP	20 25 36.5	0.9		
			eS	20 36 42.0	−0.4		
XAN	94.5	307	eP	20 25 34.0	−1.6		

1986 6 17
O = 20 13 17.9 ± 0.59s
LAT = 9.14 S ± 7.40km
LONG = 107.39 E ± 3.22km
DEPTH = 38 km ± 0.76km
STATIONS USED = 22, STAND DEV = 2.27s

GYA	35.4	359	P	20 20 12.0	−0.7		
WHN	40.0	9	eP	20 20 50.0	−1.3		
NJ2	42.4	14	−P	20 21 10.4	−0.5		
XAN	43.0	2	+P	20 21 13.8	−1.8		
LZH	45.1	356	eP	20 21 37.0	4.0		
TIY	46.8	5	eP	20 21 45.7	−0.9		
GTA	48.8	352	eP	20 22 02.0	−0.1		
BTO	49.5	3	eP	20 22 07.1	−0.6		
BJI	49.6	9	eP	20 22 05.5	−2.5		
WMQ	55.7	343	P	20 22 52.5	−0.8		

1986 6 17
O = 20 22 38.4 ± 0.09s
LAT = 6.57 S ± 1.14km
LONG = 131.18 E ± 1.58km
DEPTH = 57 km ± 0.25km
STATIONS USED = 70, STAND DEV = 0.98s
Ms = 5.0 / 2,

GZH	34.2	330	eP	20 29 19.6	−1.6		
SSE	38.6	346	P	20 29 58.5	0.1		
			PMZ			0.8	0.020
			sP	20 30 21.5	3.2		
NJ2	40.2	344	+P	20 30 11.5	0.6		
WHN	40.3	337	+P	20 30 13.0	1.1		
GYA	40.5	325	+P	20 30 14.6	0.4		
			pP	20 30 29.6	1.8		
			PcP	20 32 15.6	0.3		
			S	20 36 18.6	0.9		
TIA	44.5	344	eP	20 30 46.3	−0.5		
XAN	45.5	334	+P	20 30 53.8	−1.1		
CD2	45.6	326	eP	20 30 55.0	−0.1		
			ScP	20 36 22.0	3.5		
DL2	46.1	350	eP	20 30 59.0	−0.2		
TIY	47.4	340	iP	20 31 09.4	0.0		
			PMZ			0.8	0.040
			sP	20 31 34.5	5.3		
			(S)	20 37 55.0	−3.2		
			sS	20 38 17.5	−4.6		
BJI	48.4	345	+P	20 31 17.0	−0.2		
SNY	48.7	352	+iP	20 31 18.8	−0.4		
LZH	49.6	331	+iP	20 31 27.0	0.5		
			PMZ			2.0	0.18
			eS	20 38 23.0	−6.2		
CN2	50.4	355	eP	20 31 31.0	−1.6		
HHC	50.5	341	+P	20 31 33.8	0.3		
BTO	50.8	339	P	20 31 35.5	−0.3		
			csP	20 31 59.0	3.4		
			eS	20 38 46.0	0.0		
MDJ	51.0	359	eP	20 31 37.0	0.1		
LSA	52.7	315	iP	20 31 49.5	−0.9		
GTA	54.2	330	+iP	20 32 00.9	0.0		
WMQ	63.7	326	+iP	20 33 07.0	0.2		
			PMZ			1.7	0.23
			pP	20 33 21.4	0.3		
			sP	20 33 30.7	3.6		
			S	20 41 35.5	1.8		
			LN	Ms = 5.3		22.0	1.30
KSH	68.5	317	+P	20 33 38.8	1.4		
			sP	20 34 03.8	6.1		
			cPP	20 36 09.8	0.1		
			S	20 42 34.7	2.9		

1986 6 17
O = 21 41 40.8 ± 0.15s
LAT = 20.35 S ± 1.94km
LONG = 177.79 W ± 1.52km
DEPTH = 560 km ± 0.94km
STATIONS USED = 11, STAND DEV = 1.00s

XAN	88.2	307	−P	21 53 35.1	0.7		
KMI	89.5	297	eP	21 53 42.0	1.5		

1986 6 17
O = 21 44 56.2 ± 0.07s
LAT = 21.01 S ± 1.71km

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LONG = 174.24 W ± 1.42km
DEPTH = 32 km ± 0.09km
STATIONS USED = 25, STAND DEV = 0.87s

NJ2	82.9	308	−P	21 57 20.5	0.4	
CN2	84.9	321	eP	21 57 30.4	0.5	
TIA	86.2	311	eP	21 57 36.4	−0.2	
BJI	88.8	314	eP	21 57 49.0	0.3	
GYA	90.0	298	P	21 57 55.6	1.0	
TIY	90.3	311	eP	21 57 57.0	1.1	
XAN	91.3	306	P	21 58 00.5	−0.1	
KMI	92.7	296	−P	21 58 09.0	1.5	

1986 6 18
O = 04 06 03.2 ± 0.06s
LAT = 45.28 N ± 2.18km
LONG = 28.04 W ± 0.84km
DEPTH = 9 km ± 0.23km
STATIONS USED = 32, STAND DEV = 0.82s

KSH	71.6	52	eP	04 17 29.0	1.2	
WMQ	74.5	43	−P	04 17 45.3	0.3	
GTA	83.6	38	−iP	04 18 34.0	−0.2	
BTO	86.6	31	+P	04 18 50.0	0.7	
HHC	86.9	29	P	04 18 51.8	0.9	
LZH	88.1	37	P	04 18 57.5	1.0	
			PMZ		2.0	0.060
XAN	91.9	35	eP	04 19 13.6	−0.9	

1986 6 18
O = 04 10 31.9 ± 0.12s
LAT = 16.30 S ± 2.56km
LONG = 168.05 E ± 3.39km
DEPTH = 205 km ± 1.94km
STATIONS USED = 43, STAND DEV = 0.82s

NJ2	67.3	316	eP	04 21 05.5	−1.8
DL2	70.0	323	eP	04 21 34.0	11.1
MDJ	70.0	332	eP	04 21 24.0	0.2
SNY	70.9	326	eP	04 21 28.4	−0.9
CN2	71.4	329	−P	04 21 31.0	−1.0
			pP	04 22 15.8	−4.0
GYA	73.2	305	P	04 21 42.8	−0.3
			pP	04 22 28.6	−2.4
			S	04 30 47.0	−4.9
BJI	74.0	321	eP	04 21 47.0	−0.2
			epP	04 22 31.0	−4.3
TIY	74.9	317	eP	04 21 52.8	0.0
XAN	75.3	313	P	04 21 54.5	−0.4
			pP	04 22 40.0	−3.1
KMI	75.8	302	−P	04 21 58.5	0.7
			pP	04 22 44.5	−1.3
HHC	77.3	320	+P	04 22 06.8	0.9
BTO	78.1	319	eP	04 22 10.0	−0.5	
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LZH	79.9	312	P	04 22 20.5	0.1	
			PMZ			2.5 0.090
GTA	84.3	314	−iP	04 22 43.4	0.5	
			pP	04 23 29.2	−2.7	
			S	04 32 48.0	−0.3	
WMQ	94.4	314	−P	04 23 30.5	0.2	
			pP	04 24 15.7	−4.2	

1986 6 18
O = 04 30 07.8 ± 0.30s
LAT = 42.94 N ± 1.99km
LONG = 80.18 E ± 2.86km
DEPTH = 3 km ± 0.22km
STATIONS USED = 13, STAND DEV = 3.59s
M_L = 4.3 / 7,

KSH	4.7	224	eP*	04 31 31.5	4.1	
			Sg	04 32 31.5	−3.7	
			SMN	M_L = 4.4	0.7	0.50
			SME		0.8	0.60
WMQ	5.5	78	ePn	04 31 34.6	2.9	
			Pg	04 31 52.0	6.2	
			LG_2	04 33 14.3	3.3	
			SMN	M_L = 4.0	0.8	0.14
GTA	15.2	97	P	04 33 49.2	3.7	
			S	04 36 28.3	−6.4	
			LG_1	04 38 07.4	2.1	
			LN		1.8	0.060
TIY	25.0	91	eP	04 35 32.8	−2.4	

1986 6 18
O = 05 26 40.5 ± 0.10s
LAT = 5.69 N ± 1.54km
LONG = 125.74 E ± 2.09km
DEPTH = 88 km ± 0.26km
STATIONS USED = 32, STAND DEV = 1.51s

GZH	21.0	327	eP	05 31 19.8	0.6
GYA	27.5	321	P	05 32 22.0	0.6
KMI	29.3	314	eP	05 32 37.0	−0.5
XAN	32.2	333	P	05 33 01.4	−1.6
CD2	32.5	323	eP	05 33 03.8	−1.4
BJI	35.3	347	eP	05 33 27.5	−1.5
SNY	36.0	357	eP	05 33 35.0	−0.5
LZH	36.3	329	eP	05 33 38.0	−0.2
MDJ	38.9	4	eP	05 34 01.0	1.4
LSA	40.4	310	iP	05 34 13.4	0.9
GTA	40.9	329	P	05 34 16.0	−0.3
			PcP	05 36 15.6	0.4
WMQ	50.6	325	P	05 35 33.0	0.2

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1986 6 18
O = 08 05 11.1 ± 0.09s
LAT = 51.77 N ± 2.44km
LONG = 176.90 W ± 1.33km
DEPTH = 25 km ± 0.15km
STATIONS USED = 105, STAND DEV = 1.00s
Ms = 6.5 / 45, m_B = 6.5 / 41

MDJ	35.7	280	eP	08 12 09.5	−0.3		
			pP	08 12 22.0	4.3		
			S	08 17 44.0	0.5		
			LN	Ms = 6.5		28.0	80.0
CN2	38.6	282	+iP	08 12 34.8	0.1		
			PMZ	m_B = 6.3		7.0	3.70
			PP	08 14 11.0	4.2		
			PPMZ			8.0	6.20
			eS	08 18 30.0	0.2		
			SMN	m_B = 6.1		10.0	3.70
			SS	08 21 16.0	5.5		
			LN	Ms = 6.7		19.0	63.6
			LE			19.0	26.4
SNY	40.9	280	+iP	08 12 54.0	0.7		
			PMZ			14.0	10.1
			iS	08 19 01.0	−2.4		
			SMN			24.0	17.0
			SME			28.0	18.7
			LN	Ms = 6.5		28.0	46.9
			LE			28.0	39.8
DL2	43.8	278	+iP	08 13 17.5	0.2		
			PMZ	m_B = 6.5		7.0	5.00
			pP	08 13 24.0	−1.3		
			sP	08 13 30.0	1.3		
			PP	08 15 00.0	−0.9		
			S	08 19 44.0	−1.5		
			sS	08 19 59.0	−0.6		
			LN	Ms = 6.3		16.0	8.23
			LE			18.0	19.6
BJI	46.4	283	+P	08 13 39.0	0.6		
			cPP	08 15 28.0	1.2		
			PcS	08 19 08.0	2.1		
			S	08 20 24.0	0.7		
			SMN	m_B = 6.6		10.0	7.11
			SME			9.0	3.21
			ScS	08 23 31.0	2.5		
			eSS	08 23 47.0	5.0		
			LN	Ms = 6.6		19.0	39.1
			LE			20.0	15.9
TIA	48.3	278	+P	08 13 53.3	0.5		
			PMZ	m_B = 6.6		7.0	5.93
			PP	08 15 45.7	1.7		
			PPMZ			7.0	5.93
			cScP	08 19 10.0	−0.6		
			S	08 20 49.0	−0.4		
			SMN	m_B = 6.3		10.0	2.18
			SME			10.0	3.24
			sS	08 21 10.0	6.3		
			LN	Ms = 6.5		18.0	4.52
			LE			18.0	28.1
HHC	48.7	287	+iP	08 13 57.5	1.2		
			PMZ	m_B = 6.6		7.0	6.05
			S	08 20 55.0	−0.4		
			SMN	m_B = 6.4		8.0	4.69
			LN	Ms = 6.5		15.0	17.4
			LE			15.0	14.9
SSE	49.2	270	+iP	08 14 00.0	0.3		
			PMZ	m_B = 6.9		6.0	9.47
			PP	08 15 52.0	−1.0		
			S	08 21 04.0	2.1		
			sS	08 21 20.0	3.8		
			LN	Ms = 6.2		16.0	4.89
			LE			18.0	12.2
BTO	49.8	287	+iP	08 14 05.4	0.8		
			PMZ	m_B = 6.7		7.0	7.00
			cPP	08 16 02.5	3.3		
			S	08 21 13.0	2.6		
			SMN	m_B = 6.5		12.0	6.30
			SME			12.0	3.60
			sS	08 21 33.0	8.2		
			SS	08 24 42.0	2.6		
			LN	Ms = 6.6		17.0	20.6
			LE			17.0	23.0
NJ2	50.0	273	+iP	08 14 05.5	−0.3		
			PMZ	m_B = 6.7		7.0	6.90
			sP	08 14 23.4	6.2		
			iS	08 21 14.5	0.5		
			SMN	m_B = 6.5		9.0	6.40
			LN	Ms = 6.4		17.0	21.3
TIY	50.2	283	+iP	08 14 08.5	1.0		
			RMZ			1.0	0.79
			sP	08 14 21.0	2.3		
			PP	08 16 08.5	5.7		
			PPMZ			7.0	5.41
			PcS	08 19 26.5	4.9		
			S	08 21 19.5	3.8		
			SMN	m_B = 6.4		11.0	5.41
			SME			11.5	2.95
			sS	08 21 37.0	6.9		
			SS	08 24 51.0	5.1		
			LN	Ms = 6.5		20.0	21.8
			LE			19.0	23.4
WHN	53.8	275	+P	08 14 34.2	−0.4		

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			PMZ		$m_B = 6.7$		7.0	7.19
			sP	08	14 48.0	1.9		
			PcP	08	15 40.0	0.5		
			S	08	22 06.0	0.5		
			SMN		$m_B = 6.6$		8.0	5.82
			sS	08	22 23.0	3.1		
			ScS	08	24 18.0	−0.1		
			SS	08	25 47.0	1.4		
			LN		Ms = 6.3		15.0	11.3
XAN	54.7	282	+iP	08	14 41.6	0.0		
			PMZ		$m_B = 6.7$		6.0	5.70
			PP	08	16 43.0	−1.8		
			S	08	22 17.0	−1.1		
			SMN		$m_B = 6.4$		8.0	3.29
			SME				9.0	1.44
			sS	08	22 36.0	3.5		
			LE		Ms = 6.6		20.0	31.8
QZH	55.2	267	+P	08	14 44.3	−0.2		
			PMZ		$m_B = 6.5$		7.0	4.62
			PP	08	16 47.5	−1.1		
			PPMZ				6.0	1.72
			iS	08	22 26.5	1.8		
			SMN		$m_B = 6.4$		8.0	4.04
			sS	08	22 45.0	7.0		
			ScS	08	24 30.0	2.3		
			LN		Ms = 6.1		20.0	9.78
LZH	56.4	287	+iP	08	14 54.0	0.3		
			PMZ				1.5	0.82
			sP	08	15 06.0	1.1		
			S	08	22 48.0	7.7		
			SMN		$m_B = 6.3$		10.0	4.47
			LN		Ms = 6.7		18.0	33.7
			LE				19.0	19.5
GTA	56.5	293	+iP	08	14 53.5	−1.0		
			PP	08	17 03.5	2.7		
			S	08	22 37.0	−4.7		
			SMN		$m_B = 6.1$		11.0	2.69
			LE		Ms = 6.6		22.0	36.2
GZH	59.8	270	+iP	08	15 17.0	−0.1		
			PMZ		$m_B = 6.7$		7.0	6.36
			sP	08	15 31.5	3.0		
			S	08	23 27.5	3.3		
			SMN		$m_B = 6.3$		8.0	2.62
			SME				8.0	2.24
			sS	08	23 42.0	3.3		
			PS	08	23 54.5			
			LN		Ms = 6.3		18.0	10.8
			LE				19.0	8.41
CD2	60.1	283	+iP	08	15 18.3	−0.8		
			PMZ		$m_B = 6.6$		7.0	5.49
			PP	08	17 33.0	0.4		
			S	08	23 27.3	−0.5		
			LE		Ms = 6.4		26.0	23.8
WMQ	60.1	304	P	08	15 18.5	−1.1		
			PMZ		$m_B = 6.3$		9.0	3.55
			sP	08	15 32.5	1.6		
			PcP	08	16 04.5	0.4		
			PP	08	17 34.0	0.7		
			S	08	23 29.0	0.3		
			ScS	08	25 06.5	2.7		
			SS	08	27 28.2	1.5		
			LN		Ms = 6.6		19.0	29.8
GYA	61.5	277	+P	08	15 28.5	−0.2		
			PMZ		$m_B = 6.7$		6.0	5.40
			pP	08	15 41.0	4.4		
			PcP	08	16 07.0	−2.4		
			PP	08	17 45.0	−0.3		
			PcS	08	20 10.0	−0.9		
			S	08	23 44.0	−1.8		
			SMN		$m_B = 6.6$		8.0	6.00
			LN		Ms = 6.5		19.0	9.70
			LE				19.0	16.6
KMI	64.8	279	+iP	08	15 51.0	−0.2		
			PMZ		$m_B = 6.8$		6.0	6.70
			sP	08	16 05.0	2.6		
			PP	08	18 15.0	0.2		
			PcS	08	20 27.0	1.1		
			iS	08	24 28.0	−1.8		
			SMN		$m_B = 6.5$		8.0	4.40
			PS	08	24 53.0			
			SS	08	28 43.0	1.6		
			LN		Ms = 6.2		16.0	7.20
LSA	68.4	291	+iP	08	16 14.8	0.7		
			S	08	25 16.5	5.2		
			LN		Ms = 6.3		17.0	7.71
			LE				16.0	5.56
KSH	69.3	308	+iP	08	16 19.9	0.9		
			S	08	25 24.9	3.7		
			ScS	08	26 15.9	2.4		
			SS	08	29 54.9	5.1		
			LN		Ms = 6.9		18.0	40.0

1986 6 18

O = 10 32 34.7 ± 0.08s
LAT = 51.24 N ± 3.62km
LONG = 176.13 W ± 1.18km
DEPTH = 30 km ± 1.16km
STATIONS USED = 27, STAND DEV = 1.38s

SNY	41.5	281	+P	10 40 22.0	1.2
BJI	47.0	284	cP	10 41 07.0	1.2

HHC	49.3	288	eP	10 41 25.0	1.2		
BTO	50.4	288	P	10 41 33.0	0.9		
XAN	55.3	283	eP	10 42 06.6	−2.0		
LZH	57.0	288	P	10 42 20.5	−0.4		
			PMZ			1.3	0.020
GYA	62.0	278	P	10 42 56.6	1.4		

1986 6 18
O = 14 46 20.4 ± 0.05s
LAT = 51.31 N ± 2.18km
LONG = 176.21 W ± 0.87km
DEPTH = 30 km ± 0.38km
STATIONS USED = 39, STAND DEV = 0.94s

SNY	41.4	281	−P	14 54 06.8	0.8		
BJI	47.0	284	eP	14 54 51.0	0.0		
HHC	49.3	288	eP	14 55 09.8	0.8		
BTO	50.3	288	eP	14 55 17.4	0.1		
TIY	50.7	284	eP	14 55 20.3	0.3		
XAN	55.3	283	eP	14 55 53.0	−0.8		
LZH	57.0	288	P	14 56 06.0	−0.2		
			PMZ			1.5	0.040
GTA	57.1	293	−P	14 56 06.7	−0.4		
CD2	60.6	284	(P)	14 56 31.8	0.6		
GYA	61.9	278	P	14 56 42.2	1.7		

1986 6 18
O = 18 28 39.3 ± 0.10s
LAT = 51.75 N ± 4.18km
LONG = 176.22 W ± 1.59km
DEPTH = 27 km ± 0.62km
STATIONS USED = 26, STAND DEV = 1.43s

SNY	41.3	281	+P	18 36 25.6	1.0		
BJI	46.9	283	eP	18 37 10.0	0.6		
HHC	49.1	287	eP	18 37 28.4	1.2		
BTO	50.2	288	−iP	18 37 36.9	1.4		
TIY	50.6	283	eP	18 37 39.4	1.0		
XAN	55.2	282	eP	18 38 11.6	−0.8		
LZH	56.8	288	P	18 38 25.0	0.5		
GTA	56.9	293	eP	18 38 24.6	−0.5		
GYA	61.9	278	P	18 39 00.4	1.1		

1986 6 18
O = 21 44 21.5 ± 0.07s
LAT = 45.48 N ± 1.33km
LONG = 142.24 E ± 0.78km
DEPTH = 283 km ± 0.75km
STATIONS USED = 44, STAND DEV = 1.10s

MDJ	9.0	269	eP	21 46 29.5	1.3		
CN2	12.1	268	eP	21 47 06.0	−0.6		
			iS	21 49 18.5	1.4		
SNY	14.0	261	−iP	21 47 30.8	0.9		
			iS	21 50 02.5	3.3		
DL2	16.6	254	P	21 47 59.0	−0.7		
BJI	19.9	263	eP	21 48 32.5	−0.3		
			eS	21 51 57.0	0.9		
TIA	21.1	253	eP	21 48 44.4	−0.3		
NJ2	22.5	242	−P	21 49 00.0	1.2		
HHC	22.8	269	eP	21 49 03.5	2.2		
TIY	23.5	261	eP	21 49 10.0	1.9		
BTO	24.0	270	eP	21 49 13.0	0.7		
			eS	21 53 10.0	3.3		
WHN	26.4	245	eP	21 49 32.5	−1.8		
GZH	32.4	236	P	21 50 27.5	0.1		
GYA	34.1	248	P	21 50 41.4	−0.7		
WMQ	38.2	288	eP	21 51 16.5	0.1		

1986 6 18
O = 21 47 51.2 ± 0.06s
LAT = 51.22 N ± 1.81km
LONG = 177.00 W ± 0.68km
DEPTH = 48 km ± 0.61km
STATIONS USED = 12, STAND DEV = 1.24s

BJI	46.5	283	eP	21 56 16.0	−0.2		
XAN	54.8	282	P	21 57 17.8	−1.4		
GYA	61.5	277	P	21 58 05.2	−0.8		
KMI	64.9	279	eP	21 58 27.5	−1.0		

1986 6 18
O = 23 17 57.3 ± 0.06s
LAT = 52.28 N ± 2.01km
LONG = 179.60 E ± 0.95km
DEPTH = 170 km ± 0.37km
STATIONS USED = 65, STAND DEV = 0.95s

MDJ	33.5	277	eP	23 24 21.5	−1.0		
CN2	36.4	279	eP	23 24 46.3	−1.2		
SNY	38.7	277	−iP	23 25 07.0	0.7		
BJI	44.2	280	eP	23 25 52.0	0.4		
TIA	46.1	275	−P	23 26 06.4	0.1		
HHC	46.5	284	eP	23 26 11.0	1.3		
SSE	47.0	267	+P	23 26 14.5	0.8		
			PMZ			1.0	0.040
BTO	47.6	285	−iP	23 26 19.6	1.5		
NJ2	47.8	270	+P	23 26 19.8	0.1		
WHN	51.6	272	P	23 26 48.5	−0.3		
XAN	52.5	279	−P	23 26 55.4	−0.2		
LZH	54.2	284	−iP	23 27 09.0	1.1		
			PMZ			1.0	0.12
			eS	23 34 32.0	1.5		
GZH	57.6	266	+P	23 27 32.5	0.3		
CD2	57.8	280	−iP	23 27 34.1	0.4		

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			PMZ			1.0	0.060
WMQ	58.0	301	P	23 27 34.5	−0.6		
			PcP	23 28 21.6	−2.6		
GYA	59.3	274	−P	23 27 43.0	−0.7		
KMI	62.6	276	−P	23 28 06.5	−0.1		

1986 6 19
O = 01 50 10.0 ± 0.26s
LAT = 24.43 N ± 4.23km
LONG = 122.84 E ± 3.45km
DEPTH = 20 km ± 1.53km
STATIONS USED = 41, STAND DEV = 3.88s
Ms = 4.2 / 10, M_L = 3.7 / 3,

QZH	3.9	278	cPn	01 51 10.5	1.1		
			SMN	M_L = 3.7		1.2	0.20
			SME			1.0	0.13
			LN	Ms = 3.7		10.0	1.31
			LE			9.0	0.80
SSE	6.8	348	cPn	01 51 48.1	−1.2		
			LG_1	01 53 40.0	−3.6		
			LG_2	01 53 55.0	0.6		
			LE	Ms = 3.7		12.0	0.88
NJ2	8.4	336	+P	01 52 15.8	2.4		
			S	01 53 51.0	2.9		
			LN	Ms = 4.2		9.0	1.20
GYA	14.8	281	P	01 53 48.8	8.8		
XAN	15.5	311	eP	01 53 45.8	−3.2		
			LN	Ms = 4.2		8.0	0.41
TIY	15.9	329	e(P)	01 54 00.8	5.4		
			LN	Ms = 4.0		14.0	0.37
			LE			12.0	0.18
BJI	16.5	342	eP	01 54 10.5	7.6		
CD2	18.1	295	(P)	01 54 22.6	0.3		
			LN	Ms = 4.7		11.0	1.55
BTO	19.4	329	eP	01 54 41.0	3.2		
			eS	01 58 15.0	4.9		
			LN	Ms = 4.3		14.0	0.40
			LE			14.0	0.60
CN2	19.4	6	eP	01 54 38.0	−0.4		
LZH	20.1	310	P	01 54 46.1	0.5		
MDJ	20.9	14	eP	01 54 52.9	−0.9		
WMQ	34.6	313	P	01 56 59.0	−1.3		

1986 6 19
O = 01 53 18.4 ± 0.12s
LAT = 38.35 N ± 2.64km
LONG = 72.66 E ± 1.06km
DEPTH = 38 km ± 1.61km
STATIONS USED = 6, STAND DEV = 4.46s
M_L = 4.0 / 2,

KSH	2.8	66	−iPg	01 54 09.4	0.7		
			Sg	01 54 45.6	−1.7		
			SMN	M_L = 4.0		0.2	0.60
			SME			0.2	0.60
WMQ	12.6	60	Pg	01 56 59.0	−2.0		

1986 6 19
O = 02 54 10.6 ± 0.08s
LAT = 24.97 N ± 0.64km
LONG = 124.60 E ± 0.52km
DEPTH = 97 km ± 0.93km
STATIONS USED = 12, STAND DEV = 1.42s

XAN	16.4	307	eP	02 57 53.8	−2.0		
CN2	18.8	2	−P	02 58 24.4	−0.8		

1986 6 19
O = 06 58 37.2 ± 0.14s
LAT = 14.06 S ± 1.67km
LONG = 166.70 E ± 2.22km
DEPTH = 71 km ± 0.58km
STATIONS USED = 56, STAND DEV = 1.35s

NJ2	64.8	316	−P	07 09 11.6	0.2		
WHN	67.1	312	eP	07 09 26.0	0.1		
MDJ	67.4	332	eP	07 09 27.5	−0.6		
DL2	67.4	323	eP	07 09 26.8	−1.3		
SNY	68.3	327	eP	07 09 33.0	−0.8		
CN2	68.8	329	eP	07 09 35.6	−0.9		
GYA	70.9	305	P	07 09 50.0	0.6		
BJI	71.4	321	eP	07 09 52.0	−0.4		
TIY	72.4	318	+iP	07 09 59.0	0.6		
			PMZ			1.2	0.070
			(S)	07 19 18.5	2.7		
XAN	72.8	313	P	07 10 00.6	−0.4		
KMI	73.5	302	+P	07 10 06.5	1.5		
HHC	74.7	320	eP	07 10 12.6	0.6		
CD2	75.2	308	eP	07 10 15.4	0.9		
BTO	75.6	319	−P	07 10 17.0	0.2		
			cPP	07 13 06.0	−2.3		
			cS	07 19 49.0	−2.2		
LZH	77.5	312	+iP	07 10 28.5	0.9		
			PMZ			2.5	0.22
WMQ	91.9	315	+iP	07 11 40.0	0.1		

1986 6 19
O = 09 09 08.1 ± 0.12s
LAT = 56.41 N ± 2.61km
LONG = 153.04 W ± 1.76km
DEPTH = 15 km ± 0.56km
STATIONS USED = 99, STAND DEV = 1.74s
Ms = 6.8 / 49, m_B = 6.5 / 36

MDJ	48.0	290	+P	09 17 50.0	0.7		
			PcP	09 19 08.0	−8.7		
			PP	09 19 42.0	2.1		
			S	09 24 44.0	−1.1		
			SMN			24.0	10.8
			ScS	09 27 36.0	−2.3		
			SS	09 28 18.0	9.2		
			LN	Ms = 6.9		22.0	80.5
CN2	50.7	292	+P	09 18 08.6	−1.5		
			PMZ	m_B = 6.4		7.0	3.90
			PP	09 20 06.0	−0.2		
			cS	09 25 16.0	−8.0		
			SMN	m_B = 6.5		9.0	5.60
			SME			9.0	2.70
			cSS	09 28 48.0	−6.8		
			LN	Ms = 6.7		15.0	31.6
SNY	53.1	292	+iP	09 18 27.0	−0.9		
			PMZ	m_B = 6.6		7.0	5.74
			sP	09 18 39.0	1.8		
			PcP	09 19 30.0	−5.3		
			PP	09 20 29.5	0.9		
			PcS	09 23 28.0	−4.7		
			iS	09 26 01.0	4.5		
			SMN			24.0	22.3
			SME			19.0	9.69
			SS	09 29 36.0	2.1		
			LN	Ms = 6.8		18.0	34.7
			LE			16.0	36.9
DL2	56.3	291	P	09 18 51.4	0.5		
			PMZ	m_B = 6.3		7.0	2.86
			S	09 26 34.0	−3.8		
			LN	Ms = 6.8		24.0	44.0
			LE			20.0	39.3
BJI	58.2	295	cP	09 19 04.0	−0.6		
			PMZ	m_B = 6.3		7.5	3.18
			cS	09 27 02.0	−2.4		
			SMN			15.0	15.6
			SME			13.0	15.9
			LN	Ms = 6.8		19.0	32.9
			LE			20.0	29.5
HHC	59.9	299	−P	09 19 16.7	0.3		
			S	09 27 30.0	5.1		
			SMN	m_B = 6.6		10.0	7.50
			SME			11.0	3.10
			LN	Ms = 6.8		14.0	29.4
			LE			15.0	20.9
TIA	60.6	292	cP	09 19 19.9	−1.6		
			PMZ	m_B = 6.2		8.0	2.64
			SMN	m_B = 6.3		10.0	1.56
			SME			12.0	4.21
			csS	09 27 44.0	−2.6		
			LN	Ms = 6.8		21.0	11.5
			LE			20.0	46.8
BTO	60.8	300	−iP	09 19 22.6	−0.2		
			PMZ	m_B = 6.4		7.0	3.50
			PP	09 21 38.5	0.7		
			S	09 27 33.0	−3.9		
			SMN	m_B = 6.5		11.0	4.30
			SME			11.0	4.90
			sS	09 27 55.0	6.3		
			LN	Ms = 6.9		17.0	30.0
			LE			17.0	38.9
TIY	61.9	296	cP	09 19 29.0	−0.8		
			PMZ	m_B = 6.4		7.5	4.09
			PP	09 21 47.5	0.1		
			S	09 27 52.0	1.7		
			SMN	m_B = 6.3		10.0	3.29
			SME			11.0	2.51
			ScS	09 29 09.0	−7.3		
			SS	09 32 03.0	9.1		
			LN	Ms = 6.9		16.0	30.6
			LE			15.0	22.2
SSE	62.5	285	+P	09 19 33.5	−0.2		
			PMZ	m_B = 6.6		6.0	4.96
			cPcS	09 24 08.0	−5.8		
			cS	09 27 58.0	−1.0		
			SMN	m_B = 6.5		10.0	4.22
			SME			10.0	4.42
			ScS	09 29 22.0	1.2		
			SS	09 32 04.0	0.5		
			LN	Ms = 6.5		14.0	4.55
			LE			14.0	13.3
NJ2	63.0	288	+P	09 19 36.0	−1.0		
			PMZ	m_B = 6.5		6.0	4.00
			PP	09 22 00.0	3.8		
			S	09 28 04.0	−0.1		
			SMN	m_B = 6.5		10.0	6.20
			LN	Ms = 6.7		15.0	25.4
GTA	66.5	306	+P	09 19 59.1	−1.1		
			PMZ	m_B = 6.3		8.0	3.15
			PP	09 22 30.0	2.5		
			PPMZ			20.0	1.79
			S	09 28 45.0	−2.7		
			SMN	m_B = 6.4		11.0	4.10
			SS	09 33 14.6	8.3		
			LN	Ms = 6.9		15.5	40.1
XAN	66.5	296	cP	09 19 59.6	−0.5		
			PMZ	m_B = 6.5		7.0	4.00
			S	09 28 46.0	−1.8		
			SMN	m_B = 6.5		9.0	3.50

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			SME			9.0	2.10
			sS	09 29 09.0	9.2		
			LN	Ms=6.7		12.0	12.2
			LE			12.0	11.4
WHN	66.5	290	eP	09 19 59.0	−1.1		
			PMZ	m_B=6.4		8.0	4.17
			PP	09 22 29.0	1.5		
			iS	09 28 54.0	4.9		
			SMN			14.0	8.92
			ScS	09 29 53.0	1.3		
			SS	09 33 15.0	8.5		
			LN	Ms=6.5		20.0	18.5
LZH	67.3	301	P	09 20 04.0	−1.5		
			PMZ			2.5	0.58
			PP	09 22 36.0	1.5		
			S	09 28 54.0	−3.8		
			SMN			13.0	6.37
			LN	Ms=6.9		15.0	20.4
			LE			15.0	31.5
WMQ	67.9	317	P	09 20 08.5	−0.2		
			PcP	09 20 37.0	2.7		
			PP	09 22 42.5	3.2		
			PcS	09 24 34.5	−3.2		
			cS	09 28 58.0	−7.6		
			sS	09 29 20.0	3.9		
			LN	Ms=7.0		16.0	31.7
			LE			14.0	24.6
QZH	68.7	283	cP	09 20 14.0	0.1		
			PMZ	m_B=6.4		5.0	2.43
			iS	09 29 20.5	4.9		
			LN	Ms=6.3		13.5	6.07
			LE			13.5	3.03
CD2	71.6	298	cP	09 20 32.0	0.5		
			S	09 29 52.0	4.1		
			SMN	m_B=7.1		10.0	16.6
			LN	Ms=7.1		14.0	42.7
GZH	73.0	286	P	09 20 40.8	0.8		
			PMZ	m_B=6.5		7.0	3.62
			iS	09 30 13.0	7.1		
			SMN	m_B=6.8		9.0	6.64
			SME			11.0	4.01
			LN	Ms=6.8		21.0	16.9
			LE			20.0	28.8
GYA	73.8	293	−P	09 20 44.6	0.0		
			PMZ	m_B=6.5		5.0	2.50
			PcP	09 20 58.4	−0.9		
			S	09 30 15.0	2.2		
			SMN	m_B=6.6		9.0	3.60
			SME			9.0	2.50
			ScS	09 30 49.0	0.1		
			LN	Ms=6.5		20.0	11.7
			LE			20.0	13.3
KSH	75.9	323	+iP	09 20 59.5	2.8		
			PP	09 23 51.0	3.4		
			iS	09 30 46.0	8.0		
			SMN	m_B=6.8		7.0	5.00
			LN	Ms=7.3		14.0	63.8
KMI	76.9	296	−P	09 21 02.0	−0.4		
			PMZ	m_B=6.2		9.0	2.70
			S	09 30 47.5	0.6		
			SMN	m_B=6.4		10.0	2.50
			SME			10.0	1.60
			SKS	09 31 06.0	−1.5		
			LN	Ms=6.7		17.0	22.0
LSA	78.5	307	P	09 21 10.8	−0.9		
			PP	09 24 11.0	1.4		
			S	09 31 05.0	0.4		
			LN	Ms=7.0		17.0	31.6
			LE			14.0	10.3

1986 6 19

O=11 30 53.8 ± 0.05s
LAT=28.20 N ± 1.27km
LONG=139.82 E ± 1.13km
DEPTH=413 km ± 0.68km
STATIONS USED = 65, STAND DEV= 0.94s

SSE	16.5	285	P	11 34 22.0	−0.9		
			PMZ			0.6	0.020
MDJ	18.3	336	cP	11 34 42.5	0.9		
DL2	18.5	310	cP	11 34 42.0	−1.5		
NJ2	18.5	287	+iP	11 34 44.0	0.2		
SNY	19.0	320	−iP	11 34 48.8	0.7		
CN2	19.4	327	−P	11 34 53.4	1.3		
WHN	22.3	282	+iP	11 35 21.0	1.0		
BJI	22.8	307	cP	11 35 23.5	−0.9		
GZH	24.4	264	+P	11 35 40.0	1.2		
TIY	24.8	300	cP	11 35 42.6	0.0		
HHC	26.4	306	P	11 35 55.3	−1.4		
XAN	27.0	290	−iP	11 36 02.5	−0.1		
BTO	27.4	305	cP	11 36 04.0	−1.9		
GYA	29.5	274	−P	11 36 24.4	0.4		
			sP	11 38 24.0	−1.4		
			PcP	11 39 18.0	0.5		
			S	11 40 45.0	−2.7		
			ScP	11 42 20.0	1.4		
LZH	31.3	294	−iP	11 36 40.4	0.3		
			PMZ			1.0	0.10
CD2	31.4	284	−iP	11 36 41.1	0.4		
			PMZ			0.8	0.14
GTA	34.8	299	−iP	11 37 09.6	−0.2		

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			PcP	11 39 32.5	0.1			
			ScP	11 42 37.1	0.2			
WMQ	44.2	305	P	11 38 27.0	0.5			

1986 6 19
O = 15 14 47.9 ± 0.13s
LAT = 36.93 N ± 3.82km
LONG = 21.48 E ± 3.29km
DEPTH = 37 km ± 2.96km
STATIONS USED = 28, STAND DEV = 1.07s

WMQ	49.7	60	P	15 23 49.5	11.3			
GTA	59.7	61	−P	15 24 50.7	−1.4			
XAN	68.7	63	eP	15 25 49.5	−1.0			
TIY	69.3	58	e(P)	15 25 53.0	−1.0			
BJI	70.5	54	eP	15 26 01.0	−0.7			
GYA	71.0	71	eP	15 26 06.8	2.2			
CN2	74.2	47	eP	15 26 22.2	−1.1			
SNY	74.2	49	eP	15 26 22.4	−1.0			

1986 6 19
O = 17 18 58.7 ± 0.27s
LAT = 35.88 S ± 5.62km
LONG = 100.59 W ± 5.65km
DEPTH = 7 km ± 1.26km
STATIONS USED = 30, STAND DEV = 3.35s

CN2	144.2	297	ePKP	17 38 38.0	1.6			
SSE	145.0	274	ePKP	17 38 33.7	−4.2			
SNY	145.4	294	+PKP	17 38 36.3	−2.3			
NJ2	147.2	275	ePKP	17 38 41.5	−0.2			
TIA	149.6	282	ePKP	17 38 49.5	3.9			
BJI	150.9	289	ePKP	17 38 47.5	0.1			
TIY	153.6	284	ePKP	17 39 05.7	15.6			
GYA	154.9	256	ePKP	17 39 01.0	7.7			

1986 6 19
O = 18 12 27.1 ± 0.09s
LAT = 7.68 N ± 1.48km
LONG = 94.50 E ± 1.60km
DEPTH = 165 km ± 0.26km
STATIONS USED = 94, STAND DEV = 1.20s
m_B = 6.1 / 39

GYA	22.0	30	−P	18 17 10.0	1.4			
			PMZ			3.0	7.00	
			sP	18 18 04.0	4.0			
			PcP	18 21 03.0	0.9			
			S	18 20 58.0	3.1			
			SMN	m_B = 6.7		6.0	13.5	
			SME			6.0	11.0	
			ScP	18 24 22.0	−0.2			
			PcS	18 24 40.0	0.9			
			ScS	18 28 04.0	−1.8			
LSA	22.1	352	P	18 17 09.7	−0.8			
			pP	18 17 41.0	−0.7			
			S	18 20 57.0	−0.7			
			SME	m_B = 6.2		8.0	6.73	
			PcS	18 24 46.5	7.0			
			ScS	18 28 07.0	0.6			
GZH	23.7	48	−iP	18 17 25.7	0.4			
			PMZ	m_B = 6.3		5.0	4.20	
			S	18 21 25.0	0.3			
			SMN	m_B = 6.3		7.0	3.99	
			SME			8.0	6.95	
			SS	18 22 35.5	5.5			
CD2	24.7	19	−iP	18 17 34.8	0.3			
			PMZ			2.0	3.19	
			pP	18 18 10.0	2.8			
			iS	18 21 41.0	−0.9			
			SMN	m_B = 6.5		6.0	10.3	
QZH	28.7	50	−P	18 18 11.2	−0.1			
			PMZ	m_B = 6.2		4.0	2.25	
			S	18 22 48.0	1.6			
			SMN	m_B = 5.0		9.0	0.63	
			SME			9.0	0.49	
			sS	18 23 55.0	8.2			
WHN	29.4	37	−iP	18 18 17.2	0.0			
			PMZ			2.0	0.23	
			pP	18 18 56.0	4.9			
			PP	18 19 19.0	−0.1			
			ScP	18 24 42.0	−1.5			
			iS	18 22 56.0	−1.7			
			SMN	m_B = 5.4		8.0	1.94	
			sS	18 24 05.0	7.4			
			SS	18 24 44.0	0.8			
			PcS	18 25 00.0	−0.4			
XAN	29.4	25	−iP	18 18 16.2	−1.4			
			PMZ	m_B = 6.2		5.0	2.63	
			iS	18 22 52.0	−6.5			
			SMN	m_B = 6.2		4.0	3.21	
			SME			4.0	4.24	
			sS	18 24 02.0	3.8			
LZH	29.5	15	−iP	18 18 18.0	−0.9			
			PMZ			2.0	1.49	
			sP	18 19 12.0	0.1			
			PcP	18 21 19.0	−0.2			
			S	18 22 52.0	−7.4			
			sS	18 24 04.0	3.8			
			PcS	18 25 04.0	3.1			
			iScS	18 28 38.0	0.3			
GTA	32.0	8	−P	18 18 39.6	−0.4			
			PcP	18 21 26.1	0.5			

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			S	18 23 32.5	−4.7		
			sS	18 24 40.6	1.9		
			ScP	18 24 50.0	−1.9		
			PcS	18 25 09.3	0.4		
			ScS	18 28 47.9	−1.6		
			LE			9.0	1.22
NJ2	33.2	40	−iP	18 18 50.0	−0.5		
			PMZ	$m_B = 6.2$		5.0	2.60
			pP	18 19 30.0	4.9		
			PcP	18 21 29.0	0.0		
			iS	18 23 56.0	−1.3		
			SMN	$m_B = 5.7$		8.0	2.70
			SME			9.0	0.90
			ScP	18 24 54.0	−2.3		
			sS	18 25 00.0	2.0		
TIY	34.0	26	−iP	18 18 57.0	−0.8		
			PMZ			1.6	0.48
			pP	18 19 37.0	4.6		
			sP	18 19 51.0	−0.5		
			PcP	18 21 32.0	0.6		
			S	18 24 07.0	−2.4		
			SMN	$m_B = 5.6$		8.0	1.24
			SME			7.0	1.86
			PcS	18 25 19.5	3.3		
			SS	18 26 21.5	−7.0		
SSE	34.1	43	−iP	18 18 58.0	−0.4		
			PMZ			1.0	0.090
			pP	18 19 38.0	4.8		
			sP	18 19 56.0	3.8		
			PcP	18 21 30.0	−1.6		
			S	18 24 10.0	−0.8		
			SMN	$m_B = 5.3$		8.0	0.64
			SME			8.0	0.94
			ScP	18 24 56.0	−3.5		
			PcS	18 25 15.0	−1.5		
			sS	18 25 20.0	7.5		
			eSS	18 26 32.0	1.6		
			ScS	18 29 03.0	2.2		
			LN			8.0	2.54
			LE			8.0	1.40
TIA	35.1	33	−P	18 19 06.5	−0.4		
			PcP	18 21 34.5	0.0		
			eS	18 24 21.5	−5.6		
			SMN	$m_B = 5.6$		9.0	0.50
			SME			10.0	1.75
			ScP	18 25 00.8	−2.3		
			sS	18 25 36 0	8.0		
			ScS	18 29 02 5	−3.6		
			LN			10.0	0.57
			LE			11.0	2.47
BTO	35.6	20	−iP	18 19 10.4	−0.6		
			pP	18 19 49.0	3.1		
			sP	18 20 06.0	1.1		
			cPP	18 20 35.5	1.1		
			S	18 24 29.0	−4.3		
			sS	18 25 38.0	2.7		
			SS	18 27 00.0	−2.4		
			LN			12.0	1.30
KSH	35.7	335	−iP	18 19 12.9	0.6		
			PP	18 20 37.9	1.7		
			iS	18 24 33.9	−3.0		
			SME	$m_B = 6.1$		5.0	3.10
			ScP	18 25 01.9	−3.4		
			sS	18 25 39.9	2.1		
			SS	18 27 05.9	0.0		
HHC	36.4	22	−iP	18 19 18.0	0.5		
			PMZ	$m_B = 5.8$		5.0	1.28
			sP	18 20 15.0	3.5		
			S	18 24 44.0	−1.2		
			SMN	$m_B = 6.1$		5.0	1.62
			SME			6.0	2.29
			sS	18 25 50.0	2.6		
			LN			10.0	2.21
			LE			10.0	2.10
WMQ	36.5	352	−iP	18 19 18.4	−0.1		
			PMZ			1.8	0.97
			pP	18 19 55.5	1.9		
			sP	18 20 12.0	−0.6		
			PP	18 20 49.0	3.7		
BJI	37.6	28	−iP	18 19 29.0	1.2		
			PMZ	$m_B = 6.3$		4.5	3.29
			sP	18 20 24.0	2.0		
			eS	18 25 05.0	0.0		
			SMN	$m_B = 5.9$		8.0	1.63
			SME			8.0	2.02
			esS	18 26 06.0	−0.7		
			ScS	18 29 22.0	2.1		
			LN			10.0	0.85
DL2	39.5	34	−iP	18 19 44.0	0.2		
			PMZ	$m_B = 6.2$		5.0	2.90
			pP	18 20 17.0	−2.2		
			S	18 25 31.0	−1.9		
			SMN	$m_B = 6.0$		8.0	2.16
			SME			8.0	2.17
			sS	18 26 30.0	−5.9		
SNY	42.6	32	−iP	18 20 08.9	−0.3		
			PMZ	$m_B = 6.4$		4.0	3.49
			pP	18 20 47.0	2.0		
			PP	18 21 45.5	−6.9		
			PcS	18 25 50.0	1.2		

			iS	18 26 16.0	−3.7		
			SMN	m_B=6.0		4.0	0.79
			SME			7.0	1.45
			sS	18 27 18.0	−4.4		
			SS	18 29 34.0	5.1		
CN2	45.0	32	−iP	18 20 27.8	−0.4		
			PMZ	m_B=6.3		4.0	3.10
			pP	18 21 08.5	4.3		
			PcP	18 22 05.5	−0.7		
			PP	18 22 15.5	−0.7		
			ScP	18 25 38.4	−3.0		
			S	18 26 48.0	−4.8		
			ScS	18 30 03.0	−1.5		
			SS	18 30 08.0	−2.8		
MDJ	47.8	34	−iP	18 20 49.8	−0.1		
			PMZ	m_B=6.3		4.0	3.23
			PcP	18 22 15.5	−0.5		
			PP	18 22 43.0	0.3		
			ScP	18 25 50.5	−2.4		
			S	18 27 32.0	0.1		
			sS	18 28 40.0	3.3		
			ScS	18 30 20.0	−2.5		
			LN			10.0	0.70

1986 6 19
O=20 01 43.6 ± 0.17s
LAT=30.07 S ± 4.11km
LONG=177.86 W ± 2.41km
DEPTH= 36 km ± 0.28km
STATIONS USED = 58, STAND DEV= 1.07s

SSE	84.0	311	eP	20 14 14.0	1.7
GZH	84.6	300	eP	20 14 15.5	0.2
NJ2	86.1	311	+P	20 14 23.0	0.1
WHN	88.2	307	eP	20 14 32.0	−1.2
MDJ	88.4	325	eP	20 14 33.5	−0.6
DL2	88.8	317	eP	20 14 35.0	−0.8
SNY	89.6	320	+P	20 14 38.9	−0.8
TIA	89.8	313	+P	20 14 40.6	−0.2
CN2	90.0	323	+iP	20 14 40.7	−0.6
GYA	91.5	300	P	20 14 48.6	−0.1
TIY	93.7	312	eP	20 14 59.0	0.1
XAN	94.0	307	eP	20 14 59.8	−0.3
CD2	96.0	302	eP	20 15 09.8	0.6
LZH	98.6	307	eP	20 15 23.5	2.3
GTA	103.0	308	P	20 15 40.6	−0.4
WMQ	113.1	308	PKP	20 20 17.5	−0.6

1986 6 19
O=20 33 17.6 ± 0.14s
LAT=16.92 S ± 3.06km
LONG= 65.46 W ± 4.16km
DEPTH= 19 km ± 0.49km
STATIONS USED = 50, STAND DEV= 1.91s

KSH	139.7	48	PKP	20 52 46.9	1.2
WMQ	144.9	35	+iPKP	20 52 54.8	0.1
			pPKP	20 53 06.5	6.9
MDJ	149.6	338	cPKP	20 53 02.5	0.1
CN2	151.7	343	PKP	20 53 05.4	−0.1
			PP	20 56 46.8	−7.0
SNY	154.0	344	cPKP	20 53 10.1	1.3
GTA	154.2	27	+PKP	20 53 09.7	0.4
			cPP	20 57 04.0	−4.6
LSA	155.1	55	−PKP	20 53 11.5	0.7
BTO	156.1	9	cPKP	20 53 13.0	1.3
LZH	158.7	24	cPKP	20 53 16.0	0.8
TIY	159.2	5	cPKP	20 53 16.5	0.8
TIA	160.6	354	cPKP	20 53 17.0	−0.1
XAN	162.2	15	cPKP	20 53 19.2	0.4
CD2	163.0	33	cPKP	20 53 21.2	1.7
WHN	166.4	1	cPKP	20 53 23.5	0.8
GYA	168.0	36	PKP	20 53 24.4	0.5
			PKP_2	20 54 31.8	
			PP	20 58 23.6	1.9

1986 6 19
O=21 57 24.6 ± 0.20s
LAT=16.84 S ± 3.19km
LONG= 65.43 W ± 3.49km
DEPTH= 21 km ± 0.98km
STATIONS USED = 54, STAND DEV= 1.85s
Ms=5.5/ 1, m_B=5.6/ 1

KSH	139.6	48	PKP	22 16 53.9	1.7		
WMQ	144.8	35	+iPKP	22 17 01.2	0.0		
			pPKP	22 17 13.0	6.2		
MDJ	149.6	339	cPKP	22 17 09.4	0.4		
CN2	151.6	343	cPKP	22 17 12.4	0.3		
			PP	22 20 55.6	−4.5		
SNY	153.9	345	cPKP	22 17 16.9	1.5		
GTA	154.1	27	+PKP	22 17 16.4	0.6		
			PP	22 21 09.0	−5.8		
			PPMZ	m_B=5.6		8.0	0.42
			LN	Ms=5.5		24.0	0.61
LSA	155.0	55	−PKP	22 17 18.0	0.7		
HHC	155.9	6	cPKP	22 17 20.2	2.0		
BTO	156.0	9	cPKP	22 17 20.0	1.8		
LZH	158.6	24	−PKP	22 17 23.0	1.3		
TIY	159.1	5	cPKP	22 17 23.0	0.7		
TIA	160.6	354	cPKP	22 17 24.4	0.7		
XAN	162.1	15	cPKP	22 17 26.0	0.7		
CD2	162.9	33	cPKP	22 17 27.6	1.5		

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WHN	166.4	1	cPKP	22 17 30.0	0.7	
GYA	167.9	36	PKP	22 17 31.6	1.1	
			pPKP	22 17 44.0	7.9	
			PP	22 22 30.8	2.8	

1986 6 19
O = 23 18 26.0 ± 0.12s
LAT = 30.93 S ± 3.76km
LONG = 177.42 W ± 3.12km
DEPTH = 18 km ± 1.62km
STATIONS USED = 49, STAND DEV = 1.54s
Ms = 6.0 / 24, m_B = 6.2 / 18

QZH	82.7	305	+P	23 30 50.0	−0.8		
			eS	23 41 06.0	−0.7		
			LN	Ms = 5.8		12.0	1.76
SSE	84.8	311	+P	23 31 01.0	−0.7		
			PMZ	m_B = 6.1		10.0	1.98
			cPP	23 34 13.0	−5.7		
			sS	23 41 36.0	−3.6		
			LN	Ms = 6.1		20.0	3.06
			LE			20.0	4.61
GZH	85.3	300	+P	23 31 05.0	0.7		
			S	23 41 25.0	−6.7		
			SMN	m_B = 6.1		12.0	1.24
			SME			12.0	1.72
			LE	Ms = 5.9		20.0	3.33
NJ2	87.0	310	+P	23 31 12.0	−0.3		
			PMZ	m_B = 6.2		9.0	1.80
			SMN	m_B = 5.8		9.0	0.90
			LN	Ms = 6.2		20.0	5.40
WHN	89.1	307	+P	23 31 22.0	−0.4		
			PMZ	m_B = 6.2		8.0	1.28
			cSKS	23 41 40.0	−7.9		
			SMN	m_B = 5.8		12.0	1.10
			LN	Ms = 5.9		20.0	2.74
MDJ	89.3	325	eP	23 31 23.4	−0.3		
			SKS	23 41 52.0	2.4		
			S	23 42 15.0	5.5		
DL2	89.7	317	P	23 31 23.0	−2.2		
			SKS	23 41 54.0	2.3		
			LN	Ms = 6.2		22.0	4.85
			LE			22.0	3.28
SNY	90.5	320	+iP	23 31 27.0	−2.2		
			PMZ	m_B = 6.2		12.0	1.69
			sP	23 31 41.5	2.5		
			SMN			16.0	1.88
			SME			16.0	1.86
			LN	Ms = 5.9		31.0	1.96
			LE			24.0	3.63
TIA	90.7	313	eP	23 31 29.0	−1.0		
			PMZ	m_B = 6.2		9.0	1.36
			eSKS	23 41 56.0	−1.7		
			eS	23 42 17.0	−6.5		
			SMN			15.0	1.56
			SME			15.0	2.33
			csS	23 42 32.0	−2.8		
			LN	Ms = 5.8		25.0	1.50
			LE			25.0	2.47
CN2	90.9	323	+P	23 31 29.5	−1.3		
			PMZ	m_B = 6.2		5.0	0.80
			SKS	23 42 00.0	1.3		
			LE	Ms = 5.9		18.0	2.80
GYA	92.2	300	+P	23 31 38.0	0.7		
			sP	23 31 51.0	4.1		
			PP	23 35 25.0	5.8		
			SKS	23 42 12.0	5.4		
			LE	Ms = 6.1		20.0	4.20
KMI	94.5	296	eP	23 31 50.5	2.7		
			PMZ	m_B = 6.2		10.0	1.00
			sP	23 32 00.0	2.7		
			PP	23 35 45.0	8.5		
			PPMZ	m_B = 6.2		10.0	0.90
			SKS	23 42 25.5	6.3		
TIY	94.6	312	eP	23 31 46.0	−2.0		
			PMZ	m_B = 6.2		10.5	1.11
			SKS	23 42 12.0	−7.7		
			SMN	m_B = 6.2		11.0	1.51
			SME			11.0	1.53
			sS	23 43 09.0	0.2		
			LN	Ms = 6.1		19.0	2.34
			LE			21.0	3.48
XAN	94.8	307	eP	23 31 11.8	−36.2		
			LE	Ms = 5.9		17.0	2.36
CD2	96.8	302	eP	23 31 56.0	−2.0		
			SKS	23 42 37.0	5.8		
			S	23 43 06.0	−8.4		
			LE	Ms = 6.0		17.0	2.94
HHC	97.0	314	P	23 32 00.0	1.1		
			PP	23 35 54.5	−1.3		
			iSKS	23 42 37.0	4.9		
			S	23 43 16.0	0.2		
			SMN			15.0	3.15
			LN	Ms = 6.1		12.0	0.76
			LE			14.0	2.54
BTO	97.8	313	eP	23 32 02.0	−0.6		
			PP	23 35 54.0	−8.5		
			SKS	23 42 37.0	−0.2		
			eS	23 43 16.5	−8.3		
			LN	Ms = 5.8		15.0	0.80
			LE			15.0	1.10

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1986 6 19
O = 23 23 56.8 ± 0.15s
LAT = 4.67 S ± 2.18km
LONG = 103.05 E ± 3.81km
DEPTH = 123 km ± 1.27km
STATIONS USED = 22, STAND DEV = 1.79s

KMI	29.6	359	P	23 29 54.4	1.3			
GYA	31.1	6	P	23 30 06.8	0.3			
CD2	35.4	1	eP	23 30 42.9	0.0			
LZH	40.5	1	eP	23 31 24.0	−2.1			
GTA	44.0	356	P	23 31 54.2	0.3			
WMQ	50.2	346	+P	23 32 43.0	0.3			

1986 6 20
O = 02 37 52.6 ± 0.12s
LAT = 32.11 S ± 1.71km
LONG = 178.85 W ± 2.16km
DEPTH = 12 km ± 0.25km
STATIONS USED = 21, STAND DEV = 1.66s

MDJ	89.6	326	eP	02 50 51.5	−1.1			
TIA	90.6	313	eP	02 50 56.4	−0.8			
CN2	91.1	323	−P	02 50 58.6	−0.7			
BJI	93.6	316	eP	02 51 11.0	−0.1			
			eSKS	03 01 33.0	−9.7			
			eS	03 02 14.5	−3.0			

1986 6 20
O = 04 36 28.2 ± 0.07s
LAT = 56.55 N ± 1.67km
LONG = 152.77 W ± 0.96km
DEPTH = 31 km ± 0.48km
STATIONS USED = 32, STAND DEV = 1.32s

SNY	53.2	292	eP	04 45 46.3	0.1			
BJI	58.3	296	eP	04 46 24.5	1.7			
HHC	59.9	299	P	04 46 34.8	0.3			
BTO	60.9	300	eP	04 46 41.0	0.2			
GTA	66.5	306	eP	04 47 17.0	−1.0			
XAN	66.6	296	eP	04 47 17.5	−0.7			
WMQ	67.9	317	eP	04 47 27.2	0.9			
GYA	73.9	293	P	04 48 04.0	1.4			

1986 6 20
O = 07 00 04.5 ± 0.04s
LAT = 81.74 N ± 0.68km
LONG = 119.89 E ± 0.82km
DEPTH = 10 km ± 0.03km
STATIONS USED = 44, STAND DEV = 0.78s

MDJ	37.4	169	eP	07 07 19.8	−0.2			
CN2	38.1	173	eP	07 07 25.0	−1.0			
WMQ	39.5	217	P	07 07 38.3	0.4			
SNY	40.1	176	+iP	07 07 42.1	−0.1			
BJI	41.9	184	eP	07 07 57.5	0.6			
GTA	43.0	203	P	07 08 07.4	0.6			
TIA	45.7	183	eP	07 08 27.6	−0.2			
LZH	46.1	198	P	07 08 32.5	0.7			
			PMZ			1.8	0.020	
XAN	48.0	192	eP	07 08 45.0	−1.2			
NJ2	49.8	181	eP	07 09 00.0	−0.1			
CD2	51.3	198	eP	07 09 12.2	0.6			
GYA	55.6	194	eP	07 09 44.0	0.4			
KMI	57.1	199	+P	07 09 54.0	−0.4			

1986 6 20
O = 17 12 46.4 ± 0.11s
LAT = 31.24 N ± 1.78km
LONG = 86.81 E ± 1.43km
DEPTH = 33 km ± 0.16km
STATIONS USED = 98, STAND DEV = 1.49s
Ms = 6.4 / 43, m_B = 6.2 / 29

LSA	4.1	111	Pn	17 13 51.0	3.9			
			Sn	17 14 39.0	4.6			
			SME			8.0	40.6	
KSH	12.0	316	−iP	17 15 40.5	1.4			
			sP	17 15 53.0	2.3			
			S	17 17 56.5	3.7			
			LG_1	17 19 02.5	−2.3			
			LN	Ms = 6.3		6.0	55.8	
WMQ	12.6	3	P	17 15 45.0	−1.2			
			eS	17 18 03.0	−3.3			
			sS	17 18 10.5	−6.6			
			LG_2	17 19 36.5	−5.0			
			LN	Ms = 5.9		14.0	54.5	
GTA	13.4	49	+iP	17 15 55.6	−1.2			
			iS	17 18 27.0	1.4			
			LE	Ms = 6.2		12.0	77.9	
CD2	14.5	87	eP	17 16 11.8	−0.1			
			PMZ	m_B = 6.3		6.0	3.31	
			S	17 18 51.0	−1.3			
			LE	Ms = 6.4		8.0	69.8	
LZH	15.0	67	+P	17 16 15.0	−2.9			
			PMZ			3.0	0.17	
			pP	17 16 23.0	−1.9			
			S	17 19 04.0	1.1			
			sS	17 19 13.0	−1.8			
			LG_1	17 20 29.0	−8.1			
			LE	Ms = 6.3		8.0	59.1	
KMI	15.3	110	+P	17 16 20.0	−2.2			
			PMZ	m_B = 5.9		7.0	4.10	
			pP	17 16 28.0	−1.1			

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			sP	17 16 32.5	−1.4		
			iS	17 19 06.0	−5.5		
			sS	17 19 14.0	−8.4		
			SS	17 19 25.0	−3.4		
			LE	Ms = 6.1		11.0	51.6
GYA	18.0	100	+P	17 16 55.0	−1.5		
			PMZ	m_B = 5.9		6.0	4.00
			pP	17 17 03.0	−0.9		
			S	17 20 16.0	3.0		
			LG_1	17 22 17.0	4.2		
			LG_2	17 22 48.0	6.7		
			LN	Ms = 6.4		10.0	38.7
			LE			10.0	46.0
XAN	18.8	76	+iP	17 17 04.2	−2.0		
			PMZ	m_B = 6.1		6.0	5.16
			PP	17 17 21.0	−1.1		
			S	17 20 33.0	2.0		
			SMN	m_B = 6.6		8.0	13.4
			SME			8.0	15.3
			sS	17 20 45.0	1.3		
			LE	Ms = 6.3		10.0	48.3
BTO	20.9	57	−iP	17 17 29.0	−0.2		
			sP	17 17 42.0	0.1		
			PP	17 17 51.0	−0.5		
			S	17 21 16.0	0.8		
			sS	17 21 30.0	0.5		
			LN	Ms = 6.5		11.0	47.4
			LE			11.0	43.9
HHC	22.1	57	+P	17 17 42.5	1.3		
			pP	17 17 52.0	2.1		
			sP	17 17 56.0	2.0		
			S	17 21 39.0	1.5		
			SMN			13.0	18.1
			ScS	17 28 50.0	−4.9		
			LE	Ms = 6.5		14.0	80.4
WHN	23.6	85	cP	17 17 57.0	1.3		
			PMZ	m_B = 6.5		5.0	10.8
			PP	17 18 32.0	3.8		
			iS	17 22 13.0	8.1		
			SME	m_B = 6.8		8.0	25.8
			sS	17 22 27.0	7.6		
			LN	Ms = 6.6		10.0	66.5
GZH	24.9	102	+P	17 18 08.8	0.5		
			S	17 22 24.0	−2.4		
			SMN	m_B = 7.0		11.0	9.73
			SME			10.0	38.0
			LG_2	17 26 22.0	−6.8		
			LN	Ms = 6.6		10.0	50.1
			LE			10.0	21.7
BJI	25.3	62	cP	17 18 14.0	1.7		
			PMZ	m_B = 6.2		5.5	3.76
			SMN			14.0	8.99
			SME			11.5	17.6
			LN	Ms = 6.7		13.0	87.5
			LE			13.0	20.2
TIA	25.6	71	+P	17 18 15.9	0.8		
			pP	17 18 25.0	1.0		
			S	17 22 42.8	4.6		
			SMN	m_B = 5.9		11.0	3.87
			sS	17 22 58.0	4.1		
			LN	Ms = 6.4		10.0	24.8
			LE			12.0	37.0
NJ2	27.2	80	+P	17 18 31.0	1.1		
			PMZ	m_B = 5.8		7.0	1.50
			S	17 23 10.0	5.5		
			LE	Ms = 6.3		11.0	26.4
QZH	28.7	95	+P	17 18 42.0	−0.7		
			sP	17 18 55.0	−0.8		
			S	17 23 28.0	0.6		
			sS	17 23 42.0	−1.4		
			SS	17 24 56.5	1.8		
			LN	Ms = 6.6		14.0	71.9
SSE	29.4	81	+P	17 18 49.0	0.2		
			PMZ			1.2	0.010
			S	17 23 42.0	3.8		
			sS	17 23 57.0	2.8		
			SS	17 25 08.0	−2.7		
			ScP	17 25 26.0	−6.1		
			ScS	17 29 18.0	−7.2		
			LN	Ms = 6.4		10.0	28.0
			LE			9.0	10.4
DL2	29.4	65	+P	17 18 50.5	1.5		
			S	17 23 42.0	3.4		
			LN	Ms = 6.6		15.0	73.0
			LE			15.0	24.3
SNY	31.2	60	+iP	17 19 05.0	0.1		
			PMZ	m_B = 5.9		5.0	0.96
			pP	17 19 11.0	−3.0		
			sP	17 19 16.0	−2.0		
			S	17 24 10.5	3.6		
			SMN	m_B = 6.2		7.0	3.40
			SME			8.0	0.96
			sS	17 24 23.0	0.0		
			LN	Ms = 6.5		13.0	34.2
			LE			12.0	21.0
CN2	32.8	57	+P	17 19 19.4	−0.1		
			PMZ	m_B = 6.1		4.0	1.40
			pP	17 19 29.0	0.4		
			cPP	17 20 29.0	−0.1		
			S	17 24 34.0	1.2		

			SMN	m_B = 6.0	8.0	2.30
			SME		8.0	0.70
			SS	17 26 38.5	6.2		
			LN	Ms = 6.6	16.0	68.0
MDJ	35.9	56	eP	17 19 46.0	0.2		
			pP	17 19 56.0	1.0		
			PP	17 21 10.0	2.9		
			S	17 25 23.0	2.8		
			SS	17 27 50.0	6.9		

1986 6 20
O = 18 41 28.5 ± 0.52s
LAT = 58.50 S ± 7.65km
LONG = 24.67 W ± 8.14km
DEPTH = 41 km ± 2.88km
STATIONS USED = 61, STAND DEV = 2.98s
Ms = 6.0 / 8,

KSH	127.9	75	cPKP	19 00 34.5	3.4		
			cSKKS	19 09 26.5			
LSA	128.2	95	–PKP	19 00 32.5	0.4		
KMI	130.4	109	cPKP	19 00 38.0	1.9		
GYA	133.5	112	PKP	19 00 39.0	–2.8		
			PP	19 03 09.0	–3.5		
CD2	135.7	105	cPKP	19 00 48.6	2.9		
			LE	Ms = 6.0	20.0	1.70
WMQ	137.0	79	cPKP	19 00 43.9	–4.5		
			PKS	19 04 15.0			
			LN	Ms = 5.9	20.0	1.33
LZH	139.8	101	PKP	19 00 52.0	–1.5		
GTA	140.2	94	PKP	19 00 48.0	–6.2		
			LN	Ms = 6.1	10.0	1.03
WHN	140.6	117	cPKP	19 00 56.0	1.4		
XAN	140.8	108	PKP	19 00 49.4	–5.7		
NJ2	143.9	121	–PKP	19 01 01.0	0.7		
			LN	Ms = 6.0	17.0	1.40
SSE	144.1	125	–PKP	19 01 00.5	–0.2		
			pPKP	19 01 10.2	–2.1		
			PP	19 04 24.0	6.0		
			SS	19 23 02.0	5.4		
			LN	Ms = 6.0	22.0	1.54
			LE		22.0	0.96
BTO	146.4	102	cPKP	19 01 06.2	1.4		
			cPP	19 04 22.0	–9.7		
TIA	146.5	115	–PKP	19 01 06.4	1.4		
			PP	19 04 29.0	–3.5		
HHC	147.4	103	+PKP	19 01 11.0	4.5		
BJI	149.1	109	cPKP	19 01 10.0	1.0		
			cPP	19 04 45.0	–1.8		
DL2	150.8	117	PKP	19 01 17.0	5.2		
SNY	154.0	116	cPKP	19 01 16.0	–0.4		
			PP	19 05 19.5	4.0		
			LN	Ms = 5.9	24.0	1.62
			LE		22.0	0.62
CN2	156.4	116	+PKP	19 01 20.0	0.4		
MDJ	159.0	120	cPKP	19 01 23.0	0.1		

1986 6 20
O = 19 29 27.2 ± 0.16s
LAT = 58.60 S ± 4.80km
LONG = 25.13 W ± 4.09km
DEPTH = 33 km ± 0.35km
STATIONS USED = 15, STAND DEV = 3.95s

GTA	140.4	94	cP	19 48 47.6	–6.9
XAN	141.0	109	cP	19 48 48.8	–6.6
TIA	146.7	116	cP	19 49 07.8	2.6

1986 6 20
O = 20 21 03.7 ± 0.09s
LAT = 41.22 N ± 0.81km
LONG = 121.80 E ± 0.69km
DEPTH = 42 km ± 0.51km
STATIONS USED = 10, STAND DEV = 3.16s
M_L = 3.3 / 10,

SNY	1.5	65	+iPg	20 21 26.0	–4.5		
			Sg	20 21 46.0	–5.3		
			SMN	M_L = 3.3		0.4	0.47
			SME			0.4	0.29
DL2	2.3	183	cP *	20 21 36.4	–4.1		
			cS *	20 22 03.2	–4.3		
			SMN	M_L = 2.8		0.6	0.020
			SME			0.6	0.11
CN2	3.7	45	cPg	20 22 11.0	1.0		
			cSn	20 22 45.2	3.0		
			SMN	M_L = 3.2		0.6	0.050
			SME			0.6	0.060
BJI	4.4	256	cPg	20 22 21.0	–1.4		
			SMN	M_L = 2.9		0.5	0.020
			SME			0.5	0.020

1986 6 20
O = 20 27 35.2 ± 0.56s
LAT = 58.70 S ± 3.85km
LONG = 24.87 W ± 5.81km
DEPTH = 33 km ± 3.37km
STATIONS USED = 10, STAND DEV = 3.55s

GTA	140.3	94	cPKP	20 46 55.4	–6.8
TIY	145.5	108	cPKP	20 47 11.4	0.2
TIA	146.5	115	cPKP	20 47 14.7	1.8
BJI	149.1	110	cPKP	20 47 21.0	4.0

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1986 6 20
O=20 53 44.9 ± 0.18s
LAT=58.75 S ± 5.51km
LONG= 24.51 W ± 9.38km
DEPTH= 28 km ± 1.14km
STATIONS USED = 30, STAND DEV= 3.15s

GYA	133.3	112	cPKP	21 13 01.0	1.2
WMQ	137.0	79	cPKP	21 13 07.5	0.8
GTA	140.1	94	cPKP	21 13 10.0	−2.3
XAN	140.6	108	cPKP	21 13 06.0	−7.2
NJ2	143.7	121	+PKP	21 13 18.0	−0.3
SSE	143.9	125	PKP	21 13 17.2	−1.5
TIY	145.3	108	cPKP	21 13 21.3	0.0
BTO	146.3	102	PKP	21 13 25.0	2.0
TIA	146.4	115	+PKP	21 13 24.8	1.8
HHC	147.2	104	PKP	21 13 27.0	2.4
BJI	148.9	110	cPKP	21 13 31.5	4.3
DL2	150.6	118	cPKP	21 13 36.6	6.8

1986 6 20
O=21 37 37.4 ± 0.15s
LAT=58.80 S ± 3.08km
LONG= 24.83 W ± 4.00km
DEPTH= 29 km ± 0.51km
STATIONS USED = 20, STAND DEV= 4.08s

XAN	140.8	108	cPKP	21 56 54.6	−11.1
SSE	144.0	125	cPKP	21 57 09.5	−1.6
TIY	145.4	109	cPKP	21 57 12.1	−1.7
TIA	146.5	115	cPKP	21 57 17.2	1.7
BJI	149.1	110	cPKP	21 57 24.0	4.3

1986 6 20
O=21 48 44.7 ± 0.29s
LAT=58.81 S ± 6.27km
LONG= 24.99 W ± 7.37km
DEPTH= 30 km ± 1.37km
STATIONS USED = 45, STAND DEV= 3.61s
Ms=5.8/ 1,

LSA	128.3	95	cPKP	22 07 57.0	6.8
KMI	130.5	110	cPKP	22 07 53.5	−0.6
GYA	133.5	113	cPKP	22 08 01.0	1.3
WMQ	137.3	80	cPKP	22 08 06.8	0.2
GTA	140.4	94	cPKP	22 08 07.9	−4.4
XAN	140.8	109	cPKP	22 08 06.0	−7.1
NJ2	143.9	122	+PKP	22 08 17.0	−1.2
SSE	144.1	126	cPKP	22 08 16.5	−2.0
TIY	145.5	109	PKP	22 08 20.5	−0.6
			PP	22 11 46.0	1.9
			LN	Ms=5.8 21.0	0.86
			LE	20.0	0.86
TIA	146.6	116	cPKP	22 08 23.0	0.1
HHC	147.5	104	PKP	22 08 27.5	3.0
BJI	149.1	110	cPKP	22 08 27.0	0.0
DL2	150.8	118	cPKP	22 08 35.9	6.3
SNY	154.1	117	cPKP	22 08 40.4	6.1
CN2	156.5	117	cPKP	22 08 36.4	−1.1
MDJ	159.0	121	cPKP	22 08 49.0	8.3

1986 6 20
O=22 09 06.1 ± 0.18s
LAT=58.75 S ± 2.95km
LONG= 25.04 W ± 4.08km
DEPTH= 29 km ± 0.75km
STATIONS USED = 15, STAND DEV= 3.03s

TIA	146.6	116	+PKP	22 28 45.7	1.2
BJI	149.2	110	cPKP	22 28 53.0	4.4

1986 6 20
O=23 32 42.7 ± 0.11s
LAT=41.26 S ± 1.28km
LONG= 43.65 E ± 1.60km
DEPTH= 9 km ± 0.34km
STATIONS USED = 12, STAND DEV= 1.37s

KMI	85.8	51	cP	23 45 24.5	−0.2
GYA	89.1	53	P	23 45 41.0	0.2
GTA	95.2	40	cP	23 46 08.0	−0.8

1986 6 21
O=01 32 27.5 ± 0.04s
LAT=51.11 N ± 1.38km
LONG=178.82 W ± 0.52km
DEPTH= 31 km ± 0.15km
STATIONS USED = 28, STAND DEV= 0.67s

SNY	39.8	280	cP	01 40 00.7	0.7
XAN	53.7	281	cP	01 41 48.8	−0.6
GTA	55.7	292	P	01 42 04.1	0.3
WMQ	59.5	303	+iP	01 42 31.0	0.2
GYA	60.3	276	P	01 42 36.4	−0.3

1986 6 21
O=01 37 57.3 ± 0.23s
LAT=26.41 S ± 3.09km
LONG=114.62 W ± 5.01km
DEPTH= 13 km ± 1.10km
STATIONS USED = 15, STAND DEV= 2.43s

GYA	143.1	280	+PKP	01 57 29.6	−2.6
KMI	146.4	276	cP	01 57 40.0	1.9
GTA	148.5	303	PKP	01 57 45.0	3.6
WMQ	154.9	320	PKP	01 58 15.6	26.3

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1986 6 21
O=01 49 56.3 ± 0.15s
LAT=26.44 S ± 3.20km
LONG=114.25 W ± 3.64km
DEPTH= 5 km ± 0.70km
STATIONS USED = 23, STAND DEV= 2.14s

GYA	143.5	279	+PKP	02 09 30.0	−3.3		
LZH	146.2	296	ePKP	02 09 39.0	0.9		
			PMZ			1.5	0.050
CD2	146.5	287	(PKP)	02 09 37.6	−0.8		
KMI	146.7	276	+PKP	02 09 41.0	1.9		
GTA	148.8	303	−iPKP	02 09 45.4	3.1		

1986 6 21
O=01 59 03.2 ± 0.16s
LAT=26.31 S ± 3.51km
LONG=114.25 W ± 4.27km
DEPTH= 10 km ± 0.78km
STATIONS USED = 17, STAND DEV= 2.92s

GYA	143.5	280	PKP	02 18 41.0	1.8		
LZH	146.2	296	ePKP	02 18 50.0	6.1		
CD2	146.4	287	(PKP)	02 18 43.0	−1.3		
KMI	146.7	276	ePKP	02 18 43.5	−1.4		
GTA	148.7	303	PKP	02 18 50.2	2.1		

1986 6 21
O=05 30 06.6 ± 0.12s
LAT=26.05 N ± 1.14km
LONG=100.32 E ± 1.10km
DEPTH= 26 km ± 0.50km
STATIONS USED = 8, STAND DEV= 4.18s
M_L=3.3/ 4,

KMI	2.4	112	−Pg	05 30 45.5	−3.6		
			Sg	05 31 15.0	−6.4		
			SMN	M_L=3.9		1.2	1.19
			SME			1.2	0.25
CD2	5.7	31	Pg	05 31 50.6	2.9		

1986 6 21
O=09 12 41.0 ± 0.84s
LAT=24.68 N ± 6.24km
LONG=121.02 E ± 4.99km
DEPTH= 3 km ± 0.67km
STATIONS USED = 9, STAND DEV= 2.51s
M_L=3.3/ 5,

QZH	2.2	277	cPn	09 13 19.0	0.0		
			Sg	09 13 53.7	3.2		
			SMN	M_L=3.1		0.7	0.16
			SME			1.0	0.080
SSE	6.4	1	cPn	09 14 17.4	1.1		
			LE			1.2	0.020

1986 6 21
O=09 13 41.8 ± 0.12s
LAT=40.08 N ± 0.89km
LONG= 77.68 E ± 0.53km
DEPTH= 24 km ± 1.15km
STATIONS USED = 10, STAND DEV= 2.86s
M_L=4.3/ 5,

KSH	1.4	245	+iPg	09 14 07.2	−0.7		
			iSg	09 14 27.4	−0.3		
			SMN	M_L=4.3		0.5	4.80
			SME			0.5	3.80
WMQ	8.3	60	P	09 15 44.5	0.0		
			S	09 17 16.7	−1.9		
			SME	M_L=4.1		0.5	0.050
XAN	25.6	94	+P	09 19 11.4	0.4		

1986 6 21
O=09 13 41.0 ± 0.13s
LAT=39.97 N ± 0.52km
LONG= 77.63 E ± 0.63km
DEPTH= 34 km ± 1.16km
STATIONS USED = 12, STAND DEV= 2.66s
M_L=4.2/ 4,

KSH	1.4	249	+iPg	09 14 07.2	1.1		
			iSg	09 14 27.4	2.3		
			SMN	M_L=4.3		0.5	4.80
			SME			0.5	3.80
WMQ	8.4	60	Pn	09 15 44.5	3.1		
			Sn	09 17 16.7	−0.6		
			SME	M_L=4.2		0.5	0.050
XAN	25.6	93	+P	09 19 11.4	2.2		

1986 6 21
O=09 25 10.2 ± 0.08s
LAT= 5.36 N ± 1.01km
LONG=126.62 E ± 2.53km
DEPTH= 73 km ± 0.54km
STATIONS USED = 41, STAND DEV= 1.19s

SSE	26.1	349	cP	09 30 40.0	0.8
NJ2	27.5	346	cP	09 30 51.5	−0.8
GYA	28.3	320	cP	09 31 01.6	1.7
KMI	30.2	313	−P	09 31 16.5	0.2
XAN	32.9	332	+P	09 31 38.3	−1.8
CD2	33.3	323	P	09 31 42.4	−0.8
DL2	33.7	353	cP	09 31 47.3	0.6
TIY	34.7	340	cP	09 31 54.7	−0.8
BJI	35.8	346	cP	09 32 05.0	0.5
SNY	36.4	356	cP	09 32 10.8	1.0

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HHC	37.8	341	eP	09 32 22.0	0.2	
BTO	38.1	339	eP	09 32 24.3	0.0	
MDJ	39.2	3	eP	09 32 34.2	1.2	

1986 6 21
O = 09 59 33.5 ± 0.18s
LAT = 40.97 N ± 2.30km
LONG = 98.37 E ± 1.63km
DEPTH = 24 km ± 0.65km
STATIONS USED = 6, STAND DEV = 5.30s
M_L = 3.8 / 6,

GTA	1.9	144	Pg	10 00 08.1	0.5	
			Sg	10 00 30.2	−3.4	
			SMN	M_L = 3.1	0.6	0.18
			SME		0.6	0.18

1986 6 21
O = 10 00 18.6 ± 0.11s
LAT = 38.80 N ± 1.13km
LONG = 101.22 E ± 0.92km
DEPTH = 7 km ± 0.28km
STATIONS USED = 5, STAND DEV = 4.90s
M_L = 2.9 / 5,

GTA	1.3	300	(Pg)	10 00 42.4	1.4	
			Sg	10 01 04.5	6.5	
			SMN	M_L = 2.9	0.6	0.18
			SME		0.6	0.24
LZH	3.4	142	Pg	10 01 20.5	1.3	
			Sg	10 02 07.7	2.0	
			SMN	M_L = 3.3	1.0	0.090
			SME		1.4	0.11

1986 6 21
O = 10 13 37.7 ± 0.11s
LAT = 25.97 N ± 1.09km
LONG = 100.39 E ± 0.79km
DEPTH = 1 km ± 0.67km
STATIONS USED = 6, STAND DEV = 4.57s
M_L = 3.4 / 3,

KMI	2.3	111	+Pg	10 14 18.0	−0.3	
			Sg	10 14 48.5	−0.8	
			SMN	M_L = 3.8	1.0	0.070
			SME		1.0	1.10

1986 6 21
O = 12 07 29.5 ± 0.07s
LAT = 60.12 N ± 1.88km
LONG = 153.32 W ± 0.74km
DEPTH = 99 km ± 0.72km
STATIONS USED = 41, STAND DEV = 0.93s

MDJ	46.7	287	eP	12 15 51.0	0.4
CN2	49.3	289	−P	12 16 10.4	−0.2
SNY	51.7	289	+iP	12 16 29.2	0.4
BJI	56.5	293	eP	12 17 04.5	0.1
TIY	60.1	294	P	12 17 29.8	0.3
NJ2	61.8	286	−P	12 17 40.0	−0.3
GTA	64.2	305	−iP	12 17 56.9	0.0
XAN	64.8	295	−P	12 17 59.8	−0.5
WMQ	65.1	316	P	12 18 03.0	0.7
WHN	65.2	288	−P	12 18 02.5	−0.2
LZH	65.3	300	P	12 18 04.0	0.0
GYA	72.2	292	P	12 18 46.4	0.0

1986 6 21
O = 15 38 53.5 ± 0.08s
LAT = 51.62 N ± 2.81km
LONG = 175.01 W ± 1.08km
DEPTH = 31 km ± 0.20km
STATIONS USED = 40, STAND DEV = 1.05s

MDJ	36.9	281	cP	15 46 01.0	−0.3
CN2	39.8	283	+P	15 46 25.8	−0.2
			cS	15 52 30.0	1.5
SNY	42.1	282	−iP	15 46 46.2	1.7
BJI	47.6	284	eP	15 47 30.0	0.9
TIA	49.5	280	eP	15 47 43.5	0.1
BTO	51.0	289	P	15 47 56.0	1.1
NJ2	51.2	274	−P	15 47 55.0	−1.3
TIY	51.4	284	P	15 47 58.8	0.9
XAN	55.9	283	eP	15 48 31.0	−0.5
LZH	57.6	289	eP	15 48 43.0	−0.4
GTA	57.7	294	P	15 48 42.9	−1.1
WMQ	61.2	305	P	15 49 08.0	−0.2
GYA	62.6	279	P	15 49 18.6	0.5
KMI	66.0	281	eP	15 49 40.0	−0.2
LSA	69.6	292	iP	15 50 03.4	0.8

1986 6 21
O = 19 33 08.9 ± 0.12s
LAT = 58.72 S ± 3.43km
LONG = 25.16 W ± 3.70km
DEPTH = 0 km ± 0.27km
STATIONS USED = 27, STAND DEV = 3.24s

GTA	140.5	94	cPKP	19 52 42.0	0.4
XAN	141.0	109	cPKP	19 52 35.0	−7.4
NJ2	144.0	122	+PKP	19 52 45.5	−2.0
TIY	145.6	109	PKP	19 52 49.0	−1.4
TIA	146.7	116	+PKP	19 52 53.1	0.9
BJI	149.2	110	cPKP	19 52 59.5	3.2

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O = 20 33 39.9 ± 0.08s
LAT = 5.61 S ± 1.03km
LONG = 131.15 E ± 1.46km
DEPTH = 95 km ± 0.36km
STATIONS USED = 78, STAND DEV = 0.95s

GZH	33.4	329	−P	20 40 11.5	−0.3		
SSE	37.7	346	P	20 40 48.7	0.4		
			PMZ			1.0	0.020
NJ2	39.2	343	−P	20 41 02.0	1.1		
WHN	39.4	337	+P	20 41 03.0	0.9		
GYA	39.7	324	+P	20 41 05.6	0.4		
KMI	41.2	319	+iP	20 41 18.5	1.3		
TIA	43.6	343	eP	20 41 36.5	−0.5		
XAN	44.7	333	+iP	20 41 45.0	−0.5		
CD2	44.8	326	eP	20 41 46.1	−0.1		
TIY	46.5	339	P	20 42 00.0	0.1		
BJI	47.5	344	eP	20 42 07.0	−0.5		
LZH	48.7	330	+P	20 42 18.0	0.5		
			PMZ			2.0	0.070
CN2	49.4	355	+P	20 42 21.6	−1.2		
HHC	49.6	340	−iP	20 42 24.6	0.5		
BTO	49.9	339	eP	20 42 25.0	−1.5		
MDJ	50.0	359	eP	20 42 27.0	−0.1		
LSA	52.0	315	P	20 42 42.8	0.1		
GTA	53.3	330	+iP	20 42 52.2	0.0		
WMQ	62.9	326	+iP	20 43 59.0	0.2		

1986 6 21
O = 22 33 12.4 ± 0.22s
LAT = 19.93 S ± 4.06km
LONG = 66.69 E ± 3.65km
DEPTH = 10 km ± 0.36km
STATIONS USED = 43, STAND DEV = 1.46s
Ms = 5.1 / 3,

LSA	54.7	26	P	22 42 47.0	2.0		
KMI	56.9	40	+P	22 43 01.5	0.9		
			eS	22 50 54.0	1.1		
			sS	22 51 03.0	1.3		
KSH	59.7	8	eP	22 43 19.7	−0.6		
			eS	22 51 24.7	−5.1		
GYA	60.3	42	P	22 43 24.4	0.4		
CD2	61.8	36	(P)	22 43 28.2	−6.5		
LZH	65.9	32	eP	22 44 00.5	−0.8		
WMQ	66.3	16	+iP	22 44 03.5	−0.4		
			(S)	22 52 57.0	4.6		
GTA	66.7	27	+P	22 44 06.2	−0.1		
XAN	67.1	37	P	22 44 08.2	−0.5		
			sP	22 44 15.2	−1.7		
WHN	68.0	43	eP	22 44 15.5	1.2		
TIY	71.7	37	eP	22 44 37.0	−0.2		
			(S)	22 53 49.0	−7.2		
			sS	22 54 06.0	0.8		
			LE	Ms = 5.2		17.0	0.67
NJ2	71.9	45	eP	22 44 38.4	0.2		
BTO	72.5	33	eP	22 44 42.0	0.2		
			sP	22 44 49.0	−0.9		
			eS	22 54 03.0	−2.1		
TIA	73.4	41	eP	22 44 47.4	0.0		
			LE	Ms = 4.9		34.0	0.68
HHC	73.4	34	P	22 44 48.6	0.9		
SNY	80.9	39	eP	22 45 29.2	0.3		
			eS	22 55 28.0	−8.4		
			LN	Ms = 5.1		26.0	0.61
			LE			24.0	0.45
CN2	83.1	39	+P	22 45 39.4	−1.4		
			sP	22 45 46.8	−2.0		
			eS	22 55 52.0	−7.8		
MDJ	86.0	40	eP	22 45 53.0	−2.4		

1986 6 22
O = 05 28 52.0 ± 0.09s
LAT = 51.36 N ± 2.97km
LONG = 175.26 W ± 1.18km
DEPTH = 32 km ± 0.16km
STATIONS USED = 75, STAND DEV = 1.47s
Ms = 5.2 / 22, m_B = 5.5 / 6

MDJ	36.8	282	eP	05 35 58.5	−0.4		
			eS	05 41 40.0	−0.5		
CN2	39.7	283	−P	05 36 23.0	−0.6		
			PMZ	m_B = 5.7		4.0	0.50
			ePP	05 37 57.0	−2.2		
			eS	05 42 21.0	−4.4		
			LN	Ms = 5.4		18.0	2.90
SNY	42.0	282	+iP	05 36 43.0	0.9		
			S	05 42 55.0	−2.7		
			LN	Ms = 5.2		19.0	1.20
			LE			20.0	1.61
DL2	44.9	280	eP	05 37 06.5	0.7		
BJI	47.5	284	eP	05 37 27.0	0.2		
			esS	05 44 38.0	3.7		
			LN	Ms = 5.3		19.0	1.85
TIA	49.4	280	eP	05 37 40.8	−0.2		
			eS	05 44 42.5	−2.3		
			esS	05 45 04.0	4.0		
			LE	Ms = 5.2		15.0	1.05
SSE	50.2	272	eP	05 37 48.2	0.7		
			PMZ			1.0	0.030
			(S)	05 45 02.0	5.4		
			esS	05 45 14.0	2.1		
			LE	Ms = 4.8		20.0	0.57

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BTO	50.9	289	−iP	05 37 54.0	1.2		
			cPP	05 39 50.0	0.9		
			S	05 45 05.0	0.2		
			LN	Ms = 5.3	16.0	1.40	
			LE		17.0	0.90	
NJ2	51.0	274	−P	05 37 55.0	1.3		
			PMZ	m_B = 5.5	6.0	0.40	
			PP	05 39 53.0	2.7		
			PPMZ		6.0	0.40	
			eS	05 45 10.0	2.2		
			LN	Ms = 5.1	15.0	0.90	
TIY	51.3	284	eP	05 37 55.0	−0.6		
			PMZ		1.2	0.070	
			pP	05 38 04.5	−0.2		
			S	05 45 13.5	3.5		
			sS	05 45 33.5	7.1		
			LN	Ms = 5.3	15.0	1.10	
			LE		15.0	0.57	
WHN	54.9	276	P	05 38 22.0	−0.2		
			SMN	m_B = 5.5	8.0	0.53	
			LN	Ms = 5.0	14.0	0.59	
XAN	55.8	283	P	05 38 28.6	−0.7		
			eS	05 46 19.0	5.8		
			LN	Ms = 5.1	15.0	0.80	
QZH	56.2	268	eP	05 38 31.5	0.0		
			eS	05 46 18.0	0.6		
			LN	Ms = 4.9	22.0	0.64	
GTA	57.6	294	+P	05 38 41.4	−0.7		
			sS	05 46 52.0	0.0		
			LN	Ms = 5.5	20.0	2.16	
GZH	60.8	271	eP	05 39 04.5	0.6		
CD2	61.1	284	eP	05 39 06.0	−0.4		
			(S)	05 47 26.0	3.6		
WMQ	61.2	305	eP	05 39 06.4	−0.4		
GYA	62.5	279	P	05 39 15.6	−0.1		
			S	05 47 33.0	−5.5		
			LE	Ms = 5.2	20.0	1.10	
KMI	65.9	281	+P	05 39 38.0	0.1		
LSA	69.5	292	P	05 40 01.4	0.7		
KSH	70.3	309	eP	05 40 05.0	−0.2		
			eS	05 49 09.5	−5.0		
			LE	Ms = 5.8	16.0	3.00	

1986 6 22
O = 08 50 41.9 ± 0.13s
LAT = 23.87 N ± 1.54km
LONG = 121.57 E ± 1.77km
DEPTH = 5 km ± 1.22km
STATIONS USED = 14, STAND DEV = 3.09s
Ms = 3.6 / 2, M_L = 3.6 / 3,

QZH	2.9	292	−Pn	08 51 27.6	−1.7		
			Sg	08 52 04.0	−9.3		
			SMN	M_L = 3.6		0.6	0.20
			SME			1.2	0.34
			LN			8.0	0.62
SSE	7.2	357	ePn	08 52 29.0	0.7		
			eLG_2	08 54 36.0	−3.8		
			LN	Ms = 3.3		10.0	0.22
NJ2	8.5	344	eP	08 52 48.4	−0.4		
			eS	08 54 21.0	−5.1		
			LN	Ms = 3.9		9.0	0.60
GYA	13.7	284	P	08 53 59.8	−0.5		

1986 6 22
O = 08 50 50.8 ± 0.57s
LAT = 24.38 N ± 5.00km
LONG = 120.94 E ± 3.83km
DEPTH = 7 km ± 1.07km
STATIONS USED = 10, STAND DEV = 2.73s
Ms = 3.5 / 2, M_L = 3.4 / 3,

QZH	2.2	285	−Pn	08 51 27.6	−0.5		
			Sg	08 52 04.0	4.1		
			SMN	M_L = 3.4		0.6	0.20
			SME			1.2	0.34
			LN			8.0	0.62
SSE	6.7	2	ePn	08 52 29.0	−0.8		
			LN	Ms = 3.2		10.0	0.22
NJ2	7.9	347	ePn	08 52 48.4	2.6		
			eSn	08 54 21.0	3.5		
			LN	Ms = 3.8		9.0	0.60
GYA	13.1	282	P	08 53 59.8	−0.1		

1986 6 22
O = 13 28 14.7 ± 0.09s
LAT = 2.32 S ± 1.39km
LONG = 138.76 E ± 2.20km
DEPTH = 33 km ± 0.21km
STATIONS USED = 44, STAND DEV = 1.59s
Ms = 4.7 / 1,

NJ2	39.1	333	cP	13 35 41.2	0.7
GYA	42.2	315	P	13 36 08.0	1.5
KMI	44.3	310	eP	13 36 24.5	0.6
XAN	45.8	325	P	13 36 35.2	−0.4
CD2	46.9	318	eP	13 36 45.5	1.0
BJI	47.0	336	eP	13 36 44.0	−0.7
MDJ	47.4	351	eP	13 36 48.0	−0.5
CN2	47.4	347	eP	13 36 47.0	−1.5
			eS	13 43 32.0	−8.1
BTO	50.1	332	eP	13 37 09.5	0.0
			eS	13 44 16.0	−2.0

LZH	50.2	323	eP	13 37 10.5	0.4		
			PMZ			1.5	0.050
GTA	54.8	323	+P	13 37 44.2	−0.1		
LSA	55.5	309	iP	13 37 50.0	0.2		
WMQ	64.7	321	eP	13 38 52.5	−0.1		

1986 6 22
O = 15 35 21.1 ± 0.10s
LAT = 51.47 N ± 4.12km
LONG = 175.36 W ± 1.75km
DEPTH = 32 km ± 0.67km
STATIONS USED = 32, STAND DEV = 2.69s

CN2	39.6	283	eP	15 42 51.0	−1.0		
SNY	41.9	282	−iP	15 43 12.5	2.0		
BJI	47.5	284	eP	15 43 55.0	−0.2		
BTO	50.8	289	P	15 44 22.4	1.3		
TIY	51.2	284	eP	15 44 25.0	1.0		
XAN	55.8	283	eP	15 44 47.5	−10.2		
GTA	57.5	294	P	15 45 09.4	−1.1		
WMQ	61.1	305	P	15 45 34.4	−0.7		
GYA	62.5	279	P	15 45 49.0	4.8		

1986 6 22
O = 16 20 36.8 ± 0.03s
LAT = 45.52 N ± 0.51km
LONG = 114.80 E ± 0.42km
DEPTH = 16 km ± 0.02km
STATIONS USED = 14, STAND DEV = 4.07s
M_L = 4.3 / 12,

HHC	5.2	208	Pn	16 22 01.4	6.3		
			Pg	16 22 14.0	4.7		
			Sg	16 23 18.6	−2.3		
			SMN	M_L = 4.7		0.8	0.70
			SME			1.0	0.87
BJI	5.6	169	cPn	16 22 01.0	1.5		
			Pg	16 22 18.5	3.3		
			cSn	16 23 01.0	−4.4		
			cSg	16 23 33.0	1.7		
			SMN	M_L = 4.4		0.5	0.29
			SME			0.5	0.37
BTO	6.0	217	cPn	16 22 09.0	2.9		
			Pg	16 22 27.3	3.8		
			Sn	16 23 13.0	−4.0		
			Sg	16 23 43.0	−3.1		
			SMN	M_L = 4.1		0.5	0.14
			SME			0.5	0.14
SNY	7.4	117	cPg	16 22 57.3	10.7		
			Sg	16 24 23.4	−3.8		
			SMN	M_L = 4.3		1.0	0.10
			SME			1.1	0.11
CN2	7.8	99	Pg	16 23 09.2	15.0		
			Sn	16 23 53.6	−6.6		
			Sg	16 24 38.3	−2.3		
			SMN	M_L = 4.1		1.0	0.050
			SME			1.0	0.080
GTA	12.6	246	eP	16 23 37.8	−1.4		
			LN			1.5	0.040

1986 6 22
O = 18 01 54.7 ± 0.09s
LAT = 51.49 N ± 3.72km
LONG = 175.82 W ± 1.75km
DEPTH = 26 km ± 0.78km
STATIONS USED = 35, STAND DEV = 1.34s

CN2	39.4	283	eP	18 09 23.0	−1.0		
			eS	18 15 17.0	−6.8		
SNY	41.6	281	eP	18 09 43.2	0.7		
BJI	47.2	284	eP	18 10 28.5	1.1		
TIA	49.0	279	eP	18 10 42.6	1.0		
NJ2	50.7	274	eP	18 10 55.0	0.6		
TIY	50.9	284	eP	18 10 57.1	0.8		
XAN	55.5	283	eP	18 11 28.0	−2.1		
LZH	57.1	288	P	18 11 42.4	0.1		
			PMZ			2.0	0.060
GTA	57.2	294	eP	18 11 42.0	−1.0		
WMQ	60.8	305	+P	18 12 07.0	−0.8		
GYA	62.2	278	P	18 12 15.4	−1.4		
KMI	65.6	280	eP	18 12 38.0	−1.1		
LSA	69.1	292	−P	18 13 02.0	0.0		

1986 6 23
O = 08 12 34.8 ± 0.13s
LAT = 34.85 N ± 2.55km
LONG = 23.46 E ± 2.71km
DEPTH = 45 km ± 0.66km
STATIONS USED = 41, STAND DEV = 1.56s

WMQ	49.4	59	+P	08 21 23.2	0.8		
GTA	59.3	61	+iP	08 22 35.2	−0.2		
CD2	65.8	68	P	08 23 19.0	0.7		
GYA	70.2	71	P	08 23 45.0	−0.5		
BJI	70.5	54	eP	08 23 47.0	−0.2		
SNY	74.3	50	+P	08 24 09.8	−0.4		
CN2	74.4	47	eP	08 24 10.4	−0.3		

1986 6 23
O = 08 19 09.4 ± 0.31s
LAT = 23.94 N ± 3.96km
LONG = 121.04 E ± 3.18km
DEPTH = 0 km ± 1.68km
STATIONS USED = 8, STAND DEV = 4.42s

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			M_L=3.5/ 3,				
QZH	2.4	295	−iPn	08 19 51.8	1.2		
			Sn	08 20 25.8	2.7		
			SMN	M_L=3.4		0.1	0.23
			SME			0.1	0.24
GZH	7.1	265	e(P)	08 20 54.0	−3.2		
			eS	08 22 13.2	−6.5		

1986 6 23
O=08 50 15.9 ± 0.19s
LAT=26.29 N ± 2.27km
LONG= 96.90 E ± 1.66km
DEPTH= 32 km ± 0.26km
STATIONS USED = 69, STAND DEV= 2.76s
Ms=4.6/20, M_L=4.3/ 2,

KMI	5.4	101	ePn	08 51 41.0	6.2		
			Sg	08 53 00.0	−5.1		
			SMN			2.0	0.82
			SME			1.5	0.81
			LN	Ms=4.8		8.0	9.96
LSA	6.1	305	Pn	08 51 47.0	2.1		
			Sg	08 53 37.0	9.4		
			LE	Ms=3.9		9.0	1.17
CD2	7.6	51	ePn	08 52 09.8	5.1		
			LE	Ms=4.7		10.5	5.36
GYA	8.8	87	P	08 52 25.0	1.5		
			S	08 54 02.4	0.6		
			LN	Ms=4.6		9.0	3.40
LZH	11.4	30	P	08 52 59.0	−1.2		
			LN	Ms=4.6		8.0	1.69
XAN	12.9	51	P	08 53 17.2	−3.4		
			LG_1	08 57 04.0	1.4		
			LN	Ms=4.1		10.0	0.51
GTA	13.3	10	P	08 53 25.7	0.2		
			LN	Ms=4.5		11.0	1.67
GZH	15.3	99	(P)	08 53 58.0	7.0		
			LN	Ms=4.6		11.0	1.59
WHN	15.9	71	eP	08 54 00.0	0.6		
TIY	17.4	45	P	08 54 19.9	2.0		
			LG_1	08 59 29.5	7.3		
			LN	Ms=4.2		10.0	0.49
BTO	18.0	34	eP	08 54 23.0	−2.1		
			eS	08 57 37.0	−4.8		
			LN	Ms=4.7		11.0	1.20
			LE			11.0	0.50
WMQ	19.0	339	P	08 54 38.3	0.2		
NJ2	20.0	68	eP	08 54 48.0	−0.8		
BJI	21.1	45	eP	08 54 59.5	−0.9		
			eS	08 58 52.0	3.2		
			LN	Ms=4.2		12.0	0.34
SSE	21.8	72	eP	08 55 06.5	−0.9		
			PMZ			1.0	0.020
			eS	08 59 02.0	0.0		
			LE	Ms=4.5		14.0	0.76
KSH	21.9	312	P	08 55 10.0	1.9		
			eS	08 59 11.0	7.8		
			LN	Ms=4.8		12.0	1.50
SNY	26.9	48	−P	08 55 54.4	−1.4		
CN2	29.0	46	eP	08 56 13.4	−1.6		

1986 6 23
O=11 24 17.8 ± 0.05s
LAT= 4.94 N ± 0.74km
LONG=123.62 E ± 1.66km
DEPTH=521 km ± 0.09km
STATIONS USED = 22, STAND DEV= 1.08s

GTA	40.5	331	−P	11 31 13.3	0.4		

1986 6 23
O=17 19 29.4 ± 0.14s
LAT=31.07 N ± 2.04km
LONG= 86.87 E ± 1.71km
DEPTH= 34 km ± 0.18km
STATIONS USED = 64, STAND DEV= 2.03s
Ms=4.8/20,

LSA	3.9	109	Pn	< 17 20 33.0	4.7		
			Pg	17 20 43.0	3.9		
			LN	Ms=4.8		7.0	13.4
			LE			7.0	6.03
KSH	12.2	316	eP	17 22 24.9	0.8		
			eS	17 24 44.9	4.7		
			LE	Ms=5.3		6.0	6.50
GTA	13.4	48	eP	17 22 35.0	−5.6		
CD2	14.5	86	eP	17 22 53.6	−0.6		
			LN	Ms=4.8		11.0	2.63
LZH	15.0	66	P	17 23 06.0	5.0		
			PMZ			1.5	0.050
			LG_2	17 27 40.0	−4.3		
			LN	Ms=4.8		10.0	2.20
KMI	15.2	109	eP	17 23 04.0	0.4		
			eS	17 25 48.0	−3.7		
			LN	Ms=4.7		11.0	2.09
GYA	17.9	100	−P	17 23 37.2	−1.1		
			pP	17 23 40.0	−5.9		
			S	17 26 55.2	1.3		
			LG_2	17 29 31.0	9.6		
			LE	Ms=4.7		12.0	1.60
XAN	18.8	75	+P	17 23 46.5	−2.4		
			LN	Ms=4.6		11.0	0.92
			LE			10.0	0.64

BTO	21.0	57	−iP	17 24 11.8	−0.7		
			cPP	17 24 32.0	−3.0		
			eS	17 27 57.0	−2.7		
			LN	Ms=4.6		11.0	0.70
			LE			11.0	0.40
TIY	22.1	66	eP	17 24 23.0	−0.4		
			S	17 28 24.0	5.0		
			sS	17 28 34.5	0.1		
			LN	Ms=4.8		12.0	1.54
HHC	22.2	57	+P	17 24 24.5	0.0		
WHN	23.6	84	eP	17 24 39.5	1.4		
			LN	Ms=4.9		9.0	1.07
GZH	24.8	102	e(P)	17 24 51.0	0.8		
BJI	25.4	61	eP	17 24 57.0	1.6		
			(S)	17 29 20.0	2.7		
			LN	Ms=4.8		14.0	1.17
TIA	25.6	70	eP	17 24 58.3	0.3		
			eS	17 29 19.5	−2.3		
			LN	Ms=4.6		11.0	0.50
			LE			11.0	0.47
NJ2	27.2	80	eP	17 25 12.0	−0.5		
			LN	Ms=5.0		11.0	1.30
DL2	29.4	65	eP	17 25 32.0	0.0		
			LN	Ms=4.7		12.0	0.68
SNY	31.2	60	eP	17 25 47.4	−0.7		
CN2	32.9	56	−P	17 26 02.4	−0.3		
			eS	17 31 17.0	0.0		
			LN	Ms=4.8		12.0	0.80

1986 6 23
O=20 35 21.1 ± 0.12s
LAT= 5.90 S ± 1.39km
LONG=148.91 E ± 1.94km
DEPTH= 86 km ± 0.35km
STATIONS USED = 41, STAND DEV= 1.55s

NJ2	47.4	325	eP	20 43 52.0	3.2		
TIA	51.4	327	eP	20 44 18.2	−1.6		
SNY	52.8	336	−P	20 44 30.8	0.3		
MDJ	53.2	343	eP	20 44 33.0	−0.2		
CN2	53.8	339	eP	20 44 38.4	0.6		
BJI	54.8	329	eP	20 44 45.0	0.4		
XAN	54.8	319	eP	20 44 44.0	−1.2		
CD2	56.6	313	(P)	20 44 56.5	−1.2		
LZH	59.4	318	P	20 45 20.6	3.1		
GTA	63.9	319	eP	20 45 46.6	−1.1		
WMQ	74.0	319	eP	20 46 50.4	0.7		

1986 6 23
O=20 55 56.9 ± 0.08s
LAT=36.95 N ± 2.29km
LONG=141.72 E ± 1.97km
DEPTH= 42 km ± 1.46km
STATIONS USED = 56, STAND DEV= 2.78s
Ms=3.9/ 3,

MDJ	12.0	314	eP	20 58 52.0	4.2		
CN2	14.2	304	−P	20 59 17.0	0.1		
SNY	14.8	295	eP	20 59 26.5	0.6		
SSE	18.0	257	eP	21 00 13.0	7.4		
			LE	Ms=3.9		20.0	0.46
NJ2	19.5	262	eP	21 00 20.0	−3.0		
TIA	19.8	275	eP	21 00 24.9	−1.5		
BJI	20.2	287	eP	21 00 30.0	−1.2		
TIY	23.3	281	eP	21 01 01.0	−0.9		
			LE	Ms=4.2		13.0	0.35
WHN	23.6	262	eP	21 01 05.0	0.0		
BTO	24.9	288	eP	21 01 18.6	0.6		
XAN	26.8	274	−P	21 01 35.3	−0.1		
GZH	28.1	248	eP	21 01 37.5	−9.4		
LZH	30.3	280	P	21 02 07.5	0.2		
GYA	31.4	261	−P	21 02 17.0	−0.2		
CD2	31.9	270	P	21 02 20.8	−0.5		
GTA	32.8	287	P	21 02 28.8	−0.4		
KMI	35.2	262	eP	21 02 49.5	−0.2		
WMQ	41.1	297	P	21 03 40.6	1.7		
LSA	42.5	275	eP	21 03 51.6	1.1		

1986 6 24
O=01 53 34.2 ± 0.16s
LAT=34.90 S ± 6.72km
LONG=105.97 W ± 3.86km
DEPTH= 3 km ± 1.05km
STATIONS USED = 24, STAND DEV= 3.46s

TIA	145.1	285	eP	02 13 10.7	−3.6		
WHN	146.0	274	eP	02 13 15.0	−0.7		
BJI	146.4	291	eP	02 13 15.0	−1.5		
TIY	149.1	287	eP	02 13 19.7	−1.2		
GYA	150.8	262	−P	02 13 28.0	4.3		
XAN	151.3	278	eP	02 13 28.0	3.6		

1986 6 24
O=01 58 16.7 ± 0.08s
LAT=26.07 N ± 0.51km
LONG=100.21 E ± 0.59km
DEPTH= 10 km ± 0.62km
STATIONS USED = 9, STAND DEV= 2.33s
M_L=3.6/ 4,

KMI	2.5	112	−Pg	01 59 02.5	1.9		
			Sg	01 59 36.5	2.5		
			SMN	M_L=3.6		1.2	0.31
			SME			1.2	0.41

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CD2	5.7	32	ePn	01 59 44.0	1.5			
			Sg	02 01 13.0	−3.7			
GYA	5.8	85	ePg	01 59 57.0	−2.4			
			Sn	02 00 49.8	−2.4			
	1986 6 24							
	O = 02 53 09.2		± 0.08s					
	LAT = 34.85 N		± 1.55km					
	LONG = 140.47 E		± 1.52km					
	DEPTH = 57 km		± 0.47km					
	STATIONS USED = 104, STAND DEV = 1.83s							
	Ms = 6.3 / 48,			m_B = 6.4 / 25				
MDJ	12.8	323	−iP	02 56 12.0	0.7			
			pP	02 56 21.0	0.4			
			sP	02 56 30.0	1.7			
			iS	02 58 34.0	1.5			
CN2	14.6	312	−P	02 56 34.8	−0.1			
			PMZ	m_B = 6.3		7.0	3.90	
			cPP	02 56 48.0	1.1			
			cS	02 59 14.0	−1.4			
			LN	Ms = 6.1		11.0	50.0	
SNY	15.0	303	+iP	02 56 40.5	1.5			
			PMZ	m_B = 6.8		11.0	18.5	
			pP	02 56 50.5	1.7			
			iS	02 59 25.0	2.2			
			SMN	m_B = 5.9		10.0	6.11	
			SME			12.5	5.71	
			LN	Ms = 6.0		12.0	27.8	
			LE			13.0	31.7	
DL2	15.6	291	−iP	02 56 50.0	2.8			
			PMZ	m_B = 5.6		8.0	2.41	
			sP	02 57 09.0	4.5			
			SMN	m_B = 6.8		10.0	37.2	
			SME			10.0	25.0	
			sS	03 00 03.0	8.6			
			PcS	03 05 15.0	−5.2			
			eScS	03 08 52.0	1.0			
			LN	Ms = 6.5		14.0	117	
			LE			14.0	80.1	
SSE	16.6	262	−iP	02 57 02.0	2.2			
			PMZ			14.0	24.7	
			pP	02 57 12.0	1.8			
			PP	02 57 15.0	1.2			
			PcP	03 01 56.0	8.4			
			S	03 00 10.0	9.7			
			SMN	m_B = 6.6		12.0	33.2	
			SME			12.0	9.05	
			sS	03 00 20.0	2.2			
			LE	Ms = 6.3		15.0	94.4	
NJ2	18.3	267	−iP	02 57 22.0	1.8			
			pP	02 57 33.0	2.1			
			PP	02 57 40.0	4.6			
			S	03 00 41.0	3.6			
			SME	m_B = 6.3		10.0	11.5	
			LN	Ms = 6.5		13.0	103	
TIA	19.0	281	eP	02 57 28.3	−1.4			
			PMZ	m_B = 5.8		9.0	4.48	
			pP	02 57 39.5	−1.1			
			S	03 00 52.3	−2.8			
			SMN			14.0	18.7	
			SME			13.0	25.6	
			LN	Ms = 6.4		15.0	35.5	
			LE			16.0	81.0	
BJI	20.0	292	P	02 57 37.0	−2.4			
			cpP	02 57 51.0	−0.5			
			csP	02 57 58.0	−0.3			
			cS	03 01 15.0	−0.4			
			SME	m_B = 6.9		8.0	29.9	
			LN	Ms = 5.8		11.0	11.1	
			LE			12.0	8.77	
QZH	21.3	248	eP	02 57 53.5	−0.2			
			PMZ	m_B = 5.5		6.0	1.44	
			sP	02 58 12.0	−0.9			
			iS	03 01 42.0	0.2			
			SMN	m_B = 6.3		8.0	7.30	
			sS	03 02 08.0	5.0			
			LN	Ms = 6.1		16.0	39.5	
			LE			16.0	12.7	
WHN	22.4	266	+P	02 58 04.0	0.0			
			PMZ			1.0	0.67	
			sP	02 58 24.0	0.7			
			iS	03 02 04.0	3.2			
			SMN	m_B = 6.8		8.0	22.9	
			LN	Ms = 6.3		13.0	50.7	
TIY	22.7	285	−iP	02 58 07.0	−0.8			
			PMZ	m_B = 6.1		7.0	6.08	
			sP	02 58 26.0	−1.0			
			PP	02 58 39.0	2.0			
			PPMZ			9.0	17.0	
			PcP	03 01 58.5	−0.1			
			S	03 02 08.5	1.7			
			sS	03 02 34.5	4.8			
			SS	03 02 56.0	3.6			
			ScP	03 05 25.0	−4.7			
			LN	Ms = 6.3		12.5	43.3	
			LE			10.0	15.7	
HHC	23.5	293	−iP	02 58 15.0	−0.5			
			pP	02 58 27.0	−1.4			
			sP	02 58 38.0	3.3			
			PP	02 58 49.0	0.9			

			PPMZ			7.0	7.76
			S	03 02 22.0	1.3		
			SMN	$m_B = 6.9$		10.0	9.94
			SME			10.0	27.1
			LN	Ms = 6.3		11.0	16.0
			LE			11.0	35.5
BTO	24.7	292	+P	02 58 24.0	−2.6		
			PMZ	$m_B = 5.9$		10.0	4.90
			sP	02 58 45.0	−0.8		
			iPP	02 59 00.5	−2.9		
			PPMZ			7.0	9.40
			S	03 02 37.0	−3.4		
			sS	03 03 01.0	−2.8		
			LN	Ms = 6.3		13.0	29.2
			LE			13.0	31.0
XAN	26.0	277	−P	02 58 38.0	−0.8		
			pP	02 58 53.0	1.1		
			sP	02 58 59.0	0.8		
			S	03 03 04.0	2.2		
			SMN			15.0	4.00
			SME			14.0	16.9
			sS	03 03 19.0	−6.7		
			LN	Ms = 6.4		16.0	45.7
			LE			16.0	25.7
GZH	26.4	251	+P	02 58 42.4	0.0		
			S	03 03 10.0	1.6		
			SMN			15.0	5.94
			SME			15.0	10.2
			LN	Ms = 6.3		11.0	21.2
			LE			12.0	19.5
LZH	29.7	283	−P	02 59 12.5	−0.5		
			PMZ			1.5	0.61
			sP	02 59 35.0	2.5		
			eS	03 03 58.0	−5.6		
			SME	$m_B = 6.4$		11.0	10.6
			LN	Ms = 6.3		10.0	25.2
GYA	30.2	263	P	02 59 14.0	−2.5		
			pP	02 59 30.0	0.1		
			sP	02 59 37.0	0.9		
			PP	03 00 11.0	−4.2		
			S	03 04 05.0	−3.8		
			sS	03 04 30.0	−3.2		
			ScP	03 05 53.0	1.5		
			LN	Ms = 6.6		15.0	62.1
CD2	31.0	273	cP	02 59 22.6	−1.1		
			sP	02 59 44.0	0.7		
			S	03 04 13.0	−8.6		
			LN	Ms = 6.8		20.0	132
GTA	32.5	290	P	02 59 37.1	−0.4		
			pP	02 59 54.0	3.2		
			PPMZ			16.0	13.7
			iS	03 04 42.0	−5.3		
			SME			13.0	11.9
			LE	Ms = 6.3		12.5	23.0
KMI	33.9	264	+iP	02 59 49.0	−0.5		
			pP	03 00 05.0	2.0		
			sP	03 00 10.5	1.4		
			PP	03 01 05.0	2.0		
			iS	03 05 08.0	−1.0		
			SMN	$m_B = 6.2$		10.0	5.50
			LN	Ms = 6.6		15.0	51.5
WMQ	41.2	299	−iP	03 00 52.0	1.7		
			PcS	03 06 37.0	−0.9		
			S	03 07 03.0	4.9		
			SMN	$m_B = 7.2$		8.0	13.6
			SME			7.0	28.4
			LN	Ms = 6.7		11.0	35.3
LSA	41.7	277	P	03 00 54.8	0.0		
			S	03 07 07.0	1.5		
			LE	Ms = 6.2		17.0	16.6
KSH	50.6	295	−iP	03 02 07.0	1.7		
			iS	03 09 10.0	−4.4		
			LE	Ms = 6.8		20.0	62.5

1986 6 24
O = 03 11 30.6 ± 0.14s
LAT = 4.45 S ± 2.24km
LONG = 143.97 E ± 2.04km
DEPTH = 101 km ± 0.35km
STATIONS USED = 99, STAND DEV = 1.50s
$m_B = 7.3 / 39$

QZH	38.2	321	+iP	03 18 43.5	0.9		
			PMZ	$m_B = 7.1$		4.0	14.2
			pP	03 19 10.5	4.8		
			PP	03 20 15.0	0.7		
			PPMZ			9.0	22.5
			ScP	03 24 22.5	−9.6		
			iS	03 24 28.5	−0.3		
			SMN	$m_B = 7.3$		10.0	53.8
			SME			10.0	29.2
			sS	03 25 15.0	6.2		
			LN			16.0	64.6
GZH	40.5	314	+iP	03 19 03.9	2.2		
			PMZ	$m_B = 7.0$		8.0	21.9
			ScP	03 24 46.0	5.0		
			iS	03 25 06.0	2.7		
			sS	03 25 50.0	6.5		
			SS	03 28 05.0	3.3		
			LN			15.0	81.8
			LE			14.0	83.3

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SSE	41.5	330	+iP	03 19 10.0	0.4			
			PMZ			1.0	0.76	
			PP	03 20 52.0	2.7			
			PcP	03 21 00.0	−5.5			
			ScP	03 24 48.0	3.2			
			PcS	03 25 02.0	6.6			
			iS	03 25 17.0	−0.6			
			SMN	$m_B = 7.3$		9.0	29.6	
			SME			10.0	42.4	
			sS	03 26 03.0	5.1			
			SS	03 28 26.0	4.9			
			ScS	03 28 56.0	−3.9			
			LN			14.0	28.7	
			LE			14.0	12.9	
NJ2	43.5	328	+iP	03 19 27.0	1.4			
			PP	03 21 13.0	3.7			
			PPMZ			8.0	20.6	
			ScP	03 24 55.6	2.9			
			iS	03 25 50.0	3.8			
			SMN	$m_B = 7.9$		8.0	95.6	
			SME			8.0	128	
WHN	44.9	323	+iP	03 19 38.5	1.6			
			PMZ			1.5	0.91	
			iS	03 26 06.0	−0.5			
			SMN	$m_B = 7.6$		12.0	116	
			SME			12.0	49.5	
			sS	03 26 55.0	7.7			
			ScS	03 29 20.0	−0.7			
			iSS	03 29 23.0	1.0			
GYA	47.4	312	+P	03 19 58.4	1.3			
			PMZ			1.8	1.90	
			ScP	03 25 06.0	−3.0			
			S	03 26 44.0	2.2			
			SMN	$m_B = 7.7$		10.0	99.3	
			SME			10.0	49.5	
			ScS	03 29 40.0	2.9			
			LN			18.0	145	
			LE			18.0	146	
TIA	47.6	330	+P	03 19 58.1	−0.5			
			PMZ	$m_B = 7.3$		9.0	36.4	
			pP	03 20 26.5	4.4			
			S	03 26 45.5	0.9			
			SMN	$m_B = 7.5$		10.0	14.7	
			SME			11.0	66.8	
			sS	03 27 29.5	2.7			
			ScS	03 29 44.6	6.1			
			LN			18.0	124	
			LE			18.0	104	
DL2	47.8	336	+iP	03 20 00.0	−0.3			
			PMZ	$m_B = 7.5$		6.0	38.3	
			pP	03 20 26.0	2.2			
			sP	03 20 40.0	4.3			
			PP	03 21 55.0	2.4			
			iS	03 26 48.0	−0.7			
			SMN	$m_B = 7.1$		10.0	29.9	
			SME			14.0	10.0	
			ScS	03 29 32.0	−7.9			
			cScS	03 29 41.0	1.1			
			LN			15.0	24.1	
			LE			13.0	50.7	
SNY	49.7	340	+iP	03 20 14.0	−0.4			
			pP	03 20 43.0	4.9			
			PP	03 22 09.0	−1.9			
			PPMZ			7.5	21.6	
			iS	03 27 15.0	0.7			
			SMN	$m_B = 7.0$		11.0	22.5	
			LN			17.0	49.1	
			LE			21.0	68.1	
KMI	49.7	308	+iP	03 20 16.0	1.3			
			PcP	03 21 34.0	0.0			
			PP	03 22 14.0	3.1			
			PPMZ			8.0	10.7	
			iS	03 27 16.5	1.6			
			SMN	$m_B = 7.3$		12.0	53.1	
			ScS	03 29 52.0	−0.1			
			SS	03 30 52.0	8.8			
MDJ	50.5	347	+iP	03 20 20.0	−1.0			
			pP	03 20 45.0	0.3			
			PcP	03 21 40.0	2.9			
			iS	03 27 20.0	−6.2			
			SME			14.0	34.0	
			sS	03 28 06.0	−1.6			
			ScS	03 29 58.5	0.7			
XAN	50.6	322	+iP	03 20 21.2	−0.4			
			PMZ	$m_B = 7.2$		10.0	33.8	
			pP	03 20 48.0	2.8			
			sP	03 21 00.0	2.9			
			PP	03 22 16.0	−3.4			
			S	03 27 27.5	1.4			
			SMN			14.0	59.9	
			SME			13.0	65.3	
			ScS	03 29 59.5	1.2			
			LN			12.0	8.40	
			LE			16.0	40.5	
CN2	50.8	343	+iP	03 20 22.0	−1.5			
			PMZ	$m_B = 7.3$		8.0	31.2	
			pP	03 20 50.0	2.8			
			sP	03 21 03.0	3.9			
			PP	03 22 17.0	−4.7			
			PPMZ			9.0	16.2	

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			S	03 27 27.0	−2.6		
			SME	m_B=7.2		11.0	31.0
			sS	03 28 17.5	5.4		
			SS	03 30 58.0	−5.0		
			LN			14.0	70.0
BJI	51.1	333	+iP	03 20 25.0	−0.5		
			pP	03 20 53.0	3.7		
			eS	03 27 34.0	−0.4		
			SMN	m_B=7.3		9.0	18.2
			SME			10.0	36.3
			sS	03 28 23.0	7.2		
			eScS	03 30 06.0	4.1		
			LN			16.0	43.7
			LE			18.0	87.7
TIY	51.2	328	+P	03 20 25.6	−0.4		
			PMZ			2.2	5.30
			pP	03 20 53.0	3.3		
			PcP	03 21 42.0	2.5		
			S	03 27 27.0	−7.1		
			SMN			15.0	76.8
			SME			9.0	33.4
			ScS	03 29 59.5	−2.8		
			LN			18.5	56.1
			LE			17.0	40.0
CD2	52.0	315	+P	03 20 33.0	0.4		
			S	03 27 50.0	4.0		
			SMN	m_B=8.0		10.0	185
			LN			13.0	73.6
HHC	54.0	330	+iP	03 20 46.0	−0.8		
			PMZ	m_B=7.4		7.0	35.8
			pP	03 21 16.0	5.4		
			S	03 28 15.0	3.1		
			SME	m_B=7.2		10.0	31.7
			LN			15.0	38.0
			LE			15.0	11.3
BTO	54.6	329	+iP	03 20 50.6	−0.6		
			PMZ	m_B=7.4		8.0	40.1
			pP	03 21 16.0	0.9		
			PP	03 22 53.0	−2.8		
			PPMZ			9.0	14.0
			iS	03 28 22.0	0.6		
			SMN	m_B=7.4		9.0	16.9
			SME			9.0	40.7
			sS	03 29 06.0	3.0		
			ScS	03 30 26.0	0.0		
			LN			16.0	54.0
			LE			17.0	43.3
LZH	55.1	320	+iP	03 20 55.0	−0.1		
			PMZ			2.5	7.01
			pP	03 21 23.0	4.1		
			PP	03 22 55.0	−5.2		
			S	03 28 31.0	3.9		
			SMN			13.0	72.4
			PS	03 29 09.0			
			sS	03 29 18.0	7.9		
			LN			12.0	29.2
			LE			13.0	21.4
GTA	59.6	321	+iP	03 21 26.9	−0.2		
			PMZ	m_B=7.0		9.0	18.2
			pP	03 21 54.1	2.8		
			sP	03 22 07.0	4.1		
			PP	03 23 50.0	9.1		
			iS	03 29 27.0	−1.3		
			SMN	m_B=7.3		12.0	41.0
			SME			12.0	45.5
			sS	03 30 12.0	1.7		
			SS	03 33 27.5	2.4		
			LN			14.0	18.2
LSA	60.9	308	+P	03 21 36.0	0.0		
			S	03 29 45.0	2.0		
			SME	m_B=7.5		10.0	75.8
WMQ	69.7	320	+iP	03 22 31.0	−1.0		
			PMZ	m_B=7.2		8.0	28.9
			sP	03 23 13.0	4.7		
			PP	03 25 10.0	1.7		
			PPMZ			9.0	12.4
			S	03 31 32.0	1.9		
			SMN	m_B=7.3		10.0	40.7
			PS	03 32 15.0			
KSH	76.1	312	cP	03 23 11.0	1.3		
			iS	03 32 44.0	−0.2		
			LN			16.0	133

1986 6 24

O = 03 45 12.9 ± 0.23s

LAT = 24.20 N ± 1.69km

LONG = 121.52 E ± 1.57km

DEPTH = 6 km ± 0.55km

STATIONS USED = 30, STAND DEV = 2.95s

M_L=4.3 / 8,

QZH	2.8	286	cPn	03 45 58.1	0.0		
			SMN	M_L=4.3		1.4	1.98
			SME			1.0	0.92
SSE	6.9	358	cPn	03 46 51.8	−2.8		
			cLG_2	03 49 06.0	6.1		
			LN			1.2	0.090
			LE			1.2	0.12
GZH	7.6	263	cPn	03 47 04.5	0.3		
			cSn	03 48 25.5	−7.5		
			LN			1.2	0.47

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			LE			1.0	0.11
NJ2	8.2	344	+P	03 47 12.5	−2.6		
			S	03 48 48.0	−0.5		
			LN			1.0	0.30
WHN	9.0	316	eP	03 47 23.5	−2.7		
			S	03 49 03.5	−5.1		
			sS	03 49 18.0	2.5		
			LG_2	03 50 00.0	−9.1		
TIA	12.6	343	eP	03 48 14.6	−0.7		
GYA	13.6	283	P	03 48 36.0	6.4		
CD2	17.1	297	(P)	03 49 16.0	1.4		

1986 6 24
O = 04 46 50.2 ± 0.16s
LAT = 29.65 N ± 4.70km
LONG = 131.71 E ± 2.68km
DEPTH = 58 km ± 3.41km
STATIONS USED = 15, STAND DEV = 4.59s

SNY	13.8	334	eP	04 50 14.2	9.2		
TIA	13.9	302	eP	04 50 02.9	−3.0		
CN2	15.0	342	−P	04 50 22.2	2.0		
BJI	16.4	313	eP	04 50 38.5	0.1		
TIY	17.9	302	e(P)	04 50 51.2	−6.2		
BTO	20.8	308	eP	04 51 27.8	−1.4		

1986 6 24
O = 04 47 06.4 ± 0.11s
LAT = 24.28 N ± 2.09km
LONG = 121.62 E ± 1.83km
DEPTH = 11 km ± 2.05km
STATIONS USED = 30, STAND DEV = 2.73s
M_L = 3.9 / 7,

QZH	2.8	284	cPn	04 47 50.1	−1.9		
			Sn	04 48 26.5	−1.5		
			SMN	M_L = 3.8		0.9	0.52
			SME			0.8	0.33
SSE	6.8	357	cPn	04 48 48.3	1.9		
			cLG_2	04 50 51.5	0.8		
			LN			1.0	0.83
			LE			1.0	0.040
GZH	7.7	263	cPn	04 49 04.2	5.6		
NJ2	8.1	343	−Pn	04 49 04.0	−0.5		
			Sn	04 50 40.0	1.2		
			LN			1.0	0.20
WHN	9.0	316	cP	04 49 16.0	−3.1		
			S	04 50 55.0	−6.0		
TIA	12.5	343	cP	04 50 02.9	−4.6		
GYA	13.7	282	P	04 50 22.8	−0.6		
XAN	14.7	314	cP	04 50 36.0	−1.0		
TIY	15.5	332	c(P)	04 50 51.2	4.0		
CD2	17.1	297	P	04 51 04.8	−3.1		
BTO	19.0	332	eP	04 51 27.8	−2.7		
GTA	23.8	315	eP	04 52 19.2	−1.4		

1986 6 24
O = 06 56 56.3 ± 0.15s
LAT = 0.29 N ± 4.70km
LONG = 17.88 W ± 5.57km
DEPTH = 18 km ± 0.29km
STATIONS USED = 37, STAND DEV = 3.61s
Ms = 6.2 / 5,

WMQ	101.0	45	eP	07 10 48.5	1.1		
CD2	116.6	55	PKP	07 15 55.3	16.0		
BTO	117.7	43	ePKP	07 15 49.0	6.4		
			PP	07 16 54.0	−5.1		
			SKS	07 22 53.5	3.3		
			LN	Ms = 6.2		19.0	1.80
			LE			22.0	3.70
GYA	120.4	59	PKP	07 15 56.4	8.5		
TIY	120.7	45	ePKP	07 16 01.0	13.8		
			PP	07 17 24.5	5.5		
			SKS	07 23 02.0	6.2		
			LN	Ms = 6.3		18.5	3.52
			LE			17.0	1.47
BJI	122.0	41	ePKP	07 15 55.5	4.6		
TIA	124.7	44	ePKP	07 16 02.4	6.3		
			ePP	07 17 43.0	−3.3		
			SS	07 34 30.0	−6.5		
			LE	Ms = 6.2		24.0	3.64
CN2	125.3	32	+PKP	07 15 57.0	−0.2		
WHN	125.3	51	ePKP	07 16 06.0	8.8		
SNY	125.5	35	ePKP	07 15 56.9	−0.8		
MDJ	126.8	29	ePKP	07 16 05.0	4.9		
NJ2	128.0	48	ePKP	07 16 04.0	1.5		
			LE	Ms = 6.0		18.0	1.80

1986 6 24
O = 12 25 28.2 ± 0.10s
LAT = 30.66 S ± 1.42km
LONG = 71.82 W ± 1.74km
DEPTH = 53 km ± 0.77km
STATIONS USED = 31, STAND DEV = 1.25s

MDJ	158.1	316	ePKP	12 45 20.0	0.1
WMQ	159.1	45	ePKP	12 45 21.5	0.3
BJI	168.6	327	ePKP	12 45 30.0	0.4
GTA	168.9	36	+iPKP	12 45 31.4	1.4
NJ2	170.8	281	−PKP	12 45 32.5	1.6
LZH	173.5	33	ePKP	12 45 34.0	1.3
GYA	175.6	162	PKP	12 45 34.0	0.9

1986 6 24
O=17 24 29.0 ± 0.09s
LAT=28.13 S ± 1.48km
LONG=178.01 W ± 2.21km
DEPTH= 17 km ± 0.70km
STATIONS USED = 16, STAND DEV= 1.56s

MDJ	86.8	325	eP	17 37 14.2	−0.1			
SNY	88.0	320	eP	17 37 22.6	2.1			
CN2	88.3	323	+P	17 37 23.6	1.7			
TIA	88.4	313	eP	17 37 20.5	−1.9			
TIY	92.4	312	e(P)	17 37 41.0	0.2			
			S	17 48 47.0	7.6			

1986 6 24
O=17 35 13.9 ± 0.10s
LAT=28.16 S ± 3.03km
LONG=177.98 W ± 2.98km
DEPTH= 15 km ± 0.94km
STATIONS USED = 21, STAND DEV= 2.53s

MDJ	86.8	325	eP	17 48 00.5	0.7			
SNY	88.1	320	eP	17 48 05.0	−1.0			
CN2	88.4	323	eP	17 48 06.6	−0.8			
TIA	88.5	313	eP	17 48 07.3	−0.6			
GYA	90.5	300	P	17 48 23.4	6.0			
BJI	91.3	316	eP	17 48 21.0	−0.4			
			(S)	17 59 12.0	−5.8			
TIY	92.4	312	eP	17 48 27.4	1.1			
XAN	92.8	307	eP	17 48 23.4	−4.6			
GTA	101.8	308	eP	17 49 09.5	0.5			

1986 6 24
O=17 39 18.8 ± 0.20s
LAT=28.06 S ± 3.40km
LONG=177.91 W ± 3.94km
DEPTH= 21 km ± 0.94km
STATIONS USED = 46, STAND DEV= 2.35s
Ms=5.6/ 12, m_B=5.8/ 2

QZH	80.7	305	eP	17 51 36.0	3.2			
			eS	18 01 37.0	−1.4			
			LN	Ms=5.2		15.0	0.49	
GZH	83.5	300	e(P)	17 51 50.0	2.4			
NJ2	84.8	310	−P	17 51 48.0	−5.9			
			LE	Ms=5.5		17.0	1.10	
MDJ	86.7	325	eP	17 52 03.6	0.0			
WHN	87.0	307	eP	17 52 05.0	0.2			
			eSKS	18 02 28.0	0.9			
			S	18 02 36.0	−3.7			
			LE	Ms=5.8		12.0	1.35	
DL2	87.3	317	eP	17 52 00.0	−6.2			
SNY	88.0	320	eP	17 52 10.2	0.4			
CN2	88.3	323	+P	17 52 11.0	−0.2			
			S	18 02 43.0	−9.1			
TIA	88.4	313	eP	17 52 12.0	0.2			
			eS	18 02 51.0	−3.9			
			SME	m_B=5.5		11.0	0.53	
			LN	Ms=5.6		35.0	1.77	
			LE			35.0	1.87	
GYA	90.5	300	P	17 52 20.8	−0.6			
BJI	91.3	315	eP	17 52 25.5	0.3			
			eS	18 03 15.0	−6.0			
			SMN			13.0	0.54	
TIY	92.4	312	P	17 52 30.6	0.4			
			pP	17 52 40.0	2.6			
			S	18 03 26.5	−2.0			
			sS	18 03 42.0	−0.5			
			LN	Ms=5.9		19.0	1.70	
			LE			22.0	2.29	
XAN	92.8	307	eP	17 52 31.5	−0.5			
			eS	18 03 28.0	−5.9			
			LE	Ms=5.6		18.0	1.30	
HHC	94.7	314	eP	17 52 39.4	−1.4			
			SMN	m_B=6.2		6.0	0.77	
			SME			6.0	0.65	
			LE	Ms=5.6		11.0	0.67	
CD2	94.9	302	(P)	17 52 43.0	1.2			
			eSKS	18 03 14.0	0.5			
			LE	Ms=5.7		23.0	1.84	
BTO	95.5	313	eP	17 52 45.0	0.4			
			eS	18 03 51.0	−6.6			
			LN	Ms=5.4		13.0	0.40	
			LE			13.0	0.30	

1986 6 24
O=18 45 29.6 ± 0.09s
LAT=34.89 N ± 1.80km
LONG=140.64 E ± 1.72km
DEPTH= 63 km ± 0.58km
STATIONS USED = 79, STAND DEV= 1.68s
Ms=4.4/ 7,

MDJ	12.9	322	eP	18 48 32.5	0.4			
CN2	14.7	312	−P	18 48 57.0	1.1			
SNY	15.1	302	+P	18 49 01.6	1.4			
DL2	15.7	290	eP	18 49 10.6	1.8			
			eS	18 51 51.0	−9.3			
			LN	Ms=4.3		12.0	0.40	
			LE			13.0	0.78	
SSE	16.8	262	eP	18 49 24.5	2.9			
			pP	18 49 34.0	1.3			
NJ2	18.4	267	+P	18 49 42.0	0.2			
TIA	19.2	281	eP	18 49 49.1	−1.8			

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BJI	20.1	292	cP	18 49 58.0	−2.5		
			sP	18 50 15.0	−6.1		
			cS	18 53 30.0	−7.2		
WHN	22.5	266	eP	18 50 26.0	0.8		
			eS	18 54 28.0	5.3		
			LN	Ms = 4.5		12.0	0.66
TIY	22.9	285	iP	18 50 30.6	1.8		
			S	18 54 34.0	5.7		
			LN	Ms = 4.4		14.0	0.56
HHC	23.6	293	P	18 50 35.0	−1.4		
BTO	24.8	292	eP	18 50 46.4	−1.1		
			epP	18 50 57.0	−4.6		
			ePP	18 51 24.0	−1.0		
			eS	18 55 02.0	−0.6		
XAN	26.1	277	+P	18 50 59.2	−0.6		
LZH	29.9	283	eP	18 51 33.5	−0.4		
GYA	30.3	263	−P	18 51 35.6	−1.9		
			sP	18 51 52.6	−6.4		
			PcP	18 54 37.8	2.1		
			S	18 56 27.6	−2.7		
CD2	31.1	273	+P	18 51 43.7	−1.0		
GTA	32.7	290	P	18 51 58.2	−0.1		
			PcP	18 54 44.0	2.0		
			ScS	19 02 19.6	2.4		
WMQ	41.3	299	+iP	18 53 13.6	2.7		
KSH	50.7	295	eP	18 54 30.6	4.7		
			eS	19 01 41.6	6.5		

1986 6 24
O = 19 31 06.4 ± 0.10s
LAT = 28.35 S ± 4.58km
LONG = 178.05 W ± 3.84km
DEPTH = 16 km ± 1.21km
STATIONS USED = 62, STAND DEV = 1.89s
Ms = 5.8 / 15, m_B = 5.8 / 4

QZH	80.8	305	eP	19 43 28.0	6.5		
			iS	19 53 26.0	−1.8		
			LN	Ms = 5.4		15.0	0.82
NJ2	84.9	311	eP	19 43 45.0	2.3		
			S	19 54 12.0	4.1		
			SME	m_B = 5.6		10.0	0.50
			LE	Ms = 5.8		16.0	1.80
MDJ	86.9	326	eP	19 43 52.0	−0.7		
WHN	87.1	307	eP	19 43 54.0	0.5		
			eSKS	19 54 20.0	3.7		
			S	19 54 33.0	3.8		
			LN	Ms = 5.8		20.0	2.42
DL2	87.4	317	eP	19 43 53.8	−1.3		
			eSKS	19 54 16.0	−2.5		
			eS	19 54 29.0	−5.1		
			LN	Ms = 5.6		15.0	1.07
SNY	88.2	320	eP	19 43 57.8	−1.0		
			LN	Ms = 5.8		29.0	3.10
CN2	88.5	323	−P	19 43 58.8	−1.5		
TIA	88.5	313	eP	19 44 00.0	−0.6		
			eSKS	19 54 22.0	−3.6		
			LE	Ms = 5.9		19.0	2.93
GYA	90.5	300	eP	19 44 11.2	1.3		
			SKS	19 54 43.0	5.6		
			S	19 55 07.0	6.2		
			LE	Ms = 5.5		20.0	1.10
BJI	91.4	316	eP	19 44 13.0	−1.1		
			eSKS	19 54 43.5	0.6		
			eS	19 55 16.0	5.2		
			SMN	m_B = 5.9		9.0	0.55
			SME			10.0	0.73
			LN	Ms = 5.4		17.0	0.74
TIY	92.5	312	eP	19 44 18.5	−0.5		
			SKS	19 54 55.0	6.3		
			SMN			13.5	1.22
			SME			9.5	0.85
			LN	Ms = 6.0		22.0	3.30
			LE			18.0	1.73
XAN	92.8	307	eP	19 44 18.6	−2.0		
			eSKS	19 54 48.6	−2.3		
			S	19 55 27.5	6.1		
			SMN	m_B = 5.9		10.0	0.78
			SME			11.0	0.82
KMI	92.9	297	eP	19 44 23.5	2.6		
			eSKS	19 54 53.0	2.0		
			eS	19 55 24.0	0.2		
			LE	Ms = 5.7		23.0	2.20
CD2	95.0	302	(P)	19 44 32.4	2.1		
			LE	Ms = 5.9		22.0	3.23
BTO	95.6	313	eP	19 44 32.3	−1.1		
			sP	19 44 47.0	4.3		
			ePP	19 48 30.0	4.2		
			eSKS	19 55 06.0	−0.2		
			eS	19 55 49.0	1.7		
			LN	Ms = 5.9		22.0	2.60
			LE			22.0	1.60
GTA	101.8	308	P	19 45 05.0	3.4		
			LE	Ms = 5.8		20.0	1.75
WMQ	111.9	309	eP	19 49 39.5	−2.4		

1986 6 24
O = 23 53 33.0 ± 0.26s
LAT = 35.54 S ± 7.84km
LONG = 100.66 W ± 6.45km
DEPTH = 6 km ± 1.21km

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STATIONS USED = 24, STAND DEV= 3.86s

CN2	144.0	298	eP	24 13 09.0	−1.6	
SSE	144.9	275	eP	24 13 09.0	−3.4	
SNY	145.2	294	eP	24 13 07.4	−5.4	
TIA	149.5	282	eP	24 13 24.4	4.5	
BJI	150.7	290	eP	24 13 24.0	2.3	

1986 6 25
O=00 28 20.7 ± 0.14s
LAT=31.09 N ± 2.23km
LONG= 86.81 E ± 1.46km
DEPTH= 33 km ± 0.20km
STATIONS USED = 61, STAND DEV= 2.04s
Ms=4.8/ 25, m_B=5.0/ 4

KSH	12.2	316	cP	00 31 17.5	2.6		
			S	00 33 28.0	−1.8		
			LG_2	00 35 02.0	0.1		
			LE	Ms=5.4		6.0	7.50
WMQ	12.7	3	P	00 31 21.0	−1.5		
			eS	00 33 39.0	−5.2		
			LN	Ms=4.5		15.0	2.01
GTA	13.5	48	cP	00 31 29.5	−2.9		
			LN	Ms=4.8		10.0	2.60
CD2	14.5	86	eP	00 31 46.4	0.1		
			(S)	00 34 22.0	−5.4		
			LN	Ms=5.0		10.0	3.34
LZH	15.0	66	cP	00 31 50.5	−2.5		
			LE	Ms=4.8		10.0	2.20
KMI	15.3	109	+P	00 31 57.0	1.2		
			LN	Ms=4.9		10.0	2.90
GYA	18.0	100	P	00 32 30.0	−0.4		
			PP	00 32 47.0	2.2		
			S	00 35 52.0	5.3		
			LN	Ms=5.3		11.0	4.00
			LE			11.0	3.80
XAN	18.9	75	eP	00 32 38.3	−2.7		
			eS	00 36 13.0	6.1		
			LN	Ms=4.8		9.0	1.10
			LE			9.0	0.62
BTO	21.0	57	eP	00 33 03.3	−1.0		
			PP	00 33 23.0	−3.9		
			S	00 36 47.0	−4.0		
			LN	Ms=4.7		10.0	0.90
			LE			10.0	0.60
TIY	22.1	66	eP	00 33 15.4	0.2		
			S	00 37 17.0	5.6		
			SME	m_B=5.0		8.0	0.44
			LN	Ms=5.0		10.0	1.71
			LE			9.0	0.74
HHC	22.2	57	P	00 33 17.0	0.7		
			S	00 37 16.0	2.8		
			LE	Ms=4.5		11.0	0.67
WHN	23.6	84	P	00 33 32.5	2.4		
			LN	Ms=5.1		9.0	1.96
BJI	25.4	61	eP	00 33 48.0	0.8		
			SME	m_B=4.8		10.0	0.30
			LE	Ms=4.9		11.0	1.16
TIA	25.7	70	eP	00 33 50.0	0.2		
			eS	00 38 13.5	−0.6		
			csS	00 38 29.0	0.0		
			LE	Ms=4.7		10.0	0.75
NJ2	27.3	80	−P	00 34 04.0	−0.4		
			LN	Ms=5.0		10.0	1.40
SSE	29.4	81	eP	00 34 25.5	2.3		
			csS	00 39 32.0	3.1		
			LN	Ms=5.1		12.0	1.81
SNY	31.2	60	eP	00 34 39.4	−0.5		
CN2	32.9	56	+P	00 34 55.0	0.5		
			eS	00 40 10.0	0.8		
			LN	Ms=4.9		12.0	1.00

1986 6 25
O=08 29 16.2 ± 0.08s
LAT= 2.07 S ± 1.06km
LONG=139.19 E ± 2.32km
DEPTH= 33 km ± 0.35km
STATIONS USED = 41, STAND DEV= 1.37s
Ms=4.8/ 1,

SSE	37.2	334	eP	08 36 27.0	0.7		
NJ2	39.0	332	eP	08 36 41.0	−0.9		
TIA	43.3	334	eP	08 37 16.0	−1.0		
KMI	44.5	310	eP	08 37 28.0	1.2		
XAN	45.8	324	−P	08 37 38.1	0.6		
TIY	46.7	331	eP	08 37 44.7	0.4		
			(S)	08 44 39.0	7.7		
			LN	Ms=4.8		13.0	0.32
			LE			13.0	0.28
BJI	46.9	336	eP	08 37 45.0	−0.8		
MDJ	47.3	351	eP	08 37 48.0	−0.7		
CN2	47.3	346	+P	08 37 48.0	−1.0		
			eS	08 44 40.0	0.3		
BTO	50.1	331	P	08 38 10.5	−0.4		
			eS	08 45 19.0	−0.4		
LZH	50.3	322	eP	08 38 12.0	−0.1		
GTA	54.8	323	+P	08 38 46.0	−0.3		
WMQ	64.8	321	P	08 39 54.5	−0.2		

1986 6 25
O=11 33 03.7 ± 0.05s
LAT=13.82 N ± 1.00km

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LONG = 145.02 E ± 1.96km
DEPTH = 126 km ± 0.19km
STATIONS USED = 19, STAND DEV = 1.27s

BJI	36.4	321	(P)	11 39 57.0	−0.6		
TIY	37.5	315	cP	11 40 08.0	0.9		
GTA	47.1	311	−P	11 41 25.9	0.3		

1986 6 25
O = 11 45 51.9 ± 0.25s
LAT = 28.57 S ± 5.15km
LONG = 178.13 W ± 4.36km
DEPTH = 11 km ± 0.62km
STATIONS USED = 21, STAND DEV = 3.14s
Ms = 5.2 / 2, m_B = 5.4 / 1

SSE	82.8	311	cP	11 58 16.0	−2.6		
			LN	Ms = 5.0		28.0	0.35
			LE			28.0	0.39
DL2	87.5	317	cP	11 58 45.0	3.0		
CN2	88.6	323	eP	11 58 43.0	−4.3		
TIA	88.6	313	cP	11 58 43.2	−4.2		
BJI	91.5	316	(P)	11 58 58.0	−2.9		
			eSKS	12 09 30.0	−0.4		
			eS	12 10 05.0	6.3		
			SMN	m_B = 5.4		10.0	0.34
TIY	92.6	312	eP	11 59 03.5	−2.2		
			LN	Ms = 5.4		9.0	0.34
			LE			11.0	0.27
KMI	92.9	297	eP	11 59 12.0	4.6		

1986 6 25
O = 20 27 43.5 ± 0.10s
LAT = 37.22 N ± 1.78km
LONG = 116.50 W ± 2.13km
DEPTH = 2 km ± 0.74km
STATIONS USED = 45, STAND DEV = 1.85s

MDJ	79.0	318	eP	20 39 50.0	−1.5		
CN2	81.7	320	−iP	20 40 05.2	−0.8		
SNY	84.1	319	+P	20 40 18.7	0.5		
BJI	89.2	322	eP	20 40 43.0	0.0		
BTO	91.6	326	cP	20 40 54.6	0.3		
TIA	91.6	319	cP	20 40 54.9	0.5		
TIY	92.8	323	−P	20 41 01.1	1.2		
			PMZ			1.2	0.050
SSE	93.2	313	+P	20 41 02.5	0.7		
			PMZ			1.5	0.060
NJ2	93.9	316	−P	20 41 04.8	0.2		
WMQ	96.4	343	eP	20 41 16.5	0.1		
GTA	96.7	332	P	20 41 18.0	0.0		
XAN	97.5	323	−P	20 41 21.0	−0.1		

1986 6 26
O = 02 41 29.8 ± 0.05s
LAT = 71.44 N ± 0.68km
LONG = 3.84 W ± 0.97km
DEPTH = 11 km ± 0.10km
STATIONS USED = 21, STAND DEV = 0.98s

KSH	50.0	85	P	02 50 41.0	15.2
GTA	57.3	63	eP	02 51 20.0	−0.8
CN2	59.6	41	−P	02 51 36.2	−0.3
MDJ	59.6	37	eP	02 51 37.0	0.2

1986 6 26
O = 02 59 49.1 ± 0.05s
LAT = 29.28 N ± 0.55km
LONG = 103.49 E ± 0.25km
DEPTH = 19 km ± 0.22km
STATIONS USED = 8, STAND DEV = 4.91s
M_L = 2.9 / 5,

CD2	1.6	8	ePn	03 00 18.2	0.5		
			Sn	03 00 39.6	−0.4		
			SMN	M_L = 3.2		0.7	0.24
			SME			0.6	0.34
			LN			3.0	1.83
GYA	4.0	134	Pg	03 01 05.8	6.3		
			Sg	03 01 53.4	−0.3		
			SMN	M_L = 2.9		1.0	0.030
			SME			1.0	0.020
XAN	6.6	43	ePn	03 01 27.0	0.8		

1986 6 26
O = 07 40 33.5 ± 0.13s
LAT = 1.94 S ± 0.85km
LONG = 139.30 E ± 3.10km
DEPTH = 33 km ± 0.24km
STATIONS USED = 12, STAND DEV = 1.34s

XAN	45.8	324	P	07 48 54.0	−0.4
BJI	46.8	336	(P)	07 49 00.0	−2.5
WMQ	64.8	321	P	07 51 12.2	0.5

1986 6 26
O = 08 56 51.5 ± 0.10s
LAT = 10.03 S ± 1.23km
LONG = 161.26 E ± 1.88km
DEPTH = 107 km ± 0.35km
STATIONS USED = 54, STAND DEV = 1.07s

SSE	56.1	318	eP	09 06 22.3	−0.2
			pP	09 06 42.4	−5.6
NJ2	58.3	318	+P	09 06 38.0	0.4
WHN	60.5	314	eP	09 06 52.5	−0.3
MDJ	61.5	335	+P	09 07 00.0	0.3

			pP	09 07 20.5	−5.1		
SNY	62.1	329	+P	09 07 04.0	0.0		
CN2	62.7	332	−P	09 07 07.2	−0.6		
			pP	09 07 28.2	−5.5		
GYA	64.2	306	P	09 07 18.2	0.2		
			pP	09 07 39.6	−4.3		
			S	09 15 38.0	−6.4		
BJI	65.0	323	cP	09 07 22.5	−0.3		
XAN	66.2	314	+P	09 07 30.4	−0.4		
KMI	66.9	303	cP	09 07 34.5	−0.5		
HHC	68.3	321	P	09 07 44.0	0.4		
CD2	68.5	309	cP	09 07 45.9	0.8		
BTO	69.1	321	cP	09 07 49.2	0.6		
LZH	70.8	314	cP	09 08 00.5	1.0		
GTA	75.2	315	+iP	09 08 25.9	0.9		
			pP	09 08 46.5	−5.0		
WMQ	85.3	316	cP	09 09 13.4	−5.1		

1986 6 26
O = 11 54 27.8 ± 0.12s
LAT = 16.84 S ± 1.91km
LONG = 173.17 W ± 2.14km
DEPTH = 35 km ± 0.25km
STATIONS USED = 22, STAND DEV = 1.42s

CN2	82.3	320	cP	12 06 47.8	−0.4		
SNY	82.5	318	cP	12 06 49.6	0.6		
BJI	86.6	313	cP	12 07 10.5	0.8		
XAN	89.6	306	cP	12 07 26.0	1.7		
KMI	91.8	296	cP	12 07 36.0	1.3		

1986 6 26
O = 13 06 31.1 ± 0.15s
LAT = 28.16 N ± 2.51km
LONG = 140.78 E ± 2.38km
DEPTH = 36 km ± 0.34km
STATIONS USED = 52, STAND DEV = 2.27s
Ms = 4.7 / 20, m_B = 5.7 / 26

SSE	17.3	284	cP	13 10 32.0	0.5		
			csS	13 13 50.0	−3.5		
			cSS	13 14 01.0	−1.0		
			LN	Ms = 4.5		10.0	0.89
DL2	19.2	309	P	13 10 54.0	−0.8		
			PMZ	m_B = 5.4		4.0	0.73
			pP	13 11 03.0	0.2		
			PP	13 11 12.0	0.4		
			S	13 14 20.0	−3.4		
			sS	13 14 33.0	−3.7		
			LN	Ms = 4.7		10.0	0.85
			LE			10.0	0.85
NJ2	19.4	287	+iP	13 10 57.0	0.4		
			PMZ	m_B = 6.1		4.0	3.70
			LN	Ms = 4.9		10.0	1.90
SNY	19.6	319	+P	13 10 57.0	−1.9		
			PMZ	m_B = 5.7		4.0	1.61
			S	13 14 26.0	−5.8		
			sS	13 14 39.0	−5.8		
			LN	Ms = 4.8		10.0	1.11
			LE			10.0	0.96
CN2	19.9	326	−P	13 11 01.5	−1.0		
			PMZ	m_B = 5.3		4.5	0.70
QZH	20.1	266	cP	13 11 08.0	3.2		
			PMZ	m_B = 5.6		5.0	1.44
			cS	13 14 46.0	2.1		
			SMN	m_B = 5.7		5.0	1.15
			SME			5.0	0.63
			LN	Ms = 4.3		10.0	0.39
TIA	21.5	298	cP	13 11 17.1	−2.4		
			PMZ	m_B = 5.7		4.0	1.37
			PcP	13 15 22.0	0.9		
			LE	Ms = 4.8		8.0	0.95
WHN	23.1	282	cP	13 11 36.0	0.6		
			PMZ	m_B = 6.0		4.0	2.58
			S	13 15 48.0	8.2		
			SMN	m_B = 5.8		7.0	2.13
			LN	Ms = 4.8		10.0	1.11
BJI	23.5	307	cP	13 11 36.5	−2.3		
			PMZ	m_B = 5.6		4.0	1.11
			cS	13 15 52.0	5.4		
			SMN	m_B = 5.4		7.0	0.87
GZH	25.2	265	cP	13 11 58.0	2.5		
			cS	13 16 26.0	9.8		
HHC	27.1	306	P	13 12 12.0	−0.8		
			cS	13 16 45.0	−1.8		
			LE	Ms = 4.5		13.0	0.60
XAN	27.8	290	cP	13 12 14.9	−4.8		
			csS	13 17 07.5	−7.3		
BTO	28.1	304	P	13 12 20.0	−2.3		
			PMZ	m_B = 5.8		5.0	1.00
			cPP	13 13 05.0	−7.2		
			S	13 16 56.0	−6.5		
			ScS	13 23 08.0	4.6		
			LN	Ms = 4.5		12.0	0.40
			LE			12.0	0.30
GYA	30.3	275	P	13 12 44.0	2.2		
			S	13 17 43.0	5.6		
LZH	32.1	294	cP	13 12 57.5	−0.4		
			PMZ			3.0	0.28
CD2	32.2	284	cP	13 12 58.2	−0.6		
			LN	Ms = 5.3		11.0	1.94
KMI	34.0	274	cP	13 13 15.5	0.9		

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			pP	13 13 33.0	8.9		
			SMN	m_B = 5.2		6.0	0.30
GTA	35.6	299	cP	13 13 25.4	−2.3		
			PMZ	m_B = 5.9		4.5	0.87
			cPP	13 14 49.6	1.9		
			S	13 19 01.5	2.0		
			SMN	m_B = 5.3		7.0	0.47
			LN	Ms = 4.6		10.0	0.31
WMQ	44.9	305	cP	13 14 42.5	−2.5		
			PMZ	m_B = 6.0		4.0	0.89
			cS	13 21 12.0	−8.5		
			SMN	m_B = 5.4		7.0	0.37
KSH	54.0	300	cP	13 15 56.9	2.5		
			cPP	13 18 00.0	3.7		
			cS	13 23 31.0	4.5		

1986 6 26
O = 18 19 40.4 ± 0.15s
LAT = 43.32 N ± 1.81km
LONG = 103.16 E ± 1.28km
DEPTH = 9 km ± 0.09km
STATIONS USED = 27, STAND DEV = 2.38s
Ms = 4.0 / 2, M_L = 4.5 / 5,

GTA	4.7	214	Pn	18 20 51.8	0.5		
			Pg	18 21 03.0	0.5		
			Sn	18 21 45.9	−1.5		
			Sg	18 22 02.4	−3.6		
			SMN			7.0	0.85
BTO	5.8	116	Pn	18 21 08.4	1.5		
			Pg	18 21 27.2	4.6		
			Sn	18 22 14.2	−1.4		
			Sg	18 22 41.0	−0.7		
LZH	7.2	176	cPn	18 21 28.0	1.0		
			cLG_1	18 23 27.5	−0.5		
			LG_2	18 23 34.5	−4.9		
			LN			1.5	0.52
			LE			1.5	0.47
TIY	9.0	125	cPn	18 22 01.6	10.7		
			Pg	18 22 21.0	1.6		
			Sn	18 23 38.9	3.6		
			Sg	18 24 18.6	−4.0		
			SMN			0.8	0.080
			SME			0.7	0.070
BJI	10.3	104	(P)	18 22 07.0	−4.3		
			LG_1	18 25 02.5	−0.5		
XAN	10.3	152	cP	18 22 09.7	−2.0		
WMQ	11.2	278	cP	18 22 24.5	−0.2		
			S	18 24 32.0	0.9		
			LN			0.8	0.030
			LE			1.0	0.040
LSA	16.7	219	P	18 23 38.2	1.8		
GYA	17.1	169	P	18 23 45.8	4.5		

1986 6 26
O = 19 44 27.8 ± 0.08s
LAT = 9.04 N ± 1.28km
LONG = 122.23 E ± 1.89km
DEPTH = 32 km ± 0.08km
STATIONS USED = 35, STAND DEV = 1.04s

GYA	22.8	322	P	19 49 29.8	1.0
NJ2	23.1	353	−P	19 49 34.0	1.8
XAN	27.7	336	eP	19 50 14.2	−1.6
CD2	27.7	324	(P)	19 50 14.0	−2.0
BJI	31.3	351	cP	19 50 47.0	−1.0
SNY	32.7	2	cP	19 50 59.1	−0.6
CN2	34.7	4	cP	19 51 17.0	−0.5
MDJ	36.0	9	cP	19 51 29.0	0.6
GTA	36.3	330	+P	19 51 31.0	0.2
WMQ	45.8	325	P	19 52 50.0	0.7

1986 6 26
O = 19 58 49.3 ± 0.11s
LAT = 28.21 S ± 4.04km
LONG = 177.89 W ± 3.39km
DEPTH = 16 km ± 0.95km
STATIONS USED = 30, STAND DEV = 1.94s
Ms = 5.0 / 2,

NJ2	84.9	310	+P	20 11 25.5	−0.2		
MDJ	86.9	325	+P	20 11 35.5	0.0		
			pP	20 11 41.5	−0.4		
			S	20 22 08.0	−2.2		
WHN	87.1	307	cP	20 11 30.0	−6.6		
SNY	88.2	320	cP	20 11 41.2	−0.5		
CN2	88.5	323	cP	20 11 41.8	−1.3		
			pP	20 11 49.2	−0.4		
TIA	88.6	313	cP	20 11 43.5	0.0		
			LE	Ms = 4.9		32.0	0.50
BJI	91.4	315	cP	20 11 56.5	−0.5		
			(S)	20 22 58.0	4.3		
TIY	92.5	312	cP	20 12 02.0	0.1		
			LE	Ms = 5.1		14.0	0.32
XAN	92.9	307	cP	20 12 04.2	0.5		

1986 6 26
O = 20 44 19.8 ± 0.16s
LAT = 40.88 N ± 2.51km
LONG = 19.47 E ± 1.68km
DEPTH = 13 km ± 0.24km
STATIONS USED = 19, STAND DEV = 1.16s

LSA	58.1	77	P	20 54 15.4	−0.8

GTA	59.3	63	+P	20 54 24.0	−0.3		
BTO	65.4	57	eP	20 55 05.5	0.7		
HHC	66.2	56	−P	20 55 11.0	0.9		
XAN	68.3	63	−P	20 55 24.6	1.0		
BJI	69.5	54	eP	20 55 30.5	−0.4		
CN2	72.6	47	eP	20 55 49.6	−0.1		
NJ2	76.2	60	−P	20 56 10.6	0.5		

1986 6 27
O = 03 09 50.1 ± 0.10s
LAT = 7.88 S ± 1.68km
LONG = 122.88 E ± 1.73km
DEPTH = 227 km ± 0.27km
STATIONS USED = 85, STAND DEV = 1.08s

GZH	32.2	343	−iP	03 15 59.0	0.1		
GYA	37.6	336	+P	03 16 45.4	0.4		
			PcP	03 19 00.2	2.6		
			S	03 22 16.4	−0.1		
			ScP	03 22 24.6	2.9		
			ScS	03 26 34.4	4.7		
KMI	38.2	330	+P	03 16 52.0	1.6		
			PMZ			2.0	0.50
			eS	03 22 30.0	2.7		
			sS	03 23 50.0	1.0		
SSE	38.8	358	−P	03 16 55.5	0.7		
			PMZ			1.2	0.13
			PcP	03 19 02.5	1.2		
WHN	39.1	348	+P	03 16 58.0	0.9		
			PcP	03 19 03.5	1.3		
			ScP	03 22 31.5	4.2		
NJ2	39.9	355	+iP	03 17 05.0	1.1		
			PMZ			3.0	0.80
			pP	03 17 52.0	0.9		
			PcP	03 19 06.0	1.1		
			ScP	03 22 35.2	4.7		
			iS	03 22 52.0	0.2		
			sS	03 24 18.0	3.4		
CD2	42.7	335	eP	03 17 27.0	0.2		
			PMZ			2.0	0.56
			eS	03 23 31.0	−2.1		
XAN	43.7	343	+iP	03 17 34.5	−0.7		
			PcP	03 19 19.4	1.8		
			ScP	03 22 49.0	3.2		
			(S)	03 23 50.0	1.9		
TIA	44.2	353	+P	03 17 37.9	−0.8		
			pP	03 18 25.5	−1.0		
			PcP	03 19 20.0	0.8		
			csS	03 25 18.0	−0.6		
TIY	46.4	349	P	03 17 55.1	−1.0		
			PMZ			1.0	0.080
			pP	03 18 43.5	−0.8		
			S	03 24 24.0	−0.8		
			sS	03 25 52.0	1.4		
			ScS	03 27 27.0	3.4		
DL2	46.6	359	eP	03 18 12.0	15.3		
LZH	47.3	339	+iP	03 18 03.5	0.6		
			PMZ			2.0	0.17
			pP	03 18 52.0	0.8		
			PcP	03 19 32.0	2.0		
			S	03 24 33.0	−3.9		
			ScS	03 27 33.0	3.8		
BJI	48.1	353	eP	03 18 08.0	−1.1		
			cpP	03 18 57.0	−0.8		
			cPcP	03 19 34.0	1.0		
			cScP	03 23 06.0	2.1		
SNY	49.5	1	+P	03 18 18.0	−1.7		
HHC	49.6	349	+iP	03 18 20.5	−0.3		
BTO	49.7	347	+P	03 18 20.6	−0.8		
			pP	03 19 10.0	−0.2		
			cPP	03 20 18.0	−0.7		
			cS	03 25 10.0	−1.9		
CN2	51.5	2	+P	03 18 33.3	−1.5		
			sP	03 19 46.0	−3.2		
			ScP	03 23 21.0	2.6		
			cS	03 25 32.0	−4.6		
			ScS	03 28 01.0	3.3		
GTA	51.7	337	+iP	03 18 36.3	−0.1		
			PMZ			1.1	0.10
			PcP	03 19 48.0	1.8		
			ScP	03 23 23.1	3.9		
			cScS	03 28 02.5	3.4		
MDJ	52.6	6	+P	03 18 42.3	−0.8		
WMQ	60.5	331	+iP	03 19 38.5	−0.6		
			PMZ			1.5	0.21
			PcP	03 20 17.5	−3.0		
			ScP	03 24 02.5	4.5		
			S	03 27 37.5	3.1		
			ScS	03 29 06.0	3.3		
KSH	64.0	321	P	03 20 04.0	1.7		
			S	03 28 26.0	7.8		

1986 6 27
O = 03 38 02.3 ± 0.10s
LAT = 43.94 N ± 1.29km
LONG = 85.51 E ± 1.04km
DEPTH = 24 km ± 0.02km
STATIONS USED = 7, STAND DEV = 3.75s
M_L = 3.4 / 5,

WMQ	1.6	94	Pn	03 38 29.4	−0.1		
			Sn	03 38 52.2	1.5		

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1986 6 27
O = 11 18 50.5 ± 0.08s
LAT = 38.97 N ± 1.84km
LONG = 140.91 E ± 1.39km
DEPTH = 30 km ± 0.48km
STATIONS USED = 67, STAND DEV = 1.68s
Ms = 4.4 / 12,

MDJ	10.2	307	cP	11 21 19.4	1.8			
			S	11 23 13.0	1.6			
CN2	12.6	298	+P	11 21 51.4	1.0			
			cS	11 24 07.0	−3.5			
			LN	Ms = 4.0		12.0	0.60	
SNY	13.5	288	+P	11 22 05.0	2.1			
			cS	11 24 36.0	2.9			
			LE	Ms = 3.9		18.0	0.64	
SSE	17.9	250	P	11 23 01.0	1.4			
			sP	11 23 14.0	2.8			
			eSS	11 26 40.0	1.6			
			LE	Ms = 4.4		10.0	0.67	
TIA	19.0	269	−P	11 23 12.4	−0.8			
			LN	Ms = 4.5		9.0	0.20	
			LE			12.5	0.83	
BJI	19.1	281	eP	11 23 12.0	−1.9			
NJ2	19.2	256	+P	11 23 15.4	0.4			
			LN	Ms = 4.5		10.0	0.70	
TIY	22.3	276	cP	11 23 45.5	−2.1			
			S	11 27 50.5	4.6			
			LN	Ms = 4.4		13.0	0.48	
			LE			13.0	0.42	
HHC	22.5	284	P	11 23 48.4	−1.4			
WHN	23.3	257	cP	11 24 00.0	2.8			
BTO	23.7	284	cP	11 24 01.0	−0.4			
			cS	11 28 08.0	−3.8			
			LN	Ms = 4.5		13.0	0.30	
			LE			13.0	0.60	
XAN	26.1	269	P	11 24 22.2	−1.7			
LZH	29.4	276	cP	11 24 56.0	2.0			
GYA	31.2	257	−P	11 25 09.4	−0.6			
CD2	31.3	267	cP	11 25 09.7	−1.3			
			LN	Ms = 5.1		12.0	1.54	
GTA	31.7	284	P	11 25 12.1	−1.9			
			LE	Ms = 4.3		13.0	0.29	
WMQ	39.6	295	cP	11 26 21.0	−0.8			
KSH	49.3	292	P	11 27 40.0	0.6			

1986 6 27
O = 16 48 57.1 ± 0.12s
LAT = 30.85 S ± 1.92km
LONG = 177.37 W ± 2.03km
DEPTH = 30 km ± 0.47km
STATIONS USED = 25, STAND DEV = 1.74s
Ms = 5.2 / 3, m_B = 5.8 / 3

QZH	82.7	305	eP	17 01 16.0	−3.9			
			S	17 11 40.0	7.1			
SNY	90.5	320	eP	17 02 10.4	13.2			
			SKS	17 12 28.5	4.1			
			sS	17 13 00.0	−4.6			
			LN	Ms = 5.1		20.0	0.49	
TIA	90.7	313	eP	17 01 59.7	0.6			
			eSKS	17 12 29.5	4.0			
			SME	m_B = 5.8		6.0	0.49	
CN2	90.8	323	+P	17 01 59.0	−0.8			
GYA	92.2	299	eP	17 02 09.4	2.9			
			SKS	17 12 43.0	8.5			
BJI	93.6	315	(P)	17 02 11.0	−1.6			
			eSKS	17 12 46.0	3.8			
			eS	17 13 24.0	6.9			
			SMN	m_B = 5.6		11.0	0.49	
KMI	94.5	296	eP	17 02 04.0	−11.7			
TIY	94.6	312	eP	17 02 17.3	0.2			
			SKS	17 12 57.0	9.5			
			SMN	m_B = 5.8		7.0	0.34	
			SME			7.0	0.34	
			sS	17 13 38.5	−1.9			
			LN	Ms = 5.4		11.0	0.31	
			LE			10.0	0.26	

1986 6 27
O = 19 44 27.8 ± 0.25s
LAT = 15.06 N ± 2.90km
LONG = 96.63 E ± 3.00km
DEPTH = 2 km ± 0.86km
STATIONS USED = 12, STAND DEV = 3.15s
Ms = 4.4 / 1,

GYA	14.7	38	P	19 48 01.0	1.8			
CD2	17.1	21	(P)	19 48 28.0	−1.6			
			LN	Ms = 4.4		10.0	0.76	
XAN	21.9	28	cP	19 49 21.0	−3.7			
GTA	24.4	6	P	19 49 47.1	−2.2			
WMQ	29.7	347	cP	19 50 39.5	2.0			

1986 6 28
O = 01 18 26.9 ± 0.05s
LAT = 26.06 S ± 1.16km
LONG = 179,56 E ± 1.35km
DEPTH = 578 km ± 0.50km
STATIONS USED = 17, STAND DEV = 0.84s

CN2	85.4	324	−P	01 30 05.0	−0.7			
TIA	85.4	314	eP	01 30 06.1	0.2			

BJI	88.3	317	eP	01 30 19.5	0.0		
TIY	89.4	313	P	01 30 25.1	0.6		
XAN	89.8	308	eP	01 30 26.7	0.4		

1986 6 28
O = 05 03 46.4 ± 0.12s
LAT = 20.10 S ± 1.96km
LONG = 175.87 W ± 2.15km
DEPTH = 211 km ± 0.39km
STATIONS USED = 84, STAND DEV = 0.97s
m_B = 6.4 / 49

QZH	77.9	302	−iP	05 15 22.7	−0.4		
			PMZ	m_B = 6.3		5.0	3.15
			pP	05 16 16.0	3.2		
			sP	05 16 40.0	5.0		
			PP	05 18 20.0	−2.6		
			S	05 24 55.0	−1.1		
			SMN	m_B = 6.2		8.0	2.84
			SME			8.0	1.10
			SKS	05 25 17.0	6.3		
			sS	05 26 33.0	8.6		
SSE	79.0	309	−iP	05 15 28.0	−1.0		
			PMZ			1.0	0.050
			pP	05 16 21.0	2.1		
			sP	05 16 45.0	3.9		
			S	05 25 05.0	−2.8		
			SMN	m_B = 5.9		8.0	1.69
			eSKS	05 25 17.0	−1.5		
			ScS	05 25 24.0	−3.3		
			csS	05 26 39.0	2.6		
			eSS	05 30 18.0	−3.3		
			LE			14.0	1.17
NJ2	81.2	309	−iP	05 15 41.0	0.3		
			PMZ	m_B = 6.3		6.0	4.00
			pP	05 16 33.0	2.2		
			sP	05 16 58.0	5.0		
			PP	05 18 53.0	3.0		
			iS	05 25 34.0	1.8		
			SMN	m_B = 6.5		11.0	7.60
			SS	05 30 57.0	2.9		
MDJ	81.4	324	−iP	05 15 42.0	0.4		
			pP	05 16 36.0	4.2		
			sP	05 16 58.0	4.1		
			iS	05 25 37.0	3.0		
			SMN			13.0	11.4
			PS	05 27 02.0			
DL2	82.8	316	−iP	05 15 48.5	−0.7		
			PMZ	m_B = 6.4		5.0	3.62
			pP	05 16 42.0	2.5		
			sP	05 17 04.0	2.5		
			PP	05 19 00.0	−3.1		
			S	05 25 46.0	−1.2		
			SMN	m_B = 6.5		10.0	4.79
			SME			10.0	5.10
			sS	05 27 24.0	7.4		
SNY	83.2	319	−iP	05 15 50.8	−0.3		
			PMZ	m_B = 6.6		4.0	5.00
			pP	05 16 42.0	0.6		
			sP	05 17 08.0	4.5		
			PP	05 19 01.0	−5.1		
			iS	05 25 50.0	−2.6		
			SMN			24.0	10.4
			SME			18.0	4.45
			sS	05 27 21.0	0.6		
CN2	83.2	321	−iP	05 15 51.0	−0.2		
			PMZ	m_B = 6.5		4.0	3.70
			pP	05 16 44.0	2.5		
			sP	05 17 08.0	4.5		
			iS	05 25 49.8	−3.0		
			SMN	m_B = 6.6		8.0	5.30
			SME			8.0	2.80
			csS	05 27 26.0	5.4		
WHN	83.8	305	−P	05 15 54.0	−0.3		
			PMZ	m_B = 6.6		4.0	4.58
			pP	05 16 49.0	4.4		
			PP	05 19 15.0	3.9		
			SKS	05 25 52.0	−0.3		
			S	05 25 56.0	−1.2		
			SMN	m_B = 6.4		10.0	4.44
			PS	05 27 18.0			
TIA	84.5	312	−P	05 15 57.6	0.0		
			PMZ	m_B = 6.2		6.0	2.91
			pP	05 16 50.5	2.5		
			sP	05 17 15.0	5.0		
			cPP	05 19 16.0	−0.4		
			S	05 26 00.0	−3.6		
			SMN	m_B = 6.5		9.5	1.18
			SME			8.0	4.95
			PS	05 27 16.0			
			sS	05 27 38.0	4.6		
			LE			16.0	1.80
BJI	87.0	315	eP	05 16 10.0	0.1		
			PMZ	m_B = 6.5		5.0	4.34
			epP	05 17 02.0	1.4		
			esP	05 17 27.0	4.4		
			eSKS	05 26 15.0	1.6		
			SMN	m_B = 6.5		7.0	1.69
			SME			7.0	2.80
			esS	05 27 54.0	−4.2		
GYA	88.2	299	−P	05 16 16.0	0.4		

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			PMZ		$m_B = 6.4$	5.0	2.90
			PP	05 19 46.0	−1.3		
			SKS	05 26 24.0	3.1		
			S	05 26 42.0	3.2		
			SMN		$m_B = 6.4$	7.0	2.80
TIY	88.5	311	−iP	05 16 17.5	0.4		
			PMZ			1.4	0.12
			pP	05 17 12.5	4.8		
			sP	05 17 34.5	4.8		
			SKS	05 26 26.0	3.2		
			SMN		$m_B = 6.6$	8.0	2.60
			SME			7.5	3.04
			PS	05 27 45.5			
			LN			15.0	1.02
			LE			13.0	1.88
XAN	89.5	307	−iP	05 16 22.0	0.4		
			PMZ		$m_B = 6.4$	6.0	3.29
			iSKS	05 26 30.0	1.3		
			SMN		$m_B = 6.7$	12.0	6.12
			SME			11.0	3.41
HHC	90.5	314	−iP	05 16 27.5	1.0		
			PMZ		$m_B = 6.5$	4.0	2.60
			pP	05 17 20.0	2.7		
			iSKS	05 26 39.0	4.2		
			S	05 27 08.0	8.2		
			SMN		$m_B = 6.7$	8.0	4.30
			SME			7.0	3.33
			LN			12.0	0.81
			LE			14.0	1.14
KMI	91.0	296	−iP	05 16 30.0	1.3		
			PMZ		$m_B = 6.5$	4.0	2.50
			pP	05 17 23.3	4.0		
			iSKS	05 26 40.5	3.1		
			S	05 27 10.0	6.3		
			SMN		$m_B = 6.2$	7.0	1.30
BTO	91.5	313	+iP	05 16 31.0	0.1		
			PMZ		$m_B = 6.4$	5.0	2.20
			pP	05 17 26.0	4.3		
			PP	05 20 10.0	−2.5		
			PPMZ		$m_B = 6.1$	8.0	1.20
			SKS	05 26 41.0	0.7		
			S	05 27 10.0	1.9		
			SMN		$m_B = 6.4$	10.0	2.90
			SME			10.0	1.40
			sS	05 28 47.0	7.7		
			LN			17.0	1.00
			LE			17.0	1.00
CD2	92.3	302	−iP	05 16 35.1	0.5		
			PMZ		$m_B = 6.2$	6.0	1.66
			pP	05 17 29.0	3.6		
			SKS	05 26 46.0	1.2		
			S	05 27 16.0	0.9		
			PS	05 29 01.0			
			LN			11.0	2.79
LZH	94.1	307	−iP	05 16 44.0	0.8		
			PMZ			2.8	0.53
			pP	05 17 37.0	3.0		
			PP	05 20 35.0	0.7		
			SKS	05 26 56.8	1.7		
			S	05 27 39.5	8.3		
			SMN		$m_B = 6.4$	12.0	3.36
GTA	98.3	309	−iP	05 17 01.5	−0.5		
			sP	05 18 19.2	4.4		
			SKS	05 27 17.0	−0.6		
			S	05 28 07.6	1.3		
			SME		$m_B = 6.6$	7.5	3.21
LSA	102.2	297	cP	05 17 17.4	−2.5		
			pP	05 18 15.0	4.6		
			PP	05 21 33.0	−2.0		
			SKS	05 27 37.0	0.9		
			SME		$m_B = 6.9$	7.6	4.75
KSH	116.3	305	−PKP	05 22 07.0	1.0		
			PP	05 23 17.0	−1.0		
			SME			5.0	6.90
			LE			6.0	7.40

1986 6 28
O = 07 57 27.8 ± 0.17s
LAT = 58.90 S ± 2.04km
LONG = 25.47 W ± 3.22km
DEPTH = 30 km ± 0.88km
STATIONS USED = 10, STAND DEV = 2.54s

TIY	145.7	109	cPKP	08 17 04.8	0.3
TIA	146.7	116	cPKP	08 17 07.7	1.5
BJI	149.3	111	cPKP	08 17 14.5	4.1

1986 6 28
O = 10 23 33.8 ± 0.10s
LAT = 3.65 N ± 1.77km
LONG = 128.02 E ± 2.37km
DEPTH = 141 km ± 0.20km
STATIONS USED = 30, STAND DEV = 1.74s

WHN	29.7	336	P	10 29 29.5	0.5
GYA	30.5	320	P	10 29 40.2	3.6
XAN	35.1	332	+P	10 30 15.0	−0.6
CD2	35.5	323	(P)	10 30 18.5	−0.5
BJI	37.8	345	eP	10 30 38.0	−0.2
GTA	43.8	328	eP	10 31 27.5	−0.5
WMQ	53.5	324	P	10 32 42.2	−0.5

1986 6 28
O=19 28 13.7 ± 0.15s
LAT=40.71 N ± 1.71km
LONG=122.84 E ± 1.36km
DEPTH= 1 km ± 1.13km
STATIONS USED = 12, STAND DEV= 4.35s
M_L=3.6/ 12,

SNY	1.3	26	+iPg	19 28 37.6	1.8		
			Sg	19 28 54.0	1.1		
			SMN	M_L=3.2		0.4	0.46
			SME			0.4	0.38
DL2	2.0	208	cPn	19 28 46.4	−2.8		
			Pg	19 28 49.5	0.0		
			Sn	19 29 13.0	−4.1		
			Sg	19 29 15.8	−1.4		
			SMN	M_L=4.0		0.6	1.10
			SME			0.6	1.40
CN2	3.6	31	cPg	19 29 21.6	3.4		
			Sg	19 30 09.0	1.0		
			SMN	M_L=3.4		1.0	0.070
			SME			1.0	0.11
BJI	5.1	265	cPg	19 29 47.0	2.6		
			S*	19 30 47.0	1.9		
			cSg	19 30 54.0	−0.5		
			SMN	M_L=3.2		0.5	0.040
			SME			0.5	0.020
MDJ	6.3	50	cPg	19 30 30.0	24.6		
			cSg	19 31 34.4	2.5		
			SMN	M_L=3.5		0.6	0.030

1986 6 29
O=00 48 28.9 ± 0.09s
LAT=11.68 N ± 1.56km
LONG=142.12 E ± 2.06km
DEPTH= 37 km ± 0.24km
STATIONS USED = 22, STAND DEV= 1.66s

BJI	36.4	326	eP	00 55 52.5	21.1
GYA	36.4	299	P	00 55 34.8	2.1
TIY	37.1	319	cP	00 55 38.8	0.5
CD2	40.3	304	cP	00 56 04.3	−0.3
GTA	46.5	314	P	00 56 54.9	−0.2

1986 6 29
O=04 30 03.2 ± 0.15s
LAT=52.39 N ± 4.22km
LONG=174.71 W ± 2.16km
DEPTH= 31 km ± 0.41km
STATIONS USED = 40, STAND DEV= 2.35s
Ms=5.5/ 14,

MDJ	36.9	281	cP	04 37 12.0	0.7		
			PP	04 38 34.0	−3.1		
			cS	04 42 53.0	−0.8		
CN2	39.8	282	cP	04 37 36.8	1.0		
SNY	42.1	281	−P	04 37 53.0	−1.5		
			S	04 44 07.0	−4.0		
			LN	Ms=5.4		23.0	2.93
			LE			21.0	2.36
BJI	47.6	284	(P)	04 38 40.0	1.3		
			cS	04 45 37.0	5.4		
			LN	Ms=5.5		19.0	3.09
TIA	49.5	279	cP	04 39 10.3	17.4		
			cS	04 46 03.0	4.6		
			LE	Ms=5.2		15.0	1.28
SSE	50.5	271	cP	04 38 57.0	−4.1		
			LN	Ms=5.3		24.0	2.26
BTO	50.9	288	cP	04 39 08.0	4.0		
			cPP	04 41 05.0	4.6		
			cS	04 46 23.0	5.6		
			LN	Ms=5.6		15.0	2.50
			LE			16.0	1.80
NJ2	51.3	274	cP	04 39 10.0	3.1		
			LE	Ms=4.7		14.0	0.30
XAN	55.9	283	cP	04 39 41.0	−0.3		
			LE	Ms=5.6		18.0	2.66
GTA	57.5	294	cP	04 39 51.6	−1.1		
			LN	Ms=5.5		18.0	2.24
WMQ	60.9	305	cP	04 40 17.0	1.0		
			PP	04 42 32.0	0.6		
			cS	04 48 32.5	2.0		
			LN	Ms=5.9		20.0	3.69
			LE			20.0	3.52
CD2	61.2	284	(P)	04 40 13.6	−4.6		
			cS	04 48 27.0	−7.7		
			LN	Ms=5.7		16.0	2.80
GYA	62.7	279	P	04 40 31.6	3.4		
KMI	66.1	280	cP	04 41 01.0	11.8		

1986 6 29
O=08 20 09.8 ± 0.10s
LAT=37.75 N ± 1.00km
LONG=106.10 E ± 0.97km
DEPTH= 13 km ± 0.21km
STATIONS USED = 12, STAND DEV= 3.60s
M_L=3.3/ 9,

LZH	2.5	228	cPg	08 20 52.9	−0.5		
			S*	08 21 23.0	0.4		
			SMN	M_L=3.5		1.0	0.33
			SME			1.0	0.19
BTO	4.2	46	cPn	08 21 15.2	1.6		
			Pg	08 21 23.6	0.2		

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			Sn	08 22 00.4	−3.7		
			Sg	08 22 15.0	−5.4		
			SMN	M_L = 3.1		0.5	0.040
			SME			0.5	0.030
XAN	4.4	147	ePg	08 21 24.3	−2.5		
			S*	08 22 18.2	1.4		
			SMN	M_L = 3.1		0.7	0.040
			SME			0.8	0.020
TIY	5.0	88	+iPg	08 21 39.0	0.3		
			S*	08 22 38.6	2.7		
			SMN	M_L = 3.5		0.6	0.050
			SME			0.5	0.070
GTA	5.2	291	Pg	08 21 40.5	−1.3		
			Sg	08 22 49.4	−3.2		
			SMN	M_L = 3.3		0.8	0.040
			SME			0.8	0.020
HHC	5.2	52	Pg	08 21 43.1	0.4		

1986 6 29

O = 09 55 38.7 ± 0.11s
LAT = 15.11 N ± 1.88km
LONG = 96.21 E ± 1.61km
DEPTH = 18 km ± 0.27km
STATIONS USED = 80, STAND DEV = 1.64s
Ms = 5.7 / 44, m_B = 5.5 / 13

KMI	11.7	31	+P	09 58 32.0	3.7		
			pP	09 58 38.0	4.5		
			S	10 00 41.0	2.2		
			SS	10 00 56.0	3.2		
			LE	Ms = 5.6		10.0	19.3
GYA	14.9	39	P	09 59 12.0	1.0		
			pP	09 59 20.0	3.7		
			S	10 01 56.4	0.2		
			LN	Ms = 5.7		10.0	9.50
			LE			10.0	16.1
LSA	15.2	343	P	09 59 11.0	−4.6		
			S	10 01 55.0	−8.8		
			LN	Ms = 5.1		11.0	3.00
			LE			11.0	3.16
CD2	17.2	22	cP	09 59 39.8	−0.1		
			cS	10 02 53.0	3.7		
			LE	Ms = 5.7		10.0	14.5
GZH	18.0	61	+P	09 59 52.0	1.7		
			PMZ	m_B = 5.5		7.0	1.45
			SS	10 03 25.0	−5.5		
			LN	Ms = 5.4		13.0	7.08
			LE			14.0	3.69
LZH	22.0	17	−P	10 00 34.5	0.5		
			PMZ			1.8	0.16
			sS	10 04 36.0	−5.3		
			LN	Ms = 5.9		10.0	11.7
			LE			10.0	6.34
XAN	22.1	29	−P	10 00 33.4	−1.4		
			cS	10 04 30.0	−2.6		
			LG_1	10 07 06.0	−5.9		
			LN	Ms = 6.0		10.0	11.3
			LE			10.0	12.3
WHN	22.7	44	eP	10 00 41.0	0.5		
			PMZ	m_B = 5.5		6.0	1.26
			SME	m_B = 5.5		8.0	1.59
			LN	Ms = 5.8		9.0	8.56
			LE			13.0	9.64
QZH	23.2	62	+P	10 00 46.3	0.8		
			PMZ	m_B = 5.6		4.0	0.90
			pP	10 00 53.0	1.0		
			cS	10 04 55.0	2.8		
			sS	10 05 07.0	4.0		
			LN	Ms = 5.3		10.0	3.28
			LE			12.0	2.47
GTA	24.4	7	−P	10 00 58.0	0.1		
			PMZ	m_B = 5.4		7.0	1.03
			S	10 05 20.0	6.7		
			SMN	m_B = 5.8		11.0	3.45
			LE	Ms = 5.4		12.0	4.87
NJ2	26.6	47	+P	10 01 18.5	−0.3		
			PMZ	m_B = 5.6		7.0	0.90
			S	10 05 45.0	−5.5		
			SMN	m_B = 5.4		9.0	0.90
			LN	Ms = 5.9		11.0	13.1
TIY	26.7	30	eP	10 01 19.8	0.4		
			S	10 05 52.0	0.5		
			sS	10 06 03.0	−0.3		
			LN	Ms = 6.0		13.0	13.8
			LE			13.5	13.2
SSE	27.8	51	eP	10 01 28.5	−1.2		
			csS	10 06 28.0	6.2		
			LN	Ms = 5.8		13.0	8.70
			LE			12.0	4.96
BTO	28.1	23	eP	10 01 30.8	−1.3		
			pP	10 01 40.0	1.4		
			cPP	10 02 21.0	−0.5		
			S	10 06 10.0	−3.9		
			csS	10 06 25.0	−0.9		
			LN	Ms = 5.8		10.0	3.50
			LE			12.0	7.70
TIA	28.1	38	eP	10 01 31.5	−0.6		
			cS	10 06 09.0	−5.9		
			LN	Ms = 5.9		11.0	1.72
			LE			10.0	8.79
HHC	28.9	25	eP	10 01 39.0	−0.4		

			S	10 06 26.0	−0.9		
			LN	Ms=5.8		12.0	3.78
			LE			12.0	8.04
WMQ	29.5	347	−P	10 01 45.0	0.2		
			PP	10 02 49.5	9.5		
			PcP	10 04 44.0	−5.3		
			S	10 06 43.0	6.4		
			LN	Ms=5.5		10.0	2.66
			LE			11.0	2.68
KSH	30.0	328	P	10 01 52.6	3.0		
			PP	10 02 56.6	9.8		
			cS	10 06 53.6	7.5		
			SME	m_B=6.1		12.0	4.80
			sS	10 07 02.6	5.6		
			LE	Ms=5.6		12.0	4.80
BJI	30.3	31	cP	10 01 51.0	−1.1		
			cS	10 06 48.0	−2.6		
			LN	Ms=5.8		11.0	5.36
			LE			11.0	5.30
DL2	32.6	38	cP	10 02 12.0	0.3		
			cS	10 07 24.0	−1.5		
			LN	Ms=5.7		12.0	4.50
			LE			10.0	3.12
SNY	35.6	36	−iP	10 02 36.0	−1.7		
			PMZ	m_B=5.3		10.0	0.51
			PP	10 03 59.0	1.6		
			PPMZ			11.0	0.62
			PcP	10 05 01.0	−4.9		
			S	10 08 12.0	0.6		
			LN	Ms=5.5		12.0	1.83
			LE			12.0	2.87
CN2	37.9	35	−P	10 02 56.0	−1.3		
			PMZ	m_B=5.6		6.0	0.60
			pP	10 03 05.3	1.2		
			cPP	10 04 26.0	−0.4		
			PPMZ			7.0	0.50
			S	10 08 49.0	2.0		
			SME	m_B=5.5		8.0	0.70
			LN	Ms=5.6		10.0	2.90
MDJ	40.8	37	cP	10 03 20.0	−1.0		
			pP	10 03 30.0	2.2		
			cS	10 09 32.0	1.0		

1986 6 29
O=10 33 02.4 ± 0.08s
LAT=25.27 N ± 1.85km
LONG=142.73 E ± 1.82km
DEPTH= 34 km ± 0.39km
STATIONS USED = 33, STAND DEV= 1.58s

NJ2	22.0	293	−P	10 37 56.4	0.9		
SNY	22.9	321	−iP	10 38 04.1	−0.3		
CN2	23.3	327	eP	10 38 13.6	5.6		
TIA	24.5	303	eP	10 38 19.6	−0.4		
XAN	30.5	295	+P	10 39 14.0	−1.4		
CD2	34.7	288	eP	10 39 51.1	−0.6		
LZH	34.9	297	P	10 39 53.5	−0.2		
GTA	38.5	302	P	10 40 22.5	−1.6		

1986 6 29
O=11 22 35.6 ± 0.17s
LAT=31.18 N ± 2.13km
LONG= 86.95 E ± 1.86km
DEPTH= 33 km ± 0.04km
STATIONS USED = 31, STAND DEV= 2.50s
Ms=4.7/ 7,

LSA	3.9	111	Pn	11 23 40.1	5.6		
			Pg	11 23 50.0	5.0		
			Sg	11 24 48.0	9.2		
			LN	Ms=4.6		6.0	7.95
KSH	12.2	316	cP	11 25 36.6	6.7		
			S	11 27 50.6	5.6		
			LN	Ms=4.7		10.0	2.60
WMQ	12.6	2	P	11 25 35.0	−1.0		
CD2	14.4	87	cP	11 26 00.0	0.4		
			(S)	11 28 40.0	0.6		
			LE	Ms=4.7		8.0	1.51
LZH	14.9	66	cP	11 26 02.5	−3.5		
KMI	15.2	110	cP	11 26 10.0	0.3		
			cS	11 28 49.0	−8.7		
			LN	Ms=4.6		10.0	1.30
GYA	17.9	100	P	11 26 43.0	−1.1		
			S	11 29 53.4	−6.0		
			LN	Ms=4.8		10.0	1.50
XAN	18.7	75	cP	11 26 52.0	−2.2		
BTO	20.9	57	cP	11 27 17.2	−0.5		
			eS	11 30 57.0	−7.1		
HHC	22.1	57	cP	11 27 30.2	0.5		
WHN	23.5	84	cP	11 27 44.5	0.7		
BJI	25.3	61	cP	11 28 02.5	1.8		
TIA	25.5	71	cP	11 28 04.1	0.7		
CN2	32.8	56	cP	11 29 03.0	−5.1		

1986 6 29
O=11 57 42.9 ± 0.11s
LAT=28.16 S ± 5.03km
LONG=177.76 W ± 4.37km
DEPTH= 18 km ± 1.54km
STATIONS USED = 63, STAND DEV= 2.42s
Ms=6.2/21, m_B=6.0/ 9

QZH	80.9	305	eP	12 10 01.0	2.7		

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			S	12 20 06.0	2.6		
			LN	Ms=5.8		20.0	2.77
SSE	82.8	311	eP	12 10 08.0	−0.4		
			PMZ	m_B=5.9		10.0	1.28
			eS	12 20 24.0	−0.9		
			sS	12 20 41.0	4.7		
			SS	12 25 40.0	−9.4		
			LN	Ms=6.2		22.0	2.99
			LE			23.0	6.37
GZH	83.7	300	eP	12 10 12.0	−1.0		
			eS	12 20 38.0	4.0		
			LN	Ms=6.0		14.0	2.17
			LE			15.0	1.85
NJ2	85.0	310	eP	12 10 18.5	−0.8		
			eS	12 20 44.0	−2.4		
			LN	Ms=6.0		15.0	3.10
MDJ	86.9	325	eP	12 10 28.5	−0.5		
			pP	12 10 36.0	0.3		
			SKS	12 20 48.0	−3.3		
			eS	12 21 00.0	−5.4		
			PS	12 21 58.0			
WHN	87.2	307	eP	12 10 29.0	−1.2		
			eSKS	12 20 54.0	1.0		
			eS	12 21 07.0	−0.8		
			SMN	m_B=6.0		8.0	1.06
SNY	88.2	320	eP	12 10 33.2	−2.0		
			PMZ	m_B=5.9		11.0	0.93
			PP	12 14 07.0	3.3		
			S	12 21 07.0	−8.9		
			SMN			18.0	2.43
			SME			16.0	1.39
			SS	12 26 59.0	−9.3		
			LN	Ms=6.1		28.0	5.35
			LE			16.0	1.39
CN2	88.5	323	+P	12 10 36.0	−0.6		
			PMZ	m_B=6.0		5.0	0.60
			eS	12 21 19.0	−1.2		
			ScS	12 21 26.0	2.8		
			LN	Ms=6.1		23.0	5.00
TIA	88.6	313	eP	12 10 37.2	0.1		
			eSKS	12 21 09.0	7.0		
			S	12 21 26.0	6.4		
			SME	m_B=6.1		11.5	1.96
			LE	Ms=6.3		29.0	9.85
GYA	90.6	300	P	12 10 50.4	3.6		
			SKS	12 21 24.0	9.7		
			S	12 21 43.0	5.0		
BJI	91.5	315	eP	12 10 49.5	−1.1		
			eSKS	12 21 19.5	0.3		
			eS	12 21 50.0	2.7		
			SMN	m_B=6.0		12.0	1.34
			SME			11.0	0.97
			LN	Ms=5.9		21.0	2.78
TIY	92.5	312	P	12 10 55.8	0.3		
			SKS	12 21 28.0	2.8		
			S	12 22 04.0	9.1		
			SMN	m_B=6.1		8.0	1.19
			SME			12.0	1.03
			LN	Ms=6.2		23.0	5.43
			LE			27.0	4.48
XAN	92.9	307	cP	12 10 56.8	−0.5		
			cSKS	12 21 28.5	1.0		
			cS	12 21 58.0	−2.2		
			SMN			14.0	1.50
			SME			13.0	3.41
KMI	93.0	297	cP	12 11 02.0	4.2		
			SKS	12 21 34.0	6.1		
HHC	94.8	314	cP	12 11 08.0	1.9		
			LE	Ms=6.3		14.0	4.33
CD2	95.1	302	cP	12 11 08.8	1.7		
			S	12 22 19.0	2.3		
			LN	Ms=6.9		8.0	9.63
BTO	95.7	313	P	12 11 11.0	1.0		
			cPP	12 15 04.0	1.5		
			cSKS	12 21 44.5	1.9		
			S	12 22 24.5	2.6		
			LN	Ms=6.0		17.0	1.10
			LE			17.0	2.60
GTA	101.9	308	cP	12 11 40.0	1.7		
			LE	Ms=5.9		17.0	1.97
KSH	119.2	302	cPKP	12 16 38.5	6.1		
			LN	Ms=6.4		10.0	2.60

1986 6 29

O=12 31 15.6 ± 0.12s
LAT=15.04 N ± 2.12km
LONG= 96.09 E ± 1.71km
DEPTH= 17 km ± 0.32km
STATIONS USED = 74, STAND DEV= 1.73s
Ms=5.3/20, m_B=5.7/ 2

KMI	11.8	31	eP	12 34 10.0	3.1		
			S	12 36 22.0	3.2		
			LE	Ms=5.2		10.0	7.90
GYA	15.0	39	−P	12 34 51.0	1.3		
			sP	12 34 56.0	−2.7		
			S	12 37 37.0	0.8		
			LN	Ms=5.3		10.0	6.00
			LE			10.0	3.90
LSA	15.3	343	eP	12 34 52.5	−0.6		
CD2	17.3	23	eP	12 35 17.5	−0.8		

			(S)	12 38 31.0	2.1		
			LE	Ms=5.4		7.0	5.35
GZH	18.2	61	+P	12 35 31.0	2.0		
LZH	22.1	17	−P	12 36 12.0	−0.1		
			PMZ			1.5	0.12
			LN	Ms=5.2		10.0	2.91
XAN	22.2	29	eP	12 36 10.8	−2.2		
			ePP	12 36 39.0	0.3		
			eS	12 40 10.0	−1.9		
			LN	Ms=5.4		9.0	2.90
			LE			10.0	3.39
WHN	22.8	44	eP	12 36 18.5	−0.4		
QZH	23.3	61	eP	12 36 22.0	−1.9		
			eS	12 40 30.0	−1.8		
			LN	Ms=5.1		8.0	1.88
GTA	24.5	7	−iP	12 36 36.5	0.8		
			eS	12 40 51.0	−1.9		
			LN	Ms=5.0		8.5	1.41
TIY	26.8	30	P	12 36 58.0	0.4		
BTO	28.2	23	eP	12 37 08.5	−1.7		
TIA	28.2	38	eP	12 37 08.5	−1.8		
HHC	29.0	25	P	12 37 17.0	−0.5		
WMQ	29.6	348	P	12 37 24.0	1.7		
KSH	30.0	328	eP	12 37 27.5	0.8		
			eS	12 42 25.5	2.2		
			LN	Ms=5.1		11.0	1.60
BJI	30.5	31	eP	12 37 30.0	−0.2		
DL2	32.7	39	eP	12 37 49.0	−0.9		
SNY	35.7	36	+iP	12 38 15.0	−0.8		
CN2	38.0	35	eP	12 38 34.0	−1.4		

1986 6 29
O=13 46 39.7 ± 0.16s
LAT=27.86 S ± 2.77km
LONG=177.85 W ± 2.61km
DEPTH= 14 km ± 0.22km
STATIONS USED = 21, STAND DEV= 1.03s

SNY	87.9	320	eP	13 59 31.4	0.2		
CN2	88.2	323	eP	13 59 31.0	−1.5		
TIA	88.3	313	eP	13 59 33.0	−0.2		
BJI	91.2	315	eP	13 59 47.0	0.3		
TIY	92.3	312	eP	13 59 52.4	0.7		
XAN	92.7	307	P	13 59 54.1	0.6		

1986 6 29
O=14 09 04.5 ± 0.17s
LAT=28.05 S ± 4.74km
LONG=177.82 W ± 3.74km
DEPTH= 28 km ± 0.91km
STATIONS USED = 44, STAND DEV= 2.36s

Ms=5.3/ 4, m_B=5.6/ 3

QZH	80.8	305	+P	14 21 18.0	0.2		
			cS	14 31 24.0	1.1		
			LN	Ms=5.2		24.0	0.81
SSE	82.7	311	eP	14 21 26.5	−1.4		
NJ2	84.8	310	+P	14 21 41.0	2.2		
MDJ	86.8	325	eP	14 21 50.2	1.8		
WHN	87.1	307	P	14 21 50.0	0.3		
DL2	87.3	317	eP	14 21 50.0	−1.0		
SNY	88.1	320	+P	14 21 55.4	0.8		
CN2	88.4	323	−P	14 21 55.0	−1.0		
TIA	88.5	313	eP	14 21 57.0	0.4		
GYA	90.5	300	P	14 22 07.0	0.7		
BJI	91.4	315	eP	14 22 10.0	−0.1		
			PMZ			3.0	0.19
			cSKS	14 32 46.0	8.5		
			cS	14 33 12.5	7.2		
			SMN	m_B=5.6		8.0	0.41
			SME			11.0	0.32
TIY	92.4	312	P	14 22 16.2	1.2		
			pP	14 22 25.5	1.9		
			eS	14 33 16.5	1.7		
			SMN	m_B=5.5		8.0	0.34
			LN	Ms=5.6		19.0	0.85
			LE			23.0	1.31
XAN	92.8	307	eP	14 22 17.7	0.9		
			eS	14 33 18.0	−0.2		
			csS	14 33 34.0	1.4		
KMI	92.9	297	eP	14 22 18.5	1.1		
GTA	101.8	308	eP	14 22 58.1	0.3		
KSH	119.1	302	cPKP	14 27 47.5	−4.7		
			cPP	14 29 11.5	−4.6		

1986 6 29
O=15 00 14.1 ± 0.09s
LAT=28.10 S ± 4.00km
LONG=177.51 W ± 4.46km
DEPTH= 20 km ± 1.35km
STATIONS USED = 51, STAND DEV= 2.11s
Ms=5.4/ 6, m_B=5.7/ 5

QZH	81.0	304	eP	15 12 32.0	2.2		
			sP	15 12 42.0	1.9		
			SKS	15 22 43.0	1.3		
			eS	15 22 36.0	−1.0		
			SMN	m_B=5.6		8.0	0.42
			LN	Ms=5.2		24.0	0.81
NJ2	85.1	310	−P	15 12 51.0	0.3		
MDJ	87.0	325	P	15 12 59.0	−1.1		
			pP	15 13 08.0	0.8		
			eS	15 23 31.0	−5.6		

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			PS	15 24 32.0			
WHN	87.3	307	eP	15 13 00.5	−1.1		
DL2	87.6	317	eP	15 13 05.0	2.2		
SNY	88.3	320	eP	15 13 06.2	−0.2		
CN2	88.6	323	−P	15 13 06.8	−0.9		
			PMZ	m_B = 6.3		5.0	1.30
			pP	15 13 16.0	1.0		
			eS	15 23 48.0	−3.5		
			esS	15 24 00.0	−3.5		
TIA	88.7	313	eP	15 13 09.1	0.6		
			sP	15 13 20.0	1.2		
			SKS	15 23 34.5	1.2		
			eS	15 23 54.0	1.1		
			LN	Ms = 5.4		35.0	1.06
			LE			35.0	1.19
GYA	90.8	300	P	15 13 18.0	−0.3		
			sP	15 13 30.0	1.5		
			S	15 24 03.0	−6.9		
BJI	91.6	315	eP	15 13 20.0	−1.8		
			PMZ	m_B = 6.0		6.0	0.53
			eSKS	15 23 47.0	−3.3		
			eS	15 24 26.0	7.2		
			SMN	m_B = 5.7		10.0	0.63
TIY	92.7	312	eP	15 13 27.0	0.1		
			pP	15 13 38.0	4.0		
			SMN	m_B = 5.7		9.0	0.63
			PS	15 25 55.0			
			LE	Ms = 5.4		21.0	1.00
XAN	93.1	307	+P	15 13 29.0	0.3		
			(S)	15 24 35.0	3.1		
KMI	93.2	297	eP	15 13 34.0	4.6		
CD2	95.2	302	eP	15 13 39.3	0.7		
			S	15 24 50.0	1.5		
			LE	Ms = 5.7		22.0	1.85
GTA	102.1	308	eP	15 14 09.8	0.1		
KSH	119.4	302	(PKP)	15 19 00.5	−3.0		
			PP	15 20 26.5	−1.9		

1986 6 29
O = 19 44 28.8 ± 0.04s
LAT = 84.05 N ± 0.76km
LONG = 112.15 E ± 0.90km
DEPTH = 10 km ± 0.03km
STATIONS USED = 30, STAND DEV = 0.87s

WMQ	41.0	207	P	19 52 14.8	0.6
SNY	42.5	167	−P	19 52 26.5	−0.1
BJI	44.2	176	eP	19 52 41.0	0.8
GTA	44.9	194	−P	19 52 46.0	−0.5
TIA	48.0	175	eP	19 53 10.3	−0.3
XAN	50.2	183	+P	19 53 26.8	−0.5
CD2	53.3	189	(P)	19 53 51.1	−0.1
GYA	57.7	186	P	19 54 22.8	−0.3

1986 6 29
O = 20 11 50.1 ± 0.33s
LAT = 6.87 N ± 7.82km
LONG = 73.04 W ± 9.35km
DEPTH = 159 km ± 1.69km
STATIONS USED = 84, STAND DEV = 3.65s

MDJ	124.8	340	cPKP	20 30 34.5	2.2
KSH	125.7	29	cPKP	20 30 36.6	2.4
WMQ	126.6	17	+iPKP	20 30 37.5	1.7
CN2	126.9	343	−PKP	20 30 37.8	1.6
SNY	129.2	344	−PKP	20 30 42.6	1.8
HHC	132.3	355	PKP	20 30 49.4	2.5
DL2	132.5	344	cPKP	20 30 48.0	1.0
BJI	132.6	350	cPKP	20 30 49.0	1.8
			cPP	20 33 10.0	−5.5
BTO	132.7	357	+PKP	20 30 50.0	2.5
GTA	133.5	8	+iPKP	20 30 51.0	2.0
TIY	135.4	354	+PKP	20 30 54.5	2.0
LZH	137.2	4	+PKP	20 30 59.0	3.1
XAN	139.3	358	cPKP	20 30 52.8	−6.8
NJ2	139.7	344	cPKP	20 30 57.0	−3.2
SSE	139.9	341	cPKP	20 30 55.5	−5.1
LSA	140.6	22	cPKP	20 30 56.0	−6.4
WHN	142.1	350	cPKP	20 31 00.5	−4.1
CD2	142.3	5	cPKP	20 31 02.8	−2.2
QZH	146.4	341	cPKP	20 31 12.0	0.1
			PKP_2	20 31 57.0	
GYA	146.9	0	PKP	20 31 15.0	2.2
			sPKP	20 32 03.0	
			PP	20 34 42.0	−0.7
KMI	147.9	7	+PKP	20 31 17.0	2.3
GZH	149.6	348	cPKP	20 31 21.0	4.0

1986 6 29
O = 21 47 56.7 ± 0.26s
LAT = 5.48 S ± 2.89km
LONG = 29.21 E ± 4.27km
DEPTH = 14 km ± 0.58km
STATIONS USED = 66, STAND DEV = 1.68s
Ms = 5.7 / 18, m_B = 5.5 / 3

KSH	62.1	40	P	21 58 20.1	−0.3		
			cS	22 06 35.1	−8.8		
			LE	Ms = 5.9		14.0	3.70
LSA	68.9	55	P	21 59 03.0	−1.2		
WMQ	71.9	40	−iP	21 59 21.6	−0.5		
			PMZ			1.2	0.12
			PP	22 01 59.0	−3.3		

			S	22 08 40.0	−0.2		
			PS	22 09 04.0			
			SS	22 13 24.0	5.9		
			LN	Ms=5.8		24.0	3.61
KMI	77.5	63	−P	21 59 54.5	−0.5		
			pP	22 00 05.5	4.7		
			eS	22 09 42.0	−3.3		
			LN	Ms=5.4		18.0	1.00
GTA	78.7	48	−iP	22 00 01.0	−0.2		
			PP	22 02 56.9	−3.1		
			eS	22 09 55.5	−2.0		
			SS	22 15 02.0	−0.5		
			LE	Ms=5.6		22.0	1.92
CD2	79.7	57	eP	22 00 06.4	0.0		
			eS	22 10 05.0	−2.6		
			LE	Ms=5.7		22.0	2.41
LZH	80.9	52	+P	22 00 13.5	0.3		
			PMZ			1.5	0.12
GYA	81.3	62	−P	22 00 15.0	0.0		
			S	22 10 24.0	1.5		
XAN	84.6	55	eP	22 00 31.7	−0.2		
			S	22 10 56.0	0.2		
BTO	86.6	49	+P	22 00 43.0	1.0		
			ePP	22 04 01.0	−3.8		
			eSKS	22 11 05.0	0.9		
			eS	22 11 11.5	−5.9		
			LN	Ms=5.9		22.0	2.80
			LE			22.0	2.30
GZH	86.8	67	+P	22 00 44.0	1.4		
TIY	88.0	52	eP	22 00 49.0	0.4		
			SKS	22 11 17.0	4.0		
			S	22 11 27.0	−1.6		
			SME	m_B=5.8		7.0	0.59
			LN	Ms=5.7		21.0	1.72
			LE			20.0	0.86
WHN	88.6	59	eP	22 00 52.0	0.6		
BJI	91.2	50	eP	22 01 04.0	0.4		
			eSKS	22 11 35.0	2.7		
			eS	22 11 57.5	−1.9		
			SME	m_B=5.4		9.0	0.29
			LN	Ms=5.6		20.0	1.44
TIA	91.5	54	eP	22 01 04.8	−0.4		
			eS	22 11 55.0	−7.6		
			LE	Ms=5.8		20.0	2.10
NJ2	92.6	58	+P	22 01 10.2	0.2		
			LE	Ms=5.7		20.0	1.70
SSE	94.5	59	eP	22 01 18.7	−0.1		
DL2	95.3	52	eP	22 01 21.2	−1.3		
CN2	98.3	47	eP	22 01 35.6	−0.4		

1986 6 30
O=01 21 25.6 ± 0.08s
LAT=51.53 N ± 3.80km
LONG=176.81 W ± 1.45km
DEPTH= 29 km ± 0.86km
STATIONS USED = 32, STAND DEV= 1.72s

SNY	41.0	281	eP	01 29 08.8	0.8		
BJI	46.6	283	eP	01 29 53.5	0.4		
TIA	48.4	279	eP	01 30 06.4	−1.0		
TIY	50.3	283	eP	01 30 22.5	0.4		
WHN	53.9	275	eP	01 30 48.5	−0.5		
XAN	54.8	282	+P	01 30 55.3	−0.9		
GTA	56.7	293	P	01 31 08.6	−0.7		
CD2	60.2	283	eP	01 31 39.2	5.5		
GYA	61.5	277	P	01 31 42.6	−0.5		
KMI	64.9	279	+P	01 32 05.0	−0.6		

1986 6 30
O=01 57 20.8 ± 0.17s
LAT=34.58 N ± 1.58km
LONG= 87.64 E ± 1.87km
DEPTH= 34 km ± 0.19km
STATIONS USED = 26, STAND DEV= 2.64s
Ms=4.5/ 7,

LSA	5.7	148	cPg	01 59 03.0	0.9		
			LN	Ms=4.5		8.0	2.83
			LE			7.0	3.35
WMQ	9.2	0	P	01 59 35.2	0.4		
GTA	10.9	60	−P	01 59 58.5	1.2		
			LE	Ms=4.2		16.0	1.71
CD2	14.0	101	eP	02 00 42.6	2.8		
			eS	02 03 17.0	1.4		
			LE	Ms=4.7		8.0	1.44
XAN	17.6	86	eP	02 01 24.0	−1.2		
GYA	18.3	111	P	02 01 30.0	−3.6		
TIY	20.2	74	eP	02 01 54.2	−2.0		
			LE	Ms=3.8		12.0	0.18
BJI	23.3	68	eP	02 02 27.5	0.9		
			eS	02 06 36.0	3.0		
			LN	Ms=4.3		12.0	0.41
CN2	30.5	61	eP	02 03 30.0	−3.2		
			eS	02 08 24.0	−7.2		

1986 6 30
O=04 39 05.3 ± 0.04s
LAT=51.43 N ± 1.53km
LONG=176.84 W ± 0.76km
DEPTH= 31 km ± 0.34km
STATIONS USED = 23, STAND DEV= 0.96s

BJI	46.6	283	eP	04 47 33.0	0.5

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XAN	54.9	282	+P	04 48 34.8	−0.8	
CD2	60.2	283	eP	04 49 12.8	−0.3	
GYA	61.5	277	P	04 49 22.4	−0.1	
KMI	64.9	279	eP	04 49 45.5	0.5	

1986 6 30
O = 06 23 46.2 ± 0.11s
LAT = 51.30 N ± 4.06km
LONG = 176.25 W ± 1.82km
DEPTH = 32 km ± 0.48km
STATIONS USED = 81, STAND DEV = 0.98s
Ms = 5.0 / 15, m_B = 5.7 / 3

MDJ	36.2	281	eP	06 30 46.0	−2.0		
			pP	06 30 54.0	−3.1		
			S	06 36 28.0	3.6		
CN2	39.1	283	+P	06 31 12.0	−0.8		
			PMZ	m_B = 5.7		4.0	0.50
			eS	06 37 11.0	0.4		
SNY	41.4	281	−iP	06 31 32.5	1.2		
			PMZ			3.0	0.82
			S	06 37 48.5	5.5		
			LN	Ms = 5.0		21.0	1.05
			LE			21.0	0.85
DL2	44.3	279	eP	06 31 55.0	−0.1		
BJI	47.0	284	eP	06 32 17.0	0.7		
			PMZ	m_B = 5.8		4.0	0.55
			esP	06 32 31.0	1.6		
			eS	06 39 08.0	3.2		
			esS	06 39 24.0	3.9		
			LN	Ms = 5.0		18.0	1.05
TIA	48.8	279	eP	06 32 29.8	−0.6		
			pP	06 32 39.0	−0.7		
			eS	06 39 30.0	−0.4		
			LE	Ms = 5.0		18.0	0.96
HHC	49.2	288	+iP	06 32 36.0	1.7		
SSE	49.6	271	+P	06 32 37.5	0.6		
			PMZ			1.1	0.050
			eS	06 39 48.0	6.0		
			LE	Ms = 4.9		18.0	0.65
BTO	50.3	288	−iP	06 32 44.0	1.4		
			pP	06 32 50.0	−1.7		
			cPP	06 34 43.0	4.7		
			S	06 39 58.0	6.9		
			LN	Ms = 5.3		20.0	1.10
			LE			20.0	1.80
NJ2	50.4	274	+P	06 32 42.0	−1.1		
			PMZ	m_B = 5.6		5.0	0.40
			LN	Ms = 5.0		13.0	0.60
TIY	50.7	284	+iP	06 32 46.0	0.7		
			PMZ			1.0	0.13
			S	06 40 05.5	9.5		
			LN	Ms = 4.9		17.0	0.62
WHN	54.3	276	P	06 33 11.0	−0.9		
			eS	06 40 48.0	2.0		
			LN	Ms = 5.1		18.0	1.06
XAN	55.2	283	+P	06 33 18.6	−0.5		
			sP	06 33 31.6	−0.8		
			S	06 41 06.0	8.0		
QZH	55.5	268	eP	06 33 21.0	−0.2		
			eS	06 41 03.0	−0.1		
LZH	56.9	288	+iP	06 33 32.0	0.5		
			PMZ			1.4	0.33
GTA	57.1	293	+iP	06 33 31.6	−0.8		
			eS	06 41 25.5	1.6		
			LE	Ms = 5.2		15.0	0.88
GZH	60.2	270	P	06 33 54.7	0.9		
CD2	60.6	284	eP	06 33 56.4	−0.1		
			eS	06 42 15.0	6.1		
WMQ	60.7	304	P	06 33 56.5	−1.2		
GYA	61.9	278	P	06 34 05.0	−0.8		
			sP	06 34 20.0	1.0		
			S	06 42 29.0	4.0		
KMI	65.3	280	+P	06 34 28.0	−0.2		
LSA	69.0	291	+iP	06 34 52.0	0.5		
KSH	69.9	308	+iP	06 34 57.9	1.3		
			eS	06 44 05.0	1.6		

1986 6 30
O = 06 28 01.3 ± 0.19s
LAT = 51.67 N ± 1.06km
LONG = 176.51 W ± 1.08km
DEPTH = 14 km ± 1.67km
STATIONS USED = 28, STAND DEV = 1.18s

CN2	38.9	282	P	06 35 28.0	−0.6	
BJI	46.7	283	eP	06 36 33.5	1.4	
HHC	49.0	287	eP	06 36 50.0	0.0	
BTO	50.1	288	eP	06 36 58.0	−0.3	
TIY	50.4	283	P	06 37 02.4	1.2	
XAN	55.0	282	P	06 37 33.0	−2.2	
LZH	56.7	287	−iP	06 37 48.0	0.6	
			PMZ			1.5 0.070
GTA	56.8	293	P	06 37 47.6	−0.5	
GYA	61.7	278	P	06 38 42.0	20.6	

1986 6 30
O = 06 33 53.2 ± 0.04s
LAT = 51.26 N ± 1.85km
LONG = 176.18 W ± 0.80km
DEPTH = 28 km ± 0.46km
STATIONS USED = 11, STAND DEV = 1.28s

BJI	47.0	284	eP	06 42 25.0	0.8
TIY	50.7	284	eP	06 42 52.4	−0.8
XAN	55.3	283	eP	06 43 27.0	0.0

1986 6 30
O = 06 55 09.3 ± 0.06s
LAT = 51.26 N ± 3.12km
LONG = 176.28 W ± 1.27km
DEPTH = 28 km ± 0.90km
STATIONS USED = 22, STAND DEV = 1.40s

BJI	46.9	284	eP	07 03 40.0	0.1
TIY	50.7	284	eP	07 04 09.9	1.0
XAN	55.2	283	eP	07 04 42.6	−0.2
LZH	56.9	288	P	07 04 53.3	−1.9
GTA	57.1	293	P	07 04 54.5	−1.6
CD2	60.5	284	eP	07 05 20.8	0.7
GYA	61.9	278	P	07 05 30.8	1.4

1986 6 30
O = 06 58 38.0 ± 0.09s
LAT = 51.41 N ± 3.32km
LONG = 176.37 W ± 1.41km
DEPTH = 29 km ± 0.52km
STATIONS USED = 29, STAND DEV = 1.27s

SNY	41.3	281	eP	07 06 23.0	0.2
BJI	46.9	284	eP	07 07 08.0	0.3
TIA	48.7	279	eP	07 07 21.0	−1.0
TIY	50.6	284	eP	07 07 37.3	0.5
XAN	55.1	283	eP	07 08 10.8	0.1
LZH	56.8	288	P	07 08 23.5	0.5
CD2	60.5	283	eP	07 08 48.1	0.0
GYA	61.8	278	P	07 08 58.6	1.2

1986 6 30
O = 07 39 35.4 ± 0.10s
LAT = 18.79 N ± 1.66km
LONG = 145.62 E ± 2.96km
DEPTH = 226 km ± 0.38km
STATIONS USED = 14, STAND DEV = 2.56s

SSE	25.2	304	eP	07 44 47.0	4.2	
BJI	33.0	316	(P)	07 45 47.0	−4.7	

1986 6 30
O = 18 04 07.6 ± 0.06s
LAT = 2.92 S ± 0.79km
LONG = 138.83 E ± 1.54km
DEPTH = 44 km ± 0.14km
STATIONS USED = 31, STAND DEV = 1.07s

SSE	37.8	335	P	18 11 22.4	0.7	
			PMZ		0.7	0.010
NJ2	39.6	333	+P	18 11 38.8	1.8	
XAN	46.3	325	eP	18 12 31.4	−0.1	
SNY	46.6	344	+iP	18 12 34.4	0.4	
CD2	47.4	318	eP	18 12 40.6	0.4	
BJI	47.5	336	eP	18 12 40.0	−1.0	
MDJ	48.0	351	eP	18 12 34.0	−10.4	
CN2	48.0	347	eP	18 12 44.0	−1.0	
BTO	50.7	332	eP	18 13 05.5	0.0	
GTA	55.3	324	eP	18 13 39.4	−0.4	

1986 6 30
O = 22 47 15.1 ± 0.09s
LAT = 41.34 N ± 1.40km
LONG = 77.43 E ± 1.14km
DEPTH = 34 km ± 0.18km
STATIONS USED = 19, STAND DEV = 2.27s
M_L = 4.3 / 4,

WMQ	8.0	68	cPn	22 49 09.6	0.5	
			Sn	22 50 41.3	1.4	
			Sg	22 51 25.0	0.1	
			SMN	M_L = 4.3	0.8	0.080
GTA	17.2	89	P	22 51 12.6	−1.6	
			LG_1	22 56 13.3	−0.8	
			LN		1.3	0.020

1986 6 30
O = 22 52 11.5 ± 0.23s
LAT = 11.60 N ± 6.33km
LONG = 85.81 W ± 8.05km
DEPTH = 51 km ± 2.27km
STATIONS USED = 65, STAND DEV = 2.39s
Ms = 6.0 / 13, m_B = 5.8 / 1

MDJ	115.5	333	cPKP	23 10 49.0	0.4	
CN2	117.9	335	cPKP	23 10 53.0	−0.4	
SNY	120.4	335	cPKP	23 10 59.2	1.1	
WMQ	124.5	6	PKP	23 11 07.6	1.4	
BJI	124.7	340	cPKP	23 11 08.0	1.5	
HHC	125.4	344	PKP	23 11 10.0	2.1	
BTO	126.0	345	PKP	23 11 11.5	2.4	
KSH	126.5	18	PKP	23 11 11.6	1.6	
			PP	23 13 02.6	−6.4	
			cSKKS	23 18 21.6		
			LE	Ms = 6.4	18.0	5.10
TIA	127.8	337	cPKP	23 11 14.0	1.6	
			cPP	23 13 12.0	−5.4	
			LN	Ms = 5.6	25.0	0.72
			LE		25.0	0.67
TIY	128.0	342	PKP	23 11 14.5	1.5	
GTA	129.0	354	PKP	23 11 15.7	0.8	
			cPP	23 13 19.3	−6.7	

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			LE		Ms = 5.5		27.0	0.95
SSE	130.3	329	PKP	23	11 18.0	0.9		
			PP	23	13 30.0	−3.9		
			LN		Ms = 6.0		23.0	1.07
			LE				22.0	2.06
NJ2	130.6	332	+PKP	23	11 18.0	0.2		
			PP	23	13 37.0	0.6		
LZH	131.7	350	−iPKP	23	11 23.0	2.9		
			LE		Ms = 6.1		22.0	2.40
XAN	132.5	343	ePKP	23	11 23.2	1.7		
WHN	133.8	336	PKP	23	11 25.5	1.5		
			PP	23	13 56.0	−1.0		
			PPMZ		m_B = 5.8		6.0	0.31
QZH	136.6	327	PKP	23	11 30.0	1.0		
			PP	23	14 12.0	−1.5		
			LN		Ms = 5.9		20.0	1.66
CD2	136.7	348	ePKP	23	11 32.1	2.7		
			ePP	23	14 20.0	5.5		
			LN		Ms = 5.8		32.0	1.83
LSA	138.8	4	ePKP	23	11 34.6	1.0		
GYA	140.3	342	+PKP	23	11 38.0	2.1		
GZH	140.8	331	ePKP	23	11 33.0	−3.6		
			PP	23	14 38.0	−1.6		
KMI	142.6	347	ePKP	23	11 39.0	−0.9		
			LE		Ms = 6.2		20.0	2.60

1986 6 30

O = 23 44 34.5 ± 0.07s

LAT = 51.28 N ± 3.07km

LONG = 177.24 W ± 1.13km

DEPTH = 35 km ± 0.39km

STATIONS USED = 18, STAND DEV = 1.71s

BJI	46.3	283	eP	23 52 59.0	−0.6
TIA	48.1	278	eP	23 53 13.7	0.0
XAN	54.6	282	eP	23 54 02.3	−0.5
GTA	56.5	293	P	23 54 15.7	−0.7
CD2	60.0	283	eP	23 54 40.2	−0.2