中国地震台网观测报告

BULLETIN OF SEISMOLOGICAL OBSERVATIONS OF CHINESE STATIONS

1985

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国家地震局地球物理研究所编

地震出版社出版

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中国 北京

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INSTITUTE OF GEOPHYSICS
STATE SEISMOLOGICAL BUREAU

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目　　录

Constants

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
			1985 7 1				
			O=02 23 52.1	**± 0.11s**			
			LAT=18.40 N	**± 1.94km**			
			LONG= 87.23 E	**± 1.42km**			
			DEPTH= 9 km	**± 0.17km**			
			STATIONS USED = 92, STAND DEV= 1.4os				
			Ms=5.0/21,	**m_B=5.7/13**			
LSA	11.8	17	P	02 26 41.0	−3.3		
			S	02 28 48.5	−7.8		
			LN	Ms=4.3		8.0	0.84
KMI	15.9	62	−iP	02 27 40.0	2.1		
			PMZ			3.0	2.03
			pP	02 27 44.0	1.9		
			sP	02 27 49.0	3.3		
			PP	02 27 52.0	2.0		
			eS	02 30 27.0	−7.6		
			sS	02 30 46.0	4.7		
			LN	Ms=5.1		10.0	4.25
CD2	19.5	47	−iP	02 28 20.7	−1.6		
			iS	02 31 57.0	0.6		
			LN	Ms=5.1		11.0	2.55
			LE			34.0	8.94
GYA	19.7	62	−P	02 28 23.0	−1.4		
			PMZ	m_B=5.7		5.0	1.90
			PP	02 28 38.0	−3.8		
			S	02 31 59.0	−0.7		
			SMN	m_B=5.8		8.0	2.90
			SME			8.0	2.40
			SS	02 32 25.0	−1.5		
			LN	Ms=5.1		14.0	3.30
			LE			14.0	2.30
QZN	21.4	85	eP	02 28 43.8	0.9		
			pP	02 28 48.5	0.5		
			PP	02 29 05.0	−1.3		
			iS	02 32 43.5	7.5		
			SMN	m_B=5.7		11.0	3.30
			SME			10.0	1.50
			LN	Ms=4.9		10.0	1.10
			LE			10.0	0.90
LZH	22.9	36	eP	02 29 00.5	2.5		
			PMZ			3.0	3.20
			eS	02 33 08.0	4.2		
			SME			13.0	4.04
			sS	02 33 16.0	4.0		
			LN	Ms=4.9		11.0	1.43
KSH	23.1	337	−P	02 29 03.0	3.0		
			sP	02 29 09.0	1.0		
			iS	02 33 12.0	4.6		
			SME	m_B=6.2		7.0	7.00
GTA	23.6	25	−iP	02 29 05.3	0.7		
			PMZ	m_B=5.9		5.0	2.09
			iS	02 33 15.0	−0.7		
			SMN			22.0	8.35
			LE	Ms=5.6		24.0	17.0
XAN	24.8	47	−iP	02 29 16.5	0.0		
			sP	02 29 24.0	−0.6		
			S	02 33 33.5	−2.4		
			SMN	m_B=6.1		7.0	4.38
GZH	24.8	75	+P	02 29 18.6	2.1		
			S	02 33 36.0	0.0		
			SMN	m_B=5.8		8.0	1.98
			SME			8.0	1.68
			LE	Ms=4.7		28.0	2.29
WMQ	25.3	1	−iP	02 29 22.5	1.2		
			S	02 33 47.0	2.7		
			SMN	m_B=5.9		8.0	2.19
			SME			8.0	1.96
WHN	27.4	59	−iP	02 29 39.5	−0.8		
			PMZ			3.0	0.80
			pP	02 29 43.6	−2.0		
			sP	02 29 46.0	−2.4		
			S	02 34 16.0	−2.3		
			SMN	m_B=5.5		10.0	1.21
			LN	Ms=5.0		13.0	1.61
TIY	29.3	44	−iP	02 29 53.0	−4.0		
			PMZ			0.8	0.21
			S	02 34 43.0	−4.9		
			sS	02 34 53.0	−4.6		
			LN	Ms=5.0		10.0	1.09
			LE			10.0	0.58
BTO	29.5	37	−iP	02 29 59.0	−0.7		
			eS	02 34 52.0	−1.6		
			LN	Ms=5.1		11.0	1.20
			LE			11.0	0.90
			LZ	Ms=4.9		11.0	0.90
QZH	29.8	72	eP	02 30 01.8	−0.2		
			eS	02 34 58.0	0.4		
			SME	m_B=5.3		10.0	0.62
			SS	02 36 41.0	9.3		
			LN	Ms=4.9		13.0	1.19
HHC	30.6	38	−P	02 30 09.8	0.7		
			S	02 35 06.0	−3.2		
			LN	Ms=5.1		14.0	1.63

			LE			9.0	0.40
NJ2	31.5	58	−iP	02 30 16.0	−1.2		
			S	02 35 23.0	−1.0		
			LN	Ms = 5.1		13.0	1.70
TIA	31.8	50	−P	02 30 18.6	−0.6		
			eS	02 35 20.5	−7.7		
			LN	Ms = 5.0		13.0	0.94
			LE			13.5	0.75
BJI	33.0	43	eP	02 30 29.5	−0.2		
			PMZ	m_B = 5.7		5.0	0.63
			eS	02 35 49.0	1.9		
			LN	Ms = 4.8		12.0	0.70
SSE	33.2	61	−P	02 30 31.0	−0.6		
			PMZ			1.0	0.090
			S	02 35 46.0	−3.7		
			sS	02 35 55.0	−4.5		
			SS	02 37 44.0	−6.5		
			eScS	02 40 56.0	−0.1		
			LE	Ms = 5.1		20.0	2.59
DL2	36.1	48	−iP	02 30 57.0	0.0		
			eS	02 36 32.0	−4.3		
			LN	Ms = 4.9		12.0	0.80
SNY	38.7	45	−iP	02 31 18.2	−0.5		
			PMZ			2.0	0.71
			sP	02 31 25.5	−1.5		
			PP	02 32 43.0	−7.8		
			S	02 37 09.0	−6.0		
			sS	02 37 24.0	−0.9		
			LN	Ms = 5.1		35.0	3.05
			LE			30.0	1.46
CN2	40.8	43	−iP	02 31 35.8	−0.4		
			PMZ			3.0	0.60
			pP	02 31 39.2	−2.4		
			PP	02 33 12.5	−0.6		
			PcP	02 33 45.0	8.0		
			eS	02 37 44.0	−3.5		
			SME	m_B = 5.5		9.0	0.70
			ScS	02 41 41.0	2.2		
			LN	Ms = 4.9		12.0	0.60
MDJ	43.9	44	eP	02 31 59.0	−2.1		
			pP	02 32 02.0	−4.6		
			eS	02 38 28.0	−4.3		
			SME	m_B = 5.1		8.0	0.26
			sS	02 38 36.0	−5.3		
			SS	02 41 38.0	−1.9		

1985 7 1
O = 04 07 49.5 ± 0.15s
LAT = 3.24 S ± 2.00km
LONG = 147.07 E ± 3.27km
DEPTH = 37 km ± 0.39km
STATIONS USED = 62, STAND DEV = 1.61s
Ms = 5.3 / 19, m_B = 5.2 / 1

QZH	39.4	317	eP	04 15 17.5	0.1		
			eS	04 21 22.0	5.8		
			LE	Ms = 5.3		18.0	2.38
GZH	42.0	310	eP	04 15 41.0	1.5		
			LN	Ms = 5.1		30.0	2.46
SSE	42.1	326	eP	04 15 40.0	−0.2		
			S	04 22 06.0	9.7		
			esS	04 22 22.0	7.9		
			ScS	04 25 35.0	−1.4		
			LN	Ms = 5.2		15.0	1.69
QZN	42.8	303	eP	04 15 46.0	0.3		
			eS	04 22 09.5	2.5		
			eSS	04 25 10.0	−2.4		
			LN	Ms = 5.3		14.0	1.00
			LE			15.0	1.30
NJ2	44.2	325	−P	04 15 57.0	0.2		
			LN	Ms = 5.2		14.0	0.70
			LE			14.0	1.00
WHN	45.9	319	P	04 16 11.5	1.0		
			pP	04 16 15.5	−5.1		
			eS	04 23 00.0	8.4		
			LE	Ms = 5.2		18.0	1.56
DL2	48.1	333	eP	04 16 26.8	−0.9		
			LN	Ms = 5.4		15.0	1.07
			LE			15.0	1.41
TIA	48.2	327	eP	04 16 27.8	−1.0		
			eS	04 23 26.0	1.4		
			eSS	04 26 49.0	1.0		
			LN	Ms = 5.6		23.0	3.09
			LE			18.0	2.39
SNY	49.7	337	−P	04 16 40.0	−0.2		
			S	04 23 46.0	1.7		
			LN	Ms = 5.2		27.0	1.85
			LE			31.0	1.50
MDJ	50.1	344	eP	04 16 43.5	−0.3		
			pP	04 16 52.5	−1.4		
			sP	04 16 57.0	−1.1		
			eS	04 23 57.0	5.2		
			ScS	04 26 30.0	2.0		
			LE	Ms = 5.2		12.0	0.93
CN2	50.7	340	eP	04 16 44.5	−3.5		
			epP	04 16 55.0	−3.1		
			eS	04 23 56.0	−3.5		
			LN	Ms = 5.3		14.0	1.20
KMI	51.4	306	−P	04 16 54.5	0.8		
			pP	04 17 05.0	1.5		
			eS	04 24 12.0	2.2		

			LZ		Ms=5.6	20.0	3.80
BJI	51.6	330	eP	04 16 57.0	2.6		
			SMN		m_B=5.2	9.0	0.27
			LN		Ms=5.2	18.0	1.35
XAN	51.6	319	P	04 16 54.2	−0.9		
TIY	51.9	325	eP	04 16 57.0	0.0		
			S	04 24 10.0	−4.7		
			LE		Ms=5.3	20.0	1.96
CD2	53.4	313	−iP	04 17 08.9	0.3		
			eS	04 24 34.0	−3.1		
			LE		Ms=5.3	26.0	2.03
			LZ		Ms=5.6	22.0	3.98
HHC	54.5	327	eP	04 17 16.6	−0.3		
BTO	55.2	326	P	04 17 21.5	−0.3		
			esP	04 17 36.0	−0.1		
			eS	04 25 02.0	0.7		
			LN		Ms=5.3	19.0	1.40
			LE			19.0	1.00
LZH	56.2	318	eP	04 17 29.5	0.7		
GTA	60.7	319	P	04 18 00.0	−0.2		
			LN		Ms=5.2	20.0	1.21
WMQ	70.8	319	P	04 19 04.5	−0.3		
			eS	04 28 21.0	5.1		
			LZ		Ms=5.2	20.0	0.80
KSH	77.6	311	eP	04 19 48.0	3.6		
			eS	04 29 36.0	3.5		

1985 7 1
O=07 36 05.1 ± 0.09s
LAT=37.10 N ± 1.41km
LONG= 72.04 E ± 0.70km
DEPTH=211 km ± 0.56km
STATIONS USED = 17, STAND DEV= 1.50s
M_L=4.8/ 2,

KSH	3.9	52	−iP	07 37 09.0	2.2		
			iS	07 37 56.0	1.6		
			SMN		M_L=4.9	1.0	3.00
WMQ	13.7	56	eP	07 39 12.0	0.2		
			PMZ			0.8	0.020
			S	07 41 45.5	6.9		
GTA	21.9	75	P	07 40 45.0	2.9		

1985 7 1
O=07 49 28.8 ± 0.15s
LAT= 8.42 N ± 1.59km
LONG=126.58 E ± 1.91km
DEPTH= 82 km ± 0.60km
STATIONS USED = 82, STAND DEV= 1.29s
Ms=4.8/16, m_B=5.1/ 7

QZH	18.1	336	eP	07 53 34.6	−1.9		
			eS	07 56 56.0	3.3		
			sS	07 57 22.0	5.0		
			LN		Ms=4.6	18.0	2.03
GZH	19.3	320	+iP	07 53 51.0	0.6		
			pP	07 54 07.5	2.3		
			LN		Ms=4.8	24.0	3.85
QZN	19.4	305	−iP	07 53 51.2	0.6		
			pP	07 54 10.0	4.5		
			eS	07 57 19.0	−1.0		
			sS	07 57 37.0	−7.7		
			SS	07 57 48.0	−1.3		
			LN		Ms=5.0	20.0	3.20
			LE			18.5	3.10
SSE	23.1	348	−P	07 54 29.0	0.5		
			PMZ		m_B=5.1	6.0	0.54
			pP	07 54 48.0	1.5		
			sP	07 55 00.5	3.7		
			eS	07 58 28.0	−2.1		
			SMN		m_B=5.5	10.0	1.11
			sS	07 59 00.0	−0.7		
			LN		Ms=4.7	18.0	1.40
NJ2	24.6	344	eP	07 54 42.0	−0.7		
			S	07 58 54.0	−0.6		
			sS	07 59 30.0	3.2		
			LZ		Ms=4.7	20.0	1.40
WHN	24.8	334	eP	07 54 43.5	−1.4		
			pP	07 55 06.5	3.6		
			sP	07 55 12.4	−0.7		
			SMN		m_B=5.3	8.0	0.60
			sS	07 59 34.0	3.4		
			LN		Ms=4.6	12.0	0.71
GYA	26.1	316	P	07 54 59.0	2.2		
			pP	07 55 21.0	6.2		
			S	07 59 19.0	−0.1		
			SMN		m_B=5.4	12.0	0.90
			SME			12.0	0.90
			sS	07 59 48.0	−3.8		
			SS	08 00 22.0	−9.9		
KMI	28.1	309	+P	07 55 16.0	0.1		
			pP	07 55 34.0	−0.1		
			S	07 59 53.0	0.1		
			SMN		m_B=4.9	10.0	0.36
			LE		Ms=4.8	16.0	1.40
TIA	29.0	344	eP	07 55 21.8	−1.3		
			eS	08 00 02.0	−5.0		
			sS	08 00 31.0	−8.3		
			LN		Ms=4.7	25.0	1.17
			LE			25.0	1.14
			LZ		Ms=4.6	25.0	1.32
XAN	30.2	330	P	07 55 32.0	−2.4		

DL2	30.7	352	P	07 55 38.0	−0.2		
			sP	07 56 05.0	−2.0		
			S	08 00 34.0	1.0		
			LN	Ms=4.7		18.0	0.89
CD2	30.9	320	P	07 55 38.5	−1.7		
			LE	Ms=5.1		23.0	3.00
			LZ	Ms=5.1		30.0	4.11
TIY	31.8	338	P	07 55 47.4	−1.2		
			LN	Ms=4.5		12.0	0.29
			LE			10.0	0.23
BJI	32.8	345	eP	07 55 55.5	−1.5		
			esP	07 56 24.0	−1.9		
			SMN	m_B=4.7		9.0	0.17
SNY	33.4	356	+iP	07 56 02.2	0.5		
			S	08 01 21.0	5.9		
			sS	08 01 41.0	−7.8		
			LN	Ms=4.8		23.0	1.14
			LE			23.0	0.76
LZH	34.5	326	+P	07 56 12.0	0.7		
			PMZ			1.5	0.19
HHC	34.9	340	P	07 56 15.0	−0.3		
CN2	35.3	359	+P	07 56 17.8	0.0		
			sP	07 56 49.0	2.1		
			PP	07 57 42.0	3.9		
			PcP	07 58 47.0	0.4		
			eS	08 01 45.0	−0.1		
			PcS	08 02 29.0	−3.3		
BTO	35.3	338	P	07 56 17.0	−1.1		
			eS	08 01 41.5	−4.0		
MDJ	36.2	4	eP	07 56 27.1	1.7		
			pP	07 56 45.0	0.4		
			PP	07 57 50.0	1.4		
			eS	08 01 58.0	−0.9		
			SME	m_B=5.1		7.0	0.27
GTA	39.1	326	+iP	07 56 50.3	0.3		
			ePP	07 58 25.2	1.2		
			PcP	07 58 59.4	1.1		
			eS	08 02 48.6	5.1		
			LN	Ms=5.0		27.0	2.05
LSA	39.4	307	+iP	07 56 54.6	1.9		
			S	08 02 50.7	4.1		
WMQ	48.9	323	P	07 58 08.5	−0.2		
			pP	07 58 31.0	2.8		
			S	08 05 12.0	8.0		
			LZ	Ms=5.1		24.0	1.65
KSH	54.7	313	eP	07 58 55.0	2.7		
			epP	07 59 07.0	−5.1		
			eS	08 06 29.0	4.2		

1985 7 1

O=16 44 51.4 ± 0.23s
LAT= 3.22 S ± 3.13km
LONG=147.22 E ± 4.85km
DEPTH= 23 km ± 0.84km
STATIONS USED = 49, STAND DEV= 1.68s
Ms=5.3/17, m_B=5.5/ 3

GZH	42.1	310	eP	16 52 49.0	5.0		
			eS	16 59 06.0	3.6		
			LN	Ms=5.0		24.0	1.56
SSE	42.2	326	eP	16 52 46.0	1.5		
			eS	16 59 03.0	−0.3		
			SMN			16.0	1.16
			sS	16 59 17.0	1.1		
			LN	Ms=5.2		16.0	1.51
QZN	42.9	302	eP	16 52 49.0	−1.4		
			eS	16 59 10.0	−3.7		
			SS	17 02 20.0	1.3		
NJ2	44.2	325	eP	16 53 06.0	4.9		
			iS	16 59 42.0	9.0		
			LE	Ms=5.1		13.0	0.90
WHN	45.9	319	−P	16 53 15.3	0.4		
			pP	16 53 26.0	3.4		
			eS	16 59 56.0	−1.8		
			SMN	m_B=5.5		9.0	0.64
			LE	Ms=5.4		21.0	2.62
DL2	48.1	333	eP	16 53 31.4	−0.5		
			eS	17 00 25.0	−3.5		
			LN	Ms=5.2		16.0	1.27
TIA	48.3	327	eP	16 53 31.8	−1.2		
			eS	17 00 29.5	−1.1		
			LN	Ms=5.4		23.0	2.01
			LE			23.0	1.97
			LZ	Ms=5.3		24.0	2.39
SNY	49.7	337	eP	16 53 44.8	0.5		
			S	17 00 52.0	2.1		
			LN	Ms=5.2		30.0	1.61
			LE			29.0	1.29
MDJ	50.2	344	eP	16 53 45.5	−2.2		
			eS	17 00 53.0	−4.2		
			sS	17 01 13.0	2.9		
			LE	Ms=5.1		14.0	0.77
CN2	50.7	340	eP	16 53 52.0	0.0		
			PMZ	m_B=5.5		5.0	0.30
			sP	16 54 06.0	3.0		
			PcP	16 55 10.0	1.5		
			S	17 01 03.5	−0.4		
			SMN	m_B=5.4		8.0	0.30
			SME			8.0	0.30
			SS	17 04 35.0	−0.9		
			LN	Ms=5.3		14.0	1.20

KMI	51.5	306	eP	16 53 58.0	−0.2			
BJI	51.6	330	eP	16 53 56.5	−2.1			
			eS	17 01 08.0	−9.1			
			LN	Ms=5.3		20.0	1.73	
XAN	51.7	319	−P	16 53 57.7	−1.8			
TIY	51.9	325	eP	16 54 02.5	1.2			
			S	17 01 15.5	−5.2			
			LE	Ms=5.3		20.0	1.96	
CD2	53.5	313	P	16 54 12.1	−1.0			
			eS	17 01 37.0	−6.5			
			LE	Ms=5.3		26.0	2.35	
			LZ	Ms=5.3		24.0	1.95	
HHC	54.6	327	eP	16 54 23.0	1.9			
BTO	55.3	326	eP	16 54 25.0	−1.0			
			eS	17 02 04.0	−3.3			
			LN	Ms=5.3		14.0	0.80	
			LE			14.0	0.70	
LZH	56.3	318	eP	16 54 34.0	0.8			
GTA	60.8	319	−P	16 55 04.2	−0.4			
			S	17 03 22.0	4.3			
			LE	Ms=5.1		16.0	0.70	
WMQ	70.8	319	−P	16 56 09.0	−0.1			
			eS	17 05 23.0	0.9			
			LZ	Ms=5.1		20.0	0.73	

1985 7 2
O=04 20 54.0 ± 0.18s
LAT=35.43 N ± 1.77km
LONG=133.80 E ± 1.85km
DEPTH= 11 km ± 0.12km
STATIONS USED = 31, STAND DEV= 2.16s
Ms=4.5/10,

MDJ	9.7	342	eP	04 23 18.5	1.3			
			PP	04 23 28.0	3.1			
			eS	04 25 14.0	6.5			
			LZ	Ms=4.2		14.0	1.63	
CN2	10.6	325	−P	04 23 25.8	−2.7			
			eS	04 25 19.0	−8.8			
			LN	Ms=4.5		14.0	2.30	
			LE			14.0	2.00	
TIA	13.6	278	eP	04 24 09.3	0.2			
			eLG_1	04 28 06.8	6.8			
			LN	Ms=4.5		10.0	0.85	
			LE			10.0	0.89	
			LZ	Ms=4.5		10.0	1.34	
BJI	14.7	293	P	04 24 23.5	−0.4			
WHN	17.0	259	eP	04 24 57.5	3.5			
			LN	Ms=4.6		12.0	1.43	
TIY	17.3	284	P	04 24 58.6	0.9			
			eS	04 28 11.0	1.9			
			LN	Ms=4.5		12.0	0.86	
			LE			11.0	0.68	
HHC	18.3	294	P	04 25 10.0	0.0			
BTO	19.4	293	eP	04 25 21.5	−1.9			
			eS	04 28 50.0	−6.7			
			LN	Ms=4.5		13.0	0.80	
			LE			13.0	0.60	
			LZ	Ms=4.5		14.0	1.10	
XAN	20.5	273	eP	04 25 34.5	−0.5			
LZH	24.3	280	eP	04 26 17.0	4.1			
CD2	25.5	268	eP	04 26 23.8	−0.6			
QZN	26.7	239	eP	04 26 37.0	1.1			
			eS	04 31 09.0	−0.8			
			LN	Ms=4.8		13.0	0.90	
			LE			12.0	0.70	
GTA	27.2	289	P	04 26 36.7	−3.5			
			LE	Ms=4.5		11.0	0.41	

1985 7 2
O=06 15 33.5 ± 0.23s
LAT=24.52 N ± 3.56km
LONG= 94.64 E ± 1.75km
DEPTH= 20 km ± 0.99km
STATIONS USED = 7, STAND DEV= 3.45s
M_L=4.4/ 2,

LSA	6.0	330	+iP	06 17 08.6	4.1			
			S	06 18 14.2	1.2			
			SMN	M_L=4.9		1.5	0.90	
KMI	7.4	84	eP	06 17 25.5	2.1			
GYA	11.0	77	eP	06 18 12.8	−1.0			
WMQ	20.1	345	P	06 20 06.5	−2.6			

1985 7 2
O=07 56 31.8 ± 0.69s
LAT=24.59 N ± 4.75km
LONG=121.89 E ± 4.16km
DEPTH= 16 km ± 0.20km
STATIONS USED = 9, STAND DEV= 4.65s
M_L=3.4/ 8,

QZH	3.0	277	ePn	07 57 22.0	2.6			
			Sn	07 57 56.4	−0.8			
			SMN	M_L=3.1		0.6	0.12	
			SME			0.5	0.040	
SSE	6.5	355	eP	07 58 09.2	−0.5			
			eLG_1	08 00 04.5	8.1			
			LG_2	08 00 14.5	7.8			
			SME	M_L=3.4		1.0	0.020	

1985 7 2
O=08 29 38.1 ± 0.06s

LAT = 40.03 N ± 0.54km
LONG = 77.45 E ± 0.49km
DEPTH = 17 km ± 0.18km
STATIONS USED = 6, STAND DEV = 1.64s
M_L = 3.9 / 4,

KSH	1.3	243	Pg	08 30 00.5	−0.4			
			Sg	08 30 18.9	0.7			
			SMN	M_L = 4.2		0.5	4.18	
			SME			0.2	2.96	
WMQ	8.5	60	P	08 31 43.5	−0.7			
			S	08 33 20.0	−0.6			
			LG_2	08 34 17.0	−2.4			
			SMN			2.0	0.060	
			SME			2.0	0.050	

1985 7 2
O = 10 58 11.8 ± 0.71s
LAT = 24.49 N ± 5.79km
LONG = 121.58 E ± 3.91km
DEPTH = 15 km
STATIONS USED = 17, STAND DEV = 3.17s
Ms = 3.3 / 1, M_L = 3.4 / 8,

QZH	2.8	280	ePn	10 58 55.6	−0.2			
			Sn	10 59 36.1	5.4			
			SMN	M_L = 3.4		1.0	0.24	
			SME			0.9	0.14	
SSE	6.6	357	eP	10 59 45.0	−5.8			
			eLG_2	11 01 58.0	9.0			
			LE	Ms = 3.3		10.0	0.30	
WHN	8.8	315	eP	11 00 22.0	0.3			
			LG_2	11 03 10.0	7.9			
CD2	17.0	296	eP	11 02 10.6	−0.7			
CN2	19.5	8	+P	11 02 45.2	3.5			
GTA	23.6	314	P	11 03 19.6	−4.1			

1985 7 2
O = 11 44 25.9 ± 0.49s
LAT = 24.82 N ± 1.90km
LONG = 121.85 E ± 3.69km
DEPTH = 15 km
STATIONS USED = 6, STAND DEV = 1.48s
M_L = 3.3 / 4,

QZH	3.0	273	ePn	11 45 14.2	1.3			
			eSn	11 45 52.6	2.5			
			SMN	M_L = 3.1		0.8	0.12	
			SME			0.5	0.040	

1985 7 2
O = 12 34 51.4 ± 0.08s
LAT = 40.76 N ± 1.85km
LONG = 143.58 E ± 1.86km
DEPTH = 15 km ± 0.81km
STATIONS USED = 78, STAND DEV = 1.37s
Ms = 5.2 / 23, m_B = 5.6 / 8

MDJ	11.0	295	+iP	12 37 33.5	2.0			
			PMZ	m_B = 5.8		6.0	1.39	
			PP	12 37 44.0	4.4			
			sP	12 37 48.0	8.0			
			SS	12 39 50.0	1.6			
			LZ	Ms = 5.1		13.0	9.80	
CN2	13.8	289	+P	12 38 08.4	−0.3			
			pP	12 38 16.0	2.2			
			eS	12 40 38.0	−4.4			
			SME	m_B = 4.8		8.0	0.50	
			esS	12 40 50.0	−0.6			
			LE	Ms = 5.2		13.0	8.80	
SNY	15.1	281	+iP	12 38 27.2	1.3			
			pP	12 38 36.5	5.5			
			sP	12 38 39.0	4.2			
			eS	12 41 18.5	5.0			
			LN	Ms = 5.2		14.0	4.01	
			LE			14.0	7.72	
DL2	17.0	271	+P	12 38 50.4	0.3			
			PMZ	m_B = 5.8		4.0	1.79	
			S	12 42 00.0	3.2			
			LN	Ms = 5.0		12.0	3.00	
			LE			11.0	1.85	
SSE	20.5	249	eP	12 39 30.0	−1.8			
			PMZ			1.1	0.050	
			eS	12 43 11.0	−5.0			
			sS	12 43 30.0	5.3			
			SS	12 43 40.0	−5.1			
			LN	Ms = 5.2		12.0	3.23	
			LE			12.0	1.77	
BJI	20.9	277	eP	12 39 32.5	−3.1			
			PMZ	m_B = 5.3		4.0	0.54	
			eS	12 43 15.0	−8.0			
			SMN	m_B = 5.2		8.0	0.61	
			SME			10.0	0.66	
			LN	Ms = 5.2		14.0	4.12	
			LE			15.0	2.44	
TIA	21.2	266	eP	12 39 35.6	−3.2			
			esP	12 39 48.5	0.5			
			eS	12 43 25.0	−4.1			
			sS	12 43 40.0	1.3			
			LN	Ms = 5.1		11.0	1.77	
			LE			11.0	2.39	
			LZ	Ms = 5.1		11.5	2.84	
NJ2	21.7	254	+P	12 39 42.0	−1.8			
			eS	12 43 34.0	−4.3			

			LE			13.0	3.60
HHC	24.2	281	+P	12 40 07.0	−1.5		
			PP	12 40 41.0	−1.4		
			S	12 44 23.0	0.6		
			LN	Ms=5.2		12.0	2.54
			LE			12.0	1.65
TIY	24.3	273	P	12 40 08.5	−0.8		
			PP	12 40 53.0	9.5		
			LN	Ms=5.1		13.0	1.56
			LE			12.0	1.99
BTO	25.4	281	eP	12 40 19.5	−0.6		
			PP	12 40 59.0	0.9		
			eS	12 44 42.0	−1.7		
			LN	Ms=5.6		14.0	4.20
			LE			15.0	6.60
			LZ	Ms=5.4		14.0	5.20
WHN	25.7	256	eP	12 40 22.5	−0.9		
			pP	12 40 33.0	3.5		
			eS	12 44 50.0	0.4		
			SME			13.0	0.88
			LN	Ms=5.4		13.0	4.71
			LE			22.0	5.39
QZH	26.1	241	+iP	12 40 27.5	0.4		
			PMZ			3.0	0.75
			pP	12 40 36.5	3.3		
			PP	12 41 08.0	0.0		
			eS	12 44 58.0	2.0		
			SME	m_B=5.6		10.0	1.71
			LN	Ms=5.2		13.0	1.25
			LE			14.0	2.77
XAN	28.2	267	eP	12 40 46.0	−0.2		
			pP	12 40 56.0	3.8		
			eS	12 45 28.0	−2.0		
GZH	30.9	244	eP	12 41 11.8	1.6		
			S	12 46 18.0	5.9		
			LN	Ms=5.5		13.0	3.15
			LE			13.0	2.84
LZH	31.3	274	+P	12 41 15.0	1.3		
			PMZ	m_B=6.4		4.0	2.60
			pP	12 41 24.5	4.8		
			eS	12 46 20.0	0.9		
GTA	33.3	282	+iP	12 41 31.8	0.9		
			S	12 46 48.1	−0.5		
			LE	Ms=5.5		14.0	4.59
CD2	33.5	266	P	12 41 33.0	0.1		
			pP	12 41 42.0	2.9		
			eS	12 46 51.0	−2.4		
			LE	Ms=5.5		13.0	3.88
			LZ	Ms=5.5		13.0	3.78
GYA	33.6	256	+P	12 41 34.0	−0.1		
			pP	12 41 43.0	2.8		
			S	12 46 54.0	−0.4		
			sS	12 47 07.0	1.3		
			LN	Ms=5.7		16.0	4.70
			LE			16.0	4.80
KMI	37.3	258	+P	12 42 06.0	0.6		
			pP	12 42 15.0	3.6		
			eS	12 47 56.0	3.7		
			SMN	m_B=5.5		10.0	1.00
			LZ	Ms=5.4		14.0	2.80
WMQ	40.8	293	+P	12 42 35.0	0.6		
			pP	12 42 45.0	4.4		
			PP	12 44 15.0	3.8		
			S	12 48 46.5	2.8		
			LN	Ms=5.7		14.0	4.70
LSA	43.6	272	eP	12 42 58.7	0.5		
			S	12 49 28.5	2.8		
			LN			1.0	0.93
KSH	50.5	292	+P	12 43 54.0	2.1		
			pP	12 44 04.0	6.0		
			ePP	12 45 52.0	4.5		
			LN	Ms=5.8		15.0	4.28

1985 7 2
O=13 12 31.1 ± 0.15s
LAT=33.90 S ± 2.27km
LONG= 56.23 E ± 3.07km
DEPTH= 9 km ± 0.30km
STATIONS USED = 43, STAND DEV= 1.09s
Ms=5.7/ 5, m_B=5.7/ 2

LSA	71.4	32	P	13 23 52.8	−1.7		
			S	13 33 08.5	−1.3		
			LN	Ms=5.5		15.0	1.16
KMI	73.5	43	+P	13 24 06.5	−0.3		
			pP	13 24 14.5	2.6		
			S	13 33 37.0	3.1		
			SMN	m_B=5.6		10.0	0.50
			LE	Ms=5.7		18.0	2.20
KSH	75.2	16	eP	13 24 18.0	1.0		
			eS	13 33 48.0	−7.5		
GYA	76.8	45	P	13 24 27.0	1.4		
			PcP	13 24 39.0	2.9		
			S	13 34 08.0	−2.4		
GZH	78.5	52	eP	13 24 34.0	−1.0		
CD2	78.5	40	eP	13 24 34.3	−1.0		
			eS	13 34 27.5	−3.6		
			LZ	Ms=5.7		22.0	2.78
WMQ	82.5	22	P	13 24 56.0	−0.5		
			SKS	13 35 12.0	−0.2		
			ScS	13 35 20.5	−3.8		

			LZ		Ms=5.8	21.0	2.89
LZH	82.6	37	eP	13 24 59.0	1.9		
GTA	83.4	33	P	13 25 00.0	−0.9		
			S	13 35 23.0	3.7		
			LN		Ms=5.5	28.0	1.65
XAN	83.7	42	P	13 25 02.0	−0.7		
WHN	84.4	47	P	13 25 06.5	0.7		
NJ2	88.2	49	eP	13 25 25.0	0.4		
TIY	88.4	41	eP	13 25 25.4	−0.1		
			S	13 36 08.0	0.3		
			SMN		m_B=5.8	11.0	0.58
			SME			9.0	0.61
BTO	89.2	38	eP	13 25 28.0	−1.5		
			eSKS	13 35 55.0	−1.1		
TIA	90.0	45	eP	13 25 32.2	−0.9		
HHC	90.2	39	P	13 25 34.0	−0.1		

1985 7 2
O=13 48 17.6 ± 0.17s
LAT=33.74 S ± 2.84km
LONG= 56.29 E ± 3.57km
DEPTH= 9 km ± 0.15km
STATIONS USED = 61, STAND DEV= 1.29s
Ms=5.9/22, m_B=6.1/15

LSA	71.2	32	−P	13 59 38.9	−1.1		
			PMZ		m_B=6.3	5.0	1.58
			S	14 08 54.0	−0.4		
			LN		Ms=5.9	17.5	3.53
QZN	73.2	53	+P	13 59 53.0	1.5		
			pP	14 00 03.5	6.7		
			S	14 09 25.5	8.2		
			LN		Ms=5.5	15.0	1.30
KMI	73.3	43	eP	13 59 53.5	1.1		
			PMZ		m_B=6.0	6.0	1.00
			eS	14 09 22.0	1.4		
			SKS	14 09 57.0	4.3		
			LZ		Ms=5.8	28.0	5.00
KSH	75.1	16	+iP	14 00 05.0	2.5		
			ePP	14 02 58.0	6.4		
			S	14 09 44.0	5.6		
			LE		Ms=5.9	16.0	3.40
GYA	76.6	45	P	14 00 11.0	−0.3		
			PMZ		m_B=6.1	6.0	1.30
			sP	14 00 23.0	3.9		
			S	14 10 00.0	4.7		
			SME		m_B=5.9	10.0	0.90
			SKS	14 10 16.0	−0.8		
			LN		Ms=5.8	18.0	1.90
			LE			18.0	1.90
GZH	78.4	52	eP	14 00 21.0	0.2		
			S	14 10 23.0	8.9		
			SMN		m_B=6.0	9.0	0.67
			SME			9.0	0.97
			SKS	14 10 26.0	−3.4		
			LN		Ms=5.9	20.0	3.60
CD2	78.4	40	eP	14 00 20.2	−0.7		
			eS	14 10 16.0	0.1		
			eSS	14 15 18.0	−1.6		
			LE		Ms=5.9	16.0	3.12
			LZ		Ms=5.9	17.0	2.88
WMQ	82.3	22	P	14 00 41.5	−0.6		
			SKS	14 10 58.0	0.5		
			LZ		Ms=6.2	20.0	7.29
LZH	82.4	37	+P	14 00 45.0	2.2		
			PMZ		m_B=6.3	5.0	1.53
			eS	14 11 00.5	1.7		
			SME		m_B=5.9	10.0	1.05
			LE		Ms=6.0	22.0	4.31
QZH	83.1	54	−P	14 00 47.0	0.9		
			PMZ		m_B=6.2	5.0	1.19
			S	14 11 06.0	2.5		
			LN		Ms=5.5	16.0	1.16
GTA	83.2	32	−iP	14 00 47.1	0.5		
			iS	14 11 09.2	3.0		
			LN		Ms=5.8	30.0	3.56
XAN	83.6	42	−P	14 00 47.6	−0.8		
			S	14 11 07.0	−1.0		
			LN		Ms=5.9	19.0	2.31
			LE			19.0	2.31
WHN	84.2	47	eP	14 00 51.5	−0.1		
			S	14 11 17.0	2.6		
			SMN		m_B=5.9	11.0	1.17
			sS	14 11 31.0	6.0		
			SS	14 16 50.0	3.7		
			LN		Ms=5.6	19.0	1.53
NJ2	88.0	49	+P	14 01 12.0	1.5		
			PMZ		m_B=6.1	6.0	0.95
			PP	14 04 38.0	−0.4		
			iSKS	14 11 38.0	2.4		
			S	14 11 58.0	6.7		
			LE		Ms=5.8	17.0	2.20
TIY	88.2	41	−P	14 01 10.5	−0.8		
			PMZ		m_B=6.3	5.0	1.14
			sP	14 01 22.5	3.4		
			S	14 11 44.5	−8.2		
			SMN		m_B=6.2	9.0	1.17
			SME			10.0	1.62
			LN		Ms=5.7	17.0	0.96
			LE			17.0	1.37
SSE	88.9	51	eP	14 01 16.0	1.4		

			PMZ		m_B=6.0	4.0	0.47
			SKS	14 11 46.0	5.1		
			eS	14 12 03.0	2.0		
			SME			16.0	2.00
			LN		Ms=5.5	16.0	1.00
BTO	89.0	38	-iP	14 01 14.0	-1.3		
			PP	14 04 44.0	-2.2		
			eSKS	14 11 40.0	-1.6		
			S	14 11 57.0	-3.4		
			LN		Ms=5.9	20.0	2.90
			LE			20.0	1.50
			LZ		Ms=5.9	22.0	3.20
TIA	89.8	45	eP	14 01 18.0	-0.9		
			PMZ		m_B=6.3	6.0	1.10
			ePP	14 04 55.0	2.4		
			eSKS	14 11 54.5	8.0		
			eS	14 12 14.5	5.1		
			SMN		m_B=6.0	8.0	0.61
			SME			9.5	1.12
			SS	14 18 08.0	-0.4		
			LN		Ms=6.0	22.0	2.40
			LE			20.0	2.44
HHC	90.0	39	P	14 01 20.0	0.1		
			PP	14 04 56.0	1.9		
			eS	14 12 08.0	-3.4		
			sS	14 12 20.0	-0.1		
			LN		Ms=5.8	17.0	1.01
			LE			16.0	1.36
BJI	91.9	42	eP	14 01 23.0	-5.5		
			eSKS	14 11 49.0	-9.7		
			LN		Ms=6.0	21.0	3.43

1985 7 3
O=03 11 29.0 ± 0.35s
LAT=54.94 S ± 2.98km
LONG=146.85 E ± 4.91km
DEPTH= 2 km ± 1.54km
STATIONS USED = 50, STAND DEV= 2.12s
Ms=6.3/ 21, m_B=6.2/ 4

QZN	80.1	325	eP	03 23 44.0	1.0		
			PP	03 26 53.0	7.3		
			eS	03 33 44.0	-3.9		
			SKS	03 33 55.5	0.0		
			SS	03 38 58.5	-0.9		
			LN		Ms=6.3	19.0	4.70
			LE			21.0	6.90
GZH	82.8	329	-P	03 23 58.5	1.4		
			S	03 34 12.0	-2.0		
			LN		Ms=6.2	22.0	7.30
QZH	83.2	334	-P	03 23 58.0	-0.8		
			pP	03 24 10.0	6.9		
			S	03 34 20.0	2.6		
			SMN		m_B=6.3	12.0	2.66
			SS	03 39 48.0	3.2		
			LN		Ms=5.8	12.0	1.72
GYA	88.1	325	-P	03 24 23.0	-0.4		
			SKS	03 34 52.0	2.7		
			S	03 35 02.0	-3.1		
			LN		Ms=6.2	18.0	3.80
			LE			18.0	4.20
KMI	88.2	321	-P	03 24 24.5	0.3		
			pP	03 24 30.5	2.4		
			SKS	03 34 48.0	-2.2		
			S	03 35 03.0	-3.5		
			sS	03 35 15.0	-0.1		
			LN		Ms=6.5	18.0	9.80
SSE	88.5	338	eP	03 24 25.0	-0.1		
			pP	03 24 29.5	0.2		
			S	03 35 05.0	-3.8		
			SME			16.0	6.87
			sS	03 35 14.0	-3.4		
			LN		Ms=6.1	20.0	1.91
			LE			20.0	4.20
WHN	89.6	332	+P	03 24 31.0	0.6		
			SMN		m_B=6.2	9.0	1.95
			LN		Ms=6.2	23.0	6.17
NJ2	89.9	337	-P	03 24 32.0	0.1		
			SKS	03 34 58.0	-2.6		
			SME		m_B=6.3	12.0	3.00
			LE		Ms=6.1	17.5	4.30
CD2	93.2	324	eP	03 24 44.3	-2.6		
			LN		Ms=6.5	20.0	11.2
			LZ		Ms=6.5	20.0	10.9
TIA	94.3	336	eP	03 24 52.2	0.1		
			SMN		m_B=6.1	10.0	1.17
			SME			10.0	0.64
XAN	94.4	329	eP	03 24 51.6	-1.1		
			SKS	03 35 25.0	-1.2		
			S	03 36 05.0	3.4		
			LN		Ms=6.3	20.0	6.28
			LE			16.0	2.35
DL2	95.9	340	eP	03 25 03.0	3.4		
			SKS	03 35 35.0	0.6		
			eS	03 36 16.0	-0.2		
			LN		Ms=6.4	20.0	7.30
			LE			20.0	4.94
TIY	96.9	333	eP	03 25 02.5	-1.5		
			LN		Ms=6.3	17.0	3.19
			LE			20.0	4.89
LZH	97.9	326	eP	03 25 10.0	1.4		

			PMZ			2.0	0.11
			eS	03 36 28.0	−5.0		
			LE	Ms=6.2		15.0	4.01
BJI	98.2	337	eP	03 25 12.0	2.3		
			eSKS	03 35 51.0	4.3		
			S	03 36 40.0	6.6		
			eSS	03 43 25.0	5.2		
			LN	Ms=6.3		20.0	6.16
			LZ	Ms=6.2		20.0	4.88
SNY	98.4	343	eP	03 25 11.5	0.7		
			SKS	03 35 47.0	−0.9		
			S	03 36 37.0	1.6		
			SS	03 43 19.0	−4.2		
			LN	Ms=6.3		28.0	5.31
			LE			33.0	8.50
CN2	100.0	344	+P	03 25 16.0	−2.2		
			SKS	03 35 54.0	−1.4		
			S	03 36 40.0	−9.0		
			LZ	Ms=6.4		18.0	7.30
HHC	100.1	334	eP	03 25 22.0	3.5		
			S	03 36 50.0	0.8		
			LN	Ms=6.2		17.0	3.39
			LE			18.0	2.71
BTO	100.2	332	eP	03 25 11.0	−8.2		
			SKS	03 35 48.0	−8.4		
			LN	Ms=6.5		18.0	4.90
			LE			18.0	6.80
MDJ	100.3	348	eP	03 25 21.6	2.4		
			PP	03 29 23.0	−3.6		
			SME			15.0	3.70
			SKS	03 36 00.0	3.5		
			SS	03 43 43.0	−5.9		
			LZ	Ms=6.5		30.0	12.9

1985 7 3
O=04 36 51.2 ± 0.10s
LAT= 4.35 S ± 1.34km
LONG=153.16 E ± 2.77km
DEPTH= 39 km ± 0.44km
STATIONS USED = 92, STAND DEV= 1.15s
Ms=7.3/25, m_B=7.0/21

QZH	44.5	313	−iP	04 45 03.0	2.3		
			PMZ	m_B=7.3		8.0	32.4
			iS	04 51 34.0	1.4		
			SMN			14.0	33.3
			SME			14.0	45.2
			LN	Ms=7.3		18.0	105
			LE			18.0	195
SSE	46.6	321	+P	04 45 17.5	−0.4		
			PMZ	m_B=7.0		4.0	9.30
			pP	04 45 29.0	0.6		
			sP	04 45 37.0	4.2		
			PcP	04 46 58.0	6.9		
			PP	04 47 03.0	−3.9		
			eS	04 52 04.0	0.6		
			SMN	m_B=7.2		10.0	24.9
			SME			10.0	24.3
			sS	04 52 28.0	6.9		
			ScS	04 55 06.0	0.1		
			SS	04 55 22.0	0.4		
			LN	Ms=7.2		18.0	165
			LE			18.0	40.1
			LZ	Ms=7.3		18.0	197
GZH	47.5	307	eP	04 45 25.0	0.3		
			ipP	04 45 37.2	2.1		
			PP	04 47 24.0	9.0		
			iS	04 52 19.0	3.3		
			esS	04 52 32.0	−1.4		
			ScS	04 55 05.0	−6.5		
			SS	04 55 36.0	−0.6		
			LN	Ms=7.4		18.0	147
			LE			20.0	227
QZN	48.6	300	eP	04 45 34.7	1.6		
			PP	04 47 26.0	1.0		
			eS	04 52 34.0	3.0		
			LN	Ms=7.3		18.0	175
			LE			19.0	89.3
NJ2	48.7	320	+iP	04 45 35.0	0.6		
			PMZ	m_B=6.9		7.0	11.5
			ipP	04 45 46.0	1.1		
			PP	04 47 29.0	2.3		
			iS	04 52 43.0	9.7		
			LN	Ms=7.4		20.0	125
			LE			20.0	230
WHN	50.8	316	+P	04 45 50.0	−0.2		
			PMZ	m_B=7.3		7.0	30.8
			ipP	04 46 04.5	3.8		
			eS	04 53 00.0	−1.9		
			SME			17.0	54.1
			ScS	04 55 30.0	−3.6		
			LN	Ms=7.4		20.0	224
DL2	52.0	329	+P	04 45 58.0	−1.1		
			pP	04 46 09.0	−0.7		
			PcP	04 47 08.0	−2.6		
			S	04 53 13.0	−4.3		
			sS	04 53 31.0	−5.1		
			LN	Ms=7.2		18.0	103
			LE			18.0	77.7
TIA	52.6	323	−P	04 46 02.4	−1.2		
			PMZ	m_B=7.2		7.0	20.6

			PcS	04	51	11.5	1.7						SMN				16.0	41.9
			S	04	53	31.0	5.7						SME				15.0	29.2
			SMN					20.0	66.3				LE		Ms=7.4		19.0	205
			SME					15.5	26.7	XAN	56.5	316	eP	04	46	31.0	−1.8	
			eSS	04	57	09.0	6.6						pP	04	46	44.0	0.7	
			LN		Ms=7.2			16.5	94.2				S	04	54	20.0	1.2	
			LE					18.5	99.7				sS	04	54	39.0	1.2	
MDJ	53.1	339	eP	04	46	07.3	−0.5						SMN				13.0	20.0
			pP	04	46	18.0	−0.4						SME				12.0	23.7
			PcP	04	47	12.0	−2.8						LE		Ms=7.5		20.0	271
			ScP	04	51	06.0	−1.6			KMI	57.0	304	+P	04	46	36.0	−0.5	
			iS	04	53	38.0	3.9						PMZ		m_B=6.7		7.0	6.50
			SMN					17.0	47.1				PcP	04	47	37.0	7.1	
			ScS	04	55	55.0	5.2						PP	04	48	45.0	1.3	
			SS	04	57	18.0	6.3						S	04	54	24.0	−1.3	
			LZ		Ms=7.2			22.0	143				SMN		m_B=6.5		10.0	4.60
SNY	53.3	333	+iP	04	46	08.0	−0.8						SME				10.0	5.10
			PMZ		m_B=6.8			6.0	8.08				LZ		Ms=7.3		16.0	131
			pP	04	46	20.0	0.6			CD2	58.7	310	eP	04	46	46.8	−1.3	
			PP	04	48	09.0	−0.8						PP	04	49	05.0	6.1	
			S	04	53	37.5	2.6						S	04	54	47.0	−0.4	
			SMN		m_B=6.8			12.0	10.3				LE		Ms=7.5		21.0	243
			SME					12.0	8.42				LZ		Ms=7.5		20.0	240
			SS	04	57	21.0	7.1			HHC	58.9	324	+P	04	46	49.5	0.1	
			LE		Ms=7.2			17.5	109				PMZ		m_B=7.3		6.0	26.0
CN2	54.0	335	+P	04	46	13.2	−1.4						pP	04	47	02.0	2.1	
			PMZ		m_B=7.1			6.0	16.1				PcP	04	47	40.0	2.9	
			pP	04	46	24.0	−1.2						S	04	54	53.0	3.4	
			S	04	53	42.0	−3.3						SMN				13.0	15.6
			SME					14.0	29.3				SME				13.0	23.2
			SS	04	57	31.0	4.9						sS	04	55	11.0	2.2	
			LN		Ms=7.2			17.0	80.2				LN		Ms=7.3		19.0	87.5
			LE					17.0	87.7				LE				19.0	114
GYA	54.4	307	P	04	46	17.0	−0.4			BTO	59.7	323	+iP	04	46	54.0	−0.6	
			PMZ		m_B=6.8			8.0	9.60				PMZ		m_B=7.2		7.0	23.5
			PP	04	48	26.0	6.0						PcP	04	47	34.5	−5.7	
			SME		m_B=7.0			12.0	24.0				PP	04	49	08.0	0.7	
BJI	55.7	326	P	04	46	25.0	−1.7						iS	04	55	00.0	−0.9	
			PMZ		m_B=7.3			7.0	24.7				SMN		m_B=6.7		7.0	4.50
			pP	04	46	38.0	0.6						SME				7.0	4.80
			eS	04	54	06.0	−3.0						sS	04	55	19.0	0.4	
			SMN					14.0	31.1				LN		Ms=7.3		20.0	129
			SME					16.0	27.4				LE				20.0	42.6
			LN		Ms=7.3			20.0	146	LZH	61.2	315	+P	04	47	05.0	0.0	
			LE					21.0	106				PMZ		m_B=6.2		8.0	2.43
TIY	56.4	322	+P	04	46	30.5	−1.2						pP	04	47	16.5	1.1	
			PMZ		m_B=6.7			7.0	7.26				PcP	04	47	53.0	6.8	
			pP	04	46	43.0	0.7						PP	04	49	18.0	−2.8	
			PP	04	48	33.5	−4.5						iScP	04	51	47.0	4.0	
			iS	04	54	26.5	8.3						PcS	04	51	50.0	2.4	

			eS	04 55 14.0	−6.3			
			SME			13.0	34.5	
			SS	04 59 14.5	−5.9			
			LN	Ms = 7.4		22.0	92.0	
			LE			18.0	131	
GTA	65.6	317	+iP	04 47 34.4	0.4			
			PMZ	m_B = 7.1		8.0	21.1	
			iS	04 56 24.5	9.3			
			SME			13.5	28.3	
			LE	Ms = 7.3		19.0	120	
LSA	68.3	304	+P	04 47 50.0	−1.4			
			iS	04 56 51.0	2.4			
			SME			16.0	19.2	
			LN	Ms = 6.9		19.0	40.2	
WMQ	75.7	317	+iP	04 48 34.0	−1.0			
			PMZ	m_B = 6.9		12.0	18.6	
			PcP	04 48 48.0	1.1			
			PP	04 51 29.0	3.4			
			S	04 58 12.5	1.6			
			SS	05 03 08.0	2.6			
			LE	Ms = 7.3		24.0	104	
KSH	82.9	310	+iP	04 49 16.0	1.7			
			pP	04 49 30.0	5.1			
			iS	04 59 26.0	−3.2			
			LE	Ms = 7.5		19.0	129	

1985 7 3
O = 05 28 30.6 ± 0.09s
LAT = 4.08 S ± 1.04km
LONG = 152.82 E ± 1.47km
DEPTH = 56 km ± 0.58km
STATIONS USED = 18, STAND DEV = 1.29s

DL2	51.6	329	eP	05 37 31.6	−2.0			
TIA	52.1	323	eP	05 37 39.2	1.2			
MDJ	52.8	339	eP	05 37 43.0	0.4			
CN2	53.6	336	−P	05 37 50.8	1.6			
CD2	58.3	310	eP	05 38 24.2	1.7			

1985 7 3
O = 07 07 40.9 ± 0.13s
LAT = 4.25 S ± 1.81km
LONG = 152.58 E ± 2.70km
DEPTH = 35 km ± 0.60km
STATIONS USED = 15, STAND DEV = 2.44s

MDJ	52.8	340	eP	07 16 54.5	−1.2			
CN2	53.7	336	eP	07 17 02.4	0.2			
CD2	58.2	310	eP	07 17 36.2	1.6			
GTA	65.1	317	e(P)	07 18 14.5	−6.6			

1985 7 3
O = 10 20 13.3 ± 0.09s
LAT = 27.20 N ± 1.40km
LONG = 140.08 E ± 1.68km
DEPTH = 499 km ± 0.48km
STATIONS USED = 97, STAND DEV = 1.11s
m_B = 5.4 / 13

SSE	17.0	288	P	10 23 42.0	−1.4			
			PMZ	m_B = 5.9		4.0	1.40	
			sP	10 25 43.0	0.7			
			S	10 26 37.0	4.1			
			SMN	m_B = 5.4		8.0	2.12	
			SME			8.0	6.99	
			ScS	10 34 22.0	−5.4			
NJ2	19.1	290	−iP	10 24 04.0	0.0			
			PMZ			2.0	1.00	
			iS	10 27 13.0	2.8			
			ScP	10 30 53.0	0.0			
MDJ	19.3	337	−P	10 24 07.7	1.3			
			sP	10 26 09.0	−4.0			
			S	10 27 17.0	3.3			
DL2	19.3	312	P	10 24 06.8	0.2			
			sP	10 26 09.0	−4.3			
			S	10 27 15.0	0.9			
			SMN	m_B = 5.3		8.0	5.81	
			ScS	10 34 41.0	6.2			
QZH	19.4	268	−iP	10 24 07.5	0.0			
			sP	10 26 21.0	6.5			
			S	10 27 13.5	−2.2			
			SMN	m_B = 5.7		4.0	2.29	
			SME			4.5	6.71	
SNY	19.9	321	−iP	10 24 11.5	−0.4			
			PMZ			2.0	1.64	
			sP	10 26 23.0	2.6			
			S	10 27 27.0	3.5			
			SMN	m_B = 5.5		5.5	4.64	
			SME			9.0	5.16	
			ScS	10 34 40.0	3.3			
CN2	20.3	328	−P	10 24 15.6	−0.6			
			sP	10 26 28.0	1.9			
			iPcS	10 31 35.0	−8.4			
TIA	21.5	300	iP	10 24 26.2	−0.3			
			PMZ			2.0	0.52	
			sP	10 26 40.0	0.2			
			S	10 27 57.0	7.4			
			ScP	10 30 59.6	1.0			
			ScS	10 34 43.0	0.7			
WHN	22.8	285	−iP	10 24 38.5	0.1			
			PMZ	m_B = 5.6		7.0	1.20	
			sP	10 26 54.0	−0.9			
			S	10 28 16.0	5.2			

			SME	m_B=5.4		6.0	3.36
BJI	23.6	309	eP	10 24 44.0	−1.8		
			esP	10 27 03.0	−0.4		
			eS	10 28 23.0	−1.8		
			eScS	10 34 50.0	−0.5		
GZH	24.5	266	−P	10 24 54.2	−0.1		
			sP	10 27 17.0	4.1		
			S	10 28 44.5	5.3		
			SMN	m_B=5.4		6.0	0.48
			SME			6.0	2.91
TIY	25.5	301	P	10 25 02.0	−1.0		
			sP	10 27 25.0	2.6		
			S	10 28 59.5	5.1		
			SMN	m_B=5.0		7.0	0.93
			SME			5.0	0.68
			ScP	10 31 07.5	−1.9		
			ScS	10 35 07.0	8.5		
HHC	27.1	307	−iP	10 25 16.8	−0.8		
			sP	10 27 42.0	3.7		
			S	10 29 26.0	5.7		
			PcS	10 32 00.0	−1.8		
			ScS	10 35 15.0	9.2		
			SMN	m_B=5.0		6.0	0.75
			SME			6.0	0.69
XAN	27.6	292	−iP	10 25 20,8	−0.8		
			sP	10 27 47.0	4.3		
			eS	10 29 24.0	−4.4		
			PcS	10 32 11.0	7.8		
			ScS	10 35 15.0	7.1		
BTO	28.2	306	P	10 25 25.4	−1.1		
QZN	28.9	260	−iP	10 25 33.5	0.4		
			sP	10 27 56.0	1.1		
			eS	10 29 49.0	0.0		
			SMN	m_B=5.1		9.0	0.60
			SME			8.5	1.50
GYA	29.8	276	−P	10 25 40.0	−0.6		
			PcP	10 28 29.0	0.2		
			S	10 30 05.0	3.5		
			SME	m_B=5.3		4.0	1.00
CD2	31.9	285	−iP	10 25 58.4	−0.1		
			PMZ			0.6	3.30
			pP	10 27 33.0	8.0		
			iS	10 30 37.0	2.2		
			PcS	10 32 09.0	−8.1		
LZH	31.9	295	−P	10 25 59.5	0.3		
			pP	10 27 31.0	5.3		
			eS	10 30 32.0	−4.1		
			PcS	10 32 27.0	9.7		
			ScS	10 35 37.0	7.9		
KMI	33.5	275	−iP	10 26 12.5	0.2		
			pP	10 27 44.0	4.2		
			sP	10 28 40.0	4.0		
			iS	10 31 03.0	2.9		
			SME	m_B=5.2		6.0	0.83
			PcS	10 32 20.0	−2.8		
GTA	35.5	300	−iP	10 26 29.4	0.3		
			PcP	10 28 51.5	6.6		
			eS	10 31 25.2	−5.2		
			ScP	10 31 50.9	8.6		
			ScS	10 35 54.4	6.4		
LSA	42.8	285	+iP	10 27 29.0	0.1		
WMQ	45.0	306	−iP	10 27 45.0	−0.4		
			pP	10 29 24.0	5.7		
			S	10 33 45.0	−1.6		
			sS	10 36 36.0	2.3		
			ScS	10 36 51.0	6.0		
KSH	53.9	300	−iP	10 28 54.0	2.2		
			iS	10 35 52.0	2.5		
			ScS	10 37 52.0	6.2		

1985 7 3
O=11 18 13.6 ± 0.07s
LAT= 4.23 S ± 0.98km
LONG=152.80 E ± 1.45km
DEPTH= 35 km ± 0.27km
STATIONS USED = 29, STAND DEV= 1.02s

MDJ	52.9	339	eP	11 27 28.7	−0.2		
CN2	53.8	336	−P	11 27 35.5	0.0		
			pP	11 27 41.0	−4.5		
BJI	55.4	326	eP	11 27 47.5	0.1		
XAN	56.2	316	eP	11 27 52.6	−0.6		
KMI	56.7	304	eP	11 27 57.0	0.3		
CD2	58.4	310	eP	11 28 07.8	−0.7		
HHC	58.6	324	eP	11 28 10.0	−0.1		
LZH	60.8	316	eP	11 28 26.0	0.4		
GTA	65.2	317	P	11 28 55.7	1.0		
WMQ	75.3	317	P	11 29 56.0	0.0		

1985 7 3
O=12 24 21.7 ± 0.10s
LAT= 4.36 S ± 0.92km
LONG=152.72 E ± 0.78km
DEPTH= 43 km ± 0.91km
STATIONS USED = 38, STAND DEV= 1.13s
Ms=4.8/ 1,

NJ2	48.5	321	eP	12 33 04.0	1.6		
			LE	Ms=4.8		9.0	0.30
TIA	52.3	323	eP	12 33 29.7	−2.1		
MDJ	53.0	339	eP	12 33 36.2	−0.6		
CN2	53.9	336	−P	12 33 42.7	−0.7		