Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
			1986 7 1				
			O=00 49 06.8	± 0.19s			
			LAT=15.74 S	± 3.98km			
			LONG=172.37 W	± 3.41km			
			DEPTH= 31 km	± 0.71km			
			STATIONS USED = 64,	STAND DEV= 1.87s			
			Ms=5.7/16,	m_B=6.1/23			
QZH	78.5	300	cP	01 01 08.0	0.8		
			PMZ	m_B=6.0		4.0	0.72
			S	01 11 02.0	3.1		
			SMN	m_B=6.1		11.0	1.64
			LN	Ms=5.6		12.0	1.04
SSE	79.0	307	cP	01 01 10.0	0.2		
			S	01 11 06.0	2.1		
			SMN	m_B=6.0		11.0	1.19
			SKS	01 11 18.0	1.2		
			ScS	01 11 22.0	−3.1		
			SS	01 16 18.0	5.7		
			LE	Ms=5.6		37.0	3.15
MDJ	79.9	322	−P	01 01 16.0	1.0		
			PMZ	m_B=6.2		5.0	1.50
			sP	01 01 30.0	2.0		
			PP	01 04 23.0	5.9		
			S	01 11 21.0	7.2		
			ScS	01 11 28.0	−4.7		
NJ2	81.2	307	−P	01 01 23.0	1.4		
			S	01 11 23.5	−3.4		
			sS	01 11 37.0	−7.0		
			LN	Ms=5.7		13.0	1.30
CN2	82.0	320	eP	01 01 25.0	−1.0		
			PMZ	m_B=6.0		5.0	0.80
			sP	01 01 39.0	0.0		
			S	01 11 38.0	2.6		
			SMN	m_B=6.3		10.0	2.10
			SME			10.0	1.00
			LE	Ms=5.7		17.0	1.70
DL2	82.1	314	−P	01 01 29.0	2.3		
			PMZ	m_B=5.9		5.0	0.72
			sP	01 01 43.0	3.3		
			eSKS	01 11 46.0	6.7		
			SMN	m_B=6.7		10.0	4.79
			SME			7.7	1.93
SNY	82.2	317	+P	01 01 26.0	−1.0		
			S	01 11 42.0	4.5		
			SMN			18.0	5.11
			SME			12.0	1.92
GZH	82.2	297	eP	01 01 29.0	1.8		
			eS	01 11 47.0	7.4		
			SMN	m_B=6.1		12.0	1.37
			SME			12.0	1.24
			LN	Ms=5.7		11.0	0.59
			LE			11.0	1.07
WHN	84.1	304	eP	01 01 34.0	−2.8		
			eS	01 11 51.0	−7.4		
			SMN	m_B=6.3		10.0	2.40
			PS	01 12 52.0			
			LN	Ms=5.8		10.0	1.29
TIA	84.2	310	eP	01 01 36.5	−0.7		
			PMZ	m_B=6.0		6.0	0.93
			csP	01 01 52.0	1.7		
			eS	01 12 04.0	4.8		
			SMN	m_B=6.2		11.0	1.11
			SME			11.0	2.07
			LE	Ms=5.7		16.0	1.52
BJI	86.4	313	eP	01 01 48.5	0.3		
			PMZ	m_B=6.2		5.0	1.19
			eSKS	01 12 16.0	7.7		
TIY	88.2	310	+iP	01 01 56.8	−0.3		
			SMN			13.0	4.44
			LN	Ms=5.4		15.0	0.66
GYA	89.1	298	−P	01 02 04.0	2.8		
			sP	01 02 18.5	4.3		
			PP	01 05 31.0	−1.6		
			S	01 12 43.0	−1.3		
			SME	m_B=6.1		11.0	2.10
			sS	01 12 58.0	−3.5		
XAN	89.6	305	eP	01 02 06.0	2.3		
			pP	01 02 16.0	3.0		
			SKS	01 12 35.0	6.4		
			SMN			13.0	2.00
			SME			13.0	0.86
HHC	90.0	313	eP	01 02 05.0	−0.4		
			pP	01 02 14.0	−0.7		
			S	01 12 51.0	−1.6		
			sS	01 13 08.0	−1.8		
			LN	Ms=6.0		10.0	1.55
			LE			7.0	0.58
BTO	91.0	312	+P	01 02 11.5	1.3		
			pP	01 02 21.5	2.1		
			ePP	01 05 50.0	3.1		
			eSKS	01 12 38.0	1.3		
			eS	01 13 04.0	0.4		
KMI	92.1	295	−P	01 02 18.0	2.8		

			pP	01 02 29.0	4.6		
			eSKS	01 12 47.0	4.3		
			eS	01 13 18.0	4.7		
			SMN	m_B=6.2		10.0	2.02
CD2	92.8	301	eP	01 02 21.1	2.5		
			SKS	01 12 54.0	6.9		
			eS	01 13 20.0	0.3		
			sS	01 13 41.0	5.9		
			LN	Ms=6.3		11.0	3.57
LZH	94.2	306	−P	01 02 28.5	3.5		
			eSKS	01 13 03.0	8.2		
			eS	01 13 39.0	7.1		
			SMN	m_B=6.1		11.0	1.58
GTA	98.2	309	eP	01 02 42.0	−0.9		
			iSKS	01 13 20.0	3.7		
			SME			17.0	1.98
			isS	01 14 14.0	−6.6		
			LE	Ms=5.7		27.0	1.99

1986 7 1
O=01 06 47.2 ± 0.17s
LAT=15.90 S ± 4.34km
LONG=172.41 W ± 4.02km
DEPTH= 39 km ± 0.82km
STATIONS USED = 56, STAND DEV= 1.88s
Ms=5.6/14, m_B=6.0/12

SSE	79.0	307	c(P)	01 18 53.0	3.5		
			sP	01 19 07.0	2.2		
			LE	Ms=5.4		18.0	0.92
MDJ	80.0	322	+P	01 18 53.0	−1.9		
NJ2	81.2	307	cP	01 19 01.8	0.4		
			S	01 29 05.0	−1.0		
			LE	Ms=5.3		13.0	0.50
CN2	82.1	320	+P	01 19 04.5	−1.3		
			PMZ	m_B=5.8		4.0	0.50
			eS	01 29 12.0	−4.5		
			LN	Ms=5.8		10.0	1.20
DL2	82.2	314	+P	01 19 05.0	−1.5		
			SMN	m_B=6.2		8.0	1.62
			LN	Ms=5.5		14.0	0.90
SNY	82.3	317	+P	01 19 06.3	−0.6		
WHN	84.2	304	cP	01 19 17.0	0.6		
			eS	01 29 38.0	0.7		
			SMN	m_B=6.1		10.0	1.29
			SME			8.0	0.79
			LN	Ms=5.7		10.0	0.85
			LE			12.0	0.75
TIA	84.2	310	cP	01 19 16.3	−0.6		
			eS	01 29 40.0	1.7		
			SMN	m_B=6.0		10.0	0.73
			SME			10.0	0.94
			LE	Ms=5.8		20.0	2.37
BJI	86.5	313	eP	01 19 27.5	−0.5		
			eSKS	01 29 56.0	8.8		
TIY	88.3	310	+P	01 19 36.8	0.0		
			SKS	01 30 06.0	7.3		
			SMN	m_B=6.2		11.0	2.39
			SME			11.0	0.77
			LE	Ms=5.2		17.0	0.53
GYA	89.1	298	P	01 19 41.0	0.3		
			S	01 30 18.0	−5.0		
			SME	m_B=6.0		10.0	1.40
XAN	89.7	305	eP	01 19 43.2	−0.2		
			PMZ			1.6	0.10
			SMN	m_B=5.9		10.0	1.08
			SME			10.0	0.42
HHC	90.1	313	P	01 19 45.0	−0.2		
			S	01 30 34.0	2.3		
			sS	01 30 44.5	−7.4		
			LN	Ms=5.6		14.0	1.05
BTO	91.1	312	−P	01 19 50.0	0.1		
			cPP	01 23 24.0	−2.8		
			eSKS	01 30 19.0	3.6		
			eS	01 30 41.0	−1.7		
			LN	Ms=5.5		15.0	0.51
			LE			15.0	0.61
KMI	92.1	295	+P	01 19 55.0	0.2		
CD2	92.9	301	eP	01 19 58.6	0.4		
LZH	94.3	306	−iP	01 20 05.5	0.8		
GTA	98.2	309	eP	01 20 19.8	−2.8		

1986 7 1
O=04 32 10.4 ± 0.11s
LAT= 5.95 N ± 1.71km
LONG=124.01 E ± 3.08km
DEPTH=558 km ± 0.15km
STATIONS USED = 42, STAND DEV= 1.51s

GZH	19.9	330	−P	04 36 06.8	0.4
WHN	26.1	341	P	04 37 03.0	0.8
GYA	26.3	323	−P	04 37 04.0	0.2
NJ2	26.4	350	−P	04 37 06.6	1.7
			S	04 41 02.0	1.9
KMI	27.9	315	−iP	04 37 19.0	0.7
XAN	31.3	335	−iP	04 37 47.0	0.2
			PcP	04 40 24.0	0.0
			S	04 42 15.5	0.3
CD2	31.3	325	eP	04 37 46.4	−0.6
TIY	33.3	343	−iP	04 38 04.5	0.2
LZH	35.2	331	−iP	04 38 21.5	1.1
LSA	38.9	311	−P	04 38 51.0	0.0

GTA	39.8	330	−iP	04 38 58.1	0.4		
			PcP	04 40 50.5	0.7		
			ScP	04 43 46.8	1.8		
			S	04 44 22.0	−1.1		
			ScS	04 48 00.0	0.2		
WMQ	49.4	326	P	04 40 11.7	0.1		
			PMZ			1.5	0.080
			PcP	04 41 21.5	−1.7		
KSH	54.5	315	eP	04 40 41.0	−7.8		

1986 7 1
O=05 10 16.4 ± 0.13s
LAT=15.92 S ± 2.67km
LONG=172.29 W ± 3.06km
DEPTH= 39 km ± 0.47km
STATIONS USED = 46, STAND DEV= 1.50s
m_B=5.8 / 2

MDJ	80.1	322	eP	05 22 27.7	3.1		
NJ2	81.3	307	−P	05 22 35.0	3.9		
CN2	82.2	320	eP	05 22 34.5	−1.0		
DL2	82.3	314	eP	05 22 35.2	−1.0		
SNY	82.4	317	+P	05 22 35.7	−0.9		
BJI	86.6	313	eP	05 22 57.5	−0.2		
			eS	05 33 40.0	9.6		
			SMN	m_B=5.9		8.0	0.92
TIY	88.4	310	−P	05 23 07.0	0.5		
			SMN	m_B=5.7		8.0	0.62
GYA	89.2	298	P	05 23 13.0	2.5		
XAN	89.8	305	P	05 23 13.4	0.3		
HHC	90.2	313	−P	05 23 15.0	0.1		
BTO	91.2	312	eP	05 23 18.0	−1.6		
CD2	93.0	301	eP	05 23 29.3	1.4		
LZH	94.4	306	eP	05 23 36.5	2.1		
GTA	98.3	309	P	05 23 51.7	−0.6		

1986 7 1
O=06 03 11.4 ± 0.11s
LAT= 4.76 S ± 1.59km
LONG=128.09 E ± 2.22km
DEPTH= 59 km ± 0.13km
STATIONS USED = 86, STAND DEV= 1.24s
Ms=5.5 / 32, m_B=6.2 / 45

QZH	30.9	343	−iP	06 09 24.0	−1.3		
			PMZ			3.0	1.80
			PP	06 10 29.0	1.5		
			PPMZ			6.0	1.80
			iS	06 14 27.5	3.7		
			SMN	m_B=6.0		8.0	2.92
			SME			8.0	1.68
			LN	Ms=5.3		12.0	2.34
GZH	31.2	333	−iP	06 09 28.0	0.3		
			PMZ	m_B=6.1		6.0	1.89
			pP	06 09 42.5	1.1		
			iS	06 14 32.0	4.0		
			SMN	m_B=6.2		9.0	3.45
			SME			8.0	3.09
			LN	Ms=5.5		14.0	3.91
			LE			16.0	3.94
SSE	36.3	350	−iP	06 10 11.0	−0.2		
			PMZ	m_B=6.2		9.0	3.71
			sP	06 10 34.0	2.4		
			S	06 15 46.0	0.4		
			sS	06 16 08.0	−2.9		
			PcS	06 16 21.0	−0.1		
			cSS	06 18 22.0	9.1		
			ScS	06 20 20.0	0.9		
			LN	Ms=5.4		11.0	0.81
			LE			12.0	2.04
GYA	37.3	327	−P	06 10 21.0	0.6		
			PP	06 11 44.0	−4.0		
			S	06 16 06.0	3.9		
			SMN	m_B=6.5		7.0	4.10
			SME			7.0	4.30
			LE	Ms=5.5		15.0	3.30
WHN	37.5	340	P	06 10 22.0	0.5		
			PMZ			2.0	2.11
			PP	06 11 50.0	0.2		
			PcP	06 12 32.0	−6.4		
			S	06 16 04.0	−0.4		
			SMN	m_B=6.2		11.0	2.59
			SME			7.0	3.39
NJ2	37.7	347	−P	06 10 23.6	0.7		
			S	06 16 04.0	−2.8		
			SMN	m_B=6.1		10.0	3.60
			ScP	06 16 27.5	7.9		
			LN	Ms=5.5		10.0	2.40
KMI	38.6	322	−iP	06 10 33.0	2.0		
			PMZ	m_B=6.1		4.0	1.30
			PP	06 12 07.0	4.0		
			iS	06 16 28.0	5.4		
			SMN	m_B=6.6		7.0	2.90
			SME			7.0	7.36
			LE	Ms=5.5		15.0	3.20
TIA	42.0	347	eP	06 10 57.8	−1.4		
			PMZ	m_B=5.9		7.0	1.32
			PcS	06 16 43.2	−0.1		
			S	06 17 15.0	2.5		
			SMN	m_B=6.1		9.0	0.60
			SME			9.0	2.77
			ScS	06 21 00.0	7.4		

			LN		Ms=5.4	13.0	0.63
			LE			15.0	2.10
CD2	42.4	328	eP	06 11 02.5	0.1		
			epP	06 11 16.5	0.0		
			S	06 17 20.2	2.2		
			SMN		m_B=6.4	10.0	6.62
			LN		Ms=6.0	12.0	7.11
XAN	42.6	336	−iP	06 11 04.0	−0.2		
			PMZ		m_B=6.0	6.0	1.29
			PP	06 12 48.0	2.3		
			PcS	06 16 45.5	−0.2		
			S	06 17 22.0	0.8		
			SMN		m_B=6.2	8.0	1.81
			SME			8.0	2.81
			ScS	06 20 59.0	2.7		
			LN		Ms=5.5	10.0	1.94
			LE			10.0	1.06
DL2	43.9	353	−iP	06 11 13.0	−1.1		
			PMZ		m_B=6.0	6.0	1.36
			sP	06 11 36.0	1.4		
			PP	06 12 56.0	−1.8		
			PcS	06 16 53.0	2.4		
			S	06 17 41.0	1.9		
			SME		m_B=6.1	8.0	2.20
			LN		Ms=5.5	10.0	0.58
			LE			14.0	2.28
TIY	44.7	342	−iP	06 11 20.4	−0.5		
			PMZ			1.0	0.060
			PP	06 13 08.0	1.8		
			S	06 17 55.0	3.8		
			SME		m_B=6.1	7.0	1.86
			LE		Ms=5.4	13.0	1.74
BJI	45.9	347	−iP	06 11 29.5	−1.0		
			eScP	06 17 00.0	7.7		
			eS	06 18 05.0	−4.6		
			SMN		m_B=5.9	10.0	0.85
			SME			6.0	1.17
			ScS	06 21 26.0	9.2		
			LN		Ms=5.3	18.0	2.11
SNY	46.5	355	−iP	06 11 34.9	−0.6		
			PMZ		m_B=6.2	8.0	2.42
			sP	06 11 54.0	−2.1		
			PP	06 13 21.5	−2.9		
			S	06 18 16.0	−1.6		
			SMN		m_B=6.2	7.0	1.27
			SME			6.0	1.70
			LN		Ms=5.8	25.0	5.55
			LE			20.0	4.18
LZH	46.6	333	−iP	06 11 36.0	0.3		
			PMZ			2.5	0.82
			iS	06 18 23.0	3.9		
			SMN		m_B=6.1	9.0	2.26
			sS	06 18 46.0	2.5		
			SS	06 21 32.0	−5.2		
			LN		Ms=5.5	26.0	3.10
			LE			28.0	2.82
HHC	47.9	343	eP	06 11 45.6	−0.3		
			S	06 18 40.0	3.9		
			SMN		m_B=6.3	8.0	1.44
			SME			8.0	2.95
			LN		Ms=5.4	14.0	1.61
			LE			12.0	1.01
BTO	48.1	341	+iP	06 11 46.5	−1.2		
			sP	06 12 09.0	0.8		
			cPP	06 13 39.0	0.4		
			S	06 18 42.0	2.5		
			SMN		m_B=6.1	10.0	0.60
			SME			8.0	2.00
			SS	06 22 05.0	0.9		
			LN		Ms=5.5	14.0	1.50
			LE			14.0	1.60
CN2	48.4	357	−P	06 11 48.5	−1.5		
			PMZ		m_B=6.1	6.0	1.60
			sP	06 12 12.0	1.5		
			PcP	06 13 17.6	2.6		
			PcS	06 17 10.0	0.5		
			eS	06 18 45.0	0.2		
			ScS	06 21 35.0	2.0		
MDJ	49.2	1	−iP	06 11 57.5	1.6		
			pP	06 12 13.0	2.7		
			PP	06 13 50.0	0.7		
			S	06 19 03.0	8.5		
LSA	49.3	316	−P	06 11 57.3	0.0		
			sP	06 12 26.5	9.1		
			PP	06 13 50.5	0.1		
			iS	06 19 02.0	4.0		
			SMN		m_B=6.2	7.0	2.23
GTA	51.1	332	−iP	06 12 10.7	−0.2		
			PMZ		m_B=5.9	9.0	1.34
			sP	06 12 32.8	1.4		
			PP	06 14 05.0	−2.5		
			S	06 19 20.0	−1.4		
			SME		m_B=6.0	9.0	1.85
			SS	06 22 46.8	−8.0		
			LE		Ms=5.4	11.0	1.28
WMQ	60.5	327	P	06 13 18.5	0.1		
			PMZ			1.3	0.30
			sP	06 13 41.6	2.5		
			iS	06 21 31.0	3.4		
			SMN		m_B=6.3	7.0	2.83

			ScS	06 23 02.0	3.4		
KSH	65.1	318	−iP	06 13 50.9	2.2		
			sP	06 14 12.0	2.4		
			PP	06 16 17.0	4.1		
			iS	06 22 32.0	7.1		
			SME	m_B = 6.3	7.0	2.70	
			LN	Ms = 5.8	14.0	2.80	

1986 7 1
O = 06 54 40.3 ± 0.25s
LAT = 24.63 N ± 4.20km
LONG = 121.65 E ± 4.19km
DEPTH = 1 km ± 3.55km
STATIONS USED = 10, STAND DEV = 3.13s
M_L = 3.8 / 7.

QZH	2.8	277	+iPn	06 55 26.8	0.4		
			Sn	06 56 02.0	−0.8		
			SMN	M_L = 3.7	0.8	0.46	
			SME		0.8	0.23	
			LE		3.0	0.55	
SSE	6.5	356	cPn	06 56 19.8	3.2		
			LN		1.0	0.030	
			LE		1.3	0.060	
NJ2	7.8	342	cPn	06 56 31.5	−3.6		
			cSn	06 58 13.0	6.5		
			SME	M_L = 4.0	1.0	0.050	
GTA	23.6	314	cP	06 59 54.6	0.8		

1986 7 1
O = 07 32 53.2 ± 0.13s
LAT = 3.14 S ± 1.96km
LONG = 148.69 E ± 3.31km
DEPTH = 12 km ± 0.36km
STATIONS USED = 79, STAND DEV = 1.50s
Ms = 5.8 / 33, m_B = 5.7 / 16

QZH	40.4	315	cP	07 40 32.5	−0.8		
			S	07 46 40.0	−0.5		
			SME	m_B = 5.6	10.0	1.16	
			LN	Ms = 5.7	20.0	7.01	
			LE		20.0	2.91	
SSE	43.0	324	P	07 40 53.0	−1.3		
			PMZ		1.8	0.090	
			sP	07 41 01.0	−2.0		
			cPP	07 42 35.0	−1.1		
			S	07 47 18.0	−0.1		
			sS	07 47 26.0	−3.0		
			SS	07 50 28.0	4.2		
			ScS	07 50 54.0	2.2		
			LN	Ms = 6.0	13.0	3.00	
			LE		13.0	6.68	
GZH	43.2	309	−P	07 40 57.5	1.2		
			S	07 47 23.0	1.2		
			SMN	m_B = 6.1	9.0	0.96	
			SME		12.0	3.43	
			LN	Ms = 6.0	15.0	5.12	
			LE		19.0	8.22	
NJ2	45.0	323	cP	07 41 10.0	−0.9		
			S	07 47 48.0	−0.1		
			SME		13.0	1.60	
			LN	Ms = 6.0	14.0	7.50	
WHN	46.9	318	cP	07 41 25.0	−0.4		
			cS	07 48 14.0	−1.3		
			SME	m_B = 5.8	10.0	1.25	
			LE	Ms = 5.9	22.0	8.39	
DL2	48.7	332	cP	07 41 40.0	0.0		
			cS	07 48 33.0	−8.6		
			LN	Ms = 5.9	19.0	5.18	
			LE		20.0	5.20	
TIA	49.0	326	cP	07 41 40.2	−2.0		
			cS	07 48 44.0	−1.6		
			SME	m_B = 5.7	11.0	1.27	
			LN	Ms = 5.9	16.0	1.73	
			LE		19.0	7.90	
GYA	50.1	309	P	07 41 52.0	0.8		
			sP	07 41 57.0	−2.7		
			S	07 49 07.0	6.6		
			SME		18.0	4.80	
SNY	50.2	336	cP	07 41 49.0	−2.7		
			S	07 49 01.0	−0.7		
			SMN		24.0	6.22	
			SME		27.0	3.11	
			sS	07 49 07.0	−5.7		
			LN	Ms = 5.8	36.0	10.5	
			LE		31.0	3.92	
MDJ	50.5	342	cP	07 41 53.6	−0.3		
			sP	07 42 01.0	−1.5		
			S	07 49 05.0	−0.5		
CN2	51.2	338	cP	07 41 59.5	0.6		
			PMZ	m_B = 5.6	6.0	0.50	
			sP	07 42 06.0	−1.6		
			PP	07 43 56.0	0.3		
			PPMZ		6.0	0.50	
			cS	07 49 19.0	3.2		
			SMN	m_B = 5.9	8.0	1.10	
			SME		8.0	0.50	
			cSS	07 52 52.0	4.2		
			LN	Ms = 5.6	15.0	2.70	
BJI	52.3	329	cP	07 42 06.5	−0.8		
			cS	07 49 28.0	−3.1		
			SMN	m_B = 5.7	8.0	0.49	

			SME			8.0	0.58
			LN	Ms=5.8		16.0	4.02
XAN	52.6	318	eP	07 42 09.0	−0.8		
			sP	07 42 16.7	−1.8		
			S	07 49 38.0	3.5		
			LN	Ms=5.8		15.0	3.20
			LE			17.0	2.25
KMI	52.7	305	eP	07 42 10.5	0.1		
			pP	07 42 12.0	−4.0		
			S	07 49 43.0	7.9		
			SME	m_B=5.7		10.0	1.04
			LN	Ms=5.8		18.0	4.80
TIY	52.7	324	−P	07 42 13.5	2.8		
			PP	07 44 10.5	0.0		
			S	07 49 35.0	−1.0		
			LN	Ms=5.8		17.0	4.92
CD2	54.6	312	eP	07 42 24.0	−0.2		
			eS	07 50 02.0	0.0		
			LN	Ms=6.1		14.0	6.64
HHC	55.4	326	eP	07 42 29.0	−1.0		
			S	07 50 13.5	2.2		
			LN	Ms=5.9		20.0	4.99
			LE			17.0	2.63
BTO	56.1	325	P	07 42 34.0	−1.0		
			epP	07 42 38.0	−2.9		
			cPP	07 44 41.0	0.4		
			eS	07 50 18.0	−4.2		
			LN	Ms=5.9		19.0	4.50
			LE			19.0	4.50
LZH	57.2	317	eP	07 42 43.0	−0.4		
			PMZ			2.0	0.12
			eS	07 50 37.0	−0.5		
			LE	Ms=5.7		13.0	2.57
GTA	61.7	318	+P	07 43 13.5	−0.7		
			eS	07 51 36.6	1.3		
			SME	m_B=5.7		9.0	0.79
			LE	Ms=5.5		13.0	1.27
LSA	63.9	305	P	07 43 28.0	−1.4		
WMQ	71.8	318	P	07 44 18.0	−0.2		
			eS	07 53 34.5	−2.9		
			SME	m_B=5.9		9.0	0.86
KSH	78.7	311	eP	07 45 01.9	3.8		
			pP	07 45 07.0	3.2		
			iS	07 55 03.9	9.2		
			SME	m_B=6.3		12.0	3.20
			LE	Ms=6.0		18.0	4.10

1986 7 1
O=08 15 44.3 ± 0.08s
LAT=48.88 N ± 0.31km
LONG= 88.02 E ± 0.85km
DEPTH= 18 km ± 1.11km
STATIONS USED = 3, STAND DEV= 4.74s
M_L=3.9/ 5,

WMQ	5.1	183	ePn	08 17 03.2	3.3		
			Sg	08 18 21.8	−1.1		
			SME	M_L=4.0		1.0	0.18
GTA	12.7	134	e(P)	08 18 55.4	8.3		
			LG_1	08 22 25.7	2.9		
			LN			1.0	0.070
			LE			1.0	0.010

1986 7 1
O=08 40 01.1 ± 0.15s
LAT= 3.17 S ± 2.39km
LONG=148.62 E ± 3.59km
DEPTH= 12 km ± 0.97km
STATIONS USED = 68, STAND DEV= 2.15s
Ms=5.5/25, m_B=5.6/ 9

QZH	40.4	315	eP	08 47 41.5	0.5		
			S	08 53 50.0	2.0		
			LN	Ms=5.2		16.0	1.93
SSE	42.9	325	eP	08 48 00.0	−2.1		
			sP	08 48 09.0	−1.9		
			S	08 54 25.0	−0.9		
			esS	08 54 35.0	−1.7		
			SS	08 57 32.0	0.5		
			ScS	08 57 50.0	−9.7		
			LN	Ms=5.4		24.0	1.19
			LE			12.0	2.22
GZH	43.2	309	eP	08 48 06.4	2.4		
			S	08 54 35.5	6.2		
			LN	Ms=5.4		13.0	1.12
			LE			15.0	2.04
NJ2	45.0	323	eP	08 48 20.0	1.2		
			S	08 54 58.0	2.2		
			LN	Ms=5.7		18.0	5.20
WHN	46.8	318	eP	08 48 32.5	−0.7		
			eS	08 55 20.0	−2.9		
			SME	m_B=5.5		9.0	0.60
			LE	Ms=5.5		20.0	3.15
DL2	48.7	332	eP	08 48 50.0	2.1		
			eS	08 55 53.0	3.5		
			LN	Ms=5.5		18.0	2.66
TIA	49.0	326	eP	08 48 49.8	−0.3		
			eS	08 55 44.2	−9.2		
			SME	m_B=5.4		11.0	0.60
			LE	Ms=5.7		19.0	4.51
GYA	50.1	309	P	08 49 01.4	2.6		
			S	08 56 14.0	6.1		

			LE		Ms=5.4	18.0	2.40
SNY	50.2	336	eP	08 48 55.2	−4.4		
			S	08 56 07.0	−2.6		
			SMN			24.0	3.37
			SME			30.0	2.17
			LN		Ms=5.6	34.0	5.68
			LE			30.0	2.75
MDJ	50.5	342	eP	08 48 59.0	−2.9		
CN2	51.2	339	eP	08 49 06.4	−0.5		
			eS	08 56 22.0	−1.8		
BJI	52.3	329	eP	08 49 14.0	−1.2		
			eS	08 56 37.5	−1.5		
			SME		m_B=5.3	8.0	0.29
			LN		Ms=5.6	20.0	3.36
XAN	52.6	318	eP	08 49 16.2	−1.4		
			eS	08 56 40.0	−3.4		
			LN		Ms=5.4	14.0	1.02
			LE			14.0	1.01
KMI	52.6	305	eP	08 49 19.5	1.5		
			S	08 56 51.0	8.5		
			LN		Ms=5.4	16.0	1.90
TIY	52.7	324	eP	08 49 18.5	0.0		
			LN		Ms=5.6	22.0	3.96
CD2	54.5	312	eP	08 49 32.2	0.3		
			PP	08 51 37.0	2.3		
			eS	08 57 08.0	−1.6		
			LN		Ms=6.1	14.0	6.64
BTO	56.0	325	P	08 49 43.5	0.6		
			LN		Ms=5.7	18.0	2.70
			LE			18.0	2.60
LZH	57.2	317	eP	08 49 52.0	0.9		
			PMZ			2.0	0.090
			eS	08 57 44.0	−1.1		
			LE		Ms=5.4	24.0	2.33
GTA	61.7	319	P	08 50 22.1	0.1		
			eS	08 58 43.1	0.1		
			LE		Ms=6.2	11.0	5.78
LSA	63.9	305	eP	08 50 36.6	−0.5		
WMQ	71.7	318	P	08 51 25.5	−0.5		
			S	09 00 51.0	7.6		
			SME		m_B=5.6	10.0	0.56
KSH	78.7	311	eP	08 52 11.9	6.0		
			PP	08 55 12.9	8.2		
			iS	09 02 09.9	7.6		
			SME		m_B=6.2	7.0	1.20
			LE		Ms=6.8	18.0	24.6

1986 7 1
O=23 54 08.6 ± 0.08s
LAT=47.69 N ± 2.69km
LONG=151.38 E ± 1.42km
DEPTH=153 km ± 0.46km
STATIONS USED = 33, STAND DEV= 1.48s

CN2	18.5	267	+P	23 58 12.6	−2.9
SNY	20.5	264	+iP	23 58 36.2	−0.5
HHC	29.1	271	P	23 59 57.0	−0.2
XAN	34.4	262	eP	24 00 43.0	−0.8
LZH	36.7	269	eP	24 01 03.0	0.0
GTA	37.7	277	+iP	24 01 11.9	0.8
CD2	39.8	263	eP	24 01 28.8	0.1
GYA	40.8	255	P	24 01 36.0	−0.9
KMI	44.3	257	−P	24 02 04.5	−0.8
LSA	49.1	271	iP	24 02 41.8	−1.2

1986 7 2
O=00 29 53.4 ± 0.11s
LAT=35.70 N ± 1.25km
LONG= 99.35 E ± 0.78km
DEPTH= 3 km ± 0.22km
STATIONS USED = 7, STAND DEV= 2.66s
M_L=3.5/ 7,

LZH	3.7	83	Pn	00 30 54.8	3.3		
			Sn	00 31 38.0	0.8		
			SMN	M_L=4.0		0.5	0.31
			SME			0.5	0.51
GTA	3.7	6	Pg	00 30 59.1	−0.2		
			Sn	00 31 38.5	0.1		
			Sg	00 31 46.0	−3.9		
			SME	M_L=3.0		0.8	0.040
XAN	8.0	99	ePn	00 31 51.4	−0.1		
			Pg	00 32 25.0	9.7		
			Sg	00 34 07.0	1.8		
			SMN	M_L=3.4		0.8	0.010
			SME			0.8	0.010

1986 7 2
O=01 37 26.8 ± 0.11s
LAT= 0.74 S ± 1.88km
LONG= 99.90 E ± 2.52km
DEPTH= 35 km ± 0.32km
STATIONS USED = 49, STAND DEV= 1.95s
Ms=4.5/ 2,

KMI	25.9	6	eP	01 42 58.0	0.5
GYA	27.8	13	P	01 43 14.6	−0.8
			pP	01 43 31.4	6.9
			S	01 47 50.4	−3.2
LSA	31.4	345	−iP	01 43 46.7	−1.0
CD2	31.7	6	eP	01 43 48.0	−1.8
WHN	34.0	23	eP	01 44 10.0	0.1
XAN	35.6	13	eP	01 44 21.2	−2.5

LZH	36.8	5	eP	01 44 34.0	0.0		
NJ2	37.2	27	eP	01 44 39.0	1.8		
SSE	37.6	31	eP	01 44 41.0	1.0		
			eS	01 50 22.0	−4.8		
			eScP	01 50 38.0	−2.6		
			LE	Ms=4.6		18.0	0.58
GTA	40.0	360	−iP	01 44 59.8	−0.3		
BJI	43.2	18	eP	01 45 27.0	0.2		
KSH	45.6	334	eP	01 45 47.0	0.8		
			pP	01 46 05.0	9.3		
			S	01 52 24.0	−0.7		

1986 7 2
O=02 09 59.2 ± 0.18s
LAT=25.04 N ± 2.17km
LONG= 96.82 E ± 1.41km
DEPTH= 29 km ± 0.50km
STATIONS USED = 37, STAND DEV= 2.49s
Ms=4.2/10, M_L=4.4/ 4,

KMI	5.4	88	cPn	02 11 21.0	2.9		
			Pg	02 11 41.5	7.4		
			Sg	02 12 47.5	0.0		
			SMN			2.0	0.80
			SME			2.0	0.60
			LN	Ms=4.2		8.0	2.20
CD2	8.5	45	eP	02 12 03.8	0.7		
			(S)	02 13 44.0	5.3		
			LE	Ms=4.3		5.0	0.84
GYA	9.0	79	P	02 12 09.8	−0.5		
			pP	02 12 12.8	−4.0		
			S	02 13 46.0	−5.2		
			LE	Ms=4.3		8.0	1.40
XAN	13.8	47	eP	02 13 11.0	−4.7		
			LN	Ms=4.1		10.0	0.26
			LE			7.0	0.33
GTA	14.5	9	eP	02 13 30.5	5.1		
			LE	Ms=4.1		8.0	0.40
WHN	16.4	67	eP	02 13 53.0	3.3		
TIY	18.3	43	eP	02 14 15.1	1.7		
			LE	Ms=3.6		11.0	0.11
BTO	19.0	32	eP	02 14 20.0	−2.0		
			epP	02 14 23.0	−5.9		
			eS	02 17 47.0	−3.0		
			LN	Ms=4.2		12.0	0.30
			LE			12.0	0.30
WMQ	20.2	341	P	02 14 33.5	−0.9		
NJ2	20.6	65	eP	02 14 39.0	0.6		
			LN	Ms=4.4		10.0	0.50
TIA	20.7	53	−P	02 14 41.2	1.6		
			LE	Ms=4.3		11.5	0.43
BJI	22.1	43	eP	02 14 58.5	4.8		
			S	02 18 58.0	8.2		
SSE	22.3	69	eP	02 14 55.5	−0.6		
			esS	02 19 06.0	−2.2		

1986 7 2
O=03 56 56.6 ± 0.16s
LAT=38.35 N ± 1.54km
LONG=120.39 E ± 1.76km
DEPTH= 10 km ± 0.17km
STATIONS USED = 45, STAND DEV= 3.32s
Ms=4.0/12, M_L=4.6/13,

DL2	1.1	60	−iPg	03 57 17.5	1.1		
			Sg	03 57 31.5	−0.3		
			SMN	M_L=5.0		0.3	33.3
			SME			0.3	28.2
TIA	3.4	232	−Pn	03 57 50.8	1.1		
			Pg	03 58 01.3	5.2		
			Sn	03 58 30.2	−1.5		
			Sg	03 58 43.9	1.8		
			SMN	M_L=4.0		0.6	0.52
			SME			0.6	0.41
			LE	Ms=3.6		10.0	1.75
BJI	3.7	299	cPn	03 57 55.0	1.0		
			eSn	03 58 35.5	−4.0		
			SMN	M_L=4.5		0.5	1.46
			SME			0.5	1.25
SNY	4.2	34	cPn	03 58 03.0	1.2		
			Pg	03 58 14.4	2.8		
			Sg	03 59 08.6	−1.1		
			SMN	M_L=5.2		1.5	4.73
			SME			1.5	4.49
			LN	Ms=3.9		14.0	1.47
			LE			12.0	2.70
TIY	6.3	267	cPn	03 58 32.5	2.3		
			LE	Ms=3.7		10.0	0.67
NJ2	6.4	192	cPn	03 58 35.0	3.5		
			Pg	03 58 56.0	6.2		
			Sg	04 00 21.0	3.6		
			SMN	M_L=5.4		0.5	2.50
			SME			0.5	2.30
CN2	6.7	33	Pg	03 58 59.6	5.5		
			Sg	04 00 23.4	−1.5		
			SMN	M_L=4.9		1.0	0.49
			SME			1.0	0.76
HHC	7.3	293	cPg	03 59 12.0	7.1		
			LN	Ms=4.0		10.0	0.88
			LE			10.0	0.77
SSE	7.3	175	cPn	03 58 43.0	−0.3		
			LN	Ms=3.8		10.0	0.44

			LE			9.0	0.52
BTO	8.3	289	eP	03 59 13.0	12.6		
			LN	Ms=4.0		11.0	1.00
			LE			11.0	0.40
WHN	9.2	214	eP	03 59 06.0	−7.2		
			eS	04 00 52.0	−6.4		
			LG_1	04 01 40.5	−6.5		
			LG_2	04 01 56.0	−5.7		
			LE	Ms=4.2		10.0	1.25
MDJ	9.3	45	eP	03 59 04.6	−9.7		
XAN	10.2	249	eP	03 59 22.8	−3.9		
			LE	Ms=4.0		12.0	0.76
LZH	13.4	265	eP	04 00 10.5	0.8		
CD2	15.6	246	eP	04 00 39.0	0.9		
GTA	16.1	280	+iP	04 00 45.9	1.2		
			LG_2	04 05 43.5	−2.9		
			LN	Ms=3.9		10.0	0.25
GYA	16.6	228	P	04 00 55.4	4.4		
WMQ	25.1	293	eP	04 02 26.0	2.1		

1986 7 2
O=03 58 21.4 ± 0.15s
LAT=38.30 N ± 1.52km
LONG=120.63 E ± 2.26km
DEPTH= 16 km
STATIONS USED = 13, STAND DEV= 3.64s
Ms=3.8/ 4, M_L=4.6/ 7,

DL2	1.0	52	Pn	02 58 39.5	−1.7		
			Sn	03 58 52.8	−3.8		
			SMN	M_L=4.9		0.3	24.2
			SME			0.3	28.2
TIA	3.5	234	cPg	03 59 22.5	−0.5		
			Sg	04 00 05.1	−5.5		
			SMN	M_L=4.0		0.6	0.40
			SME			0.6	0.40
			LE	Ms=3.6		8.5	1.20
SNY	4.2	32	cPg	03 59 34.8	−0.6		
			Sg	04 00 29.2	−3.5		
			SMN	M_L=5.0		1.0	2.53
			SME			1.0	2.66
			LN	Ms=3.8		13.0	1.49
			LE			14.0	2.34
CN2	6.6	32	cPg	04 00 21.6	3.7		
			cSg	04 01 45.4	−2.6		
			SMN	M_L=4.9		1.0	0.35
			SME			1.0	0.89

1986 7 2
O=04 16 57.4 ± 0.20s
LAT=22.04 S ± 3.69km
LONG=179.42 W ± 3.12km
DEPTH=600 km ± 0.70km
STATIONS USED = 72, STAND DEV= 0.91s
m_B=5.6 / 14

QZH	76.2	304	−iP	04 27 46.5	−0.5		
			cS	04 36 44.0	−0.3		
SSE	77.7	311	+P	04 27 54.5	−0.5		
			PMZ			1.2	0.080
			sP	04 30 58.0	−1.0		
			S	04 36 59.0	0.4		
			SKS	04 37 12.0	4.3		
			ScS	04 37 25.0	8.2		
GZH	79.3	300	−iP	04 28 05.0	1.2		
			PMZ	m_B=5.6		4.0	1.12
			cS	04 37 20.0	2.8		
NJ2	79.9	311	−P	04 28 07.5	0.9		
			PMZ	m_B=5.5		4.0	0.80
			S	04 37 25.0	4.1		
			SS	04 42 51.0	−0.7		
MDJ	81.0	326	−iP	04 28 13.1	0.5		
			S	04 37 24.0	−8.6		
			sS	04 41 06.2	−9.2		
WHN	82.3	307	P	04 28 19.5	0.5		
			cS	04 37 47.0	0.2		
			SMN	m_B=5.1		10.0	0.37
			SKS	04 37 42.0	2.0		
SNY	82.5	321	−iP	04 28 20.0	−0.3		
			PMZ			16.0	0.41
			sP	04 31 26.0	0.5		
			S	04 37 42.0	−5.5		
			sS	04 41 38.0	6.8		
CN2	82.7	323	−iP	04 28 21.0	−0.2		
			PMZ			2.0	1.30
			pP	04 30 30.0	2.4		
			sP	04 31 25.0	−1.4		
			SKS	04 37 43.0	0.1		
			S	04 37 54.0	4.8		
			sS	04 41 40.0	7.0		
TIA	83.3	313	−P	04 28 24.3	0.0		
			S	04 37 50.0	−5.3		
			SME	m_B=5.6		6.0	0.73
			LE			16.5	0.75
BJI	86.1	316	eP	04 28 37.5	0.0		
			PMZ	m_B=5.8		4.0	0.78
			ePP	04 32 04.0	−5.6		
			eSKS	04 38 05.5	0.5		
			eS	04 38 24.0	1.4		
			SMN	m_B=5.2		8.0	0.27
			esS	04 42 10.0	2.9		
GYA	86.3	300	−P	04 28 39.0	0.4		

			pP	04 30 49.0	3.0		
			sP	04 31 48.0	3.4		
			PP	04 32 10.0	−1.4		
			SKS	04 38 09.0	2.6		
TIY	87.3	313	−iP	04 28 44.0	0.5		
			PMZ			1.2	1.07
			SMN	$m_B = 5.7$		6.0	0.40
			SME			6.0	0.40
XAN	88.0	308	−iP	04 28 47.1	0.4		
			PMZ			1.2	0.21
			pP	04 30 56.1	1.3		
			SKS	04 38 17.5	0.2		
			S	04 38 46.0	7.2		
			SMN	$m_B = 5.6$		8.0	0.40
			SME			8.0	0.40
KMI	88.9	298	−iP	04 28 52.0	1.0		
			PMZ			2.0	0.50
			SKS	04 38 25.0	2.5		
HHC	89.5	315	−P	04 28 54.0	0.3		
			pP	04 31 06.0	4.0		
			SKS	04 38 28.0	1.9		
			S	04 39 01.5	9.7		
			SMN	$m_B = 5.6$		7.0	0.56
BTO	90.4	314	+iP	04 28 58.0	0.2		
			epP	04 31 05.0	−1.4		
			ePP	04 32 47.5	3.0		
			SKS	04 38 32.5	1.2		
			eS	04 39 02.0	0.2		
CD2	90.5	303	P	04 28 59.2	0.9		
			epP	04 31 11.0	4.0		
			esP	04 32 08.0	2.7		
			SKS	04 38 33.0	1.0		
LZH	92.7	308	−iP	04 29 09.0	0.8		
			PMZ			1.5	0.15
			SKS	04 38 43.0	−0.9		
GTA	96.9	310	−iP	04 29 27.4	−0.1		
			SKS	04 39 06.5	0.4		
			S	04 40 04.0	8.6		
			SME	$m_B = 5.2$		6.0	0.34
LSA	100.1	298	P	04 29 56.0	15.2		
			SME	$m_B = 5.9$		4.0	0.54
KSH	114.7	304	ePKP	04 34 32.0	0.3		

1986 7 2

O = 10 20 25.1 ± 0.06s

LAT = 7.82 S ± 1.14km

LONG = 150.83 E ± 1.67km

DEPTH = 33 km ± 0.43km

STATIONS USED = 83, STAND DEV = 0.85s

Ms = 4.8 / 7, $m_B = 5.4$ / 8

QZH	45.2	317	eP	10 28 43.0	1.5		
			eS	10 35 24.0	4.9		
GZH	47.8	311	+P	10 29 03.0	1.0		
			eS	10 35 54.0	−2.1		
SSE	48.0	325	P	10 29 03.0	−0.3		
			eS	10 36 04.0	5.7		
			sS	10 36 13.0	−0.9		
			LE	Ms = 4.8		20.0	0.58
NJ2	50.0	324	−P	10 29 20.0	1.0		
			pP	10 29 28.4	0.0		
			S	10 36 30.0	4.2		
			SMN	$m_B = 5.3$		12.0	0.50
			LN	Ms = 5.0		10.0	0.50
WHN	51.8	319	eP	10 29 32.0	0.0		
			pP	10 29 40.0	−1.5		
			eS	10 36 52.0	1.3		
			SMN	$m_B = 5.3$		10.0	0.37
			sS	10 37 05.0	−1.3		
TIA	54.1	326	−P	10 29 48.1	−1.1		
			sP	10 30 00.0	−2.6		
			SME	$m_B = 5.5$		7.0	0.48
			LE	Ms = 4.9		10.0	0.31
GYA	54.7	310	−P	10 29 54.8	0.4		
			pP	10 30 03.0	−0.8		
			S	10 37 39.0	8.9		
SNY	55.4	335	−iP	10 29 58.0	−0.6		
			PMZ	$m_B = 5.4$		8.0	0.43
			pP	10 30 12.0	3.8		
			S	10 37 43.0	4.8		
MDJ	55.6	342	−P	10 30 00.4	0.0		
			S	10 37 42.4	0.9		
CN2	56.3	338	−P	10 30 04.0	−1.4		
			esP	10 30 14.0	−4.9		
			eS	10 37 50.0	−2.0		
KMI	57.1	307	−P	10 30 12.0	0.4		
			S	10 38 11.0	9.3		
			SMN	$m_B = 5.5$		10.0	0.60
BJI	57.4	329	eP	10 30 12.0	−1.1		
			epP	10 30 19.0	−3.7		
			eS	10 38 06.0	−0.2		
XAN	57.5	319	−iP	10 30 13.6	−0.6		
			PMZ			1.2	0.20
			pP	10 30 22.0	−1.7		
			ePcP	10 31 11.0	4.5		
			S	10 38 10.0	3.1		
TIY	57.8	324	−P	10 30 15.5	−0.4		
			LN	Ms = 4.8		9.0	0.23
CD2	59.3	313	−iP	10 30 26.6	0.1		
			pP	10 30 35.0	−0.9		
			eS	10 38 36.0	4.8		

HHC	60.4	326	−iP	10 30 34.0	−0.3		
			pP	10 30 43.0	−0.7		
			S	10 38 50.0	5.6		
			SME	$m_B = 5.3$		7.0	0.30
BTO	61.1	325	+iP	10 30 39.0	0.0		
			pP	10 30 47.0	−1.3		
			ePP	10 32 56.0	1.1		
			eS	10 38 58.0	3.4		
LZH	62.1	318	−iP	10 30 47.0	1.3		
			PMZ			1.5	0.56
			pP	10 30 55.0	−0.1		
GTA	66.6	319	−iP	10 31 15.4	0.5		
			eS	10 40 06.5	3.7		
			SMN	$m_B = 5.5$		8.0	0.45
LSA	68.4	306	eP	10 31 24.9	−1.6		
WMQ	76.7	318	−iP	10 32 15.5	0.2		
			PMZ			1.4	0.070
			S	10 42 02.0	4.9		
KSH	83.4	311	−P	10 32 52.7	1.3		
			S	10 43 14.7	7.1		

1986 7 2
O = 12 53 07.1 ± 0.27s
LAT = 59.48 S ± 6.82km
LONG = 26.32 W ± 6.64km
DEPTH = 51 km ± 1.18km
STATIONS USED = 51, STAND DEV = 2.76s
Ms = 5.4 / 2,

KSH	128.9	77	ePKP	13 12 12.0	1.7		
LSA	129.0	97	PKP	13 12 10.6	−0.1		
KMI	130.9	111	−PKP	13 12 15.0	0.9		
GYA	133.9	115	PKP	13 12 20.6	0.9		
			PP	13 14 57.0	4.2		
WMQ	138.0	82	PKP	13 12 28.0	0.7		
LZH	140.4	104	−PKP	13 12 35.0	3.3		
WHN	140.8	120	ePKP	13 12 37.8	5.5		
GTA	141.0	96	ePKP	13 12 26.9	−5.8		
XAN	141.3	111	ePKP	13 12 27.2	−5.9		
NJ2	144.1	124	−PKP	13 12 37.5	−0.3		
SSE	144.2	128	ePKP	13 12 36.3	−1.7		
			PKP_2	13 12 38.0			
			SS	13 34 32.0	−2.2		
			LN	Ms = 5.4		20.0	0.42
TIY	145.9	111	+PKP	13 12 42.0	0.9		
TIA	146.9	118	ePKP	13 12 43.2	0.5		
BTO	147.0	105	PKP	13 12 44.0	1.0		
HHC	147.9	107	ePKP	13 12 45.0	0.5		
BJI	149.5	113	ePKP	13 12 46.0	−0.9		
DL2	151.1	121	+PKP	13 12 55.0	5.7		
SNY	154.3	120	PKP	13 12 50.0	−3.9		
			PKP_2	13 13 14.0			
			PP	13 16 50.0	−4.3		
CN2	156.7	120	PKP	13 12 56.0	−1.2		
			PKP_2	13 13 26.0			
			PP	13 17 04.0	−3.1		
MDJ	159.2	125	ePKP	13 13 00.0	−0.2		

1986 7 2
O = 13 23 28.0 ± 0.17s
LAT = 44.41 N ± 3.47km
LONG = 149.13 E ± 2.04km
DEPTH = 30 km ± 2.28km
STATIONS USED = 41, STAND DEV = 2.04s

MDJ	13.9	278	eP	13 26 45.5	−0.6
CN2	17.0	276	eP	13 27 23.0	−2.6
SNY	18.8	271	eP	13 27 47.2	−0.7
DL2	21.2	265	eP	13 28 12.1	−1.8
BJI	24.7	271	eP	13 28 47.0	−1.1
TIA	25.6	262	eP	13 28 55.7	−1.2
NJ2	26.6	253	+P	13 29 08.6	2.3
HHC	27.7	276	eP	13 29 16.0	−0.3
TIY	28.3	269	eP	13 29 24.6	3.1
BTO	28.9	276	eP	13 29 26.0	−0.9
XAN	32.5	265	eP	13 29 57.0	−2.1
LZH	35.2	272	+P	13 30 21.8	−0.1
GTA	36.6	280	+P	13 30 33.6	−0.3
CD2	37.9	265	eP	13 30 43.7	−1.0
GYA	38.5	257	P	13 30 48.6	−1.0
KMI	42.1	259	−P	13 31 19.0	−0.4
WMQ	43.2	292	P	13 31 28.4	−0.1

1986 7 2
O = 13 26 34.8 ± 0.05s
LAT = 44.36 N ± 1.45km
LONG = 149.12 E ± 0.76km
DEPTH = 63 km ± 0.69km
STATIONS USED = 25, STAND DEV = 1.82s

MDJ	13.9	278	eP	13 29 48.0	−3.0
CN2	17.0	276	eP	13 30 28.5	−1.6
SNY	18.8	271	eP	13 30 49.4	−2.5
DL2	21.2	265	eP	13 31 14.7	−2.7
BJI	24.7	271	eP	13 31 50.0	−1.5
HHC	27.7	276	P	13 32 18.0	−1.6
BTO	28.9	276	eP	13 32 28.8	−1.5
LZH	35.2	272	+iP	13 33 24.0	−1.1
GTA	36.6	280	P	13 33 36.1	−1.0
CD2	37.9	265	eP	13 33 46.4	−1.4
GYA	38.4	257	P	13 33 51.0	−1.6

1986 7 2

O=20 45 49.1 ± 0.27s
LAT=26.63 S ± 9.06km
LONG=114.34 W ± 8.73km
DEPTH= 5 km ± 2.55km
STATIONS USED = 41, STAND DEV= 3.03s
Ms=5.6/ 4,

MDJ	126.4	307	ePKP	21 04 54.7	0.5		
CN2	129.3	306	ePKP	21 04 58.5	−1.4		
DL2	132.0	299	ePKP	21 05 05.7	0.6		
BJI	136.3	301	ePKP	21 05 10.0	−3.0		
WHN	137.3	287	ePKP	21 05 08.5	−6.4		
TIY	139.3	298	ePKP	21 05 19.5	0.9		
			LE	Ms=5.4		16.0	0.34
HHC	139.7	303	ePKP	21 05 20.0	0.5		
BTO	140.9	302	PKP	21 05 20.4	−1.2		
			ePP	21 08 27.0	2.3		
XAN	142.2	292	ePKP	21 05 21.2	−2.5		
GYA	143.4	279	PKP	21 05 24.0	−1.9		
LZH	146.2	296	−PKP	21 05 33.0	2.2		
CD2	146.4	286	PKP	21 05 32.0	0.9		
KMI	146.7	276	ePKP	21 05 32.0	0.3		
			PKP_2	21 06 02.5			
GTA	148.8	303	ePKP	21 05 35.0	−0.1		
			PP	21 09 11.4	0.1		
			LE	Ms=5.6		22.0	0.82
WMQ	155.3	320	PKP	21 05 44.0	−0.3		
LSA	157.3	284	PKP	21 05 47.5	0.0		
KSH	164.6	329	−PKP	21 05 57.4	2.5		

1986 7 3
O=00 12 14.2 ± 0.20s
LAT=59.31 S ± 7.27km
LONG= 26.73 W ± 6.05km
DEPTH= 33 km ± 0.36km
STATIONS USED = 25, STAND DEV= 4.14s
Ms=5.4/ 2,

GTA	141.2	97	cPKP	00 31 36.8	−5.9		
XAN	141.5	111	PKP	00 31 37.5	−5.7		
NJ2	144.4	125	cPKP	00 31 47.0	−0.9		
			LE	Ms=5.5		15.0	0.40
SSE	144.5	128	cPKP	00 31 46.0	−2.2		
TIY	146.2	111	cPKP	00 31 53.5	2.3		
			LE	Ms=5.2		10.0	0.15
TIA	147.1	118	cPKP	00 31 54.8	2.0		
BTO	147.2	105	PKP	00 31 56.0	3.0		
BJI	149.8	113	cPKP	00 32 02.0	5.0		
DL2	151.4	121	cPKP	00 32 06.4	7.0		

1986 7 3
O=01 41 45.0 ± 0.09s
LAT=14.53 N ± 1.13km
LONG=146.83 E ± 1.65km
DEPTH= 62 km ± 0.58km
STATIONS USED = 75, STAND DEV= 0.97s
Ms=4.6/ 5,

SSE	28.7	309	cP	01 47 37.0	−1.8		
			csP	01 47 55.0	−4.9		
			cPP	01 48 42.0	9.8		
			cS	01 52 18.0	−3.6		
			sS	01 52 42.0	−4.8		
			LE	Ms=4.6		18.0	0.86
NJ2	30.9	309	cP	01 47 57.0	−1.4		
DL2	32.9	322	cP	01 48 15.6	−0.2		
MDJ	33.4	337	cP	01 48 19.0	−0.9		
WHN	33.8	304	cP	01 48 23.5	−0.1		
SNY	33.8	328	+P	01 48 23.0	−0.8		
TIA	34.2	315	−P	01 48 26.5	−0.6		
			LE	Ms=4.8		16.0	0.83
CN2	34.4	332	−P	01 48 27.0	−1.9		
			pP	01 48 41.0	−2.5		
BJI	36.9	319	cP	01 48 50.0	−0.2		
			cpP	01 49 04.0	−0.9		
			cS	01 54 32.0	2.1		
TIY	38.2	314	−P	01 49 01.6	0.5		
			PMZ			1.0	0.050
			LE	Ms=4.5		17.0	0.40
GYA	39.3	294	P	01 49 11.2	1.2		
			pP	01 49 24.6	−0.1		
XAN	39.3	306	−P	01 49 10.4	0.1		
			PcP	01 51 17.6	0.2		
			cS	01 55 08.0	1.5		
HHC	40.3	317	−P	01 49 19.5	0.9		
BTO	41.2	316	+P	01 49 26.5	0.4		
			pP	01 49 40.0	−0.7		
			cS	01 55 40.5	5.6		
KMI	42.6	291	−P	01 49 39.0	1.4		
CD2	42.7	300	P	01 49 38.0	0.4		
			cS	01 56 02.6	7.0		
LZH	43.9	307	−iP	01 49 49.5	1.3		
			PMZ			1.4	0.21
GTA	48.0	310	−iP	01 50 20.7	0.4		
			PcP	01 51 48.9	2.2		
			(S)	01 57 18.0	5.5		
			LE	Ms=4.6		21.0	0.40
WMQ	57.9	313	P	01 51 34.0	0.5		
			PMZ			1.2	0.13
			pP	01 51 47.0	−1.8		
			PcP	01 52 25.0	1.1		
			S	01 59 35.0	9.7		
			sS	01 59 49.5	−3.6		

KSH	66.2	337	eP	01 52 30.0	0.9		

1986 7 3
O = 02 04 10.0 ± 0.10s
LAT = 39.41 N ± 1.23km
LONG = 117.74 E ± 0.81km
DEPTH = 13 km ± 0.51km
STATIONS USED = 13, STAND DEV = 2.68s
M_L = 3.6 / 11,

BJI	1.4	298	Pg	02 04 34.5	0.3		
			Sg	02 04 52.0	−0.9		
			SMN	M_L = 3.8		0.5	1.58
			SME			0.5	1.25
DL2	3.1	98	cPn	02 04 58.5	0.0		
			Pg	02 05 12.0	8.0		
			cSn	02 05 42.0	5.0		
			Sg	02 05 55.6	9.7		
			SMN	M_L = 3.4		1.0	0.20
			SME			1.0	0.11
TIA	3.2	189	Pn	02 05 01.0	0.1		
			Pg	02 05 08.8	1.8		
			Sg	02 05 48.0	−3.1		
			SMN	M_L = 3.4		0.3	0.11
			SME			0.3	0.13
TIY	4.5	250	Pg	02 05 34.4	4.9		
			Sg	02 06 26.6	−4.1		
			SMN	M_L = 3.6		0.5	0.12
			SME			0.4	0.090
SNY	5.1	60	cPg	02 05 41.0	1.7		
			Sg	02 06 50.6	2.2		
			SMN	M_L = 3.6		0.8	0.10
			SME			0.8	0.050
BTO	6.1	284	cPg	02 05 51.6	−5.5		

1986 7 3
O = 04 56 48.3 ± 0.14s
LAT = 2.33 N ± 2.02km
LONG = 126.71 E ± 2.94km
DEPTH = 33 km ± 0.41km
STATIONS USED = 37, STAND DEV = 1.96s

GZH	24.4	329	−P	05 02 05.5	0.7		
SSE	29.1	350	P	05 02 49.3	1.0		
			PMZ			1.2	0.020
			cS	05 07 34.0	−2.7		
WHN	30.4	339	cP	05 03 00.0	−0.1		
NJ2	30.5	347	cP	05 03 01.5	0.8		
GYA	30.8	323	P	05 03 03.2	−0.2		
KMI	32.4	317	cP	05 03 16.0	−1.6		
XAN	35.7	334	P	05 03 44.0	−1.8		
CD2	35.8	325	eP	05 03 45.4	−1.3		
TIY	37.6	341	−P	05 04 02.4	0.4		
BJI	38.7	347	eP	05 04 11.0	−0.5		
SNY	39.4	356	eP	05 04 17.2	−0.1		
LZH	39.7	330	+P	05 04 20.0	0.2		
CN2	41.3	359	eP	05 04 36.0	3.1		
MDJ	42.2	3	eP	05 04 42.0	1.9		
GTA	44.3	330	P	05 04 56.2	−1.1		
WMQ	53.9	326	P	05 06 09.5	−1.6		

1986 7 3
O = 09 21 25.7 ± 0.54s
LAT = 16.17 S ± 3.35km
LONG = 172.42 W ± 2.92km
DEPTH = 13 km ± 2.36km
STATIONS USED = 24, STAND DEV = 1.12s
m_B = 5.5 / 2

MDJ	80.2	322	eP	09 33 39.0	0.7		
CN2	82.3	320	eP	09 33 48.0	−1.2		
			sP	09 33 56.8	−1.1		
SNY	82.5	317	eP	09 33 49.4	−0.8		
TIA	84.4	310	−P	09 34 00.9	0.8		
			sP	09 34 09.0	0.1		
BJI	86.7	313	eP	09 34 11.5	0.2		
			esP	09 34 22.0	2.0		
			eS	09 44 53.0	5.9		
			SMN	m_B = 5.6		7.0	0.38
TIY	88.5	310	eP	09 34 18.5	−1.5		
			(S)	09 45 10.5	6.4		
			SMN	m_B = 5.4		8.0	0.28
GYA	89.2	298	P	09 34 25.4	1.7		
			pP	09 34 33.8	4.2		
XAN	89.8	305	P	09 34 27.4	0.9		
			sP	09 34 36.0	0.8		
BTO	91.2	312	eP	09 34 33.5	0.4		
			epP	09 34 40.0	1.0		
			eSKS	09 45 02.0	0.1		
			eS	09 45 27.0	−2.5		

1986 7 3
O = 11 47 34.3 ± 0.27s
LAT = 44.13 N ± 2.38km
LONG = 85.35 E ± 3.25km
DEPTH = 23 km ± 0.66km
STATIONS USED = 33, STAND DEV = 3.28s
Ms = 4.1 / 4, M_L = 4.6 / 3,

WMQ	1.7	100	+iP	11 48 04.1	0.7		
			S	11 48 26.2	1.7		
GTA	11.8	109	P	11 50 19.9	−4.5		
			LE	Ms = 3.9		7.0	0.31
LZH	16.2	113	eP	11 51 25.8	2.6		

BTO	18.5	92	eP	11 51 54.0	2.1	
			eS	11 55 14.0	−1.2	
XAN	20.8	111	eP	11 52 14.5	−2.6	
TIY	21.4	98	−P	11 52 20.8	−2.1	
BJI	23.2	89	eP	11 52 41.0	0.6	
GYA	24.7	129	P	11 52 55.2	0.2	

1986 7 3
O = 23 28 53.0 ± 0.10s
LAT = 35.89 N ± 2.47km
LONG = 139.43 E ± 2.77km
DEPTH = 154 km ± 2.21km
STATIONS USED = 57, STAND DEV = 1.76s

MDJ	11.5	322	eP	23 31 35.3	1.7		
CN2	13.3	311	−P	23 32 00.0	2.8		
			eS	23 34 25.0	2.8		
			LE			11.0	0.20
SNY	13.7	300	−iP	23 32 04.0	2.1		
			eS	23 34 30.0	−0.7		
			LN			12.0	0.42
DL2	14.5	287	eP	23 32 14.5	2.8		
SSE	15.9	258	eP	23 32 30.5	0.3		
			eS	23 35 25.0	2.8		
NJ2	17.5	263	+P	23 32 48.5	−0.3		
TIA	18.0	278	−P	23 32 54.1	−1.1		
			sP	23 33 40.6	2.0		
BJI	18.8	290	eP	23 33 01.5	−1.5		
			csP	23 33 48.0	0.1		
			eS	23 36 24.0	0.0		
WHN	21.6	263	eP	23 33 32.0	0.2		
TIY	21.7	283	eP	23 33 31.0	−1.4		
BTO	23.5	290	eP	23 33 48.0	−2.3		
XAN	25.0	275	P	23 34 04.6	0.0		
			pP	23 34 34.0	−1.5		
			sP	23 34 51.5	−2.3		
GZH	26.0	248	−iP	23 34 13.5	0.3		
LZH	28.7	281	−iP	23 34 38.2	0.0		
GYA	29.5	261	+P	23 34 43.6	−1.3		
CD2	30.1	271	eP	23 34 48.9	−1.5		
GTA	31.4	288	P	23 35 02.0	0.0		
KMI	33.2	261	+P	23 35 16.0	−1.8		
WMQ	39.9	298	P	23 36 16.0	1.8		
LSA	40.7	275	eP	23 36 22.0	1.0		
KSH	49.4	294	P	23 37 33.0	3.3		

1986 7 4
O = 06 13 54.0 ± 0.12s
LAT = 8.87 S ± 2.18km
LONG = 106.60 E ± 2.33km
DEPTH = 36 km ± 0.30km

STATIONS USED = 21, STAND DEV = 1.37s

LSA	41.1	339	+P	06 21 37.5	0.2
NJ2	42.3	16	−P	06 21 48.0	1.2
XAN	42.7	3	P	06 21 49.4	−0.6
LZH	44.8	357	P	06 22 07.5	0.7
TIY	46.7	6	iP	06 22 21.8	0.3
GTA	48.4	353	P	06 22 35.8	0.2
BJI	49.5	10	eP	06 22 41.5	−1.8
CN2	55.1	17	eP	06 23 24.0	−1.8
KSH	55.8	332	eP	06 23 27.0	−4.0

1986 7 4
O = 08 54 36.5 ± 0.08s
LAT = 62.28 N ± 1.16km
LONG = 123.96 W ± 1.45km
DEPTH = 11 km ± 0.40km
STATIONS USED = 15, STAND DEV = 1.53s

GTA	72.7	326	P	09 06 07.6	0.3
LZH	74.7	322	eP	09 06 19.5	0.5

1986 7 4
O = 12 28 02.7 ± 0.06s
LAT = 20.66 S ± 1.07km
LONG = 178.64 W ± 0.22km
DEPTH = 629 km ± 0.95km
STATIONS USED = 17, STAND DEV = 0.95s

NJ2	79.5	310	eP	12 39 08.5	0.6
CN2	82.1	323	eP	12 39 20.2	−0.7
XAN	87.8	308	P	12 39 48.7	0.2

1986 7 4
O = 13 21 13.9 ± 0.21s
LAT = 38.87 N ± 3.75km
LONG = 96.94 E ± 1.84km
DEPTH = 25 km ± 0.07km
STATIONS USED = 10, STAND DEV = 3.75s
M_L = 4.5 / 6,

GTA	2.3	75	+iPn	13 21 53.6	2.6		
			Sn	13 22 20.9	0.9		
			SMN	M_L = 4.4		1.0	2.72
LZH	6.2	115	Pn	13 23 12.5	28.9		
WMQ	8.5	308	P	13 23 19.8	0.7		
			S	13 24 49.5	−5.7		
			SMN	M_L = 4.5		1.0	0.11
XAN	10.8	113	eP	13 23 45.0	−5.2		
TIY	12.2	91	e(P)	13 24 06.0	−3.9		
CN2	21.9	68	eP	13 26 10.0	2.6		

1986 7 4
O = 22 18 52.1 ± 0.14s

LAT= 3.50 S ± 1.42km
LONG=145.21 E ± 1.59km
DEPTH= 10 km ± 0.34km
STATIONS USED = 28, STAND DEV= 1.56s
Ms=5.1/ 4,

SSE	41.3	328	eP	22 26 38.2	−2.0		
			ePP	22 28 10.0	−8.3		
			sS	22 33 00.0	−3.7		
			LN	Ms=4.7		20.0	0.72
GYA	47.7	311	P	22 27 33.6	2.0		
KMI	50.1	307	eP	22 27 52.0	2.0		
			LN	Ms=5.2		15.0	1.20
XAN	50.6	321	eP	22 27 51.4	−2.7		
CD2	52.3	314	eP	22 28 06.5	0.0		
BTO	54.4	327	eP	22 28 21.0	−1.5		
LZH	55.2	319	eP	22 28 29.0	1.0		
GTA	59.7	320	P	22 28 59.4	−0.6		
LSA	61.3	307	eP	22 29 11.8	0.3		
WMQ	69.7	319	eP	22 30 05.6	0.3		
KSH	76.4	312	eP	22 30 57.0	13.7		

1986 7 4
O=23 02 55.9 ± 0.19s
LAT=25.28 N ± 3.60km
LONG=122.17 E ± 3.68km
DEPTH= 41 km ± 2.84km
STATIONS USED = 16, STAND DEV= 2.78s
Ms=4.3/ 6, m_B=4.7/ 1

SSE	5.9	352	eP	23 04 22.2	−0.3		
			LE	Ms=3.9		13.0	1.67
NJ2	7.3	337	eP	23 04 38.0	−5.5		
			eS	23 06 06.0	0.1		
			LE	Ms=4.1		12.0	1.60
XAN	14.4	310	eP	23 06 25.6	5.9		
			LN	Ms=4.3		9.0	0.61
			LE			9.0	0.41
CD2	17.2	293	eP	23 06 54.2	−0.6		
CN2	18.7	7	eP	23 07 13.6	0.5		
LZH	19.1	309	eP	23 07 18.0	0.0		
GTA	23.5	312	+P	23 08 02.5	−0.7		
			LN	Ms=4.3		11.0	0.34

1986 7 5
O=03 01 31.7 ± 0.07s
LAT=51.09 N ± 2.74km
LONG=179.66 W ± 1.21km
DEPTH= 39 km ± 0.92km
STATIONS USED = 77, STAND DEV= 0.92s
Ms=5.4/25, m_B=5.6/10

MDJ	34.1	279	eP	03 08 13.9	−1.2		
			S	03 13 34.9	−1.5		
			SS	03 15 41.0	−4.8		
CN2	37.1	281	+P	03 08 39.5	−1.0		
			PMZ	m_B=5.6		5.0	0.50
			PP	03 10 06.0	−1.1		
			PPMZ			7.0	0.70
			eS	03 14 20.0	−3.4		
			SMN	m_B=5.1		8.0	0.30
			eSS	03 16 55.0	1.4		
SNY	39.3	279	+P	03 08 59.4	0.5		
			PP	03 10 33.0	−0.4		
			S	03 14 58.0	1.9		
			sS	03 15 24.0	9.6		
			LN	Ms=5.4		21.0	3.08
			LE			22.0	1.85
DL2	42.2	277	+P	03 09 22.9	0.0		
			eS	03 15 43.0	2.8		
			LN	Ms=5.2		15.0	1.07
			LE			16.0	1.15
BJI	44.9	282	eP	03 09 45.0	0.1		
			PMZ	m_B=5.6		6.0	0.53
			eS	03 16 14.5	−5.2		
			SMN	m_B=5.2		10.0	0.40
			LN	Ms=5.3		20.0	2.16
			LE			20.0	1.26
TIA	46.7	277	eP	03 09 58.7	−0.2		
			eS	03 16 42.3	−2.5		
			LE	Ms=5.4		17.0	2.28
HHC	47.2	286	+P	03 10 04.5	0.9		
			PMZ	m_B=5.9		5.0	0.75
			PcS	03 15 30.0	2.2		
			S	03 16 58.0	5.9		
			LN	Ms=5.5		16.0	1.87
			LE			16.0	2.08
SSE	47.5	269	+iP	03 10 06.0	1.0		
			PMZ			1.2	0.080
			eS	03 17 02.0	6.0		
			SS	03 20 16.0	−0.8		
			LN	Ms=5.1		16.0	0.98
NJ2	48.3	271	+P	03 10 12.0	0.5		
			sP	03 10 19.0	−7.3		
			eS	03 17 10.0	2.3		
			LN	Ms=5.3		14.0	1.50
BTO	48.3	286	−P	03 10 12.0	−0.1		
			PMZ	m_B=5.9		6.0	0.90
			PP	03 12 06.0	2.7		
			S	03 17 09.0	1.5		
			LN	Ms=5.6		17.0	2.50
			LE			19.0	2.10
TIY	48.6	282	+iP	03 10 15.0	0.6		

			PMZ			1.2	0.12
			PP	03 12 07.0	0.6		
			PPMZ			13.0	0.55
			S	03 17 20.0	8.3		
			SMN	m_B = 5.2		10.0	0.35
			SS	03 20 45.5	8.1		
			LN	Ms = 5.3		15.0	0.98
			LE			23.0	1.64
WHN	52.1	273	eP	03 10 39.5	−1.4		
			eS	03 18 02.0	0.8		
			LN	Ms = 5.0		14.0	0.59
XAN	53.2	281	+P	03 10 47.6	−1.2		
			PP	03 12 49.0	−0.6		
			eS	03 18 14.0	−1.6		
			LN	Ms = 5.3		19.0	1.58
LZH	54.9	286	+iP	03 11 02.0	0.1		
			PMZ			1.5	0.16
			sP	03 11 14.5	−2.1		
			eS	03 18 38.0	−1.6		
			LN	Ms = 5.9		15.0	1.85
			LE			7.0	2.76
GTA	55.2	291	+iP	03 11 02.9	−0.6		
			PcP	03 12 03.4	0.2		
			S	03 18 44.0	2.9		
			SMN	m_B = 5.9		9.0	1.37
			LN	Ms = 5.4		15.5	1.59
GZH	58.0	268	+P	03 11 24.0	0.3		
			eS	03 19 28.0	8.0		
CD2	58.5	281	eP	03 11 26.6	−0.5		
			pP	03 11 40.0	2.4		
			sP	03 11 44.5	2.5		
			eS	03 19 22.0	−4.4		
			LE	Ms = 5.4		20.0	2.03
WMQ	59.0	303	P	03 11 31.0	0.1		
			PMZ			1.5	0.14
			ScP	03 16 19.0	4.9		
			S	03 19 39.0	6.8		
			LN	Ms = 5.7		24.0	4.06
GYA	59.8	276	P	03 11 35.6	−0.7		
			S	03 19 43.0	0.9		
KMI	63.2	277	eP	03 11 59.5	0.1		
KSH	68.3	306	P	03 12 32.0	0.4		
			iS	03 21 31.0	2.5		
			LE	Ms = 5.7		13.0	1.80

1986 7 5
O = 11 44 27.2 ± 0.13s
LAT = 24.60 N ± 1.91km
LONG = 125.17 E ± 1.50km
DEPTH = 48 km ± 0.90km
STATIONS USED = 26, STAND DEV = 2.35s
Ms = 3.6 / 3,

QZH	6.0	275	eP	11 45 55.0	−0.5		
SSE	7.4	332	e(P)	11 46 12.5	−2.4		
			LN	Ms = 3.6		12.0	0.60
NJ2	9.3	325	eP	11 46 42.6	1.3		
			eS	11 48 34.0	9.6		
			LE	Ms = 3.6		13.0	0.40
WHN	11.3	304	eP	11 47 04.0	−4.6		
XAN	17.0	307	P	11 48 24.0	0.8		
TIY	17.0	323	e(P)	11 48 27.8	4.4		
			LN	Ms = 4.0		15.0	0.44
BJI	17.2	336	P	11 48 26.0	0.8		
SNY	17.2	356	eP	11 48 28.2	2.0		
CN2	19.2	1	eP	11 48 48.6	−1.0		
CD2	20.0	293	eP	11 48 56.0	−2.3		
LZH	21.6	307	eP	11 49 16.5	0.9		

1986 7 5
O = 14 11 17.6 ± 0.11s
LAT = 12.18 N ± 1.66km
LONG = 141.07 E ± 1.68km
DEPTH = 35 km ± 0.14km
STATIONS USED = 78, STAND DEV = 1.32s
Ms = 5.0 / 25, m_B = 5.5 / 12

QZH	24.8	304	eP	14 16 40.0	2.4		
			PMZ	m_B = 5.3		6.0	0.72
			S	14 20 57.0	2.8		
			SME	m_B = 5.6		7.0	1.11
			LN	Ms = 4.9		18.0	2.42
SSE	26.3	319	+P	14 16 53.0	0.9		
			PMZ			1.0	0.020
			PcP	14 20 17.0	−0.7		
			S	14 21 22.0	2.3		
			SMN			18.0	3.82
			SME			18.0	3.15
			sS	14 21 38.0	1.8		
			SS	14 22 36.0	6.7		
			ScP	14 23 52.0	−1.3		
			PcS	14 23 58.0	0.6		
			LN	Ms = 4.9		10.0	1.11
NJ2	28.4	318	eP	14 17 10.8	−0.7		
			S	14 21 57.0	2.7		
			LN	Ms = 5.1		12.0	2.00
GZH	28.5	296	P	14 17 10.5	−1.7		
			S	14 22 04.0	8.5		
			LN	Ms = 5.0		12.0	1.37
			LE			12.0	0.89
WHN	30.7	311	eP	14 17 31.5	−0.6		
			eS	14 22 36.0	4.3		

			LE		Ms=5.1		8.0	0.99
DL2	31.7	330	+eP	14	17 42.0	1.2		
			ePP	14	18 52.0	6.2		
			eS	14	22 51.0	3.8		
			LN		Ms=5.0		13.0	0.77
			LE				12.0	1.02
TIA	32.2	322	eP	14	17 44.1	−1.1		
			eS	14	22 47.0	−7.9		
			SME				15.0	1.40
			LN		Ms=5.0		13.0	0.42
			LE				11.0	1.20
SNY	33.3	336	eP	14	17 53.6	−0.5		
			S	14	23 11.9	1.8		
			SMN		m_B=5.4		9.0	0.73
			sS	14	23 32.1	5.1		
			LN		Ms=5.0		13.0	0.66
			LE				12.0	0.96
MDJ	33.8	345	−P	14	17 57.0	−1.7		
			PP	14	19 09.0	−2.7		
			PcP	14	20 32.0	−5.0		
			S	14	23 19.0	0.6		
			SS	14	25 25.0	−0.3		
CN2	34.3	340	+P	14	18 02.0	−0.8		
			PMZ		m_B=5.5		5.0	0.40
			PP	14	19 22.5	4.8		
			PPMZ				5.0	0.40
			cS	14	23 27.0	0.3		
			LE		Ms=5.0		14.0	1.40
GYA	35.3	299	P	14	18 12.6	0.7		
			S	14	23 45.0	3.1		
			LN		Ms=5.2		14.0	1.80
BJI	35.4	326	eP	14	18 12.0	−0.4		
			PMZ		m_B=5.5		7.0	0.53
			eS	14	23 43.0	−1.1		
			SMN		m_B=5.5		12.0	1.01
			SME				10.0	0.54
			LN		Ms=4.9		18.0	1.23
TIY	36.1	320	P	14	18 18.5	0.2		
			PMZ				1.1	0.30
			PP	14	19 47.5	7.2		
			S	14	23 58.0	4.3		
			SMN		m_B=5.6		11.0	0.94
			SME				13.0	0.97
			LN		Ms=5.0		14.0	1.02
			LE				12.0	0.61
XAN	36.5	312	P	14	18 20.8	−0.8		
			S	14	24 02.0	2.3		
			ScP	14	24 25.0	−2.2		
			LN		Ms=5.0		12.0	0.71
			LE				12.0	0.76
KM1	38.4	295	+P	14	18 38.0	0.0		
			S	14	24 34.0	4.9		
			LE		Ms=5.2		16.0	1.80
HHC	38.5	323	+P	14	18 40.2	1.1		
			S	14	24 40.0	8.5		
CD2	39.1	304	eP	14	18 44.2	0.2		
			S	14	24 44.0	3.4		
			LN		Ms=5.3		11.0	1.63
BTO	39.3	322	P	14	18 45.0	−0.5		
			cPP	14	20 18.0	−1.8		
			cS	14	24 45.0	0.7		
			LN		Ms=4.9		13.0	0.60
			LE				12.0	0.40
LZH	41.1	312	eP	14	19 00.5	0.1		
			PP	14	20 40.0	1.7		
			eS	14	25 10.0	−1.1		
			SME				13.0	1.43
			LN		Ms=5.0		16.0	0.96
GTA	45.4	314	−P	14	19 34.9	−0.5		
			PP	14	21 27.0	5.3		
			cS	14	26 16.5	2.6		
			SME				19.0	1.49
			LN		Ms=4.9		11.0	0.48
LSA	49.4	299	−iP	14	20 06.0	−0.7		
			S	14	27 05.0	−3.6		
			SME		m_B=5.3		8.0	0.30
WMQ	55.5	315	P	14	20 51.8	0.0		
			S	14	28 37.0	5.3		
KSH	63.2	308	eP	14	21 45.6	0.5		
			cS	14	30 15.6	2.9		

1986 7 5

O=19 57 36.9 ± 0.21s
LAT=60.78 S ± 1.71km
LONG=153.98 E ± 2.57km
DEPTH= 5 km ± 0.97km
STATIONS USED = 19, STAND DEV= 1.72s
Ms=5.8/ 6,

GZH	89.8	323	eP	20	10 40.0	1.1		
			LE		Ms=6.0		17.0	2.85
GYA	95.0	319	P	20	11 04.4	1.3		
KMI	95.1	315	eP	20	11 06.0	2.4		
			S	20	22 20.0	5.3		
			LE		Ms=5.7		20.0	1.73
SSE	95.4	332	eP	20	11 00.0	−4.6		
			cPP	20	14 52.0	−4.0		
			SKS	20	21 40.0	1.4		
			S	20	22 16.0	−0.9		
			SS	20	28 40.0	−8.0		
			LN		Ms=5.8		20.0	2.10

NJ2	96.9	331	cP	20 11 09.0	−2.2		
			eS	20 22 27.0	−4.1		
			LN	Ms=5.9		19.0	2.60
CD2	100.1	318	(P)	20 11 28.0	1.9		
XAN	101.4	323	eP	20 11 31.6	−0.3		

1986 7 5

O=21 19 57.8 ± 0.15s
LAT=57.37 S ± 4.33km
LONG= 25.76 W ± 5.57km
DEPTH= 31 km ± 0.66km
STATIONS USED = 30, STAND DEV= 3.08s

LSA	128.9	95	PKP	21 39 03.8	−0.4
GYA	134.4	112	ePKP	21 39 17.4	3.0
WMQ	137.4	79	PKP	21 39 12.6	−7.2
GTA	140.9	93	ePKP	21 39 18.3	−7.8
XAN	141.7	108	−PKP	21 39 22.2	−5.3
NJ2	145.0	121	−PKP	21 39 33.4	0.3
SSE	145.2	125	ePKP	21 39 32.0	−1.5
BTO	147.2	101	PKP	21 39 39.0	2.0
TIA	147.5	115	ePKP	21 39 39.3	1.9
SNY	155.1	115	ePKP	21 39 50.7	2.2
CN2	157.4	115	PKP	21 39 51.0	−0.8

1986 7 5

O=22 09 36.9 ± 0.29s
LAT=15.61 N ± 5.01km
LONG= 92.43 W ± 4.18km
DEPTH=100 km ± 2.53km
STATIONS USED = 60, STAND DEV= 2.02s

CN2	111.5	331	PKP	22 28 00.4	0.2		
SNY	113.9	331	ePKP	22 28 06.1	1.2		
BJI	118.6	335	ePKP	22 28 13.5	−0.5		
			ePP	22 29 30.0	−6.5		
			eSS	22 45 48.0	6.5		
HHC	119.6	339	PKP	22 28 18.0	1.9		
BTO	120.3	340	ePKP	22 28 18.0	0.5		
WMQ	120.9	360	PKP	22 28 19.3	0.7		
			SKKS	22 36 36.5			
			LN			20.0	2.08
TIA	121.4	332	ePKP	22 28 19.8	0.3		
SSE	123.4	325	ePKP	22 28 24.0	0.6		
			LN			24.0	0.96
NJ2	123.9	328	−PKP	22 28 25.0	0.6		
GTA	124.1	349	PKP	22 28 24.6	−0.3		
			PP	22 30 06.6	−7.4		
			SKS	22 35 20.0	−3.7		
			LN			17.0	1.34
KSH	124.2	11	PKP	22 28 27.3	2.2		
			ePP	22 30 20.7	6.2		
LZH	126.3	344	−iPKP	22 28 30.5	1.3		
XAN	126.6	338	PKP	22 28 29.0	−0.6		
			PP	22 30 36.0	6.1		
WHN	127.4	331	ePKP	22 28 31.5	0.5		
			SS	22 47 40.0	6.4		
CD2	131.2	341	ePKP	22 28 41.1	2.6		
GZH	134.0	326	ePKP	22 28 45.6	1.9		
GYA	134.3	336	PKP	22 28 45.0	0.7		
			PP	22 31 20.0	0.0		
LSA	134.8	356	ePKP	22 28 32.4	−11.6		
KMI	136.9	340	ePKP	22 28 45.5	−3.8		

1986 7 6

O=11 38 37.7 ± 0.19s
LAT= 3.51 S ± 1.84km
LONG=144.20 E ± 3.23km
DEPTH= 35 km ± 0.82km
STATIONS USED = 16, STAND DEV= 2.52s

SNY	48.9	340	eP	11 47 20.0	−2.5
XAN	50.0	321	P	11 47 30.2	−1.1
BJI	50.4	332	eP	11 47 34.0	−0.2
GTA	59.1	321	eP	11 48 37.0	−0.5
WMQ	69.1	320	eP	11 49 43.5	0.4

1986 7 6

O=11 49 43.6 ± 0.72s
LAT=25.98 N ± 2.84km
LONG= 96.57 E ± 6.98km
DEPTH= 17 km ± 0.50km
STATIONS USED = 6, STAND DEV= 4.64s
M_L=3.8 / 3,

CD2	8.0	51	Pg	11 52 16.3	11.3

1986 7 6

O=14 16 22.5 ± 0.28s
LAT=26.88 N ± 5.84km
LONG=126.21 E ± 5.09km
DEPTH= 38 km ± 4.09km
STATIONS USED = 16, STAND DEV= 4.59s
Ms=4.0 / 2,

SSE	6.1	315	eP	14 17 52.0	−0.4		
			eLG_1	14 19 40.0	6.5		
			LN			1.0	0.040
			LE			1.0	0.070
			LZ	Ms=4.0		10.0	1.48
NJ2	8.2	311	eP	14 18 27.0	4.7		
			S	14 19 55.0	0.6		
			LE	Ms=4.0		4.0	0.40
BJI	15.5	330	(P)	14 20 07.0	6.2		
TIY	15.9	316	eP	14 20 12.0	7.0		

XAN	16.5	300	eP	14 20 13.0	−0.2	
CN2	16.9	358	eP	14 20 14.0	−3.9	
GTA	25.3	306	eP	14 21 48.0	0.5	

1986 7 6
O = 17 31 30.4 ± 0.12s
LAT = 31.87 N ± 1.85km
LONG = 86.69 E ± 1.23km
DEPTH = 12 km ± 0.43km
STATIONS USED = 10, STAND DEV = 3.96s
M_L = 4.5 / 1,

LSA	4.4	118	Pn	17 32 41.8	3.7	
			Sg	17 33 49.0	0.5	
			SME	M_L = 4.5	0.4	0.75
GYA	18.3	102	eP	17 35 46.8	1.0	
XAN	18.8	77	eP	17 35 52.5	0.3	
BJI	25.1	63	P	17 36 55.0	−2.3	

1986 7 6
O = 19 24 22.3 ± 0.10s
LAT = 34.42 N ± 1.30km
LONG = 80.22 E ± 1.32km
DEPTH = 9 km ± 0.12km
STATIONS USED = 90, STAND DEV = 1.39s
Ms = 6.1 / 44, M_L = 5.5 / 2, m_B = 6.0 / 27

KSH	6.1	327	+iPn	19 25 58.5	5.7	
			LE	Ms = 6.0	4.0	62.3
LSA	10.4	114	P	19 26 56.5	1.1	
			S	19 28 55.0	2.6	
			LN		0.4	0.43
WMQ	11.0	29	P	19 27 02.0	−1.8	
			PMZ	m_B = 6.5	4.0	5.87
			pP	19 27 09.0	0.7	
			S	19 28 59.0	−9.0	
			LG_2	19 30 34.0	7.7	
			LE	Ms = 6.1	12.0	87.2
GTA	16.4	67	P	19 28 13.1	−2.2	
			PMZ	m_B = 5.8	5.0	2.27
			iS	19 31 17.0	−0.8	
			LN	Ms = 6.4	13.0	91.0
LZH	19.4	78	+P	19 28 50.0	−1.4	
			PMZ	m_B = 6.5	4.0	8.90
			S	19 32 21.0	−2.3	
			SMN	m_B = 6.2	7.0	9.28
			LN	Ms = 6.1	10.0	28.7
CD2	20.1	93	cP	19 28 58.9	−0.8	
			pP	19 29 03.0	−1.5	
			S	19 32 40.0	0.2	
			LN	Ms = 6.5	10.5	36.2
			LE		10.5	54.9
KMI	21.6	109	+P	19 29 14.0	−1.1	
			PMZ	m_B = 5.8	5.0	2.25
			PP	19 29 37.0	−1.6	
			S	19 33 05.0	−3.7	
			sS	19 33 16.0	−1.5	
			LN	Ms = 6.0	10.0	21.6
XAN	23.7	83	P	19 29 35.9	0.1	
			PMZ	m_B = 6.3	4.0	4.90
			S	19 33 56.0	9.2	
			SMN	m_B = 6.1	10.0	3.88
			SME		12.0	6.31
			ScP	19 36 58.0	0.0	
			LN	Ms = 6.2	12.0	7.50
			LE		10.0	28.6
GYA	24.1	102	+P	19 29 40.2	0.6	
			PMZ	m_B = 6.4	4.0	5.30
			sP	19 29 49.0	1.5	
			PP	19 30 16.0	2.8	
			S	19 34 00.0	6.5	
			ScP	19 36 52.0	−7.0	
			LN	Ms = 6.1	12.0	19.1
			LE		12.0	14.2
BTO	24.4	67	−iP	19 29 43.0	0.8	
			PMZ	m_B = 6.4	4.0	5.30
			csP	19 29 50.0	−0.1	
			PP	19 30 19.0	2.3	
			PPMZ		6.0	2.10
			S	19 33 58.0	−0.1	
			sS	19 34 05.0	−2.2	
			LN	Ms = 6.1	10.0	11.1
			LE		12.0	17.6
TIY	26.2	73	+iP	19 29 59.5	0.1	
			PMZ	m_B = 6.0	5.0	1.84
			PP	19 30 45.0	4.6	
			PcP	19 33 17.0	−9.4	
			S	19 34 37.0	8.5	
			SME	m_B = 5.7	7.5	1.76
			LN	Ms = 6.6	15.0	91.0
WHN	29.0	88	eP	19 30 25.0	0.3	
			PMZ		1.7	0.080
			eS	19 35 11.0	−3.5	
			sS	19 35 20.0	−3.3	
			ScP	19 37 13.5	0.0	
			LN	Ms = 6.3	10.0	19.6
			LE		10.0	11.7
BJI	29.0	68	eP	19 30 26.0	0.7	
			PMZ	m_B = 5.9	4.5	1.10
			ePP	19 31 21.0	2.5	
			PcP	19 33 35.0	1.7	
			eScP	19 37 14.0	0.3	

			eS	19 35 15.0	−0.7			
			SME	m_B = 5.5		8.0	0.87	
			eSS	19 36 50.0	6.7			
			eScS	19 41 08.0	1.8			
			LN	Ms = 6.2		17.0	32.0	
TIA	30.1	76	eP	19 30 34.8	0.3			
			PMZ	m_B = 6.1		4.0	1.37	
			ScP	19 37 16.5	−0.4			
			S	19 35 35.5	4.5			
			SME	m_B = 5.7		9.0	1.33	
			LN	Ms = 6.3		12.5	19.4	
			LE			13.0	16.7	
GZH	31.0	103	+P	19 30 43.3	0.3			
			PMZ	m_B = 6.0		4.0	1.05	
			iS	19 35 50.0	2.9			
			LN	Ms = 6.2		13.0	10.8	
			LE			11.0	16.1	
NJ2	32.3	83	+P	19 30 54.0	0.0			
			PMZ	m_B = 6.2		5.0	1.80	
			PcP	19 33 46.5	4.8			
			S	19 36 02.0	−3.8			
			sS	19 36 10.0	−5.4			
			ScP	19 37 25.5	1.2			
			LN	Ms = 6.4		12.0	32.2	
DL2	33.3	70	+P	19 31 03.0	0.0			
			PP	19 32 15.0	1.1			
			ScP	19 37 28.0	0.0			
			cS	19 36 23.0	0.2			
			LN	Ms = 6.2		14.0	20.7	
			LE			14.0	7.28	
SSE	34.4	84	+iP	19 31 14.0	1.2			
			PMZ			1.5	0.26	
			pP	19 31 18.5	0.4			
			sP	19 31 22.0	1.1			
			PP	19 32 27.0	−0.8			
			S	19 36 40.0	0.4			
			SME	m_B = 5.8		8.0	1.40	
			sS	19 36 56.0	6.8			
			ScP	19 37 32.0	0.1			
			PcS	19 37 38.0	5.0			
			SS	19 38 52.0	2.3			
			ScS	19 41 34.0	0.8			
			LN	Ms = 6.1		13.0	13.2	
QZH	34.5	95	+P	19 31 12.5	−0.6			
			PMZ	m_B = 6.0		5.0	1.35	
			S	19 36 40.0	−0.1			
			SS	19 38 56.0	5.6			
			LN	Ms = 6.1		11.0	8.90	
			LE			11.0	6.93	
SNY	34.6	65	+P	19 31 13.6	−0.6			
			PMZ	m_B = 6.1		5.0	1.52	
			S	19 36 41.0	−1.1			
			ScP	19 37 32.2	−0.3			
			LN	Ms = 6.1		10.0	7.26	
			LE			9.0	6.65	
CN2	35.9	61	+P	19 31 25.0	−0.6			
			PMZ	m_B = 6.0		4.5	1.30	
			pP	19 31 30.0	−0.8			
			cPP	19 32 44.0	−2.4			
			PPMZ			6.0	0.90	
			cS	19 37 02.0	−1.6			
			ScP	19 37 36.8	−0.4			
			LN	Ms = 6.2		12.0	16.3	
MDJ	38.9	60	cP	19 31 50.1	−0.4			
			pP	19 31 55.0	−0.8			
			sP	19 31 57.0	−1.5			
			PP	19 33 23.5	0.5			
			PcP	19 34 01.0	−0.2			
			S	19 37 47.0	−0.8			
			PcS	19 37 50.5	1.1			
			SS	19 40 31.0	0.7			
			ScS	19 41 56.5	−1.4			

1986 7 6

O = 20 21 55.8 ± 0.15s
LAT = 34.54 N ± 1.69km
LONG = 80.04 E ± 2.76km
DEPTH = 35 km ± 0.20km
STATIONS USED = 16, STAND DEV = 3.88s
Ms = 4.6 / 1, M_L = 3.9 / 2,

KSH	5.9	328	cPn	20 23 29.8	8.6	
WMQ	11.0	30	cP	20 24 34.0	−0.3	

1986 7 6

O = 20 39 59.2 ± 0.09s
LAT = 34.48 N ± 1.17km
LONG = 80.09 E ± 1.19km
DEPTH = 33 km ± 0.13km
STATIONS USED = 27, STAND DEV = 2.07s
M_L = 4.5 / 1,

KSH	6.0	328	cPn	20 41 32.0	6.3		
WMQ	11.0	30	P	20 42 36.4	−1.8		
			LG_1	20 45 45.0	−0.9		
			LE			2.0	0.030
KMI	21.7	109	cP	20 44 50.0	0.0		
XAN	23.8	83	cP	20 45 13.0	2.7		
GYA	24.2	102	cP	20 45 17.4	3.1		
BTO	24.4	67	cP	20 45 17.4	0.9		

1986 7 6

O=21 40 11.2 ± 0.14s
LAT= 4.34 S ± 1.51km
LONG=144.05 E ± 1.66km
DEPTH=119 km ± 0.46km
STATIONS USED = 59, STAND DEV= 1.16s

QZH	38.2	321	−P	21 47 22.0	0.7	
GZH	40.5	314	+P	21 47 42.3	1.9	
SSE	41.4	330	−P	21 47 49.0	1.0	
			PMZ		1.0	0.24
			pP	21 48 20.0	5.2	
NJ2	43.4	328	+P	21 48 05.5	1.5	
WHN	44.8	323	+P	21 48 17.0	1.6	
			pP	21 48 48.5	6.1	
GYA	47.4	312	P	21 48 37.0	1.2	
			pP	21 49 08.0	5.1	
			S	21 55 21.0	2.1	
TIA	47.6	330	cP	21 48 36.4	−0.6	
DL2	47.8	336	P	21 48 39.1	0.5	
SNY	49.6	340	+iP	21 48 52.4	−0.2	
KMI	49.7	308	−P	21 48 55.0	1.5	
MDJ	50.4	347	cP	21 48 58.2	−0.9	
XAN	50.6	322	+P	21 48 59.6	−0.5	
			pP	21 49 31.0	3.5	
CN2	50.8	343	cP	21 49 00.6	−1.0	
BJI	51.1	333	cP	21 49 03.0	−0.8	
			cpP	21 49 33.5	2.1	
TIY	51.1	328	P	21 49 04.0	−0.4	
			(S)	21 56 18.5	6.5	
			LE		11.0	0.22
CD2	52.0	315	P	21 49 11.5	0.3	
			pP	21 49 42.3	3.5	
HHC	53.9	330	P	21 49 25.0	−0.1	
BTO	54.5	328	cP	21 49 29.0	−0.6	
LZH	55.1	320	+iP	21 49 34.0	0.4	
			PMZ		1.5	0.12
WMQ	69.6	320	P	21 51 10.0	−0.4	
			pP	21 51 40.0	0.7	

1986 7 6
O=21 45 24.3 ± 0.27s
LAT=34.65 N ± 2.05km
LONG= 80.60 E ± 2.12km
DEPTH= 2 km ± 0.09km
STATIONS USED = 13, STAND DEV= 2.18s
M_L=4.0 / 2,

KSH	6.1	324	cPn	21 46 58.4	3.2	
			Sn	21 48 05.4	−1.8	
LSA	10.2	116	P	21 47 57.0	1.4	
WMQ	10.7	29	P	21 48 02.5	0.8	
GTA	16.1	67	cP	21 49 14.0	0.7	

1986 7 6
O=23 04 56.5 ± 0.18s
LAT=24.83 N ± 2.27km
LONG=122.92 E ± 2.32km
DEPTH= 32 km ± 0.63km
STATIONS USED = 51, STAND DEV= 2.38s
Ms=4.7 / 25, M_L=4.2 / 4,

QZH	3.9	273	cP	23 05 55.0	−1.1		
			cS	23 06 47.0	5.3		
			SMN	M_L=4.2		1.0	0.69
			SME			1.0	0.34
			LN	Ms=4.3		11.0	6.79
SSE	6.4	347	cPn	23 06 29.8	0.5		
			cLG_1	23 08 26.0	7.7		
			LE	Ms=4.5		12.0	4.97
NJ2	8.0	334	cP	23 06 51.0	−2.8		
			cS	23 08 20.0	−4.4		
			LE	Ms=4.6		12.0	4.60
GZH	8.9	261	cP	23 07 07.0	0.8		
			S	23 08 41.5	−5.1		
			LN	Ms=4.9		11.0	7.26
WHN	9.5	309	cP	23 07 11.5	−2.5		
			LG_2	23 10 18.0	8.6		
			LE	Ms=4.8		10.0	5.10
GYA	14.7	280	cP	23 08 26.0	1.1		
			sP	23 08 33.0	−3.5		
			LN	Ms=4.7		12.0	1.80
			LE			12.0	1.50
XAN	15.2	310	P	23 08 30.1	−1.2		
			LG_2	23 13 17.0	−2.5		
			LN	Ms=4.9		10.0	2.59
			LE			10.0	1.27
TIY	15.6	328	P	23 08 42.5	6.1		
			LN	Ms=4.7		14.0	1.39
			LE			14.0	1.69
BJI	16.2	341	(P)	23 08 49.0	5.7		
			LE	Ms=4.6		18.0	2.31
SNY	17.0	2	cP	23 08 45.4	−7.7		
			SS	23 12 16.0	−3.7		
			LE	Ms=4.6		15.0	1.66
CD2	18.0	294	cP	23 09 05.7	−0.2		
			(S)	23 12 28.0	5.2		
			LE	Ms=5.1		9.0	3.10
KMI	18.3	275	cP	23 09 11.0	1.0		
			LN	Ms=5.1		12.0	3.90
BTO	19.1	329	cP	23 09 17.0	−2.3		
			sP	23 09 25.0	−6.2		
			cS	23 12 54.0	6.5		
			LN	Ms=4.8		12.0	1.10

			LE			12.0	1.30
LZH	19.9	309	−iP	23 09 29.0	0.9		
			PMZ			1.5	0.090
			LG_2	23 15 56.0	4.1		
			LN	Ms=4.8		9.0	1.24
MDJ	20.5	14	eP	23 09 34.9	0.5		
GTA	24.3	312	P	23 10 13.2	0.8		
			LN	Ms=4.9		12.0	1.68
LSA	28.6	287	P	23 10 52.4	−0.3		
WMQ	34.4	312	eP	23 11 43.1	0.1		

1986 7 7
O=05 11 07.6 ± 0.12s
LAT=19.18 N ± 3.09km
LONG=121.00 E ± 2.49km
DEPTH= 29 km ± 1.52km
STATIONS USED = 37, STAND DEV= 2.45s
M_L=3.5/ 2,

GZH	8.1	300	eP	05 13 03.8	−2.9
GYA	15.1	301	P	05 14 40.8	0.2
XAN	18.3	326	eP	05 15 22.5	1.1
CD2	19.5	310	eP	05 15 36.6	1.3
BJI	21.2	350	eP	05 15 53.0	−0.5
LZH	22.6	322	eP	05 16 09.5	1.6
SNY	22.7	5	+P	05 16 08.4	0.1
LSA	29.0	297	eP	05 17 09.0	0.7

1986 7 7
O=09 31 40.2 ± 0.24s
LAT=51.25 N ± 1.98km
LONG=176.09 W ± 1.32km
DEPTH= 45 km ± 1.81km
STATIONS USED = 32, STAND DEV= 1.74s

SNY	41.5	281	−P	09 39 25.5	0.7
DL2	44.4	279	eP	09 39 48.4	−0.2
BJI	47.1	284	eP	09 40 07.0	−2.8
TIA	48.9	279	eP	09 40 23.5	−0.4
NJ2	50.5	274	−P	09 40 36.5	0.0
WHN	54.4	276	eP	09 41 05.0	−0.2
XAN	55.4	283	eP	09 41 05.0	−7.5
CD2	60.7	284	(P)	09 41 49.6	−0.2
GYA	62.0	278	+P	09 41 58.2	−0.8
KMI	65.4	280	−P	09 42 21.5	0.1

1986 7 7
O=10 35 03.6 ± 0.07s
LAT= 5.69 S ± 1.07km
LONG=130.86 E ± 1.99km
DEPTH= 82 km ± 0.15km
STATIONS USED = 24, STAND DEV= 1.26s

GYA	39.6	325	P	10 42 30.0	0.6
XAN	44.6	334	P	10 43 09.7	−0.5
BJI	47.5	345	eP	10 43 33.0	0.4
MDJ	50.1	359	eP	10 43 53.5	0.7
WMQ	62.8	326	P	10 45 23.4	0.0
KSH	67.6	317	eP	10 45 50.0	−4.5

1986 7 7
O=13 27 32.4 ± 0.04s
LAT=29.89 N ± 0.46km
LONG=139.11 E ± 0.72km
DEPTH=414 km ± 0.31km
STATIONS USED = 25, STAND DEV= 0.49s

MDJ	16.5	335	eP	13 31 02.5	0.4
DL2	17.0	307	eP	13 31 06.8	0.1
SNY	17.3	318	−iP	13 31 10.4	0.4
CN2	17.6	326	+P	13 31 14.0	0.6
TIA	19.5	295	eP	13 31 31.6	0.2
BJI	21.3	305	eP	13 31 48.5	−0.5
XAN	25.9	287	P	13 32 30.6	−0.5
GTA	33.5	297	−iP	13 33 36.8	−0.2
WMQ	42.8	304	P	13 34 54.0	0.6

1986 7 7
O=14 17 25.2 ± 0.07s
LAT=34.84 N ± 1.43km
LONG= 33.74 E ± 1.00km
DEPTH= 51 km ± 0.09km
STATIONS USED = 19, STAND DEV= 1.11s

WMQ	42.0	61	eP	14 25 14.5	0.5
GTA	51.8	64	eP	14 26 30.9	−0.1
XAN	60.6	67	eP	14 27 32.6	−0.8
BJI	63.4	58	(P)	14 27 52.0	−0.5

1986 7 7
O=16 26 55.5 ± 0.11s
LAT=10.34 N ± 2.46km
LONG= 56.82 E ± 1.61km
DEPTH= 7 km ± 0.11km
STATIONS USED = 92, STAND DEV= 1.08s
Ms=6.1/47, m_B=6.5/43

KSH	33.6	27	+iP	16 33 41.5	1.9		
			iS	16 39 07.5	5.5		
			LE	Ms=5.4		13.0	2.70
LSA	37.4	54	+iP	16 34 11.5	0.0		
			sP	16 34 20.0	1.3		
			LN	Ms=6.3		13.0	10.2
			LE			11.0	14.0
WMQ	42.7	33	+iP	16 34 57.2	1.4		
			PMZ	m_B=6.6		5.0	5.65

			PP	16 36 38.8	1.8		
			S	16 41 18.6	−0.2		
			SMN	m_B = 6.0		8.0	2.16
			SS	16 44 28.0	4.7		
			LN	Ms = 6.4		13.0	14.3
			LE			12.0	16.2
KMI	45.9	65	+iP	16 35 22.0	0.6		
			PMZ			3.0	4.00
			pP	16 35 29.0	2.9		
			PcP	16 36 57.0	−0.9		
			PcS	16 40 47.0	−3.9		
			iS	16 42 08.0	2.1		
			SMN	m_B = 6.6		6.0	4.40
			SME			6.0	2.70
			SS	16 45 16.0	−5.1		
			LN	Ms = 6.0		14.0	7.20
GTA	47.9	45	+iP	16 35 37.0	−0.1		
			PMZ	m_B = 6.2		4.0	1.64
			PP	16 37 28.0	0.6		
			S	16 42 37.0	4.1		
			SMN	m_B = 6.1		9.0	2.62
			SS	16 46 02.0	6.0		
			LN	Ms = 6.0		12.5	6.94
CD2	48.0	58	P	16 35 36.8	−1.2		
			pP	16 35 44.0	1.1		
			PP	16 37 32.0	3.3		
			S	16 42 37.0	2.3		
			cScS	16 45 30.0	1.9		
			LN	Ms = 6.1		12.0	7.70
LZH	49.6	51	+iP	16 35 50.5	0.2		
			PMZ			2.5	1.44
			PP	16 37 40.0	−4.5		
			PcS	16 41 10.0	3.6		
			S	16 42 58.0	1.2		
			SMN	m_B = 6.5		8.0	4.76
			ScS	16 45 40.0	1.4		
			LN	Ms = 6.1		13.0	8.76
GYA	49.6	64	+P	16 35 51.0	0.7		
			PMZ	m_B = 6.9		4.0	6.80
			sP	16 35 58.0	0.2		
			PcP	16 37 15.0	3.8		
			PP	16 37 51.0	6.4		
			PcS	16 41 08.0	1.5		
			S	16 42 57.0	0.1		
			SMN	m_B = 6.7		7.0	6.80
			sS	16 43 10.0	3.6		
			ScS	16 45 46.0	7.4		
			LN	Ms = 6.1		15.0	7.90
			LE			15.0	4.40
XAN	53.0	55	P	16 36 14.5	−1.6		
			PMZ	m_B = 6.7		4.0	4.36
			sP	16 36 21.0	−2.7		
			cPP	16 38 12.0	−4.6		
			S	16 43 42.0	−1.9		
			SMN	m_B = 6.3		10.0	3.92
			SME			14.0	3.04
			ScS	16 46 00.0	−2.0		
			LN	Ms = 6.1		14.0	5.44
			LE			14.0	4.19
GZH	55.3	69	+iP	16 36 32.0	−0.6		
			iS	16 44 13.8	−1.6		
			SMN	m_B = 6.4		8.0	3.67
			SME			8.0	2.10
			SS	16 48 02.0	3.7		
			LN	Ms = 6.1		13.0	5.66
			LE			8.0	0.95
BTO	55.6	48	−iP	16 36 35.0	−0.2		
			PMZ	m_B = 6.6		4.0	3.40
			sP	16 36 43.0	0.3		
			PP	16 38 41.0	1.0		
			S	16 44 18.0	−0.9		
			SMN	m_B = 6.3		8.0	2.70
			SME			8.0	1.30
			sS	16 44 25.0	−3.4		
			LN	Ms = 6.4		16.0	10.4
			LE			18.0	12.0
TIY	56.7	52	+iP	16 36 42.0	−0.6		
			PMZ			1.4	1.03
			PcP	16 37 29.5	−8.3		
			PP	16 38 55.0	5.6		
			S	16 44 34.0	1.3		
			SMN	m_B = 6.5		8.0	4.35
			SME			5.0	1.86
			SS	16 48 28.5	7.3		
			LN	Ms = 6.2		14.0	4.63
			LE			19.0	11.1
HHC	56.8	48	+iP	16 36 44.0	0.2		
			SMN	m_B = 6.3		9.0	1.85
			SME			10.0	3.54
			LN	Ms = 6.4		15.0	8.89
			LE			15.0	12.2
WHN	56.9	60	+P	16 36 43.5	−0.7		
			PMZ			1.5	0.21
			sP	16 36 54.0	2.1		
			S	16 44 35.0	−0.8		
			SMN	m_B = 6.3		10.0	3.88
			ScS	16 46 32.0	2.4		
			LN	Ms = 6.0		13.0	5.23
BJI	60.0	50	eP	16 37 05.0	−1.1		
			PMZ	m_B = 6.6		4.0	3.32

			cPP	16 39 18.5	−1.2		
			eS	16 45 20.0	2.1		
			SMN	m_B = 6.2		10.0	3.13
			eSS	16 49 20.0	5.7		
			LN	Ms = 6.1		12.0	5.53
TIA	60.1	54	eP	16 37 04.8	−1.4		
			PMZ	m_B = 6.5		4.0	2.87
			S	16 45 15.5	−1.4		
			SMN	m_B = 6.2		10.0	1.45
			SME			13.0	3.12
			SS	16 49 18.0	3.5		
			LN	Ms = 6.1		14.0	2.72
			LE			13.0	5.40
QZH	60.2	67	+P	16 37 06.0	−1.0		
			PMZ	m_B = 6.5		4.0	2.70
			PP	16 39 24.0	3.1		
			iS	16 45 20.0	0.4		
			SMN	m_B = 6.3		7.0	2.30
			LN	Ms = 5.8		14.0	3.11
NJ2	60.9	59	+iP	16 37 12.0	0.0		
			PMZ	m_B = 6.7		4.0	4.50
			S	16 45 30.0	2.1		
			SME	m_B = 6.2		7.0	1.90
			LN	Ms = 6.2		14.0	8.30
SSE	62.8	60	+iP	16 37 24.0	−0.8		
			sP	16 37 31.0	−1.4		
			S	16 45 52.0	0.1		
			SMN	m_B = 6.2		8.0	2.12
			sS	16 46 02.0	0.5		
			cScS	16 47 12.0	−1.2		
			LN	Ms = 5.8		10.0	2.00
			LE			10.0	0.98
DL2	64.0	52	+iP	16 37 32.0	−0.6		
			sP	16 37 40.0	−0.3		
			iS	16 46 08.0	0.0		
			LN	Ms = 6.1		14.0	4.50
			LE			14.0	3.19
SNY	65.9	49	+iP	16 37 44.0	−0.7		
			PMZ	m_B = 6.7		4.0	3.55
			sP	16 37 50.0	−2.4		
			PP	16 40 11.5	0.3		
			S	16 46 29.0	−0.8		
			SMN			16.0	4.94
			SME			18.0	2.34
			ScS	16 47 37.5	0.9		
			SS	16 50 37.0	−8.7		
			LN	Ms = 6.3		20.0	7.41
			LE			18.0	8.26
CN2	67.5	47	+iP	16 37 55.0	−0.1		
			PMZ	m_B = 6.9		4.0	5.20
			sP	16 38 02.0	−0.7		
			S	16 46 51.5	2.1		
			SMN	m_B = 6.8		7.0	6.10
			SS	16 51 17.0	6.0		
			LN	Ms = 6.1		13.0	4.50
MDJ	70.6	46	+P	16 38 12.9	−1.1		
			pP	16 38 18.0	−0.9		
			PcP	16 38 32.8	−1.6		
			PP	16 40 51.0	−0.4		
			S	16 47 25.0	−0.5		
			ScS	16 48 13.0	0.0		
			SS	16 51 58.0	−0.6		

1986 7 7
O = 16 33 06.8 ± 0.08s
LAT = 17.34 S ± 1.40km
LONG = 167.63 E ± 1.03km
DEPTH = 29 km ± 0.29km
STATIONS USED = 7, STAND DEV = 2.23s

CN2	72.0	329	cP	16 44 33.0	2.2		
BJI	74.5	321	cP	16 44 43.5	−1.8		
LZH	80.3	313	cP	16 45 17.5	−0.4		

1986 7 7
O = 18 30 02.0
LAT = 27.30 N
LONG = 126.70 E
DEPTH = 8 km
STATIONS USED = 8, STAND DEV = 3.52s
M_L = 3.7 / 4,

SSE	6.1	309	Pn	18 31 37.5	4.3		
			LG_1	18 33 06.0	−8.4		
			LN			1.5	0.063
			LE			1.5	0.071
GTA	25.4	305	cP	18 35 33.2	1.1		

1986 7 7
O = 19 08 36.1 ± 0.08s
LAT = 4.82 S ± 0.96km
LONG = 153.33 E ± 1.88km
DEPTH = 67 km ± 0.74km
STATIONS USED = 38, STAND DEV = 1.05s

CN2	54.5	335	cP	19 17 58.5	−1.5		
GYA	54.8	307	P	19 18 03.0	0.7		
XAN	57.0	316	cP	19 18 17.6	−0.3		
KMI	57.4	304	cP	19 18 22.0	0.9		
CD2	59.2	310	cP	19 18 33.7	0.8		
LZH	61.6	316	+P	19 18 51.3	1.5		
			PMZ			1.5	0.070
GTA	66.0	317	+iP	19 19 19.6	0.9		

WMQ	76.1	317	P	19 20 19.7	0.4				
	1986 7 7								
	O=20 54 13.4			± 0.05s					
	LAT= 0.31 S			± 0.49km					
	LONG=127.00 E			± 0.82km					
	DEPTH= 66 km			± 0.40km					
	STATIONS USED = 19, STAND DEV= 0.77s								
XAN	38.1	335	eP	21 01 28.2	−0.3				
TIY	40.2	342	P	21 01 45.8	0.7				
BJI	41.4	347	eP	21 01 55.0	0.1				
SNY	42.1	356	−P	21 02 00.6	−0.1				
GTA	46.7	331	−iP	21 02 38.8	0.6				
WMQ	56.2	327	P	21 03 49.6	0.0				
	1986 7 7								
	O=21 22 23.9			± 0.16s					
	LAT= 5.58 N			± 3.87km					
	LONG= 77.41 W			± 3.67km					
	DEPTH= 11 km			± 1.05km					
	STATIONS USED = 28, STAND DEV= 2.74s								
BJI	132.9	346	PKP	21 41 41.0	0.4				
XAN	140.1	352	cPKP	21 41 48.0	−6.0				
GYA	147.9	353	PKP	21 42 11.0	3.7				
KMI	149.5	360	cPKP	21 42 12.5	2.5				
GZH	149.6	340	cPKP	21 42 15.7	5.7				
	1986 7 8								
	O=04 27 34.6			± 0.08s					
	LAT= 2.00 N			± 1.53km					
	LONG=124.35 E			± 1.83km					
	DEPTH=243 km			± 0.21km					
	STATIONS USED = 82, STAND DEV= 1.06s								
				m_B=5.7 / 32					
QZH	23.5	347	+P	04 32 24.0	−0.1				
			PMZ	m_B=5.7		4.0	0.90		
			pP	04 33 08.0	5.9				
			sP	04 33 34.5	−3.3				
			iS	04 36 18.0	0.8				
			SMN	m_B=6.0		6.0	5.90		
			SME			6.0	2.90		
GZH	23.5	334	−P	04 32 26.0	1.5				
			iS	04 36 18.5	0.4				
			SMN	m_B=5.6		7.0	2.10		
			SME			6.0	2.20		
			LN			14.0	1.91		
			LE			12.0	1.07		
GYA	29.7	327	P	04 33 20.8	0.4				
			pP	04 34 10.0	1.9				
			PcP	04 36 17.6	−0.2				
			S	04 37 58.0	1.7				
			ScP	04 39 34.4	−0.6				
			ScS	04 43 28.4	−0.8				
WHN	29.9	343	eP	04 33 23.0	0.4				
			sP	04 34 43.0	4.5				
			PcP	04 36 18.0	−0.5				
			S	04 38 02.0	1.5				
			SMN	m_B=5.6		6.0	2.15		
			ScP	04 39 34.5	−1.4				
NJ2	30.3	351	−iP	04 33 27.0	0.9				
			pP	04 34 14.0	−0.2				
			iS	04 38 06.0	−1.7				
			SMN	m_B=5.9		4.5	3.50		
			ScP	04 39 36.5	−0.7				
			SS	04 40 11.0	1.9				
KMI	31.0	320	−P	04 33 33.0	0.6				
			PMZ	m_B=5.6		4.0	0.70		
			pP	04 34 26.0	5.6				
			sP	04 34 53.0	4.7				
			iS	04 38 20.0	1.0				
			SME	m_B=5.6		6.0	2.20		
TIA	34.7	350	eP	04 34 03.6	0.0				
			sP	04 35 18.5	−1.8				
			PcP	04 36 31.0	−0.6				
			S	04 39 10.5	−3.8				
			SMN	m_B=5.6		9.5	1.13		
			SME			7.0	1.92		
			sS	04 40 42.0	0.5				
			LN			10.5	0.34		
			LE			10.5	1.42		
CD2	34.7	328	eP	04 34 04.7	0.7				
			sP	04 35 26.0	5.4				
			SME	m_B=5.7		7.0	2.47		
			S	04 39 12.0	−2.9				
			LE			10.0	2.53		
XAN	35.0	337	+P	04 34 05.6	−0.5				
			PMZ			1.0	0.30		
			pP	04 35 02.0	6.8				
			sP	04 35 32.0	9.2				
			PcP	04 36 31.7	−0.7				
			iS	04 39 15.0	−4.8				
			SMN	m_B=5.9		4.0	1.82		
			SME			5.0	2.07		
			ScP	04 39 50.0	−3.2				
			PcS	04 40 16.0	−1.7				
			SS	04 41 58.0	8.5				
			ScS	04 43 54.0	−2.4				
DL2	36.8	356	P	04 34 22.0	0.6				
			sP	04 35 40.0	1.6				
			S	04 39 46.0	−0.7				

			SMN	$m_B = 5.8$		4.0	0.68
			SME			4.0	1.09
TIY	37.2	344	+iP	04 34 24.2	−0.5		
			PMZ			0.8	0.17
			pP	04 35 15.5	1.3		
			PP	04 35 57.0	0.6		
			S	04 39 48.5	−3.8		
			SMN	$m_B = 5.6$		7.5	1.30
			SME			5.0	0.65
			PcS	04 40 28.0	2.2		
			LN			11.0	0.88
			LE			10.0	0.62
BJI	38.6	350	eP	04 34 35.0	−1.1		
			epP	04 35 30.0	4.0		
			ePP	04 36 14.0	1.8		
			eS	04 40 12.0	−2.2		
			SMN	$m_B = 5.5$		7.0	1.09
			eScS	04 44 15.0	−1.7		
LZH	38.9	333	−iP	04 34 39.9	1.2		
			PMZ			1.0	0.46
			PcP	04 36 45.0	0.8		
			S	04 40 17.0	−0.6		
			ScS	04 44 19.0	0.7		
			LN			12.0	1.39
SNY	39.7	359	+iP	04 34 43.6	−1.3		
			esP	04 35 58.0	−4.3		
			PP	04 36 18.0	−5.8		
			PPMZ			6.0	0.78
			ScP	04 40 10.0	−0.7		
			S	04 40 21.0	−8.2		
			SMN	$m_B = 5.5$		12.0	1.27
			SME			14.0	0.88
			SS	04 43 20.0	−7.9		
			ScS	04 44 23.0	0.1		
			LN			20.0	1.03
			LE			22.0	2.46
BTO	40.5	343	P	04 34 53.0	0.5		
			sP	04 36 15.0	5.2		
			S	04 40 42.0	−0.5		
			sS	04 42 15.0	3.3		
			LN			10.0	0.70
			LE			12.0	0.60
CN2	41.6	1	−P	04 35 00.2	−0.9		
			sP	04 36 23.0	4.3		
			eS	04 40 59.0	−0.3		
			SMN	$m_B = 5.5$		6.0	0.70
			ScS	04 44 36.0	1.3		
LSA	41.9	314	eP	04 35 00.4	−3.1		
			pP	04 35 56.0	2.5		
			sP	04 36 20.0	−0.6		
			ScS	04 44 33.0	−3.1		
			LN			6.0	1.24
			LE			5.0	1.97
MDJ	42.7	6	eP	04 35 09.5	−0.2		
			PMZ			2.5	0.39
			pP	04 36 01.5	1.2		
			PP	04 36 55.5	1.6		
			ScP	04 40 25.5	2.8		
			sS	04 42 48.5	5.0		
GTA	43.4	332	−iP	04 35 15.9	0.1		
			PMZ			1.0	0.43
			pP	04 36 09.6	3.3		
			PcP	04 36 59.5	0.3		
			S	04 41 22.5	−1.8		
			sS	04 42 58.0	3.5		
			ScS	04 44 44.6	−1.2		
			SMN	$m_B = 5.8$		5.0	0.92
			LN			12.5	0.65
WMQ	52.8	327	P	04 36 27.0	−0.7		
			PMZ			1.5	0.45
			PcP	04 37 27.0	−6.1		
			ScP	04 41 05.5	0.3		
			S	04 43 36.8	1.6		
			SMN	$m_B = 5.9$		6.0	1.23
			ScS	04 45 45.0	−3.2		
			LE			8.0	0.42
KSH	57.6	317	−iP	04 37 02.0	0.1		
			iS	04 44 42.0	2.2		
			SMN	$m_B = 6.2$		4.0	1.10
			SME			6.0	2.80

1986 7 8

O = 09 20 43.1 ± 0.09s
LAT = 33.99 N ± 1.51km
LONG = 116.82 W ± 1.93km
DEPTH = 14 km ± 0.62km
STATIONS USED = 46, STAND DEV = 2.15s
Ms = 6.1 / 23, m_B = 6.0 / 10

MDJ	81.3	319	cP	09 32 59.5	−1.7		
			pP	09 33 04.0	−3.2		
			sP	09 33 06.5	−3.6		
			PP	09 36 08.0	0.1		
			S	09 43 09.0	0.3		
			PS	09 44 58.5			
			SS	09 48 21.0	−6.3		
CN2	84.0	320	+P	09 33 14.5	−1.0		
			PMZ	$m_B = 6.1$		6.0	1.10
			sP	09 33 21.0	−3.5		
			PP	09 36 29.0	−1.1		
			PPMZ			7.0	1.00

			eS	09 43 34.0	−4.6		
			SMN	$m_B = 5.9$		9.0	0.60
			SME			9.0	0.70
			LN	Ms = 6.0		15.0	3.10
SNY	86.4	319	+iP	09 33 28.0	0.8		
			PMZ	$m_B = 6.2$		11.0	2.23
			PP	09 36 50.0	0.8		
			PPMZ			11.0	1.30
			S	09 43 53.0	−6.8		
			SMN	$m_B = 6.0$		9.0	0.86
			SME			11.0	1.12
			SS	09 49 51.0	7.9		
			LN	Ms = 6.2		19.0	2.34
			LE			18.0	5.57
DL2	89.5	318	+iP	09 33 42.5	0.4		
			SKS	09 44 10.0	1.3		
			eS	09 44 26.0	−4.7		
			LN	Ms = 6.1		16.0	2.53
			LE			16.0	3.21
BJI	91.6	322	eP	09 33 52.0	0.3		
			PMZ	$m_B = 6.0$		8.0	0.75
			ePP	09 37 30.0	−1.1		
			eSKS	09 44 24.0	3.1		
			eS	09 44 50.0	0.7		
			SMN	$m_B = 5.5$		11.0	0.30
			SME			11.0	0.39
			PS	09 46 02.0			
			eSS	09 50 57.0	−0.3		
			LE	Ms = 6.0		16.0	2.91
HHC	93.2	325	P	09 34 00.0	0.5		
TIA	93.9	319	−P	09 34 03.3	0.8		
			SKS	09 44 29.0	−5.1		
			S	09 45 04.5	−3.5		
			LE	Ms = 6.2		15.5	3.75
BTO	94.1	326	−P	09 34 03.5	−0.2		
			cPP	09 37 52.0	0.2		
			eSKS	09 44 36.0	0.7		
			S	09 45 08.0	−1.9		
			LN	Ms = 6.2		17.0	3.10
			LE			16.0	2.50
TIY	95.2	323	P	09 34 09.5	0.9		
			(S)	09 45 24.0	2.8		
			PS	09 46 51.5			
			LN	Ms = 6.3		16.0	3.90
			LE			16.0	3.49
SSE	95.3	313	+P	09 34 09.0	0.3		
			PMZ			1.5	0.050
			PP	09 37 54.0	−5.8		
			SKS	09 44 42.0	0.6		
			eS	09 45 12.0	−9.2		
			SS	09 51 46.0	−4.1		
			LN	Ms = 6.1		20.0	3.60
			LE			20.0	2.88
NJ2	96.0	315	eP	09 34 12.5	0.6		
			LN	Ms = 6.3		14.0	4.10
WMQ	99.4	342	P	09 34 27.2	−0.4		
			PMZ			2.0	0.050
			PP	09 38 32.0	0.1		
			SKS	09 45 08.0	5.1		
			S	09 46 00.0	5.6		
			SMN	$m_B = 6.1$		8.0	0.79
			LN	Ms = 6.3		20.0	5.91
GTA	99.5	332	eP	09 34 25.0	−3.0		
			PP	09 38 29.0	−3.5		
			PPMZ	$m_B = 6.2$		12.0	1.12
			SKS	09 45 01.0	−2.3		
			(S)	09 46 00.0	2.8		
			SS	09 52 49.0	−0.2		
			LN	Ms = 6.1		16.0	3.45
WHN	99.7	317	eP	09 34 28.0	−0.7		
			SKS	09 45 06.5	2.1		
			eS	09 45 59.0	0.5		
			LE	Ms = 6.2		20.0	4.50
XAN	99.9	323	eP	09 34 20.0	−9.7		
			LE	Ms = 6.2		16.0	4.21
LZH	100.6	328	P	09 34 34.0	0.8		
			LE	Ms = 6.1		24.0	4.67
KMI	110.2	322	eP	09 38 41.0	206.6		

1986 7 8

O = 09 36 46.7 ± 0.11s

LAT = 36.40 N ± 1.15km

LONG = 105.52 E ± 1.04km

DEPTH = 22 km ± 0.22km

STATIONS USED = 28, STAND DEV = 3.13s

M_L = 4.0 / 16,

LZH	1.4	258	Pg	09 37 13.5	1.8		
			Sg	09 37 32.5	1.9		
			SMN	$M_L = 4.1$		0.5	2.31
			SME			0.5	2.89
XAN	3.6	129	Pn	09 37 44.0	1.5		
			Pg	09 37 53.5	2.3		
			Sn	09 38 26.5	−0.2		
			Sg	09 38 37.8	−3.3		
			SMN	$M_L = 3.9$		1.0	0.48
			SME			0.8	0.18
GTA	5.4	305	Pn	09 38 10.4	3.5		
			Pg	09 38 27.9	5.5		
			Sn	09 39 11.4	0.9		
			Sg	09 39 38.0	1.4		

			SMN		$M_L = 3.7$	0.6	0.080
			SME			0.6	0.080
BTO	5.5	39	Pn	09 38 10.2	2.4		
			Pg	09 38 25.1	1.6		
			Sn	09 39 10.0	−2.1		
			Sg	09 39 35.9	−2.6		
			SMN		$M_L = 4.4$	0.8	0.33
			SME			0.8	0.35
CD2	5.7	195	cPn	09 38 14.2	4.0		
			Pg	09 38 34.5	7.7		
			Sg	09 39 52.0	7.7		
			SMN		$M_L = 4.3$	1.2	0.25
			SME			1.1	0.21
TIY	5.7	75	(Pn)	09 38 10.3	−0.2		
			Pg	09 38 29.8	2.7		
			Sn	09 39 15.4	−1.8		
			Sg	09 39 36.4	−8.5		
			SMN		$M_L = 4.3$	0.6	0.31
			SME			0.4	0.21
HHC	6.5	45	Pg	09 38 44.0	2.4		
GYA	10.0	174	cP	09 39 11.8	−0.2		
			S	09 41 00.2	−3.6		
CN2	16.9	58	cP	09 40 44.5	0.4		

1986 7 8
O = 11 17 05.3 ± 0.14s
LAT = 37.90 N ± 1.06km
LONG = 102.09 E ± 1.14km
DEPTH = 19 km ± 0.26km
STATIONS USED = 6, STAND DEV = 4.64s
$M_L = 3.5$ / 3,

LZH	2.3	142	Pg	11 17 43.0	−3.0		
			Sg	11 18 12.0	−5.2		
			SMN		$M_L = 3.6$	1.0	0.43
			SME			1.5	0.42
GTA	2.3	311	Pg	11 17 46.6	−0.2		
			Sg	11 18 19.0	0.4		
			SMN		$M_L = 3.2$	0.6	0.13
			SME			0.6	0.17

1986 7 8
O = 18 20 38.9 ± 0.14s
LAT = 35.17 S ± 2.19km
LONG = 106.05 W ± 3.18km
DEPTH = 1 km ± 0.68km
STATIONS USED = 17, STAND DEV = 2.17s

BJI	146.4	291	cPKP	18 40 18.5	−3.1
GYA	150.7	262	cPKP	18 40 31.6	3.0
XAN	151.3	278	cPKP	18 40 31.5	2.1

1986 7 8
O = 20 34 25.6 ± 0.07s
LAT = 43.80 N ± 1.89km
LONG = 146.47 E ± 1.23km
DEPTH = 82 km ± 0.87km
STATIONS USED = 63, STAND DEV = 1.33s

MDJ	12.1	280	cP	20 37 18.4	1.1		
CN2	15.2	277	−P	20 37 55.6	−1.3		
SNY	16.9	271	−iP	20 38 18.2	−0.4		
DL2	19.3	264	cP	20 38 46.5	0.2		
BJI	22.8	271	cP	20 39 21.0	−1.2		
TIA	23.6	261	cP	20 39 30.2	−0.2		
SSE	23.6	246	−P	20 39 32.7	2.3		
			PMZ			1.0	0.020
NJ2	24.6	251	−P	20 39 40.5	0.5		
HHC	25.9	276	P	20 39 52.2	0.4		
TIY	26.4	268	cP	20 39 57.5	1.1		
BTO	27.1	276	cP	20 40 02.0	−0.8		
WHN	28.6	253	cP	20 40 17.0	0.2		
XAN	30.6	264	P	20 40 32.8	−1.4		
LZH	33.3	271	cP	20 40 57.5	−0.5		
GZH	34.2	244	+P	20 41 06.5	1.1		
CD2	35.9	264	P	20 41 20.1	−0.3		
GYA	36.5	255	P	20 41 24.4	−0.6		
WMQ	41.6	291	P	20 42 07.9	0.1		
LSA	45.7	271	+P	20 42 40.9	−0.2		

1986 7 9
O = 11 23 42.6 ± 0.07s
LAT = 3.88 N ± 0.80km
LONG = 126.35 E ± 1.63km
DEPTH = 80 km ± 0.18km
STATIONS USED = 14, STAND DEV = 0.99s

XAN	34.1	334	P	11 30 20.9	−1.2		
TIY	36.0	341	cP	11 30 37.0	−1.2		
BJI	37.2	347	cP	11 30 47.0	−0.8		
MDJ	40.7	4	cP	11 31 17.3	0.3		

1986 7 9
O = 13 58 57.4 ± 0.15s
LAT = 56.04 S ± 3.66km
LONG = 27.29 W ± 4.80km
DEPTH = 131 km ± 1.10km
STATIONS USED = 18, STAND DEV = 3.12s

XAN	142.9	108	cPKP	14 18 13.5	−3.1
NJ2	146.4	121	+PKP	14 18 24.5	1.9
TIY	147.5	107	cPKP	14 18 27.5	2.9
BTO	148.3	101	cPKP	14 18 29.0	3.2
TIA	148.9	114	cPKP	14 18 30.8	4.1

1986 7 9
O = 14 23 58.1 ± 0.09s
LAT = 42.47 N ± 1.19km
LONG = 105.69 E ± 0.52km
DEPTH = 6 km ± 0.15km
STATIONS USED = 11, STAND DEV = 2.03s
M_L = 3.9 / 9,

BTO	3.7	118	Pn	14 24 56.8	0.0		
			Pg	14 25 04.6	0.4		
			Sn	14 25 36.8	−6.4		
			Sg	14 25 49.6	−5.9		
			SMN	M_L = 3.7		0.5	0.23
			SME			0.5	0.16
HHC	4.7	108	Pn	14 25 09.6	−0.2		
			Pg	14 25 22.6	1.8		
			Sn	14 26 03.0	−3.5		
			Sg	14 26 16.6	−8.4		
			SMN	M_L = 4.1		0.6	0.15
			SME			0.6	0.40
GTA	5.4	237	Pn	14 25 21.0	1.5		
			Pg	14 25 37.6	4.3		
			Sg	14 26 45.6	−1.5		
			SMN	M_L = 3.6		0.6	0.060
			SME			0.8	0.050
BJI	8.3	104	cPg	14 26 27.0	2.9		
			eSg	14 28 10.5	−6.4		
XAN	8.8	162	eP	14 26 10.0	1.1		
			SMN	M_L = 3.8		1.0	0.020

1986 7 9
O = 17 10 20.8 ± 0.04s
LAT = 51.81 N ± 1.01km
LONG = 176.17 W ± 0.66km
DEPTH = 48 km ± 0.08km
STATIONS USED = 79, STAND DEV = 1.33s
Ms = 5.1 / 11, m_B = 5.3 / 5

MDJ	36.1	280	cP	17 17 21.0	0.5		
			pP	17 17 34.0	1.5		
			PP	17 18 44.0	1.3		
			S	17 22 53.0	−1.8		
CN2	39.1	282	+P	17 17 45.6	0.4		
			PMZ			3.0	0.30
			pP	17 18 02.0	4.7		
			cPP	17 19 19.0	0.1		
			cS	17 23 38.6	−2.2		
SNY	41.3	281	+iP	17 18 05.2	1.4		
			PMZ	m_B = 6.1		3.5	0.97
			pP	17 18 22.0	6.1		
			S	17 24 15.0	1.7		
			SMN	m_B = 5.3		7.0	0.38
			LN	Ms = 5.2		26.0	2.16
			LE			24.0	1.53
BJI	46.9	283	cP	17 18 50.0	1.4		
			csP	17 19 08.0	2.0		
			PcP	17 20 21.5	1.2		
			PcS	17 24 16.0	2.1		
			cS	17 25 36.0	1.2		
			SMN	m_B = 5.3		7.0	0.27
			csS	17 26 00.0	4.2		
			ScS	17 28 37.0	2.0		
			cSS	17 29 00.0	6.1		
			LN	Ms = 5.3		20.0	1.44
			LE			20.0	1.26
HHC	49.1	287	P	17 19 10.5	4.2		
SSE	49.6	271	−P	17 19 11.5	1.5		
			PMZ			1.5	0.24
			pP	17 19 24.0	1.7		
			sP	17 19 28.0	0.6		
			LN	Ms = 5.0		20.0	0.90
BTO	50.2	288	P	17 19 15.0	0.4		
			pP	17 19 30.5	3.8		
			cS	17 26 18.5	−3.3		
			LN	Ms = 5.1		16.0	0.50
			LE			16.0	0.80
NJ2	50.4	273	+iP	17 19 15.5	−0.6		
			PMZ	m_B = 6.0		6.0	1.10
			pP	17 19 34.4	6.1		
TIY	50.6	283	eP	17 19 18.5	0.9		
			PMZ			1.2	0.11
			(S)	17 26 28.5	1.2		
			LE	Ms = 5.2		19.0	1.29
WHN	54.3	275	−iP	17 19 45.5	0.8		
			PMZ			1.5	0.040
			PcP	17 20 49.0	1.6		
			LE	Ms = 5.0		24.0	1.00
XAN	55.2	282	+P	17 19 51.5	0.0		
			PMZ			1.4	0.23
			PcP	17 20 52.6	1.7		
LZH	56.8	288	+iP	17 20 05.0	1.5		
			PMZ			0.5	0.070
GTA	56.9	293	P	17 20 04.0	−0.1		
			PcP	17 20 59.3	1.6		
			LE	Ms = 5.4		21.0	1.88
GZH	60.2	270	+P	17 20 27.4	0.5		
WMQ	60.5	304	P	17 20 28.5	−0.2		
			PMZ			1.0	0.020
			sP	17 20 50.4	4.1		
			PcP	17 21 14.0	2.3		
CD2	60.5	283	P	17 20 30.0	1.2		
GYA	61.9	278	+P	17 20 38.6	0.2		

			pP	17 20 56.0	5.2		
			S	17 28 58.0	2.4		
			sS	17 29 17.0	−1.3		
KMI	65.3	280	+P	17 21 01.5	0.8		
LSA	68.8	291	eP	17 21 24.4	1.1		
KSH	69.6	308	eP	17 21 28.5	0.9		

1986 7 9
O=20 24 50.3 ± 0.12s
LAT=51.74 N ± 1.47km
LONG=176.88 W ± 0.86km
DEPTH= 50 km ± 1.50km
STATIONS USED = 60, STAND DEV= 0.85s

CN2	38.7	282	+P	20 32 10.2	−0.9		
SNY	40.9	280	+iP	20 32 30.4	0.7		
DL2	43.8	278	+P	20 32 53.0	−0.7		
BJI	46.5	283	eP	20 33 15.5	0.8		
HHC	48.7	287	eP	20 33 34.0	1.4		
SSE	49.2	270	+P	20 33 36.5	0.5		
			PMZ			1.0	0.030
			pP	20 33 52.0	3.5		
BTO	49.8	287	eP	20 33 42.0	1.1		
NJ2	50.0	273	−P	20 33 42.0	−0.1		
TIY	50.2	283	+P	20 33 44.5	0.7		
			PMZ			1.0	0.070
WHN	53.8	275	eP	20 34 10.3	−0.6		
XAN	54.8	282	+iP	20 34 17.2	−0.6		
LZH	56.4	287	+iP	20 34 30.5	0.5		
			PMZ			1.0	0.060
GTA	56.5	293	P	20 34 29.8	−0.9		
			PcP	20 35 26.0	0.4		
CD2	60.1	283	+iP	20 34 55.2	−0.1		
			PMZ			0.8	6.60
WMQ	60.1	304	P	20 34 55.0	−0.9		
			PcP	20 35 40.0	0.3		
GYA	61.5	277	+P	20 35 04.0	−0.9		
KMI	64.9	279	+P	20 35 27.0	−0.3		

1986 7 9
O=23 10 55.9 ± 0.08s
LAT= 1.94 N ± 1.26km
LONG=126.56 E ± 1.50km
DEPTH= 59 km ± 0.06km
STATIONS USED = 99, STAND DEV= 0.97s
Ms=6.5/47, m_B=6.6/33

QZH	24.1	342	+iP	23 16 06.5	−0.9		
			PMZ	m_B=6.3		4.0	4.95
			sP	23 16 31.0	3.6		
			iS	23 20 19.0	1.2		
			SME			22.0	59.3
			LN	Ms=6.5		21.0	106
GZH	24.6	330	−P	23 16 12.6	0.4		
			PMZ	m_B=6.8		8.0	32.2
			sP	23 16 28.5	−3.7		
			iS	23 20 22.0	−4.2		
			SMN			15.0	69.7
			LN	Ms=6.4		18.0	50.8
			LE			14.0	34.2
SSE	29.4	351	+P	23 16 57.0	0.6		
			PMZ			1.5	0.81
			pP	23 17 14.0	3.7		
			sP	23 17 22.0	5.2		
			PP	23 17 52.0	−0.5		
			PcP	23 20 06.0	5.7		
			S	23 21 44.0	0.3		
			SMN	m_B=6.7		12.0	21.0
			SME			12.0	5.84
			sS	23 22 12.0	3.2		
			SS	23 23 24.0	4.9		
			ScP	23 23 34.0	−1.3		
			PcS	23 23 42.0	0.0		
			ScS	23 27 34.0	5.5		
			LN	Ms=5.7		20.0	10.5
WHN	30.7	339	−P	23 17 08.0	0.3		
			sP	23 17 36.0	7.9		
			iS	23 22 06.0	1.5		
			SMN			14.0	16.4
			LE	Ms=6.2		14.0	22.7
NJ2	30.8	347	+P	23 17 09.0	0.3		
			sP	23 17 36.5	7.5		
			S	23 22 10.0	4.6		
			SMN	m_B=6.7		12.0	22.3
			LN	Ms=6.3		22.0	52.6
GYA	31.0	324	+P	23 17 10.0	−0.2		
			pP	23 17 24.8	0.9		
			PP	23 18 17.0	4.6		
			S	23 22 05.0	−2.9		
			SMN	m_B=6.6		10.0	15.8
			PcS	23 23 54.0	7.0		
			LN	Ms=6.6		13.0	51.5
			LE			13.0	24.3
KMI	32.5	317	+P	23 17 24.5	0.5		
			pP	23 17 40.0	2.3		
			sP	23 17 50.0	5.9		
			PP	23 18 31.0	−1.7		
			PcP	23 20 15.0	6.5		
			S	23 22 28.0	−4.4		
			LN	Ms=6.5		16.0	54.5
TIA	35.2	347	+P	23 17 46.2	−0.5		
			PMZ	m_B=6.3		7.0	3.43

			S	23 23 15.0	1.4		
			SMN			12.5	10.5
			SME			12.5	115
			LN	Ms=6.3		11.0	5.78
			LE			15.6	23.5
XAN	35.9	335	+P	23 17 51.6	−1.4		
			PMZ	m_B=6.4		5.0	2.93
			pP	23 18 08.0	0.9		
			PP	23 19 20.0	5.4		
			PPMZ			10.0	4.23
			S	23 23 23.0	−1.9		
			SMN	m_B=6.5		12.0	7.50
			SME			9.0	7.32
			LN	Ms=6.4		16.0	22.0
			LE			12.0	15.9
CD2	36.0	325	cP	23 17 52.9	−0.5		
			pP	23 18 09.0	1.4		
			S	23 23 24.0	−1.8		
			LN	Ms=6.5		13.0	32.9
DL2	37.1	354	+P	23 18 02.9	0.5		
			PMZ	m_B=6.5		7.0	5.37
			pP	23 18 18.0	1.4		
			PP	23 19 39.0	9.9		
			PcP	23 20 23.0	1.5		
			iS	23 23 45.0	1.8		
			SMN			13.0	16.5
			SME			10.0	6.53
			sS	23 24 10.0	2.2		
			LN	Ms=6.9		19.0	36.4
			LE			20.0	108
TIY	37.9	342	+iP	23 18 09.0	−0.4		
			PMZ			1.1	0.58
			pP	23 18 25.0	1.4		
			SME	m_B=5.7		10.5	1.74
			ScS	23 28 20.0	7.4		
			LN	Ms=6.8		22.5	82.4
			LE			21.0	53.7
BJI	39.1	347	+P	23 18 19.0	−0.2		
			PMZ	m_B=6.6		7.0	6.34
			pP	23 18 33.0	−0.4		
			cS	23 24 10.0	−3.8		
			SMN	m_B=6.6		11.0	12.5
			SME			14.0	5.22
			csS	23 24 34.0	−4.4		
			LN	Ms=6.4		20.5	20.7
			LE			23.0	30.0
SNY	39.8	357	+iP	23 18 25.8	0.7		
			PMZ	m_B=6.8		7.0	11.2
			sP	23 18 52.0	6.1		
			PP	23 20 01.0	0.1		
			S	23 24 26.0	2.4		
			SMN	m_B=6.9		11.0	16.7
			SME			8.0	10.9
			LE	Ms=6.5		17.5	42.1
LZH	40.0	331	+iP	23 18 27.5	0.8		
			PMZ			2.0	3.78
			pP	23 18 42.0	1.2		
			PP	23 20 02.0	−0.6		
			S	23 24 29.0	3.0		
			SMN	m_B=6.6		12.0	12.3
			ScS	23 28 32.0	7.4		
			LN	Ms=6.6		15.0	41.1
			LE			15.0	19.9
HHC	41.0	343	+P	23 18 36.0	0.5		
			pP	23 18 52.0	2.3		
			S	23 24 40.0	−2.1		
			SMN			14.0	8.76
			LN	Ms=6.8		20.0	78.4
			LE			20.0	35.0
BTO	41.3	341	−iP	23 18 37.0	−0.6		
			PMZ	m_B=6.1		9.0	2.90
			sP	23 18 59.0	0.8		
			PP	23 20 16.0	0.0		
			S	23 24 47.0	1.1		
			SMN			13.0	9.50
			SME			13.0	5.10
			sS	23 25 11.0	−0.5		
			SS	23 27 48.0	0.6		
			LN	Ms=6.8		23.0	75.7
			LE			22.0	38.9
CN2	41.7	359	+iP	23 18 40.0	−0.8		
			PMZ	m_B=6.6		7.0	6.40
			sP	23 18 55.0	−6.5		
			cS	23 24 52.0	−0.8		
			LE	Ms=6.3		15.0	19.6
MDJ	42.6	3	+iP	23 18 48.5	0.4		
			pP	23 19 03.5	1.1		
			sP	23 19 11.0	2.2		
			PcP	23 20 39.0	−0.1		
			PP	23 20 31.0	1.4		
			S	23 25 07.5	2.7		
LSA	43.5	313	+P	23 18 55.5	−0.6		
			pP	23 19 12.0	2.0		
			PP	23 20 40.5	1.8		
			S	23 25 16.0	−2.3		
			SMN	m_B=6.9		5.0	8.13
			SME			6.0	5.65
			ScS	23 28 47.0	1.0		
			LE	Ms=6.4		21.0	33.2
GTA	44.5	330	P	23 19 03.6	−0.5		

			PMZ		$m_B=6.4$		3.5	1.90
			PcP	23 20 50.0		4.2		
			ScP	23 24 37.0		5.9		
			S	23 25 25.0		−8.3		
			SME		$m_B=6.3$		10.0	5.16
			ScS	23 28 58.0		5.5		
			LE		Ms=6.6		19.0	45.0
WMQ	54.1	326	P	23 20 17.1		−0.4		
			PMZ		$m_B=6.9$		4.0	5.43
			pP	23 20 32.0		−0.1		
			PcP	23 21 21.0		0.6		
			PP	23 22 26.5		6.9		
			S	23 27 48.0		1.7		
			SMN		$m_B=6.6$		11.0	7.95
			sS	23 28 14.0		1.1		
			ScS	23 30 00.0		3.7		
			SS	23 31 34.0		6.5		
			LN		Ms=6.8		18.0	53.3
KSH	59.2	316	+iP	23 20 54.2		0.6		
			pP	23 21 11.0		2.8		
			PP	23 23 08.0		2.9		
			iS	23 28 56.2		1.4		
			sS	23 29 23.0		2.9		
			LE		Ms=6.8		20.0	43.2

1986 7 10
O=01 15 30.0 ± 0.12s
LAT=27.45 N ± 1.33km
LONG=101.48 E ± 1.22km
DEPTH= 31 km ± 0.19km
STATIONS USED = 71, STAND DEV= 2.20s
Ms=4.9/21, M_L=4.8/ 7, m_B=5.9/ 1

KMI	2.6	154	−Pn	01 16 13.0		2.5		
			Sn	01 16 45.0		2.9		
			LN				3.0	21.9
CD2	4.0	30	ePn	01 16 34.0		4.6		
			Pg	01 16 41.5		1.1		
			eSn	01 17 24.0		7.4		
			eSg	01 17 36.0		1.1		
			LN		Ms=5.3		6.5	25.5
			LE				6.5	28.9
GYA	4.7	101	+Pn	01 16 42.6		2.7		
			Pg	01 16 55.0		1.3		
			SMN		M_L=4.8		1.4	1.34
			SME				1.4	1.50
			LN				3.0	20.8
			LE				3.0	7.50
LZH	8.8	13	eP	01 17 40.5		1.6		
			LG_1	01 20 10.0		2.4		
			LG_2	01 20 15.0		−6.6		
			LN		Ms=4.9		8.0	3.08
			LE				6.0	5.43
XAN	9.2	42	−P	01 17 41.4		−1.9		
			S	01 19 24.0		−2.3		
			LN		Ms=5.2		4.0	4.18
			LE				4.0	3.35
LSA	9.4	286	eP	01 17 42.5		−3.8		
GZH	11.6	109	+P	01 18 14.4		−2.0		
			S	01 20 18.0		−7.5		
			LN		Ms=5.2		10.0	7.82
			LE				9.0	3.19
WHN	11.7	72	eP	01 18 16.5		−1.2		
			S	01 20 24.9		−2.9		
			LG_1	01 21 27.0		−9.9		
			LN		Ms=4.5		11.0	1.79
GTA	12.0	354	eP	01 18 21.2		−1.1		
TIY	13.8	39	eP	01 18 46.1		0.4		
			(S)	01 21 11.0		−7.8		
			LG_1	01 22 52.5		10.0		
			LE		Ms=4.7		10.5	2.17
BTO	14.9	26	P	01 18 58.0		−2.4		
			LN		Ms=4.8		10.0	1.30
			LE				10.0	1.80
HHC	15.7	29	P	01 19 14.0		2.6		
			eS	01 22 10.0		4.8		
			LN		Ms=4.9		9.0	2.20
NJ2	15.8	69	eP	01 19 12.5		0.8		
TIA	15.9	53	eP	01 19 12.5		−0.8		
			eS	01 22 06.5		−2.1		
			LN		Ms=4.8		12.0	0.74
			LE				14.0	2.56
BJI	17.5	40	eP	01 19 34.0		0.6		
SSE	17.6	73	P	01 19 39.5		5.1		
			sP	01 19 48.0		1.8		
			eS	01 22 54.0		6.8		
			LN		Ms=4.8		8.0	1.02
			LE				8.0	1.03
WMQ	19.8	329	+P	01 20 00.0		−0.6		
			eS	01 23 44.0		7.3		
			LE		Ms=4.5		10.0	0.76
DL2	20.3	51	eP	01 20 10.0		3.5		
CN2	25.3	44	+P	01 20 54.8		−0.7		

1986 7 10
O=01 29 35.1 ± 0.09s
LAT= 1.87 N ± 1.48km
LONG=126.35 E ± 2.37km
DEPTH= 33 km ± 0.07km
STATIONS USED = 88, STAND DEV= 1.35s
Ms=5.9/38, m_B=6.1/16

QZH	24.1	343	eP	01 34 52.0	2.8		
			iS	01 39 03.0	0.9		
			SMN			18.0	12.7
			LN	Ms=6.0		24.0	36.4
GZH	24.6	330	eP	01 34 55.0	1.5		
			S	01 39 14.0	4.9		
			SMN			19.0	14.0
			SS	01 40 12.5	7.2		
			LN	Ms=5.9		17.0	20.8
			LE			12.0	5.50
SSE	29.5	351	P	01 35 39.0	0.5		
			PMZ			14.0	2.38
			PcP	01 38 45.0	1.7		
			S	01 40 32.0	3.2		
			SMN			15.0	7.43
			LN	Ms=5.8		20.0	14.2
WHN	30.7	339	eP	01 35 49.0	−0.4		
			iS	01 40 53.0	4.1		
			LE	Ms=5.8		26.0	18.2
NJ2	30.8	348	eP	01 35 51.0	0.3		
			LE	Ms=5.8		19.0	12.1
GYA	30.9	324	P	01 35 51.0	−0.4		
			pP	01 36 02.0	1.5		
			PP	01 36 56.0	3.2		
			S	01 40 57.0	5.6		
			LN	Ms=5.8		15.0	8.30
			LE			15.0	5.00
KMI	32.4	317	−P	01 36 07.0	1.9		
			sP	01 36 19.0	1.0		
			PP	01 37 15.0	2.2		
			PcP	01 38 59.0	7.9		
			S	01 41 14.0	−1.5		
			SS	01 43 06.0	−6.4		
			LN	Ms=6.0		16.0	15.1
TIA	35.2	347	eP	01 36 28.3	−0.4		
			eS	01 42 02.7	3.3		
			SMN	m_B=6.0		11.0	1.95
			SME			10.0	2.68
			LN	Ms=5.8		14.0	2.55
			LE			16.0	8.55
XAN	35.9	335	eP	01 36 32.4	−2.3		
			PP	01 38 03.0	7.0		
			S	01 42 05.0	−4.1		
			SMN	m_B=6.1		8.0	2.67
			SME			10.0	2.12
			LN	Ms=5.6		18.0	6.00
CD2	35.9	326	eP	01 36 32.8	−2.0		
			PP	01 37 55.0	−1.3		
			(S)	01 42 10.0	−0.5		
			LN	Ms=6.0		14.0	10.7
DL2	37.1	354	P	01 36 43.0	−1.7		
			sP	01 36 59.0	0.9		
			S	01 42 28.0	0.4		
			LN	Ms=6.1		15.0	11.7
			LE			15.0	6.47
TIY	37.9	342	P	01 36 51.0	−0.4		
			LN			1.0	0.060
			ScS	01 47 05.0	6.8		
			LN	Ms=6.1		20.0	11.4
			LE			20.0	13.8
BJI	39.1	348	cP	01 37 00.5	−0.8		
			PMZ	m_B=5.7		7.0	0.85
			PcP	01 39 14.0	3.3		
			cS	01 42 56.0	−2.7		
			SMN	m_B=6.1		9.0	3.30
			PcS	01 43 01.5	2.5		
			sS	01 43 13.0	−1.3		
			ScS	01 47 09.0	3.8		
			LE	Ms=5.6		19.0	5.62
SNY	39.9	357	+P	01 37 08.0	0.4		
			PMZ	m_B=6.2		6.0	2.21
			S	01 43 10.0	0.9		
			SMN	m_B=6.7		11.0	11.4
			SME			9.0	8.89
			LN	Ms=6.1		23.0	18.7
			LE			23.0	12.5
LZH	39.9	331	cP	01 37 08.5	0.2		
			PMZ			2.0	0.72
			S	01 43 07.0	−3.1		
			SMN	m_B=6.2		8.0	3.19
			LN	Ms=6.1		15.0	12.4
BTO	41.3	341	P	01 37 22.0	2.4		
			sP	01 37 35.5	2.6		
			cPP	01 39 04.5	6.5		
			S	01 43 40.0	9.5		
			LN	Ms=6.1		22.0	16.2
			LE			20.0	8.80
CN2	41.8	359	cP	01 37 22.0	−1.3		
			sP	01 37 34.0	−2.7		
			cS	01 43 37.0	−1.4		
			LE	Ms=5.9		20.0	9.80
MDJ	42.7	3	cP	01 37 28.7	−2.0		
			pP	01 37 38.0	−2.2		
			sP	01 37 42.0	−2.1		
			PP	01 39 10.2	−2.2		
			PcP	01 39 20.0	−2.3		
			S	01 43 52.0	1.3		
LSA	43.4	313	+iP	01 37 37.5	0.3		
			sP	01 37 52.0	1.9		
			SME	m_B=5.5		8.0	0.66

			sS	01 44 23.0	5.0		
			ScS	01 47 36.0	5.1		
GTA	44.5	330	cP	01 37 43.0	−2.8		
			sP	01 37 57.0	−2.0		
			PcP	01 39 31.4	2.9		
			ScP	01 43 22.8	6.3		
			ScS	01 47 41.0	3.3		
			LN	Ms = 6.0		14.0	5.07
			LE			15.5	7.67
WMQ	54.0	326	P	01 38 59.0	−0.1		
			PMZ			2.0	0.41
			iS	01 46 34.8	3.0		
			SMN			2.0	1.95
			ScS	01 48 45.5	4.1		
			LN	Ms = 6.7		11.0	15.2
			LE			11.0	17.4
KSH	59.1	316	−P	01 39 37.2	2.1		
			pP	01 39 48.0	3.5		
			iS	01 47 47.0	8.5		
			LE	Ms = 5.7		13.0	2.30

1986 7 10
O = 02 10 43.5 ± 0.12s
LAT = 36.23 N ± 2.68km
LONG = 140.40 E ± 2.47km
DEPTH = 78 km ± 1.88km
STATIONS USED = 47, STAND DEV = 2.07s

MDJ	11.7	319	cP	02 13 31.1	1.2
CN2	13.7	308	cP	02 13 56.4	0.4
SNY	14.2	298	−P	02 14 03.8	1.4
NJ2	18.3	263	cP	02 14 51.5	−2.2
TIA	18.8	277	cP	02 14 56.9	−2.3
BJI	19.4	289	cP	02 15 04.0	−2.2
TIY	22.4	282	cP	02 15 34.9	−1.5
WHN	22.4	263	cP	02 15 37.5	0.4
BTO	24.1	290	cP	02 15 54.0	0.4
XAN	25.8	274	P	02 16 08.6	−0.6
GZH	26.8	248	cP	02 16 18.2	−0.4
GYA	30.3	261	P	02 16 48.4	−1.6
CD2	30.9	271	cP	02 16 53.7	−1.3
KMI	34.0	262	+P	02 17 22.5	−0.3
WMQ	40.5	298	P	02 18 18.0	1.3
KSH	50.0	294	cP	02 19 43.0	11.2

1986 7 10
O = 02 53 18.3 ± 0.09s
LAT = 1.81 N ± 1.27km
LONG = 126.33 E ± 2.24km
DEPTH = 32 km ± 0.11km
STATIONS USED = 55, STAND DEV = 1.21s

GZH	24.6	330	c(P)	02 58 38.0	0.7
WHN	30.8	340	eP	02 59 33.5	0.3
NJ2	30.9	348	eP	02 59 33.5	−1.0
GYA	30.9	324	P	02 59 34.6	−0.5
XAN	36.0	335	P	03 00 16.4	−2.0
CD2	36.0	326	eP	03 00 18.4	−0.1
DL2	37.2	354	eP	03 00 31.5	3.0
BJI	39.2	348	eP	03 00 45.0	−0.1
SNY	39.9	357	eP	03 00 51.0	−0.4
LZH	40.0	331	+iP	03 00 52.5	0.5
CN2	41.8	359	−P	03 01 11.0	3.9
MDJ	42.7	3	−P	03 01 15.0	0.5
GTA	44.5	330	P	03 01 29.2	−0.2
WMQ	54.1	326	P	03 02 42.2	−0.5
KSH	59.1	316	cP	03 03 21.0	2.4

1986 7 10
O = 03 37 14.2 ± 0.08s
LAT = 1.89 N ± 1.08km
LONG = 126.56 E ± 1.53km
DEPTH = 33 km ± 0.21km
STATIONS USED = 41, STAND DEV = 1.17s

GZH	24.7	330	cP	03 42 35.0	1.5
WHN	30.8	339	cP	03 43 29.5	0.4
NJ2	30.9	347	cP	03 43 31.0	1.0
GYA	31.0	324	P	03 43 31.0	−0.5
KMI	32.6	317	cP	03 43 45.0	−0.3
XAN	36.0	335	P	03 44 13.0	−1.4
CD2	36.0	326	cP	03 44 14.0	−0.8
DL2	37.1	354	P	03 44 25.0	1.2
BJI	39.1	347	cP	03 44 40.5	−0.1
SNY	39.8	357	+iP	03 44 47.4	0.8
LZH	40.0	331	cP	03 44 47.5	−0.6
MDJ	42.6	3	cP	03 45 10.5	0.9
WMQ	54.1	326	P	03 46 38.0	−1.0

1986 7 10
O = 05 43 15.8 ± 0.09s
LAT = 9.00 S ± 1.31km
LONG = 124.21 E ± 1.36km
DEPTH = 31 km ± 0.30km
STATIONS USED = 15, STAND DEV = 1.67s

GYA	39.2	335	P	05 50 44.6	1.7
XAN	45.2	342	cP	05 51 32.5	0.2
LSA	49.9	322	+P	05 52 09.0	−0.7
MDJ	53.6	5	cP	05 52 36.2	−0.6

1986 7 10
O = 07 10 44.9 ± 0.20s
LAT = 1.89 N ± 2.28km

LONG = 126.50 E ± 3.36km
DEPTH = 32 km ± 0.44km
STATIONS USED = 41, STAND DEV = 2.35s

GZH	24.6	330	e(P)	07 16 04.5	0.6	
NJ2	30.9	347	eP	07 17 00.0	−0.6	
GYA	31.0	324	P	07 17 01.4	−0.5	
XAN	36.0	335	P	07 17 43.8	−1.1	
CD2	36.0	326	eP	07 17 44.4	−0.9	
BJI	39.1	347	eP	07 18 11.5	0.3	
SNY	39.8	357	−P	07 18 17.5	0.2	
LZH	40.0	331	eP	07 18 19.0	0.4	
MDJ	42.6	3	eP	07 18 40.5	0.2	
LSA	43.5	313	eP	07 18 46.2	−1.7	
WMQ	54.1	326	P	07 20 08.6	−0.9	

1986 7 10
O = 16 13 18.9 ± 0.15s
LAT = 28.33 N ± 2.74km
LONG = 140.71 E ± 2.97km
DEPTH = 34 km ± 0.55km
STATIONS USED = 43, STAND DEV = 2.98s
Ms = 4.7 / 8, m_B = 5.7 / 11

MDJ	18.5	334	eP	16 17 35.6	0.9		
DL2	19.0	309	+P	16 17 42.0	1.0		
NJ2	19.2	286	+P	16 17 46.0	2.7		
			PMZ	m_B = 6.1		5.0	4.70
SNY	19.4	318	−P	16 17 43.0	−1.9		
			PMZ	m_B = 5.7		5.0	2.07
			S	16 21 15.0	−0.7		
			sS	16 21 29.0	0.2		
			LN	Ms = 4.8		12.0	1.09
			LE			12.0	1.32
CN2	19.7	326	−P	16 17 46.0	−2.4		
TIA	21.4	298	eP	16 18 06.3	0.3		
			PMZ	m_B = 5.8		5.0	2.42
			eS	16 22 04.0	7.2		
			SMN	m_B = 5.7		7.0	0.59
			SME			7.0	1.92
			LE	Ms = 4.7		11.0	1.13
WHN	23.0	282	eP	16 18 21.5	−0.9		
			pP	16 18 36.0	4.5		
			eS	16 22 22.0	−4.8		
			SME	m_B = 5.6		12.0	2.27
			sS	16 22 44.0	2.2		
BJI	23.3	306	eP	16 18 24.0	−1.2		
			PMZ	m_B = 5.6		5.0	1.30
			eS	16 22 22.0	−9.9		
			LN	Ms = 4.5		13.0	0.77
TIY	25.4	299	P	16 18 46.0	0.7		
			PMZ	m_B = 6.1		5.0	2.53
			S	16 23 09.0	2.5		
			LE	Ms = 4.7		9.5	0.65
XAN	27.7	290	eP	16 19 06.3	−0.2		
BTO	28.0	304	eP	16 19 09.0	0.2		
			pP	16 19 20.0	2.0		
			S	16 23 43.0	−5.1		
GYA	30.2	275	P	16 19 33.0	3.9		
GTA	35.4	299	P	16 20 13.0	−1.4		
			PMZ	m_B = 5.8		5.0	0.92
			SMN	m_B = 5.3		6.5	0.36
			LN	Ms = 4.7		14.0	0.53
LSA	43.1	284	eP	16 21 15.6	−2.8		
WMQ	44.8	305	eP	16 21 24.0	−7.7		
KSH	53.8	300	+P	16 22 43.5	2.2		
			S	16 30 19.5	8.3		

1986 7 10
O = 18 35 05.0 ± 0.07s
LAT = 19.79 S ± 1.92km
LONG = 175.68 W ± 1.06km
DEPTH = 239 km ± 1.03km
STATIONS USED = 55, STAND DEV = 0.93s

NJ2	81.1	309	+P	18 46 56.3	0.4
MDJ	81.2	324	−P	18 46 55.2	−1.2
GZH	81.3	298	eP	18 46 57.8	1.0
SNY	83.1	319	−P	18 47 05.7	−0.3
CN2	83.1	321	eP	18 47 05.6	−0.5
			pP	18 48 01.0	−1.5
WHN	83.8	305	eP	18 47 10.0	0.4
TIA	84.4	311	eP	18 47 12.3	−0.4
BJI	86.9	314	eP	18 47 24.0	−1.0
GYA	88.2	299	P	18 47 31.6	0.5
TIY	88.4	311	P	18 47 32.9	0.7
XAN	89.5	307	P	18 47 37.1	0.2
KMI	91.0	296	+P	18 47 46.0	1.8
BTO	91.4	313	eP	18 47 46.0	0.0

1986 7 10
O = 19 44 21.2 ± 0.18s
LAT = 1.11 S ± 2.14km
LONG = 126.88 E ± 2.89km
DEPTH = 31 km ± 0.42km
STATIONS USED = 47, STAND DEV = 2.12s

WHN	33.7	340	eP	19 51 03.3	1.6
NJ2	33.8	348	eP	19 51 03.6	0.4
CD2	38.7	327	eP	19 51 44.4	0.0
XAN	38.8	336	P	19 51 45.0	−0.4
TIY	40.9	342	eP	19 52 02.0	−0.5
BJI	42.1	348	eP	19 52 11.5	−1.0
LZH	42.8	332	eP	19 52 17.5	−0.7

SNY	42.8	356	+P	19 52 17.0	−1.6	
MDJ	45.6	3	−P	19 52 38.7	−2.0	
LSA	45.8	315	−iP	19 52 42.2	−1.0	
GTA	47.3	331	P	19 52 54.9	0.2	
WMQ	56.8	327	P	19 54 05.4	−0.1	

1986 7 11
O=00 13 07.4 ± 0.06s
LAT=32.15 N ± 1.18km
LONG=141.77 E ± 1.06km
DEPTH= 33 km ± 0.19km
STATIONS USED = 24, STAND DEV= 1.14s
Ms=4.5/ 2,

CN2	17.3	317	eP	00 17 08.0	−0.3		
SNY	17.4	309	eP	00 17 11.3	1.6		
BTO	26.8	297	eP	00 18 46.4	−0.6		
			eS	00 23 13.0	−6.3		
			LN	Ms=4.6		13.0	0.50
			LE			13.0	0.50
XAN	27.5	283	eP	00 18 51.7	−1.7		
WMQ	43.5	302	P	00 21 11.0	1.2		

1986 7 11
O=05 30 08.0 ± 0.08s
LAT=27.25 N ± 0.74km
LONG=101.30 E ± 0.51km
DEPTH= 32 km ± 0.01km
STATIONS USED = 5, STAND DEV= 3.24s
M_L=3.6/ 1,

CD2	4.2	30	cPn	05 31 13.2	2.4		
			SMN	M_L=3.6		1.0	0.080
			SME			1.2	0.14
GYA	4.9	98	cPn	05 31 21.0	1.6		

1986 7 11
O=07 17 58.1 ± 0.12s
LAT=26.09 S ± 1.69km
LONG=132.78 E ± 2.03km
DEPTH= 10 km ± 0.26km
STATIONS USED = 55, STAND DEV= 1.09s

GYA	58.0	332	P	07 27 55.0	0.9
KMI	58.6	328	eP	07 28 00.0	1.5
NJ2	59.3	346	eP	07 28 04.0	0.8
CD2	63.1	332	eP	07 28 29.4	0.5
XAN	63.9	338	eP	07 28 33.8	−0.6
TIY	66.3	342	P	07 28 49.2	−0.3
BJI	67.6	346	eP	07 28 58.0	0.3
LZH	67.6	335	eP	07 28 59.0	0.9
SNY	68.1	353	−P	07 29 00.7	−0.3
LSA	68.3	322	eP	07 29 02.5	−0.4
BTO	69.6	342	eP	07 29 11.0	0.4
MDJ	70.4	358	eP	07 29 13.6	−1.7
GTA	72.1	334	P	07 29 26.2	0.8
WMQ	80.9	329	P	07 30 16.0	0.8
KSH	84.0	319	eP	07 30 32.0	0.8

1986 7 11
O=08 27 45.9 ± 0.17s
LAT=45.90 S ± 2.16km
LONG=166.15 E ± 1.85km
DEPTH= 21 km ± 1.74km
STATIONS USED = 22, STAND DEV= 1.41s
Ms=5.3/ 1,

SSE	86.8	323	P	08 40 31.3	0.5		
			PMZ			1.0	0.040
			LN	Ms=5.3		18.0	0.65
NJ2	88.6	321	−P	08 40 40.0	0.4		
WHN	89.4	317	eP	08 40 43.0	−0.3		
GYA	90.0	309	P	08 40 45.8	−0.3		
KMI	91.1	306	+P	08 40 51.5	0.0		
XAN	94.9	316	eP	08 41 08.4	−0.3		
CN2	96.3	332	eP	08 41 19.0	3.7		

1986 7 11
O=14 49 58.9 ± 0.93s
LAT=34.00 N ± 8.77km
LONG= 81.26 E ± 2.73km
DEPTH= 40 km ± 1.52km
STATIONS USED = 6, STAND DEV= 3.52s
M_L=4.2/ 1,

KSH	6.9	324	P	14 51 38.7	−1.8		
			S	14 52 53.7	−4.0		
WMQ	11.0	25	P	14 52 41.0	3.8		
			PMZ			1.5	0.020

1986 7 11
O=15 55 46.7 ± 0.10s
LAT=27.34 N ± 1.04km
LONG=101.40 E ± 1.07km
DEPTH= 32 km ± 0.25km
STATIONS USED = 8, STAND DEV= 3.23s
M_L=3.4/ 4,

CD2	4.1	30	cPn	15 56 48.2	0.3		
			Pg	15 56 54.0	−5.5		
			Sg	15 57 47.6	−8.3		
			SMN	M_L=3.7		1.0	0.070
			SME			1.2	0.22
GYA	4.8	99	cPn	15 56 58.6	1.5		
			Pg	15 57 05.6	−5.7		
			Sn	15 57 50.0	−2.9		

		SMN	M_L = 3.1		1.0	0.030		
		SME			1.0	0.020		

1986 7 11
O = 17 02 02.8 ± 0.10s
LAT = 24.40 N ± 1.50km
LONG = 126.92 E ± 1.53km
DEPTH = 32 km ± 0.29km
STATIONS USED = 90, STAND DEV = 1.97s
Ms = 5.2 / 35, m_B = 5.2 / 3

QZH	7.6	276	eP	17 03 51.0	−3.1			
			eS	17 05 13.0	−6.9			
			eLG_2	17 06 15.0	1.6			
			LN	Ms = 4.8		14.0	5.81	
			LE			13.0	7.13	
SSE	8.4	324	eP	17 04 04.0	−1.0			
			S	17 05 48.8	9.4			
			LG_2	17 06 32.0	−7.4			
			LN	Ms = 4.9		11.0	7.99	
			LE			13.0	2.54	
NJ2	10.4	319	eP	17 04 31.0	−2.2			
			S	17 06 25.0	−4.8			
			LE	Ms = 4.9		8.0	4.10	
GZH	12.5	267	−P	17 04 58.0	−3.4			
			LN	Ms = 4.8		26.0	7.84	
WHN	12.7	302	eP	17 05 03.5	−0.9			
			eS	17 07 26.0	0.0			
			LN	Ms = 5.1		20.0	9.72	
			LE			20.0	6.94	
TIA	14.5	327	eP	17 05 30.6	3.0			
			SME	m_B = 4.9		9.0	0.72	
			eLG_2	17 10 05.0	4.3			
			LN	Ms = 5.3		15.0	2.24	
			LE			16.0	12.6	
DL2	15.1	344	eP	17 05 36.0	−0.2			
			eS	17 08 31.0	7.4			
			LN	Ms = 5.2		11.0	4.22	
			LE			11.0	4.56	
SNY	17.6	352	+P	17 06 07.8	0.4			
			pP	17 06 16.0	1.1			
			PP	17 06 24.0	2.3			
			PPMZ			12.0	0.60	
			eS	17 09 23.0	2.6			
			sS	17 09 35.0	2.8			
			LN	Ms = 4.9		11.0	0.95	
			LE			11.0	2.36	
BJI	18.0	332	eP	17 06 12.0	−0.7			
			eS	17 09 34.0	3.9			
			SMN	m_B = 5.2		7.0	0.55	
			SME			10.0	0.76	
			LN	Ms = 4.7		20.0	2.40	
TIY	18.1	320	P	17 06 15.4	1.2			
			LN	Ms = 5.1		14.0	2.59	
			LE			14.0	3.71	
XAN	18.4	306	−P	17 06 17.2	−0.1			
			eS	17 09 40.0	1.5			
			LN	Ms = 5.4		12.0	5.10	
			LE			11.0	4.54	
GYA	18.4	281	P	17 06 17.4	−0.2			
			S	17 09 42.0	3.8			
			LE	Ms = 4.9		14.0	2.50	
CN2	19.4	357	−iP	17 06 27.9	−1.1			
			sP	17 06 38.0	−3.2			
			eS	17 09 56.0	−4.7			
			sS	17 10 06.0	−6.6			
			SS	17 10 20.0	−6.6			
			LE	Ms = 5.0		13.0	2.90	
MDJ	20.3	6	eP	17 06 36.4	−2.3			
			pP	17 06 43.1	−4.0			
			S	17 10 16.0	−3.3			
			SS	17 10 42.0	−6.8			
HHC	20.8	326	−P	17 06 44.5	−0.1			
			S	17 10 30.0	0.3			
BTO	21.5	323	eP	17 06 50.0	−1.1			
			PP	17 07 22.0	6.9			
			S	17 10 46.0	4.0			
			LN	Ms = 5.3		15.0	3.10	
			LE			15.0	4.40	
CD2	21.5	293	−iP	17 06 50.6	−0.6			
			(S)	17 10 39.0	−4.1			
			LE	Ms = 5.4		12.0	6.30	
KMI	22.0	277	−P	17 06 58.0	1.9			
			sP	17 07 13.0	4.4			
			S	17 10 55.0	4.0			
			LN	Ms = 5.1		14.0	3.60	
LZH	23.0	306	+iP	17 07 07.0	0.4			
			PMZ			1.5	0.14	
			eS	17 11 15.0	3.7			
			LE	Ms = 5.3		11.0	3.77	
GTA	27.3	310	P	17 07 46.0	−1.2			
			eS	17 12 15.0	−8.3			
			LN	Ms = 5.4		15.0	5.43	
LSA	32.2	287	−iP	17 08 30.8	−0.2			
			eS	17 13 43.0	1.5			
			LE	Ms = 4.8		13.0	0.81	
WMQ	37.4	311	eP	17 09 15.3	0 4			
			PMZ			2.0	0.11	
			sP	17 09 30.5	2.7			
			eS	17 15 01.0	0.2			
			LN	Ms = 5.7		15.0	6.43	

KSH	45.2	302	eP	17 10 20.7	1.6		
			eS	17 16 57.0	0.4		
			LE	Ms=5.8	14.0	4.80	

1986 7 11

O=20 48 04.3 ± 0.16s
LAT=18.73 N ± 1.69km
LONG=120.80 E ± 1.93km
DEPTH= 32 km ± 0.49km
STATIONS USED = 22, STAND DEV= 1.94s

GZH	8.2	303	eP	20 50 01.3	−2.8		
CD2	19.6	311	eP	20 52 33.9	0.7		
TIY	20.3	341	P	20 52 40.2	−0.1		
BJI	21.6	350	eP	20 52 53.0	−0.8		
LZH	22.9	323	eP	20 53 07.5	1.0		
SNY	23.1	5	eP	20 53 07.0	−2.0		
GTA	27.5	323	eP	20 53 49.4	−0.7		

1986 7 12

O=00 42 59.6 ± 0.15s
LAT=23.70 N ± 1.02km
LONG=120.93 E ± 0.94km
DEPTH= 33 km ± 0.04km
STATIONS USED = 9, STAND DEV= 0.71s
M_L=3.9 / 5,

QZH	2.5	301	eP	00 43 39.0	0.7		
			S	00 44 08.0	0.4		
			SMN	M_L=3.5	0.1	0.36	
			SME		0.1	0.15	
SSE	7.4	2	eP	00 44 47.3	−0.4		
			eLG_2	00 47 05.5	2.7		
			LE		1.0	0.060	

1986 7 12

O=04 30 15.7 ± 0.05s
LAT= 9.35 N ± 0.87km
LONG=124.27 E ± 1.26km
DEPTH=545 km ± 0.22km
STATIONS USED = 49, STAND DEV= 0.79s

WHN	23.0	338	eP	04 34 41.5	0.7		
NJ2	23.1	348	eP	04 34 42.0	0.2		
TIA	27.5	347	eP	04 35 19.9	−0.7		
XAN	28.3	332	−iP	04 35 26.8	−1.0		
CD2	28.7	321	eP	04 35 31.0	−0.2		
DL2	29.5	356	P	04 35 37.8	−0.2		
TIY	30.2	341	eP	04 35 43.2	−0.6		
BJI	31.4	348	eP	04 35 54.0	0.0		
SNY	32.3	359	−iP	04 36 02.0	0.0		
LZH	32.5	328	−iP	04 36 04.0	0.9		
			PMZ		1.0	0.080	
MDJ	35.4	7	+P	04 36 28.5	0.7		
LSA	37.0	308	eP	04 36 40.6	−0.5		
GTA	37.1	328	−iP	04 36 41.5	0.2		
			PcP	04 38 47.3	−0.2		
			ScP	04 41 43.2	1.2		
WMQ	46.8	324	P	04 37 58.6	0.5		
KSH	52.4	313	eP	04 38 17.0	−21.9		

1986 7 12

O=06 12 23.7 ± 0.98s
LAT=37.14 N ± 8.69km
LONG= 80.80 E ± 2.65km
DEPTH= 32 km ± 0.03km
STATIONS USED = 7, STAND DEV= 3.55s
M_L=3.7 / 3,

KSH	4.4	303	ePn	06 13 29.6	0.1		
			Sn	06 14 19.0	−2.6		
			SMN	M_L=3.9	0.2	0.20	
			SME		0.2	0.20	
WMQ	8.5	36	eP	06 14 25.2	−2.5		
			eS	06 16 12.0	8.5		
			LG_2	06 17 06.2	2.3		
			LN		1.5	0.020	

1986 7 12

O=07 54 25.8 ± 0.15s
LAT=29.86 N ± 3.33km
LONG= 51.49 E ± 1.53km
DEPTH= 10 km ± 0.04km
STATIONS USED = 85, STAND DEV= 1.36s
Ms=5.9 / 34, m_B=5.7 / 6

KSH	22.2	58	+iP	07 59 24.5	−0.3		
			iS	08 03 34.5	9.6		
			LE	Ms=6.2	12.0	33.0	
WMQ	31.9	54	P	08 00 54.5	0.6		
			PMZ		2.0	0.24	
			PP	08 01 56.4	−2.3		
			PcP	08 03 50.0	6.1		
			S	08 06 09.0	6.2		
			LN	Ms=5.9	20.0	15.8	
LSA	34.3	80	P	08 01 13.6	−1.8		
			S	08 06 42.0	1.5		
			LN	Ms=6.0	21.0	17.9	
GTA	40.5	63	P	08 02 07.2	0.3		
			PP	08 03 44.5	1.2		
			ScP	08 08 01.8	4.3		
			SS	08 11 05.0	−3.1		
			LE	Ms=5.7	13.5	5.07	
LZH	43.9	68	eP	08 02 37.0	1.8		
			PMZ		2.0	0.32	

		eS	08 09 11.0	4.3		
		LN	Ms=5.9		13.0	3.26
		LE			12.0	4.17
CD2	44.8	75	eP	08 02 43.6	1.8	
		eS	08 09 19.5	1.0		
		LE	Ms=6.0		16.0	8.72
KMI	45.4	83	eP	08 02 48.0	0.8	
		pP	08 02 56.0	3.6		
		iS	08 09 29.0	0.7		
		SS	08 12 46.5	4.7		
		LN	Ms=5.7		16.0	4.50
BTO	48.2	61	eP	08 03 09.6	0.4	
		ePP	08 05 02.0	2.0		
		S	08 10 06.0	−0.5		
		LN	Ms=5.8		15.0	3.20
		LE			16.0	4.20
XAN	48.4	69	eP	08 03 09.0	−1.4	
		eS	08 10 10.0	0.0		
		LN	Ms=6.1		15.0	5.60
		LE			14.0	6.76
GYA	48.4	80	P	08 03 09.8	−0.7	
		S	08 10 10.0	1.1		
		LN	Ms=5.5		20.0	3.00
HHC	49.3	60	−P	08 03 19.5	1.6	
		S	08 10 21.0	−1.5		
		sS	08 10 30.0	−2.8		
		LN	Ms=5.9		15.0	3.07
		LE			14.0	4.14
TIY	50.5	64	eP	08 03 27.0	0.4	
		PP	08 05 25.0	2.5		
		S	08 10 34.0	−4.2		
		LN	Ms=5.9		17.0	6.15
BJI	52.9	60	eP	08 03 44.5	−0.6	
		ePcP	08 04 54.0	0.8		
		eScP	08 08 50.0	0.8		
		eS	08 11 12.0	−1.1		
		SMN	m_B=5.1		11.0	0.30
		eScS	08 13 34.0	3.2		
		LN	Ms=5.9		16.0	5.03
WHN	53.7	72	eP	08 03 50.5	0.0	
TIA	54.5	65	eP	08 03 55.8	−0.5	
		eS	08 11 30.5	−3.3		
		LN	Ms=5.7		14.0	1.15
		LE			15.0	3.03
NJ2	56.9	69	eP	08 04 14.0	−0.2	
		LE	Ms=5.8		12.5	2.80
DL2	57.3	61	P	08 04 17.0	0.2	
		S	08 12 09.0	−1.5		
		LN	Ms=6.0		18.0	6.20
		LE			14.0	1.37
SNY	58.1	57	−P	08 04 20.8	−1.4	
		S	08 12 17.0	−3.6		
		SMN			14.0	0.65
		SME			14.0	0.53
		LN	Ms=5.9		13.5	3.99
SSE	59.1	70	−P	08 04 30.0	0.5	
		PMZ	m_B=6.0		5.0	1.10
		S	08 12 38.0	3.7		
		LN	Ms=5.7		14.0	2.45
MDJ	61.7	53	eP	08 04 46.2	−0.7	
		S	08 13 02.9	−3.9		
		ScS	08 14 32.0	−2.0		

1986 7 12
O=09 06 56.3 ± 0.10s
LAT= 1.80 N ± 0.94km
LONG=127.39 E ± 1.69km
DEPTH=104 km ± 1.31km
STATIONS USED = 26, STAND DEV= 1.63s

XAN	36.4	334	−P	09 13 51.4	−1.6	
BJI	39.4	346	eP	09 14 16.5	−1.2	
			pP	09 14 44.5	3.1	
LZH	40.5	330	−iP	09 14 27.0	0.1	
			PMZ		1.5	0.28
MDJ	42.7	2	eP	09 15 06.9	22.8	
GTA	45.1	330	P	09 15 03.7	−0.5	
			pP	09 15 33.6	5.6	

1986 7 12
O=09 52 08.1 ± 0.16s
LAT=49.42 N ± 1.19km
LONG=123.80 E ± 1.08km
DEPTH= 13 km ± 0.53km
STATIONS USED = 15, STAND DEV= 4.84s
Ms=4.1/ 2, M_L=4.7/ 9,

CN2	5.7	168	Pn	09 53 33.6	0.3	
			Pg	09 53 58.4	9.1	
			eSn	09 54 40.8	−0.2	
			Sg	09 55 08.0	0.4	
			SMN	M_L=4.4	1.0	0.24
			SME		1.0	0.46
MDJ	6.2	138	eP*	09 53 41.5	−9.9	
			Sn	09 54 53.0	−0.2	
			S*	09 55 11.3	2.9	
SNY	7.6	181	eP*	09 54 06.7	−7.1	
			Pg	09 54 31.8	9.7	
			Sg	09 56 11.0	5.1	
			SMN	M_L=4.7	0.8	0.13
			SME		1.0	0.33
BTO	13.1	233	eP	09 55 13.0	−4.3	

			eLG$_1$	09 58 59.0	−1.4		
			LN	Ms=4.2	9.0	0.40
			LE		9.0	0.50

1986 7 12
O=10 17 25.3 ± 0.11s
LAT= 5.65 N ± 1.70km
LONG=125.45 E ± 1.89km
DEPTH= 87 km ± 0.32km
STATIONS USED = 78, STAND DEV= 1.42s
Ms=5.0/20, m_B=5.3/ 2

QZH	20.3	342	P	10 22 00.0	3.6		
			pP	10 22 13.0	−0.8		
			sS	10 26 09.0	9.1		
			LN	Ms=5.1	24.0	6.73
GZH	20.9	327	P	10 22 04.0	1.3		
			LN	Ms=4.9	22.0	3.82
SSE	25.6	352	eP	10 22 49.8	1.2		
			LE	Ms=4.8	13.0	1.24
WHN	26.9	338	eP	10 23 00.5	0.4		
NJ2	27.0	348	eP	10 23 04.0	2.9		
GYA	27.4	321	P	10 23 03.6	−1.3		
			sP	10 23 26.0	−8.9		
			PcP	10 26 21.6	0.1		
			S	10 27 41.4	5.2		
			ScP	10 29 55.0	2.4		
			LE	Ms=4.9	20.0	2.20	
KMI	29.1	314	+P	10 23 21.5	0.8		
			LN	Ms=4.9	15.0	1.45	
TIA	31.4	347	eP	10 23 45.5	5.3		
			LE	Ms=4.8	12.5	0.87	
XAN	32.1	334	+iP	10 23 45.6	−1.4		
			ScP	10 30 00.0	−8.0		
			LN	Ms=5.0	14.0	1.35	
CD2	32.3	324	eP	10 23 49.0	0.1		
			(S)	10 29 03.0	7.3		
DL2	33.3	355	eP	10 23 56.0	−0.9		
BJI	35.2	348	eP	10 24 12.0	−1.6		
			eScS	10 34 26.0	4.2		
SNY	36.1	358	−P	10 24 20.0	−0.6		
			eS	10 29 58.0	5.0		
			LN	Ms=4.9	24.0	1.56	
LZH	36.2	330	+P	10 24 22.0	−0.1		
			PMZ		1.5	0.28	
			eS	10 30 00.0	4.4		
BTO	37.5	341	eP	10 24 32.0	−0.4		
			eS	10 30 20.0	5.6		
			eSS	10 33 00.0	9.5		
			LN	Ms=5.1	17.0	1.10	
			LE		17.0	1.10	
CN2	38.0	0	eP	10 24 33.0	−3.8		
MDJ	39.0	5	eP	10 24 43.0	−2.0		
LSA	40.2	311	P	10 24 56.0	0.3		
			S	10 31 01.0	6.0		
			SME	m_B=5.3	4.0	0.25	
GTA	40.8	329	P	10 25 00.0	−0.2		
			PP	10 26 39.0	1.1		
			ScP	10 30 42.4	2.6		
			S	10 31 06.0	2.4		
			ScS	10 34 54.6	1.1		
			LN	Ms=5.1	17.5	1.46	
WMQ	50.4	325	P	10 26 16.1	−0.5		
			PMZ		2.0	0.12	
			S	10 33 24.0	2.8		
			LN	Ms=5.3	24.0	2.25	
KSH	55.8	315	+P	10 26 57.0	0.9		
			PP	10 29 02.0	−0.3		
			eS	10 34 42.0	7.1		
			csS	10 35 04.0	−7.4		
			LE	Ms=5.5	16.0	2.20	

1986 7 12
O=16 05 13.7 ± 0.12s
LAT= 1.88 N ± 1.34km
LONG=126.41 E ± 1.66km
DEPTH= 40 km ± 0.47km
STATIONS USED = 87, STAND DEV= 1.09s
Ms=5.3/37, m_B=5.8/16

QZH	24.1	342	+P	16 10 27.0	−0.3		
			S	16 14 38.0	−0.9		
			LN	Ms=5.4	22.0	8.82	
GZH	24.6	330	+iP	16 10 34.2	2.5		
			S	16 14 48.0	1.3		
			SMN		16.0	3.65	
			LN	Ms=5.3	24.0	6.90	
SSE	29.5	351	+P	16 11 16.0	−0.5		
			PMZ		1.2	0.040	
			sP	16 11 30.0	−1.3		
			S	16 16 08.0	2.0		
			SMN	m_B=5.5	12.0	1.37	
			SME		12.0	0.70	
			sS	16 16 30.0	5.7		
			SS	16 17 39.0	−0.9		
			LN	Ms=5.2	18.0	2.73	
			LE		19.0	1.79	
WHN	30.7	339	eP	16 11 27.5	0.0		
			eS	16 16 23.0	−3.3		
			LE	Ms=5.3	20.0	4.50	
NJ2	30.8	347	−P	16 11 29.0	0.3		
			LE	Ms=5.2	18.0	3.00	

GYA	30.9	324	P	16 11 30.0	0.3	
			pP	16 11 38.0	−1.8	
			S	16 16 30.0	0.9	
			ScS	16 22 02.0	3.7	
			LN	Ms = 5.3	16.0	1.70
			LE		16.0	3.00
KMI	32.5	317	+P	16 11 43.0	−0.3	
			PP	16 12 50.0	−1.3	
			S	16 16 51.0	−2.3	
			LN	Ms = 5.4	16.0	3.70
TIA	35.2	347	eP	16 12 05.5	−1.2	
			eS	16 17 30.5	−6.2	
			SMN	m_B = 5.6	10.0	0.68
			SME		10.0	0.87
			LE	Ms = 5.1	15.0	1.63
XAN	35.9	335	+P	16 12 11.5	−1.2	
			S	16 17 39.0	−7.6	
			LN	Ms = 5.4	18.0	3.45
CD2	36.0	326	eP	16 12 12.6	−0.4	
			epP	16 12 28.0	4.6	
			S	16 17 45.0	−2.1	
			LE	Ms = 5.7	16.0	6.39
DL2	37.1	354	+P	16 12 23.0	0.4	
			S	16 18 02.0	−2.7	
			LN	Ms = 5.5	15.0	3.73
			LE		14.0	1.52
TIY	37.9	342	P	16 12 29.0	−0.4	
			S	16 18 14.5	−2.3	
			SMN		26.0	2.18
			ScS	16 22 42.0	6.8	
			LE	Ms = 5.1	17.0	1.60
BJI	39.1	348	eP	16 12 39.0	−0.2	
			PMZ	m_B = 5.5	7.0	0.53
			eS	16 18 30.0	−6.0	
			SMN	m_B = 5.8	8.0	1.14
			SME		7.0	0.70
			PcS	16 18 39.0	2.3	
			cScS	16 22 50.0	7.8	
			LE	Ms = 5.0	18.0	1.29
SNY	39.8	357	+iP	16 12 46.0	0.6	
			PMZ	m_B = 6.0	7.0	1.55
			sP	16 12 58.0	−2.5	
			PP	16 14 19.0	−2.3	
			iS	16 18 49.5	2.3	
			SMN	m_B = 6.2	5.0	1.56
			SME		5.0	1.65
			LN	Ms = 5.5	24.0	4.34
			LE		24.0	3.31
LZH	39.9	331	+iP	16 12 46.5	0.1	
			PMZ		1.5	0.24
			eS	16 18 44.0	−4.9	
			LN	Ms = 5.4	12.0	1.67
			LE		11.0	1.20
HHC	41.0	343	eP	16 12 55.0	−0.5	
			S	16 19 03.0	−1.1	
			LN	Ms = 5.3	14.0	1.78
BTO	41.3	341	eP	16 12 56.2	−1.4	
			ePP	16 14 32.0	−4.0	
			eS	16 19 03.0	−6.1	
			LN	Ms = 5.5	21.0	3.80
			LE		21.0	3.00
CN2	41.7	359	+P	16 13 00.6	−0.5	
			PMZ	m_B = 5.8	5.0	0.70
			eS	16 19 09.6	−5.9	
			LE	Ms = 5.3	18.0	2.20
MDJ	42.6	3	+P	16 13 09.2	0.7	
			PP	16 14 48.0	−2.2	
			S	16 19 28.0	0.4	
			SS	16 22 28.8	−4.7	
LSA	43.4	313	P	16 13 15.1	−0.4	
			S	16 19 39.1	−0.1	
			SMN	m_B = 5.6	7.0	0.61
GTA	44.5	330	P	16 13 23.5	−0.4	
			PP	16 15 07.0	−1.7	
			eS	16 19 54.5	−1.7	
			SMN	m_B = 5.4	7.5	0.47
			ScS	16 23 19.4	4.6	
			LN	Ms = 5.2	16.0	1.48
WMQ	54.1	326	P	16 14 36.2	−1.0	
			PMZ		2.0	0.12
			S	16 22 09.2	1.3	
			SMN	m_B = 5.9	6.0	0.86
			ScS	16 24 22.0	3.4	
			LN	Ms = 5.6	14.0	2.19

1986 7 12
O = 17 00 52.7 ± 0.05s
LAT = 38.45 N ± 1.09km
LONG = 45.17 E ± 0.59km
DEPTH = 35 km ± 0.03km
STATIONS USED = 18, STAND DEV = 0.81s

WMQ	32.2	67	P	17 07 21.0	0.7
GTA	42.0	71	eP	17 08 43.0	0.4
KMI	50.0	88	+P	17 09 46.5	0.3
XAN	50.7	74	+P	17 09 51.0	−0.5
GYA	52.4	84	P	17 10 03.6	−0.7

1986 7 12
O = 19 29 40.3 ± 0.17s
LAT = 39.45 N ± 3.01km

LONG= 74.36 E ± 1.28km
DEPTH= 22 km ± 2.51km
STATIONS USED = 12, STAND DEV= 3.56s
M_L=4.0/ 3,

KSH	1.3	89	Pg	19 30 00.6	−2.2		
			Sg	19 30 15.6	−4.4		
			SMN	M_L=4.0		0.6	2.70
			SME			0.5	2.90
WMQ	10.9	62	P	19 32 18.0	−0.4		
			LN			2.0	0.030
GTA	19.6	82	eP	19 34 11.4	0.6		

1986 7 12
O=20 19 31.6 ± 0.20s
LAT=38.60 N ± 1.30km
LONG= 76.64 E ± 1.31km
DEPTH= 33 km ± 0.35km
STATIONS USED = 5, STAND DEV= 4.14s
M_L=3.7/ 4,

KSH	1.0	329	−iPn	20 19 48.9	−1.0		
			Sn	20 20 05.4	1.5		
			SMN	M_L=3.8		0.2	2.40
			SME			0.2	2.30

1986 7 12
O=23 22 47.5 ± 0.30s
LAT= 2.42 N ± 3.90km
LONG=128.49 E ± 5.79km
DEPTH= 32 km ± 0.20km
STATIONS USED = 27, STAND DEV= 2.98s

GZH	25.3	326	+P	23 28 13.0	0.4
NJ2	30.8	344	eP	23 29 04.5	1.2
WHN	31.0	336	eP	23 29 12.0	7.2
XAN	36.4	332	eP	23 29 50.0	−1.2
DL2	36.8	351	eP	23 30 03.7	8.6
TIY	38.1	339	eP	23 30 05.0	−0.6
BJI	39.1	345	eP	23 30 13.0	−0.7
SNY	39.5	354	eP	23 30 16.8	−0.2
LZH	40.5	329	eP	23 30 26.5	0.6
LSA	44.6	311	eP	23 30 58.2	−1.5
GTA	45.1	328	eP	23 31 02.6	−0.8
WMQ	54.8	325	P	23 32 16.6	−0.7

1986 7 13
O=00 48 45.0 ± 0.18s
LAT=30.00 N ± 4.00km
LONG= 51.33 E ± 2.41km
DEPTH= 11 km ± 0.18km
STATIONS USED = 36, STAND DEV= 2.37s
Ms=5.0/ 8,

KSH	22.3	58	eP	00 53 44.4	0.1		
			S	00 57 53.4	9.7		
			LN	Ms=5.2		9.0	2.80
WMQ	31.9	54	P	00 55 14.5	1.2		
			eS	01 00 21.0	−2.3		
GTA	40.5	63	P	00 56 26.5	0.0		
			LE	Ms=4.7		14.0	0.52
CD2	44.9	75	P	00 57 00.8	−0.9		
KMI	45.5	83	−P	00 57 08.5	1.3		
BTO	48.3	61	eP	00 57 28.4	−0.2		
			eS	01 04 25.0	−2.5		
			LN	Ms=5.0		16.0	0.50
			LE			16.0	0.60
XAN	48.5	70	eP	00 57 28.4	−1.6		
GYA	48.5	80	P	00 57 29.0	−1.4		
TIA	54.5	65	eP	00 58 15.2	−0.7		
DL2	57.4	61	eP	00 58 35.5	−0.7		
CN2	59.0	54	+P	00 58 48.0	0.2		
			eS	01 06 51.0	−1.9		
			LE	Ms=5.1		18.0	0.80

1986 7 13
O=09 12 13.0 ± 0.07s
LAT=16.26 N ± 1.68km
LONG= 93.48 W ± 3.06km
DEPTH=100 km
STATIONS USED = 26, STAND DEV= 2.25s

WMQ	120.2	359	cPKP	09 30 53.0	−0.5		
			PP	09 32 19.5	−3.5		
			PPMZ			2.0	0.090
			eSS	09 48 46.0	7.0		
			LN			28.0	1.19
GTA	123.2	348	cPKP	09 31 03.0	3.5		
			PP	09 32 36.0	−8.4		
			LE			16.0	0.42
XAN	125.6	337	cPKP	09 31 04.7	0.7		
GYA	133.2	335	PKP	09 31 24.2	5.5		
LSA	134.1	354	cPKP	09 31 21.3	0.7		

1986 7 13
O=10 14 38.0 ± 0.21s
LAT=28.09 S ± 1.93km
LONG= 71.10 W ± 3.19km
DEPTH= 56 km ± 1.72km
STATIONS USED = 26, STAND DEV= 1.94s

KSH	150.5	59	cPKP	10 34 26.0	7.1
MDJ	156.7	320	−PKP	10 34 25.7	−1.6
WMQ	156.8	42	cPKP	10 34 28.0	0.4
GTA	166.4	31	PKP	10 34 38.5	0.7
TIA	169.3	321	cPKP	10 34 40.6	1.2

XAN	174.1	360	PKP	10 34 42.8	0.5		

1986 7 13
O = 13 47 07.3 ± 0.17s
LAT = 32.96 N ± 3.02km
LONG = 117.89 W ± 3.69km
DEPTH = 10 km ± 1.12km
STATIONS USED = 51, STAND DEV = 2.34s
Ms = 5.9 / 26, m_B = 6.2 / 17

MDJ	81.4	318	eP	13 59 24.1	−2.7		
			PcP	13 59 31.0	−1.2		
			PP	14 02 28.0	−6.1		
			S	14 09 30.0	−5.6		
			SKS	14 09 38.0	−2.6		
			ScS	14 09 48.0	−3.4		
			PS	14 10 15.0			
CN2	84.2	319	+P	13 59 40.3	−1.0		
			PMZ	m_B = 6.2		5.0	1.10
			PP	14 02 58.0	1.5		
			PPMZ			7.0	0.70
			eS	14 10 07.0	1.2		
			SMN	m_B = 5.8		9.0	0.50
			SME			9.0	0.50
			LE	Ms = 5.7		15.0	1.40
SNY	86.6	319	+P	13 59 53.5	0.6		
			PMZ	m_B = 6.3		8.0	2.28
			PP	14 03 17.0	1.1		
			S	14 10 25.0	−1.9		
			SS	14 16 20.0	9.4		
			LN	Ms = 5.9		20.0	1.21
			LE			20.0	2.75
DL2	89.7	318	+P	14 00 07.0	−0.6		
			PMZ	m_B = 6.2		6.0	1.07
			eS	14 10 55.0	−2.4		
			LN	Ms = 5.7		15.0	0.75
			LE			15.0	1.29
BJI	91.8	322	eP	14 00 17.0	−0.7		
			PMZ	m_B = 6.0		7.0	0.63
			ePP	14 04 00.0	1.9		
			eSKS	14 10 54.0	6.4		
			eS	14 11 20.0	3.3		
			SMN	m_B = 5.5		9.0	0.39
			PS	14 12 34.0			
			eSS	14 17 32.0	6.0		
			LN	Ms = 5.5		16.0	0.88
HHC	93.5	325	P	14 00 26.5	0.8		
			PP	14 04 14.0	2.0		
			S	14 11 32.0	2.0		
			sS	14 11 42.0	1.0		
			LE	Ms = 5.7		16.0	1.41
TIA	94.1	318	eP	14 00 27.8	−0.3		
			ePP	14 04 10.0	−6.3		
			eS	14 11 43.0	6.4		
			LN	Ms = 5.9		16.0	2.35
BTO	94.5	325	P	14 00 30.0	0.0		
			sP	14 00 38.0	0.0		
			PP	14 04 21.0	1.9		
			eSKS	14 11 03.0	0.6		
			S	14 11 39.0	0.9		
			LN	Ms = 5.9		16.0	2.10
			LE			17.0	1.10
SSE	95.3	312	P	14 00 33.0	−0.6		
			PMZ	m_B = 6.5		5.0	0.64
			PP	14 04 25.0	0.2		
			sS	14 11 54.0	−2.1		
			LN	Ms = 6.5		15.0	0.82
			LE			15.0	7.29
TIY	95.5	322	+P	14 00 35.0	0.3		
			PMZ	m_B = 6.6		7.0	1.01
			PP	14 04 29.5	2.9		
			PPMZ	m_B = 5.9		12.0	0.55
			S	14 11 53.5	6.8		
			LN	Ms = 5.9		14.0	1.30
			LE			14.0	1.13
NJ2	96.1	314	eP	14 00 39.0	1.9		
			LN	Ms = 5.9		13.0	1.70
WHN	99.8	316	eP	14 00 58.0	3.9		
			SKS	14 11 34.0	3.8		
			LN	Ms = 5.6		15.0	0.85
GTA	100.0	331	eP	14 00 54.8	−0.2		
			PMZ	m_B = 6.3		7.0	0.38
			PP	14 04 59.0	−2.2		
			PPMZ	m_B = 6.2		7.0	0.61
			S	14 12 25.0	0.7		
			LN	Ms = 5.9		19.0	2.09
WMQ	100.1	341	−P	14 00 58.2	2.7		
			PP	14 05 06.0	3.7		
			LE	Ms = 5.8		30.0	2.98
XAN	100.1	322	eP	14 00 51.0	−4.7		
			LN	Ms = 5.9		13.0	1.43
LZH	101.0	327	P	14 01 02.0	2.4		
			eS	14 12 28.0	−7.1		
			LN	Ms = 6.5		12.0	0.77
			LE			12.0	5.00

1986 7 14
O = 04 32 50.7 ± 0.14s
LAT = 7.47 S ± 1.83km
LONG = 128.49 E ± 2.92km
DEPTH = 181 km ± 0.52km

STATIONS USED = 60, STAND DEV = 1.68s							
GZH	33.8	334	−iP	04 39 18.0	0.3		
SSE	39.0	350	+iP	04 40 02.0	0.7		
			PMZ			1.0	0.58
WHN	40.2	341	P	04 40 12.0	1.0		
NJ2	40.4	347	+P	04 40 13.4	0.7		
KMI	41.0	323	+P	04 40 19.5	1.6		
TIA	44.7	347	eP	04 40 47.8	−0.4		
CD2	44.9	329	eP	04 40 50.0	0.4		
XAN	45.3	337	+iP	04 40 51.0	−1.3		
TIY	47.4	343	+P	04 41 09.0	0.0		
BJI	48.6	347	eP	04 41 18.5	0.1		
			PcP	04 42 42.0	1.1		
LZH	49.1	333	+P	04 41 22.5	−0.1		
			PMZ			1.5	0.070
SNY	49.3	355	eP	04 41 22.9	−0.4		
HHC	50.5	343	eP	04 41 33.0	−0.2		
BTO	50.8	342	eP	04 41 33.8	−1.1		
CN2	51.1	357	eP	04 41 31.8	−5.5		
LSA	51.5	318	+P	04 41 40.1	−0.8		
MDJ	51.9	1	eP	04 41 43.2	0.3		
WMQ	63.0	328	P	04 43 00.8	−0.3		

1986 7 14

O = 12 02 29.9 ± 0.09s

LAT = 2.10 S ± 1.12km

LONG = 139.04 E ± 1.94km

DEPTH = 43 km ± 0.64km

STATIONS USED = 36, STAND DEV = 1.39s

WHN	40.1	326	eP	12 10 02.5	−0.9		
GYA	42.2	314	P	12 10 22.6	1.5		
BJI	46.9	336	eP	12 10 58.0	−0.2		
			eS	12 17 48.0	3.1		
CN2	47.3	347	eP	12 11 00.8	−0.7		
HHC	49.5	333	eP	12 11 20.0	0.9		
BTO	50.1	331	eP	12 11 23.2	0.0		
			eS	12 18 36.0	5.9		
LZH	50.2	323	eP	12 11 24.0	−0.2		
WMQ	64.7	321	eP	12 13 06.5	−0.3		

1986 7 14

O = 20 14 49.0 ± 0.15s

LAT = 12.34 N ± 2.14km

LONG = 144.26 E ± 3.15km

DEPTH = 30 km ± 0.31km

STATIONS USED = 72, STAND DEV = 1.70s

Ms = 4.9 / 20,

QZH	27.3	301	cP	20 20 30.0	−3.3		
			cS	20 25 03.0	−6.4		
			LE	Ms = 4.6		16.0	0.81
SSE	28.3	315	P	20 20 42.0	−0.5		
			PP	20 21 30.0	−3.4		
			sS	20 25 36.0	−4.1		
			LE	Ms = 4.7		14.0	0.94
NJ2	30.5	314	+P	20 21 01.5	−0.4		
			cS	20 25 57.0	−3.3		
			LN	Ms = 4.7		14.0	0.80
WHN	33.1	308	cP	20 21 24.0	−0.4		
			PP	20 22 32.0	−3.0		
			cS	20 26 37.0	−3.5		
			LN	Ms = 4.9		16.0	0.84
			LE			18.0	0.92
DL2	33.2	327	eP	20 21 32.8	6.9		
TIA	34.1	319	P	20 21 33.6	0.3		
			PP	20 22 43.0	−4.4		
			S	20 26 54.6	−1.0		
			LN	Ms = 5.1		17.0	0.55
			LE			17.0	1.96
SNY	34.5	332	eP	20 21 33.7	−3.0		
			pP	20 21 42.0	−3.5		
			PP	20 22 55.0	2.6		
			PPMZ			9.0	0.40
			SMN			22.0	1.00
			SME			22.0	0.62
			LN	Ms = 4.9		18.0	1.01
			LE			17.0	0.64
MDJ	34.5	341	eP	20 21 36.1	−1.1		
			PP	20 22 53.5	0.2		
			S	20 27 04.0	1.4		
			ScS	20 31 55.0	0.6		
CN2	35.3	336	eP	20 21 43.0	−0.7		
			cPP	20 23 07.0	4.0		
			PPMZ			7.0	0.50
			eS	20 27 10.0	−5.2		
			ScP	20 27 58.6	3.0		
			LE	Ms = 4.9		16.0	1.00
BJI	37.1	323	eP	20 21 58.0	−0.6		
			cPP	20 23 28.0	2.8		
			eS	20 27 40.0	−2.5		
			LN	Ms = 5.0		20.0	1.20
			LE			19.0	1.08
GYA	38.0	297	P	20 22 07.6	1.1		
			S	20 27 57.0	1.5		
			sS	20 28 07.0	−4.1		
TIY	38.0	317	P	20 22 06.8	0.0		
			PP	20 23 42.5	5.9		
			S	20 28 04.0	7.9		
			LN	Ms = 4.9		17.0	0.62
			LE			17.0	0.93
XAN	38.7	310	eP	20 22 11.8	−0.7		

			PcP	20 24 25.3	1.4		
			eS	20 28 03.0	−4.7		
			LN	Ms=4.9		17.0	0.68
			LE			18.0	0.80
KMI	41.2	294	+P	20 22 34.0	1.0		
CD2	41.7	303	eP	20 22 37.0	0.1		
			eS	20 28 49.0	−2.7		
			LE	Ms=5.0		18.0	1.08
LZH	43.4	310	+iP	20 22 51.0	0.1		
LSA	52.0	298	+P	20 23 58.5	−0.5		
WMQ	57.6	314	+iP	20 24 39.0	0.0		
			PcP	20 25 32.8	1.7		
			PP	20 26 47.0	−0.5		
			eS	20 32 36.0	2.4		
			ScS	20 34 28.2	6.6		
KSH	65.5	308	P	20 25 34.9	2.4		

1986 7 14

O=23 35 45.2 ± 0.14s
LAT=28.21 N ± 2.75km
LONG=140.81 E ± 2.08km
DEPTH= 35 km ± 0.40km
STATIONS USED = 27, STAND DEV= 2.04s
Ms=4.3/ 7, m_B=5.1/ 13

DL2	19.2	309	P	23 40 10.0	1.1		
			PMZ	m_B=5.0		6.0	0.50
			esP	23 40 24.0	2.4		
			SME	m_B=5.1		7.0	0.55
NJ2	19.4	287	+P	23 40 11.0	0.0		
			PMZ	m_B=5.2		7.0	0.80
			SMN	m_B=5.3		6.5	0.80
			LN	Ms=4.3		14.0	0.60
CN2	19.9	326	+P	23 40 17.0	0.6		
			eS	23 44 00.0	6.8		
			LN	Ms=4.4		10.0	0.50
QZH	20.1	266	eP	23 40 16.0	−3.3		
			eS	23 44 05.0	6.1		
			SME	m_B=6.5		5.0	8.36
TIA	21.5	298	eP	23 40 32.0	−1.7		
			PMZ	m_B=5.1		6.0	0.61
			S	23 44 34.0	9.1		
			SME	m_B=5.3		6.0	0.61
			LE	Ms=4.1		10.0	0.25
WHN	23.2	282	P	23 40 51.0	1.2		
			PMZ	m_B=5.4		5.0	0.79
			PP	23 41 25.0	4.8		
			eS	23 45 04.0	8.9		
			SMN	m_B=5.0		7.0	0.35
			LN	Ms=4.3		10.0	0.37
BJI	23.5	307	eP	23 40 53.0	0.1		
			eS	23 45 08.5	7.7		
			SMN	m_B=4.9		8.0	0.27
GZH	25.3	265	P	23 40 54.5	−15.1		
TIY	25.5	299	eP	23 41 13.1	0.2		
			LN	Ms=4.3		13.0	0.40
HHC	27.1	305	eP	23 41 29.0	2.0		
XAN	27.8	290	eP	23 41 31.0	−3.0		
GYA	30.3	275	P	23 42 00.8	4.5		
CD2	32.3	284	eP	23 42 09.4	−3.8		
GTA	35.6	299	eP	23 42 40.2	−1.7		
WMQ	44.9	305	P	23 43 57.5	−1.7		

1986 7 15

O=01 16 14.6 ± 0.09s
LAT=41.64 N ± 0.45km
LONG=125.98 E ± 0.66km
DEPTH= 25 km ± 0.92km
STATIONS USED = 7, STAND DEV= 3.72s
M_L=3.6/ 6,

SNY	1.8	277	+iPg	01 16 46.4	−0.4		
			Sg	01 17 08.8	−2.9		
			SMN	M_L=3.6		0.4	0.56
			SME			0.4	0.59
CN2	2.2	350	cPn	01 16 50.2	0.1		
			Pg	01 16 54.2	0.6		
			eSn	01 17 16.2	−1.9		
			Sg	01 17 21.8	−1.9		
			SMN	M_L=3.5		0.5	0.22
			SME			0.5	0.42
MDJ	4.0	40	ePg	01 17 28.4	3.4		
			Sn	01 18 06.8	4.5		
			SMN	M_L=4.7		1.5	1.80
DL2	4.3	232	ePg	01 17 57.5	26.7		
			SMN	M_L=3.6		0.7	0.12
			SME			0.7	0.11

1986 7 15

O=09 32 35.4 ± 0.07s
LAT=38.81 N ± 1.22km
LONG= 74.94 E ± 1.00km
DEPTH= 33 km ± 0.48km
STATIONS USED = 26, STAND DEV= 1.94s
Ms=4.3/ 4, M_L=4.4/ 2,

KSH	1.0	51	+iPg	09 32 54.2	−0.4		
			Sg	09 33 10.2	1.0		
WMQ	10.8	58	P	09 35 10.0	−1.3		
			LN			1.4	0.11
LSA	16.2	119	eP	09 36 25.0	2.6		
GTA	19.3	80	−iP	09 37 01.6	0.9		
			LE	Ms=4.2		9.0	0.32

1986 7 15
O=14 39 34.6 ± 0.08s
LAT= 1.96 N ± 1.19km
LONG=126.51 E ± 2.21km
DEPTH= 43 km ± 0.11km
STATIONS USED = 59, STAND DEV= 1.26s

GZH	24.6	330	P	14 44 52.0	−0.2		
WHN	30.7	339	eP	14 45 54.0	6.2		
NJ2	30.8	347	−P	14 45 49.2	0.4		
KMI	32.5	317	+P	14 46 04.5	0.4		
XAN	35.9	335	P	14 46 31.6	−1.5		
CD2	36.0	326	eP	14 46 33.0	−0.6		
DL2	37.0	354	+P	14 46 43.4	0.7		
TIY	37.9	342	eP	14 46 49.1	−0.6		
BJI	39.1	347	eP	14 46 58.0	−1.4		
SNY	39.8	357	+iP	14 47 06.6	1.1		
LZH	39.9	331	eP	14 47 07.5	0.6		
			PMZ			1.7	0.060
BTO	41.3	341	eP	14 47 17.9	0.0		
CN2	41.7	359	eP	14 47 20.4	−0.8		
MDJ	42.6	3	eP	14 47 29.0	0.5		
LSA	43.5	313	−P	14 47 35.6	−0.6		
GTA	44.5	330	P	14 47 43.7	−0.7		
WMQ	54.1	326	+P	14 48 57.4	−0.4		
KSH	59.1	316	eP	14 49 36.0	2.1		

1986 7 15
O=23 03 39.2 ± 0.48s
LAT=44.44 N ± 5.20km
LONG= 96.22 E ± 4.14km
DEPTH= 31 km ± 0.38km
STATIONS USED = 6, STAND DEV= 4.70s
M_L=3.9 / 6,

GTA	5.7	151	Pn	23 05 05.6	3.2		
			Sn	23 06 05.7	−2.8		
			SMN	M_L=3.4		0.8	0.030
			SME			0.8	0.030
WMQ	6.2	267	cP*	23 05 17.0	−3.2		
			SMN	M_L=3.9		0.8	0.080

1986 7 16
O=12 41 28.8 ± 0.14s
LAT=19.40 S ± 1.58km
LONG=169.18 E ± 1.58km
DEPTH=115 km ± 0.58km
STATIONS USED = 91, STAND DEV= 0.94s
m_B=6.6 / 46

QZH	66.1	310	−iP	12 52 06.0	−0.2		
			PMZ	m_B=6.3		5.0	2.52
			sP	12 52 47.0	0.1		
			iS	13 00 45.0	1.0		
			sS	13 01 35.0	2.8		
			LN			15.0	2.04
			LE			15.0	4.30
SSE	68.1	317	−iP	12 52 18.0	−1.2		
			PMZ	m_B=6.7		6.0	7.67
			PcP	12 52 40.0	−3.6		
			epP	12 52 50.0	2.9		
			sP	12 53 00.0	0.0		
			PP	12 54 58.0	5.7		
			PPMZ			4.0	2.36
			ScP	12 56 26.0	−8.9		
			PcS	12 56 52.0	5.0		
			eS	13 01 10.0	1.0		
			sS	13 01 58.0	0.6		
			SS	13 05 35.0	1.1		
			LN			12.0	0.79
			LE			12.0	1.17
GZH	68.9	305	−P	12 52 24.7	0.6		
			PMZ	m_B=6.9		6.0	10.7
			sP	12 53 05.0	0.2		
			PP	12 54 54.0	−5.5		
			S	13 01 22.0	4.9		
			sS	13 02 10.0	3.2		
			LN			42.0	4.80
			LE			36.0	6.76
NJ2	70.3	316	−iP	12 52 32.0	−0.3		
			PMZ	m_B=6.8		7.0	10.1
			sP	12 53 14.0	0.8		
			iS	13 01 37.0	2.9		
			SMN	m_B=6.5		9.0	6.00
			sS	13 02 23.0	0.3		
WHN	72.4	312	P	12 52 44.5	−0.5		
			PMZ			1.5	0.52
			pP	12 53 16.0	2.8		
			S	13 01 56.0	−1.2		
			SMN	m_B=6.0		12.0	2.18
			LE			12.0	7.48
DL2	73.1	323	−iP	12 52 48.5	−0.6		
			PMZ	m_B=6.8		6.0	9.66
			PcP	12 53 04.0	−0.5		
			pP	12 53 16.0	−1.3		
			sP	12 53 27.0	−3.0		
			PP	12 55 31.0	−3.9		
			S	13 02 07.0	2.0		
			SMN	m_B=6.3		10.0	2.54
			SME			8.0	2.17
			sS	13 02 57.0	1.5		
			LN			16.0	5.06

			LE			16.0	5.13
MDJ	73.2	332	−P	12 52 49.7	−0.1		
			PcP	12 53 05.0	−0.1		
			pP	12 53 18.0	−0.1		
			sP	12 53 30.0	−0.8		
			S	13 02 12.5	6.1		
			SMN			14.0	5.18
			SKS	13 02 42.0	2.7		
			sS	13 03 00.0	3.1		
			SS	13 07 02.5	9.6		
TIA	74.0	318	−P	12 52 54.3	−0.2		
			PMZ	$m_B = 6.5$		7.0	6.32
			sP	12 53 34.5	−1.0		
			PP	12 55 48.0	5.8		
			PPMZ			8.0	1.58
			eS	13 02 15.0	−1.7		
			SMN	$m_B = 6.0$		8.0	1.05
			SME			10.0	1.37
			eScS	13 02 51.0	1.5		
			LE			17.0	6.52
SNY	74.1	326	−iP	12 52 54.0	−0.8		
			PMZ	$m_B = 6.8$		6.0	10.7
			sP	12 53 37.0	1.1		
			PP	12 55 39.0	−3.7		
			S	13 02 17.0	1.2		
			SMN	$m_B = 6.3$		9.0	3.08
			SS	13 07 12.0	6.5		
CN2	74.6	329	−iP	12 52 56.8	−0.8		
			PMZ	$m_B = 6.8$		6.0	9.90
			sP	12 53 39.0	0.4		
			cPP	12 55 42.0	−5.1		
			PPMZ			7.0	3.20
			S	13 02 24.0	2.9		
			SMN	$m_B = 6.1$		10.0	2.20
			ScS	13 02 56.0	2.2		
			eSS	13 07 14.0	1.5		
			LE			18.0	5.50
GYA	75.9	305	−P	12 53 05.2	0.1		
			PMZ	$m_B = 6.6$		7.0	8.30
			sP	12 53 46.0	0.0		
			PP	12 55 57.0	−0.9		
			S	13 02 34.0	−1.5		
			LE			17.0	4.50
BJI	77.0	321	−iP	12 53 11.5	0.0		
			PMZ	$m_B = 6.8$		6.0	10.1
			pP	12 53 40.0	0.1		
			sP	12 53 54.0	1.5		
			cS	13 02 54.0	4.4		
			SMN	$m_B = 6.6$		8.0	3.58
			SME			7.0	1.85
			cSKS	13 03 14.0		7.0	
			LN			14.0	4.49
			LE			15.0	3.36
TIY	77.9	317	−iP	12 53 16.5	0.0		
			PMZ			1.4	1.00
			pP	12 53 48.5	3.7		
			sP	12 53 59.5	2.0		
			iS	13 03 04.5	5.2		
			SMN	$m_B = 6.5$		8.0	3.50
			SME			10.0	1.69
			ScS	13 03 25.5	4.7		
			sS	13 03 57.0	8.3		
			LN			18.0	5.98
			LE			18.0	4.09
XAN	78.2	313	−iP	12 53 18.0	0.1		
			PMZ	$m_B = 6.8$		6.0	11.2
			pP	12 53 47.0	0.7		
			sP	12 53 58.0	−1.0		
			PP	12 56 15.5	−1.9		
			iS	13 03 06.0	3.9		
			SMN	$m_B = 6.5$		8.0	3.29
			SME			10.0	1.91
			ScS	13 03 30.0	7.1		
KMI	78.3	302	−iP	12 53 20.0	1.2		
			PMZ	$m_B = 6.7$		6.0	8.90
			ipP	12 53 50.0	3.0		
			isP	12 54 01.0	1.3		
			PP	12 56 22.5	4.0		
			S	13 03 08.0	6.2		
			SMN	$m_B = 6.7$		6.0	3.70
			SKS	13 03 22.0	5.7		
			isS	13 03 59.0	6.0		
CD2	80.3	308	−iP	12 53 29.8	0.5		
			sP	12 54 11.7	1.3		
			PPMZ			7.0	4.90
			iS	13 03 28.0	3.5		
			SMN	$m_B = 6.8$		8.0	6.90
			sS	13 04 17.0	3.0		
HHC	80.3	319	−iP	12 53 30.0	0.5		
			PMZ	$m_B = 6.6$		6.0	6.93
			pP	12 53 59.0	1.1		
			sP	12 54 11.0	0.5		
			S	13 03 25.0	2.1		
			SMN	$m_B = 6.5$		8.0	3.13
BTO	81.1	319	+iP	12 53 34.0	0.2		
			PMZ	$m_B = 6.6$		7.0	7.40
			sP	12 54 13.0	−1.8		
			PP	12 56 40.0	−1.7		
			S	13 03 31.0	−0.3		
			SKS	13 03 39.0	2.8		

			SS	13 08 50.0	−1.1		
			LN			16.0	3.10
			LE			16.0	2.70
LZH	82.8	312	−iP	12 53 43.5	1.0		
			PMZ			3.0	6.02
			pP	12 54 14.0	3.0		
			sP	12 54 25.0	1.4		
			PP	12 56 47.0	−8.0		
			eS	13 03 53.0	2.7		
			SKS	13 03 52.0	4.2		
GTA	87.2	313	−iP	12 54 04.6	0.3		
			pP	12 54 33.4	0.3		
			sP	12 54 46.5	0.9		
			PP	12 57 29.0	−1.7		
			SKS	13 04 18.0	0.8		
			S	13 04 31.5	0.3		
			sS	13 05 13.5	−9.8		
			SS	13 10 14.0	−6.3		
			LN			16.0	2.95
LSA	89.6	302	−P	12 54 15.0	−0.8		
			PMZ	$m_B = 6.5$		6.0	2.85
			sP	12 54 58.0	1.1		
			SME			16.0	3.89
WMQ	97.3	314	−iP	12 54 50.6	−0.3		
			pP	12 55 20.3	0.3		
			sP	12 55 34.0	1.6		
			PP	12 58 50.0	−0.1		
			iSKS	13 05 17.0	2.3		
			S	13 06 08.5	8.6		
			SMN	$m_B = 6.9$		7.0	3.43
			SME			8.0	6.49
			LE			26.0	6.49

1986 7 16

O = 22 03 09.9 ± 0.10s
LAT = 31.07 N ± 1.56km
LONG = 78.07 E ± 1.46km
DEPTH = 32 km ± 0.21km
STATIONS USED = 90, STAND DEV = 1.56s
Ms = 5.3 / 40, M_L = 5.5 / 1, m_B = 5.6 / 4

KSH	8.5	349	+iP	22 05 16.0	1.6		
			pP	22 05 21.0	0.0		
			S	22 06 48.0	−2.3		
			LE			0.5	2.90
LSA	11.4	94	cP	22 05 49.8	−4.1		
			S	22 07 54.2	−6.0		
			SMN			1.2	0.43
			LN	Ms = 5.4		8.5	10.2
			LE			9.0	8.59
WMQ	14.8	28	+iP	22 06 37.5	−1.9		
			pP	22 06 43.3	−3.0		
			PP	22 06 50.0	−1.2		
			S	22 09 28.0	5.1		
			LN	Ms = 5.9		22.0	46.9
			LE			22.0	41.0
GTA	19.6	59	+iP	22 07 37.9	−0.5		
			PMZ	$m_B = 5.7$		4.0	1.51
			S	22 11 17.5	5.9		
			sS	22 11 26.0	2.2		
			LE	Ms = 5.5		13.0	10.1
CD2	22.0	84	P	22 08 04.8	1.3		
			sP	22 08 13.0	−3.2		
			S	22 12 05.0	6.1		
			SS	22 12 44.0	5.8		
			LN	Ms = 5.3		10.0	3.93
LZH	22.0	70	+iP	22 08 04.5	0.8		
			PMZ			2.0	1.72
			pP	22 08 10.0	−2.2		
			eS	22 12 04.0	3.8		
			SMN	$m_B = 5.7$		5.0	1.15
			LN	Ms = 5.2		11.0	2.30
			LE			10.0	2.40
KMI	22.5	99	+P	22 08 09.0	0.2		
			sP	22 08 23.0	1.7		
			eS	22 12 07.0	−2.6		
			sS	22 12 21.0	−2.2		
			LE	Ms = 5.0		13.0	2.60
GYA	25.5	93	+P	22 08 38.0	1.0		
			pP	22 08 45.0	−0.6		
			PcP	22 12 10.0	1.4		
			S	22 13 01.0	2.2		
			sS	22 13 11.0	−3.0		
			ScP	22 15 45.6	1.6		
			LN	Ms = 5.2		11.0	2.80
XAN	26.1	75	+iP	22 08 43.0	−0.2		
			eS	22 13 20.0	9.2		
			LN	Ms = 5.6		13.0	3.14
			LE			14.0	8.00
BTO	27.5	61	+iP	22 08 56.0	0.4		
			sP	22 09 07.0	−1.3		
			cPP	22 09 43.0	−0.1		
			S	22 13 33.0	1.3		
			sS	22 13 44.0	−3.3		
			LN	Ms = 5.4		14.0	2.10
			LE			14.0	4.20
HHC	28.7	61	+P	22 09 07.5	1.1		
			S	22 13 53.0	2.0		
			LN	Ms = 5.5		14.0	1.75
			LE			15.0	5.28
TIY	29.0	67	P	22 09 09.3	−0.1		

			PMZ			1.3	0.050
			S	22 13 59.5	3.1		
			LN	Ms = 5.4		13.0	1.83
			LE			12.0	3.08
WHN	31.1	81	+P	22 09 28.0	0.2		
			PMZ			1.0	0.36
			eS	22 14 29.0	−1.0		
			LN	Ms = 5.6		9.0	3.75
BJI	32.1	63	+iP	22 09 38.0	1.6		
			PcP	22 12 26.5	1.5		
			ScP	22 16 06.0	1.3		
			eS	22 14 44.0	−1.5		
			PcS	22 16 10.0	1.5		
			eScS	22 20 04.0	2.0		
			LE	Ms = 5.2		17.0	2.82
GZH	32.3	96	−P	22 09 38.0	−0.4		
			eS	22 14 50.0	0.9		
			LN	Ms = 5.3		10.0	1.10
			LE			10.0	1.50
TIA	32.8	70	+P	22 09 42.7	0.2		
			eS	22 14 56.0	−0.4		
			LN	Ms = 5.2		12.0	0.86
			LE			13.0	1.69
NJ2	34.6	78	+P	22 09 59.0	0.5		
			PcP	22 12 33.4	1.2		
			S	22 15 28.0	3.6		
			ScP	22 16 16.0	2.3		
			LN	Ms = 5.6		9.0	3.00
QZH	36.2	89	cP	22 10 11.5	0.0		
			eS	22 15 45.0	−3.8		
			sS	22 15 58.0	−5.9		
			LN	Ms = 5.0		12.0	0.57
			LE			12.0	0.82
DL2	36.3	65	+P	22 10 12.9	0.5		
			eS	22 15 55.0	4.6		
			LN	Ms = 5.3		16.0	1.90
			LE			12.0	1.02
SSE	36.8	78	+P	22 10 17.0	0.4		
			PMZ			1.0	0.10
			PP	22 11 48.0	6.1		
			PcP	22 12 39.4	1.0		
			S	22 16 00.0	2.8		
			sS	22 16 08.0	−5.2		
			LN	Ms = 5.0		14.0	1.05
SNY	37.8	61	+iP	22 10 25.7	0.7		
			pP	22 10 31.0	−3.2		
			PcP	22 12 42.8	1.3		
			eS	22 16 09.0	−4.4		
			LN	Ms = 5.5		12.0	1.05
			LE			16.0	3.41
CN2	39.2	57	+iP	22 10 37.5	0.4		
			PMZ			2.0	0.90
			pP	22 10 44.0	−2.3		
			ePP	22 12 09.0	−2.3		
			PcP	22 12 46.0	0.0		
			eS	22 16 36.0	0.6		
			ScP	22 16 32.0	1.4		
			LE	Ms = 5.5		12.0	2.80
MDJ	42.2	56	+P	22 11 03.0	1.1		
			pP	22 11 09.0	−2.1		
			PP	22 12 42.0	−0.9		
			S	22 17 16.0	−3.1		
			SS	22 20 20.0	−2.6		

1986 7 17
O = 00 03 36.5 ± 0.18s
LAT = 24.88 N ± 0.88km
LONG = 121.61 E ± 1.57km
DEPTH = 31 km ± 0.13km
STATIONS USED = 18, STAND DEV = 1.68s
Ms = 3.9 / 5, M_L = 4.0 / 7,

QZH	2.7	272	cPn	00 04 17.0	−1.8		
			Sn	00 04 52.5	0.2		
			SMN	M_L = 3.9		0.5	0.86
			SME			0.1	0.31
			LN			10.0	2.63
			LE			10.0	1.16
SSE	6.2	357	cPn	00 05 07.2	0.9		
			LG_1	00 06 55.1	3.9		
			LG_2	00 07 07.0	6.0		
			LE	Ms = 3.9		12.0	1.46
NJ2	7.5	342	cPn	00 05 25.5	0.8		
			eSn	00 06 50.5	−0.7		
			LE	Ms = 3.8		11.0	0.70
GZH	7.8	258	cPn	00 05 29.0	1.2		
			Sn	00 06 54.0	−2.8		
			LN	Ms = 4.2		11.0	1.77

1986 7 17
O = 05 01 53.6 ± 0.10s
LAT = 10.03 N ± 2.25km
LONG = 57.12 E ± 1.56km
DEPTH = 10 km ± 0.02km
STATIONS USED = 13, STAND DEV = 1.91s

XAN	53.0	55	cP	05 11 13.2	−0.1
BJI	60.0	49	cP	05 12 03.5	−0.1

1986 7 17
O = 08 15 32.6 ± 0.19s
LAT = 43.47 N ± 2.63km

LONG= 77.98 E ± 2.94km
DEPTH= 12 km ± 0.83km
STATIONS USED = 43, STAND DEV= 2.61s
Ms=4.1/ 4, M_L=4.7/ 6,

KSH	4.3	201	−Pn	08 16 42.0	3.8		
			Sn	08 17 30.0	0.0		
			SMN	M_L=5.6		0.5	12.0
WMQ	7.1	84	+iPn	08 17 18.5	2.1		
			Sn	08 18 38.5	−0.4		
			LG_2	08 19 31.0	5.4		
GTA	16.9	96	P	08 19 27.4	−3.2		
			LG_1	08 24 21.0	−1.2		
			LE	Ms=4.1		10.0	0.40
LSA	17.3	138	−P	08 19 36.2	−0.4		
LZH	21.2	102	eP	08 20 19.0	−1.5		
BTO	23.9	86	eP	08 20 48.6	1.0		
CD2	24.0	113	eP	08 20 49.0	0.9		
HHC	24.9	84	P	08 21 00.2	2.4		
XAN	25.8	101	eP	08 21 05.0	−0.6		
TIY	26.7	91	eP	08 21 14.4	0.6		
			(S)	08 25 43.0	−4.1		
			LE	Ms=4.0		12.0	0.18
BJI	28.5	84	P	08 21 42.0	11.8		
GYA	28.8	117	eP	08 21 33.0	−0.2		
WHN	31.5	102	eP	08 21 52.5	−4.8		

1986 7 17
O=12 59 50.2 ± 0.15s
LAT= 9.70 S ± 1.68km
LONG=152.47 E ± 2.82km
DEPTH= 30 km ± 1.63km
STATIONS USED = 17, STAND DEV= 2.10s

XAN	60.0	319	eP	13 09 55.0	−2.0
CD2	61.7	313	eP	13 10 12.7	3.9
LZH	64.6	318	eP	13 10 27.0	−0.5
GTA	69.1	319	eP	13 10 55.0	−1.0
WMQ	79.1	318	+iP	13 11 56.5	1.9

1986 7 17
O=14 32 17.0 ± 0.11s
LAT=21.73 S ± 1.08km
LONG=179.47 W ± 1.06km
DEPTH=595 km ± 1.49km
STATIONS USED = 29, STAND DEV= 1.07s

GZH	79.1	300	+P	14 43 24.0	1.2
NJ2	79.6	311	+P	14 43 26.4	1.1
MDJ	80.7	326	+P	14 43 32.0	0.8
SNY	82.3	321	+iP	14 43 39.2	0.3
CN2	82.4	323	−P	14 43 38.6	−1.2
BJI	85.8	316	P	14 43 56.0	−0.3
XAN	87.8	308	+iP	14 44 06.8	1.1

1986 7 17
O=15 46 37.0 ± 0.10s
LAT=36.65 N ± 1.93km
LONG= 71.07 E ± 1.73km
DEPTH= 49 km ± 0.35km
STATIONS USED = 85, STAND DEV= 1.62s
Ms=5.2/33, M_L=5.7/ 3, m_B=5.6/21

KSH	4.8	53	iP	15 47 55.0	6.3		
			S	15 48 51.0	8.9		
			SME	M_L=6.4		0.5	54.0
WMQ	14.6	55	+iP	15 50 01.5	−0.6		
			PMZ	m_B=6.4		4.0	2.84
			pP	15 50 09.0	−1.9		
			S	15 52 44.7	3.2		
			sS	15 52 56.0	−0.6		
			LE	Ms=5.8		8.0	17.9
LSA	18.2	107	P	15 50 47.2	−0.8		
			S	15 53 58.2	−6.0		
			SME	m_B=5.8		5.0	1.96
GTA	22.8	74	+iP	15 51 37.5	0.9		
			iPP	15 52 13.4	8.0		
			iS	15 55 42.0	4.6		
			SME	m_B=5.6		10.5	1.76
			LN	Ms=4.9		16.0	2.28
LZH	26.3	81	eP	15 52 11.0	0.3		
			PMZ			1.5	0.28
			eS	15 56 39.0	1.0		
			SMN	m_B=5.8		7.0	1.69
			LN	Ms=5.5		7.0	3.10
CD2	27.7	92	eP	15 52 23.7	0.8		
			S	15 57 00.5	1.7		
			sS	15 57 12.5	−7.5		
			LN	Ms=5.3		13.0	3.01
KMI	29.4	104	eP	15 52 38.0	−0.3		
			sP	15 52 52.0	−3.3		
			SME	m_B=5.6		7.0	1.10
			LN	Ms=5.2		14.0	2.30
BTO	30.5	71	eP	15 52 48.2	−0.1		
			eS	15 57 45.0	0.1		
			LN	Ms=5.3		13.0	1.30
			LE			15.0	2.60
XAN	30.9	83	+P	15 52 50.4	−0.8		
			cPP	15 53 58.0	5.3		
			S	15 57 45.0	−4.2		
			LN	Ms=5.2		10.0	1.64
HHC	31.7	70	eP	15 52 58.4	0.0		
			S	15 58 02.0	0.2		
			LN	Ms=5.5		10.0	2.65

			LE			8.0	1.56
GYA	31.8	98	P	15 53 00.0	0.1		
			S	15 58 01.0	−3.5		
			LE	Ms=5.0		14.0	1.40
TIY	32.8	75	+P	15 53 08.0	−0.2		
			PP	15 54 19.0	1.2		
			S	15 58 20.0	0.6		
			sS	15 58 46.5	5.5		
			PcS	15 59 33.5	−2.2		
			SS	16 00 23.0	3.2		
			LN	Ms=5.2		10.0	1.53
BJI	35.3	70	eP	15 53 28.5	−0.8		
			ePP	15 54 40.0	−8.6		
			eS	15 58 58.0	−0.5		
			LN	Ms=5.1		10.0	1.20
WHN	36.3	87	eP	15 53 38.5	0.1		
			S	15 59 13.0	−1.1		
			SMN	m_B=5.8		12.0	2.21
TIA	36.8	77	eP	15 53 41.9	−0.3		
			eS	15 59 16.2	−5.9		
			SMN	m_B=5.1		9.0	0.35
			esS	15 59 43.6	0.8		
			LE	Ms=5.0		9.0	0.72
GZH	38.8	98	eP	15 54 02.0	3.2		
			S	15 59 50.0	−1.3		
			SMN	m_B=5.7		11.0	0.88
			SME			9.0	0.97
			SS	16 02 42.0	6.5		
			LN	Ms=5.3		14.0	1.74
			LE			14.0	1.02
NJ2	39.4	82	+P	15 54 04.0	0.0		
			S	16 00 00.0	−0.9		
			SMN	m_B=5.6		9.0	1.10
			LN	Ms=5.4		11.0	1.80
DL2	39.6	71	eP	15 54 05.0	−0.8		
			eS	16 00 02.5	−2.5		
			SMN	m_B=5.4		8.0	0.38
			SME			6.0	0.28
			LN	Ms=4.9		12.0	0.67
SNY	40.5	66	+iP	15 54 11.0	−1.9		
			PMZ	m_B=5.5		8.0	0.57
			sP	15 54 34.0	3.5		
			PP	15 55 48.0	−2.0		
			S	16 00 14.0	−2.9		
			sS	16 00 38.0	−0.8		
			SS	16 03 10.0	−2.8		
			LN	Ms=5.3		9.0	1.33
CN2	41.5	63	−P	15 54 17.0	−4.3		
			LN	Ms=5.3		10.0	1.20
SSE	41.6	83	P	15 54 20.0	−2.2		
			sP	15 54 39.5	−0.3		
			ePP	15 56 02.0	0.2		
			S	16 00 32.0	−1.6		
			SMN	m_B=5.5		8.0	0.64
			sS	16 00 54.0	−1.5		
			eSS	16 03 38.0	2.5		
			LN	Ms=5.0		10.0	0.67
			LE			10.0	0.25
QZH	42.1	92	eP	15 54 26.0	−0.1		
			PP	15 56 08.0	1.2		
			S	16 00 36.0	−4.6		
			SMN	m_B=5.5		8.0	0.58
			SS	16 03 40.0	−4.4		
			LN	Ms=4.9		10.0	0.48
			LE			10.0	0.23
MDJ	44.3	61	eP	15 54 43.0	−1.1		

1986 7 17
O=18 37 19.4 ± 0.26s
LAT=51.44 N ± 5.72km
LONG=174.57 W ± 2.87km
DEPTH= 33 km ± 2.90km
STATIONS USED = 39, STAND DEV= 1.91s

CN2	40.1	283	eP	18 44 53.6	−0.6
SNY	42.4	282	−iP	18 45 13.5	0.8
DL2	45.3	280	eP	18 45 36.6	0.2
BJI	47.9	285	eP	18 45 57.5	0.3
TIA	49.8	280	eP	18 46 06.0	−5.4
SSE	50.6	272	eP	18 46 19.0	1.0
NJ2	51.5	275	−P	18 46 23.5	−0.6
TIY	51.7	285	P	18 46 26.4	0.6
XAN	56.2	284	eP	18 46 58.8	−0.6
GTA	58.0	294	P	18 47 10.4	−1.5
WMQ	61.5	305	P	18 47 35.4	−0.7
CD2	61.5	285	eP	18 47 36.4	0.1
GYA	62.9	279	P	18 47 46.2	0.5
KMI	66.3	281	eP	18 48 07.5	−0.3
KSH	70.6	309	eP	18 48 41.0	6.8

1986 7 17
O=21 00 02.4 ± 0.25s
LAT=37.28 N ± 3.18km
LONG=116.31 W ± 3.22km
DEPTH= 30 km ± 1.72km
STATIONS USED = 50, STAND DEV= 2.39s

MDJ	79.1	318	−P	21 12 06.4	0.1
CN2	81.8	320	+P	21 12 20.2	−0.6
SNY	84.2	319	−iP	21 12 34.4	1.6
DL2	87.3	319	eP	21 12 48.6	0.3
BJI	89.2	322	eP	21 12 58.0	0.5

HHC	90.7	326	P	21 13 05.5	0.7		
BTO	91.6	327	P	21 13 10.0	1.1		
TIA	91.7	319	eP	21 13 05.1	−4.0		
TIY	92.9	323	P	21 13 16.0	1.5		
SSE	93.3	314	+iP	21 13 17.5	1.1		
			PMZ			1.1	0.050
NJ2	93.9	316	−P	21 13 10.4	−8.8		
WMQ	96.4	343	eP	21 13 31.5	0.9		
GTA	96.8	333	eP	21 13 33.4	1.0		
XAN	97.5	324	eP	21 13 36.4	0.8		

1986 7 17
O = 21 15 13.0 ± 0.31s
LAT = 10.26 S ± 2.79km
LONG = 123.76 E ± 3.45km
DEPTH = 29 km ± 0.82km
STATIONS USED = 59, STAND DEV = 1.48s

GZH	34.7	343	eP	21 22 03.0	0.4		
GYA	40.1	336	P	21 22 49.0	0.7		
			PcP	21 24 55.8	3.3		
KMI	40.7	330	−P	21 22 55.5	2.1		
WHN	41.6	348	eP	21 23 00.5	0.3		
NJ2	42.3	354	−P	21 23 07.2	0.7		
CD2	45.2	336	eP	21 23 30.1	0.1		
XAN	46.3	343	+P	21 23 37.4	−0.8		
TIY	48.9	348	eP	21 23 57.3	−1.5		
DL2	49.0	358	eP	21 23 57.6	−1.6		
LZH	49.8	339	+P	21 24 06.5	0.7		
			PMZ			1.5	0.070
BJI	50.5	352	eP	21 24 10.0	−1.3		
SNY	51.8	360	eP	21 24 16.5	−4.6		
HHC	52.1	348	eP	21 24 23.0	−0.2		
BTO	52.2	347	eP	21 24 23.0	−0.9		
MDJ	54.9	5	+P	21 24 43.5	−0.2		
WMQ	63.0	331	+iP	21 25 40.5	0.1		
KSH	66.4	321	eP	21 26 03.0	0.5		

1986 7 18
O = 06 27 28.0 ± 0.07s
LAT = 15.31 N ± 1.15km
LONG = 120.91 E ± 1.64km
DEPTH = 198 km ± 0.56km
STATIONS USED = 39, STAND DEV = 1.30s

QZH	9.8	348	eP	06 29 45.0	−1.0
GZH	10.5	318	eP	06 29 54.0	−1.1
NJ2	16.8	354	−P	06 31 14.0	1.0
GYA	17.3	312	P	06 31 18.8	−0.4
XAN	21.6	332	−P	06 32 02.6	−0.1
CD2	22.1	318	eP	06 32 07.9	0.0
BJI	25.0	351	P	06 32 32.5	−2.8
SNY	26.5	4	−P	06 32 49.2	−0.3
MDJ	30.1	12	eP	06 33 22.8	1.1
LSA	30.9	303	−P	06 33 27.1	−1.8
WMQ	40.1	322	P	06 34 46.5	0.5
KSH	46.0	310	eP	06 35 36.0	2.3

1986 7 18
O = 15 07 50.2 ± 0.11s
LAT = 16.37 S ± 1.02km
LONG = 28.35 E ± 1.77km
DEPTH = 13 km ± 0.38km
STATIONS USED = 46, STAND DEV = 0.90s

KSH	71.1	37	−P	15 19 11.0	−0.2		
			pP	15 19 15.5	−1.6		
			(S)	15 28 22.0	−4.7		
WMQ	80.7	39	−iP	15 20 05.5	−0.2		
KMI	83.3	62	−P	15 20 19.0	−0.4		
CD2	86.3	56	P	15 20 34.3	0.4		
GTA	86.6	47	−iP	15 20 36.0	0.4		
GYA	87.1	62	P	15 20 38.0	−0.1		
			pP	15 20 42.0	−1.9		
LZH	88.2	52	eP	15 20 43.5	−0.1		
			PMZ			2.0	0.090
XAN	91.5	55	eP	15 20 57.7	−0.8		
BTO	94.3	49	+iP	15 21 12.0	0.2		
WHN	94.8	60	eP	15 21 13.0	−0.8		
TIY	95.3	52	eP	15 21 19.4	3.3		
			S	15 32 33.0	6.1		
BJI	98.7	51	eP	15 21 30.5	−1.0		
NJ2	98.9	59	eP	15 21 31.5	−0.9		

1986 7 18
O = 15 33 02.3 ± 0.08s
LAT = 37.11 N ± 1.27km
LONG = 71.72 E ± 1.16km
DEPTH = 122 km ± 0.46km
STATIONS USED = 21, STAND DEV = 1.95s
M_L = 4.5 / 3,

KSH	4.1	54	P	15 34 09.0	4.6		
			SME	M_L = 5.0		0.5	3.00
WMQ	13.9	56	P	15 36 14.0	−1.0		
			S	15 38 48.5	2.6		
LSA	17.8	109	eP	15 37 03.1	−1.3		
GTA	22.1	75	P	15 37 49.7	0.5		

1986 7 18
O = 16 05 24.4 ± 0.06s
LAT = 16.87 S ± 1.09km
LONG = 174.61 W ± 1.45km
DEPTH = 147 km ± 0.27km

STATIONS USED = 18, STAND DEV = 1.05s

MDJ	79.5	323	eP	16 17 17.2	0.3		
CN2	81.5	321	eP	16 17 27.0	−0.4		
SNY	81.6	318	+iP	16 17 29.0	1.0		
BJI	85.6	314	P	16 17 49.0	0.6		

1986 7 18

O = 17 06 35.4 ± 0.19s
LAT = 19.62 N ± 2.90km
LONG = 121.32 E ± 2.53km
DEPTH = 30 km ± 0.74km
STATIONS USED = 28, STAND DEV = 2.57s

QZH	5.9	335	eP	17 07 59.3	−3.3		
GZH	8.2	296	eP	17 08 31.0	−4.3		
			LN			1.0	0.080
			LE			1.0	0.040
GYA	15.1	299	eP	17 10 15.0	6.3		
TIA	16.9	348	eP	17 10 33.2	1.3		
XAN	18.1	325	eP	17 10 46.7	0.1		
CD2	19.4	309	eP	17 11 02.5	0.1		
TIY	19.6	339	eP	17 11 04.2	−0.3		
BJI	20.8	349	eP	17 11 15.5	−1.7		
SNY	22.2	4	eP	17 11 30.8	−0.4		
HHC	22.7	341	eP	17 11 38.0	1.4		
BTO	23.0	338	eP	17 11 39.0	−0.5		

1986 7 18

O = 17 22 37.8 ± 0.30s
LAT = 10.76 N ± 4.77km
LONG = 69.28 W ± 6.84km
DEPTH = 10 km ± 1.63km
STATIONS USED = 66, STAND DEV = 3.35s
Ms = 5.5 / 3,

WMQ	121.8	19	PKP	17 41 34.5	1.1		
MDJ	122.3	344	ePKP	17 41 40.5	6.3		
CN2	124.1	347	PKP	17 41 37.0	−0.7		
SNY	126.4	348	+iPKP	17 41 42.6	0.5		
HHC	128.6	359	ePKP	17 41 48.2	1.5		
BTO	128.9	1	PKP	17 41 48.6	1.4		
GTA	129.1	11	PKP	17 41 48.2	0.7		
BJI	129.2	355	ePKP	17 41 48.5	0.9		
			ePP	17 43 55.0	−4.4		
DL2	129.6	349	PKP	17 41 49.0	0.7		
TIY	131.8	358	PKP	17 41 54.0	1.4		
			PP	17 44 12.0	−3.6		
			LE	Ms = 5.4		18.0	0.47
TIA	132.9	353	ePKP	17 41 53.0	−1.7		
LZH	133.0	8	ePKP	17 41 56.5	1.5		
XAN	135.4	2	ePKP	17 42 00.8	1.4		
			PP	17 44 32.0	−6.6		
NJ2	136.7	350	+PKP	17 42 01.4	−0.3		
SSE	137.2	347	PKP	17 42 04.0	1.4		
			LN	Ms = 5.5		24.0	0.38
			LE			24.0	0.60
WHN	138.8	355	ePKP	17 42 06.0	0.5		
GYA	142.8	6	PKP	17 42 11.6	−1.1		
KMI	143.5	12	ePKP	17 42 12.0	−2.0		
QZH	143.7	348	ePKP	17 42 12.0	−2.1		
GZH	146.3	356	PKP	17 42 21.8	3.2		

1986 7 19

O = 04 31 54.5 ± 0.07s
LAT = 53.44 N ± 2.26km
LONG = 165.87 W ± 1.16km
DEPTH = 31 km ± 0.32km
STATIONS USED = 88, STAND DEV = 0.88s
Ms = 5.2 / 17, m_B = 5.9 / 8

MDJ	41.9	285	+P	04 39 43.5	−0.5		
			S	04 45 59.0	−0.1		
			sS	04 46 11.5	−3.4		
CN2	44.7	287	−iP	04 40 06.8	−0.5		
			pP	04 40 13.0	−3.4		
			PP	04 41 47.5	−5.3		
			eS	04 46 40.0	−2.0		
			ScS	04 50 02.0	2.7		
			LN	Ms = 5.3		19.0	2.00
SNY	47.1	286	+iP	04 40 26.0	0.4		
			PMZ	m_B = 6.0		3.5	0.81
			eS	04 47 11.0	−3.9		
			LN	Ms = 5.3		22.0	1.88
			LE			24.0	1.15
DL2	50.1	284	P	04 40 48.4	−0.7		
BJI	52.5	289	eP	04 41 06.5	−0.5		
			PcP	04 42 17.5	0.7		
			SMN	m_B = 5.2		10.0	0.29
			LN	Ms = 5.3		21.0	1.67
HHC	54.5	292	P	04 41 23.0	0.8		
			eS	04 48 54.0	−4.0		
			LN	Ms = 5.0		15.0	0.49
			LE			15.0	0.47
TIA	54.5	285	eP	04 41 22.3	−0.2		
BTO	55.5	293	−iP	04 41 30.0	0.3		
			pP	04 41 37.0	−1.7		
			cPP	04 43 37.0	2.6		
			S	04 49 12.0	1.7		
			LN	Ms = 5.4		20.0	1.10
			LE			20.0	1.60
SSE	55.8	277	+P	04 41 32.0	0.6		
			PMZ			3.0	0.95
			pP	04 41 38.0	−2.6		

			S	04 49 12.0	−1.8		
			sS	04 49 32.0	1.9		
			LN	Ms = 5.2		28.0	1.65
			LE			28.0	0.70
TIY	56.2	289	+P	04 41 35.0	0.6		
			PMZ			0.7	0.060
			S	04 49 25.5	6.4		
			ScS	04 51 17.5	0.8		
			LN	Ms = 5.2		21.0	0.86
			LE			20.0	1.08
NJ2	56.5	280	+iP	04 41 36.0	−0.4		
			S	04 49 23.0	0.0		
			SMN	m_B = 5.5		10.0	0.70
WHN	60.2	282	P	04 42 02.0	−0.6		
			pP	04 42 09.0	−2.7		
			S	04 50 12.0	0.2		
			SMN	m_B = 5.5		8.0	0.53
			LE	Ms = 5.1		26.0	1.05
XAN	60.8	289	P	04 42 05.3	−1.3		
			PMZ			1.0	0.16
			pP	04 42 12.5	−3.2		
			PcP	04 42 49.8	0.6		
			S	04 50 19.5	0.3		
			ScS	04 51 50.0	−0.5		
GTA	61.8	299	+iP	04 42 12.8	−1.0		
			PcP	04 42 54.0	0.6		
			ScP	04 46 52.0	0.7		
			eS	04 50 27.0	−7.1		
			ScS	04 51 58.2	−0.2		
			LE	Ms = 5.1		16.0	0.67
QZH	61.9	274	+P	04 42 13.7	0.0		
			S	04 50 35.0	2.3		
LZH	62.1	294	+P	04 42 15.5	−0.2		
			PMZ			1.0	0.25
WMQ	64.5	310	+iP	04 42 31.1	−0.2		
			PcP	04 43 06.6	2.3		
			eS	04 51 02.5	−4.8		
			eScS	04 52 19.5	1.0		
CD2	66.0	290	−iP	04 42 41.8	0.7		
			S	04 51 25.2	0.8		
			LE	Ms = 5.2		24.0	1.03
GZH	66.4	277	+iP	04 42 44.0	0.8		
			PMZ	m_B = 6.1		4.0	0.97
			cS	04 51 30.5	0.6		
GYA	67.7	285	+P	04 42 52.0	0.1		
			S	04 51 45.0	0.0		
			ScS	04 52 44.0	0.6		
KMI	71.0	287	+P	04 43 12.5	0.2		
			PMZ	m_B = 5.9		4.0	0.60
			sP	04 43 25.0	−0.1		
			S	04 52 26.0	2.3		
			SMN	m_B = 6.1		5.0	0.96
KSH	73.2	315	eP	04 43 26.0	0.7		
			pP	04 43 34.0	−0.3		
			eS	04 52 50.0	−0.7		
LSA	73.9	298	+iP	04 43 29.5	0.2		

1986 7 19

O = 05 04 06.9 ± 0.06s
LAT = 53.41 N ± 1.79km
LONG = 165.80 W ± 0.92km
DEPTH = 31 km ± 0.22km
STATIONS USED = 74, STAND DEV = 0.74s

MDJ	41.9	285	−P	05 11 56.5	−0.3	
CN2	44.8	287	+P	05 12 19.5	−0.6	
SNY	47.1	286	−P	05 12 39.0	0.7	
DL2	50.1	284	P	05 13 02.2	0.3	
BJI	52.5	289	eP	05 13 19.5	−0.2	
			cPcP	05 14 29.5	0.2	
HHC	54.5	293	P	05 13 36.0	1.1	
TIA	54.6	285	eP	05 13 34.7	−0.5	
BTO	55.6	293	P	05 13 42.6	0.2	
SSE	55.8	277	+P	05 13 44.0	−0.1	
			PMZ		1.0	0.49
			pP	05 13 49.5	−3.8	
TIY	56.2	289	P	05 13 47.9	0.8	
NJ2	56.5	280	+P	05 13 48.0	−1.1	
WHN	60.3	282	P	05 14 14.5	−0.7	
XAN	60.8	289	+P	05 14 18.7	−0.6	
			PcP	05 15 02.0	0.3	
GTA	61.9	299	+iP	05 14 25.4	−1.1	
QZH	61.9	275	−iP	05 14 27.0	0.7	
LZH	62.2	294	+P	05 14 28.5	0.1	
			PMZ		1.5	0.070
WMQ	64.6	310	+iP	05 14 44.0	0.0	
			(S)	05 23 15.0	−5.3	
CD2	66.1	290	eP	05 14 54.5	0.8	
GZH	66.4	277	+iP	05 14 56.0	0.2	
GYA	67.8	285	+P	05 15 05.0	0.4	
KMI	71.1	287	+P	05 15 25.0	0.1	
KSH	73.3	315	−iP	05 15 39.0	1.1	
LSA	73.9	298	+iP	05 15 42.1	0.2	

1986 7 19

O = 05 59 35.4 ± 0.09s
LAT = 47.31 N ± 2.38km
LONG = 151.18 E ± 1.59km
DEPTH = 141 km ± 0.50km
STATIONS USED = 94, STAND DEV = 1.29s
m_B = 6.3 / 54

MDJ	15.2	268	−P	06 03 05.8	1.2		
			PMZ	$m_B = 6.3$		6.0	6.70
			sP	06 03 46.0	3.3		
			S	06 05 55.0	5.8		
			ScP	06 11 19.0	−2.2		
			ScS	06 14 56.9	−1.4		
CN2	18.3	268	−iP	06 03 38.5	−3.1		
			PMZ			3.0	1.30
			S	06 06 53.0	−4.8		
SNY	20.4	265	−iP	06 04 02.0	−0.8		
			PMZ			14.0	7.77
			pP	06 04 27.5	−4.1		
			iS	06 07 36.0	−2.1		
			SMN	$m_B = 6.5$		11.0	7.29
			SME			12.0	12.3
			SS	06 08 24.0	6.1		
			ScS	06 15 14.0	0.3		
			LN			10.0	9.21
			LE			12.0	8.60
DL2	23.0	259	−iP	06 04 30.2	0.9		
			PMZ	$m_B = 6.5$		5.0	10.2
			pP	06 05 00.2	2.9		
			sP	06 05 18.2	3.9		
			S	06 08 24.2	−1.2		
			SME	$m_B = 6.6$		12.0	18.9
			LN			11.0	3.90
			LE			8.0	6.86
BJI	26.2	267	−iP	06 04 58.0	−0.8		
			pP	06 05 29.5	1.7		
			sP	06 05 45.0	0.4		
			cPcP	06 08 24.5	2.2		
			cS	06 09 17.0	−1.6		
			SMN	$m_B = 5.8$		9.5	3.46
			SME			9.0	1.87
			csS	06 10 10.0	0.4		
			eSS	06 10 37.0	−1.2		
			PcS	06 12 01.0	−0.8		
			eScS	06 15 35.0	−1.1		
			LN			10.0	12.5
			LE			10.0	4.84
TIA	27.5	259	eP	06 05 11.1	0.1		
			PMZ	$m_B = 6.0$		7.0	2.77
			pP	06 05 42.5	2.3		
			ScP	06 11 50.2	−1.1		
			S	06 09 39.0	−0.4		
			SME			14.0	11.6
			sS	06 10 40.0	8.4		
			ScS	06 15 39.8	−2.1		
			LE			12.0	9.24
SSE	28.1	246	−iP	06 05 16.0	−0.3		
			PMZ	$m_B = 6.5$		4.0	4.67
			pP	06 05 47.0	1.4		
			sP	06 06 06.0	3.8		
			iS	06 09 44.0	−5.6		
			SMN	$m_B = 6.2$		8.0	3.18
			SME			8.0	6.99
			sS	06 10 44.0	2.7		
			SS	06 11 30.0	6.5		
			ScS	06 15 42.0	−2.5		
			LE			10.0	17.3
NJ2	28.9	250	−iP	06 05 23.5	−0.2		
			PMZ	$m_B = 6.4$		5.5	4.40
			pP	06 05 55.0	1.9		
			sP	06 06 14.0	4.2		
			iS	06 10 00.0	−2.8		
			SME	$m_B = 6.1$		8.5	6.60
			ScP	06 11 53.2	−2.5		
HHC	28.9	272	−iP	06 05 24.0	−0.1		
			PMZ	$m_B = 6.5$		5.0	5.20
			pP	06 05 56.0	2.7		
			PP	06 06 23.0	0.1		
			iS	06 10 00.0	−3.4		
			SMN	$m_B = 6.2$		5.0	4.90
			SME			6.0	1.10
			LN			12.0	16.5
			LE			9.0	7.00
TIY	29.9	266	−iP	06 05 32.5	0.3		
			PMZ			1.2	0.33
			pP	06 06 03.5	2.0		
			S	06 10 16.0	−0.7		
			SMN	$m_B = 5.7$		9.0	2.33
			SME			10.5	2.29
			sS	06 11 17.0	7.3		
BTO	30.1	272	+iP	06 05 33.5	−0.9		
			PMZ	$m_B = 6.1$		7.0	2.61
			sP	06 06 24.5	4.1		
			S	06 10 22.0	1.3		
			sS	06 11 20.0	6.3		
			SS	06 12 19.0	9.1		
			LN			11.0	12.8
			LE			9.0	6.90
WHN	32.8	253	−iP	06 05 57.5	−0.3		
			PMZ			1.0	0.27
			pP	06 06 30.0	2.2		
			sP	06 06 48.0	3.8		
			S	06 11 03.0	0.0		
			SME	$m_B = 5.9$		10.0	4.60
			sS	06 11 53.0	−3.4		
			ScS	06 16 08.0	0.5		
			LE			10.0	7.10

QZH	34.1	241	−iP	06 06 09.0	0.0		
			PMZ	$m_B = 6.6$		4.0	4.05
			pP	06 06 40.0	0.8		
			sP	06 06 56.0	0.3		
			iS	06 11 24.0	−0.1		
			sS	06 12 21.0	4.2		
			SME			16.0	15.4
XAN	34.3	263	−iP	06 06 10.0	−0.3		
			PMZ	$m_B = 6.4$		6.0	3.94
			pP	06 06 44.0	3.6		
			iS	06 11 22.0	−4.3		
			SME	$m_B = 5.8$		7.0	2.43
			ScP	06 12 13.0	−0.7		
			ScS	06 16 15.5	0.5		
			LN			12.0	8.16
			LE			14.0	8.11
LZH	36.6	270	−P	06 06 30.5	0.7		
			PMZ			2.0	1.78
			pP	06 07 04.5	4.3		
			sP	06 07 21.0	4.5		
			iS	06 11 57.0	−4.8		
			SMN	$m_B = 6.0$		8.0	3.36
			LN			10.0	6.10
			LE			10.0	7.30
GTA	37.6	277	−iP	06 06 38.0	−0.4		
			PMZ	$m_B = 6.5$		5.0	4.39
			pP	06 07 09.0	0.1		
			sP	06 07 25.5	0.4		
			PP	06 08 10.0	1.4		
			PcP	06 08 54.4	1.3		
			iS	06 12 13.0	−4.4		
			SME	$m_B = 6.0$		5.0	1.82
			PcS	06 12 42.0	1.7		
			ScS	06 16 33.4	0.1		
			LE			8.0	7.36
GZH	38.7	245	−iP	06 06 48.0	0.6		
			PMZ	$m_B = 6.3$		6.0	3.71
			pP	06 07 19.0	0.9		
			iS	06 12 31.0	−2.6		
			SME	$m_B = 6.1$		9.0	4.20
			sS	06 13 32.6	5.3		
			SS	06 15 30.0	9.2		
			LN			14.0	8.25
			LE			12.0	4.56
CD2	39.6	263	+iP	06 06 55.5	0.3		
			PMZ			1.6	1.59
			pP	06 07 25.5	−0.5		
			iS	06 12 44.7	−3.1		
			SME	$m_B = 6.7$		7.0	10.6
			ScS	06 16 49.4	4.3		
GYA	40.6	255	−P	06 07 03.0	0.0		
			PMZ			3.0	6.10
			pP	06 07 36.0	2.3		
			sP	06 07 52.0	2.0		
			PP	06 08 43.0	1.8		
			S	06 12 57.0	−3.7		
			SMN	$m_B = 6.5$		8.0	4.60
			SME			8.0	5.90
			sS	06 13 50.0	−5.5		
			ScS	06 16 50.0	−0.6		
			LE			26.0	3.00
WMQ	43.5	290	P	06 07 26.5	−0.4		
			PMZ	$m_B = 6.4$		6.0	3.91
			pP	06 07 59.0	1.1		
			sP	06 08 18.0	4.0		
			ScP	06 12 49.0	0.1		
			PcS	06 13 04.0	0.5		
			S	06 13 42.0	−1.6		
			ScS	06 17 06.0	−2.4		
			LN			11.0	14.4
KMI	44.1	257	−iP	06 07 32.0	0.4		
			PMZ	$m_B = 6.7$		4.0	5.70
			pP	06 08 04.5	2.0		
			PP	06 09 20.0	3.2		
			PcS	06 13 09.0	3.3		
			iS	06 13 50.0	−3.3		
			SME	$m_B = 6.4$		9.0	5.90
			isS	06 14 49.0	1.6		
			SS	06 17 03.0	−2.7		
			ScS	06 17 12.0	0.0		
LSA	48.9	271	−iP	06 08 10.0	−0.1		
			PMZ	$m_B = 6.5$		5.0	4.02
			iS	06 15 01.0	−1.7		
			SME	$m_B = 6.0$		10.0	1.87
KSH	53.2	291	−iP	06 08 42.0	−0.3		
			pP	06 09 13.0	−1.3		
			PcP	06 09 48.0	0.6		
			PP	06 10 47.0	1.7		
			eS	06 16 00.0	−1.4		
			SME	$m_B = 6.4$		7.0	4.00
			ScS	06 18 16.0	2.8		
			LE			8.0	11.2

1986 7 19

O = 05 59 52.0 ± 1.09s
LAT = 23.38 N ± 5.05km
LONG = 120.42 E ± 10.54km
DEPTH = 10 km ± 2.91km
STATIONS USED = 7, STAND DEV = 2.31s
M_L = 3.3 / 3,

QZH	2.3	313	ePn	06 00 30.1	0.1		
			Sn	06 01 02.7	2.6		
			SMN	M_L=3.2		0.7	0.19
			SME			0.5	0.11
GZH	6.5	269	ePn	06 01 29.0	0.8		
			eSn	06 02 49.0	4.1		

1986 7 19
O=06 53 16.8 ± 0.15s
LAT=53.62 N ± 4.34km
LONG=167.12 W ± 2.25km
DEPTH= 33 km ± 0.35km
STATIONS USED = 65, STAND DEV= 1.75s
Ms=5.8/ 22, m_B=5.4/ 2

MDJ	41.1	284	eP	07 01 00.2	0.4		
CN2	44.0	286	eP	07 01 22.4	−0.9		
SNY	46.3	285	+P	07 01 42.4	0.7		
			iS	07 08 26.0	0.0		
			SMN			30.0	6.93
			SME			26.0	4.63
			LN	Ms=6.1		18.0	7.24
			LE			19.0	10.6
DL2	49.3	283	eP	07 02 05.0	−0.3		
HHC	53.7	292	P	07 02 39.8	1.1		
TIA	53.8	284	eP	07 02 35.9	−3.0		
			eS	07 10 10.0	0.0		
			SMN			32.0	3.56
			SME			28.0	2.38
			LN	Ms=5.9		18.0	2.26
			LE			20.0	5.52
BTO	54.8	292	eP	07 02 45.0	−1.2		
			eS	07 10 21.0	−2.5		
			LN	Ms=5.9		18.5	3.20
			LE			18.0	5.50
SSE	55.0	276	eP	07 02 47.5	−0.5		
			S	07 10 26.0	0.5		
			sS	07 10 42.6	0.3		
			sS	07 10 42.0	−0.3		
			LN	Ms=5.6		16.0	2.44
TIY	55.4	288	eP	07 02 51.7	0.8		
			(S)	07 10 25.0	−7.2		
			LN	Ms=6.1		17.5	7.94
NJ2	55.7	279	−P	07 02 53.0	0.1		
			LN	Ms=5.9		14.0	4.10
WHN	59.4	281	eP	07 03 20.0	0.7		
			eS	07 11 30.0	4.9		
			LE	Ms=5.8		18.0	3.95
XAN	60.0	288	eP	07 03 23.0	−0.4		
			LE	Ms=6.1		17.0	7.24
QZH	61.1	273	eP	07 03 30.0	−0.6		
			S	07 11 43.0	−2.0		
			SME	m_B=5.3		10.0	0.37
			LE	Ms=5.5		18.0	2.13
GTA	61.1	298	eP	07 03 30.0	−0.9		
			ePP	07 05 44.0	−2.8		
			eS	07 11 48.0	1.3		
			LN	Ms=5.8		19.0	4.27
LZH	61.4	293	eP	07 03 32.0	−0.7		
			LN	Ms=6.4		18.0	11.8
			LE			17.0	7.30
WMQ	63.8	309	P	07 03 49.5	0.6		
CD2	65.3	289	eP	07 03 58.6	0.4		
GZH	65.6	276	eP	07 04 01.0	0.6		
GYA	67.0	284	−P	07 04 10.0	0.9		
			pP	07 04 20.0	1.5		
			S	07 12 57.0	−0.8		
			LE	Ms=5.8		18.0	3.20
KMI	70.3	286	eP	07 04 31.0	1.4		
			eS	07 13 39.0	0.4		
			LN	Ms=6.1		18.0	6.00
KSH	72.6	314	eP	07 04 45.0	1.6		
LSA	73.1	297	eP	07 04 45.3	−1.7		

1986 7 19
O=07 49 41.6 ± 0.10s
LAT=24.72 S ± 0.89km
LONG=179.98 E ± 2.20km
DEPTH=497 km ± 0.42km
STATIONS USED = 34, STAND DEV= 0.88s

NJ2	81.2	311	+P	08 01 07.0	0.3		
MDJ	82.9	326	eP	08 01 15.5	−0.1		
WHN	83.5	308	P	08 01 19.0	0.7		
SNY	84.3	321	+iP	08 01 22.1	−0.1		
CN2	84.5	324	eP	08 01 21.5	−2.0		
TIA	84.8	314	eP	08 01 24.8	0.1		
GYA	87.2	301	P	08 01 36.6	0.4		
TIY	88.7	313	P	08 01 44.5	0.9		
			PMZ			1.0	0.030
			(S)	08 11 38.0	−10.0		
XAN	89.2	308	P	08 01 46.6	0.7		
KMI	89.6	298	−P	08 01 49.0	1.1		
CD2	91.5	303	eP	08 01 57.5	1.1		

1986 7 19
O=08 25 56.6 ± 0.11s
LAT=13.62 N ± 1.92km
LONG=120.90 E ± 2.74km
DEPTH=121 km ± 0.80km
STATIONS USED = 58, STAND DEV= 1.88s

GZH	11.8	324	eP	08 28 45.0	2.3		

SSE	17.4	1	eP	08 29 53.0	−0.3		
			LE			18.0	0.34
WHN	17.9	341	eP	08 29 57.8	−1.5		
NJ2	18.4	354	eP	08 30 05.0	−0.4		
GYA	18.5	316	P	08 30 06.4	0.5		
KMI	20.6	306	eP	08 30 30.5	2.3		
TIA	22.8	352	eP	08 30 49.0	−0.4		
XAN	23.1	334	+P	08 30 51.6	−0.8		
CD2	23.4	320	eP	08 30 55.4	0.2		
TIY	25.2	344	P	08 31 12.1	−0.4		
DL2	25.2	1	eP	08 31 10.2	−2.6		
BJI	26.6	352	eP	08 31 25.5	−0.7		
LZH	27.1	329	+P	08 31 30.0	−0.7		
			PMZ			1.5	0.090
SNY	28.2	4	−P	08 31 39.2	−1.1		
HHC	28.3	345	eP	08 31 41.0	−0.6		
BTO	28.5	342	eP	08 31 41.0	−2.3		
GTA	31.7	328	+P	08 32 10.8	−0.7		
LSA	31.8	305	eP	08 32 12.3	−0.5		
WMQ	41.4	323	−P	08 33 34.0	1.1		
KSH	47.1	312	eP	08 34 14.0	−4.6		

1986 7 19
O = 09 12 23.1 ± 0.11s
LAT = 28.27 N ± 2.68km
LONG = 56.84 E ± 1.47km
DEPTH = 68 km ± 0.85km
STATIONS USED = 28, STAND DEV = 2.05s

WMQ	29.2	50	eP	09 18 25.0	4.4		
XAN	44.5	69	eP	09 20 28.7	−1.8		
TIY	47.0	64	eP	09 20 52.5	2.8		
TIA	50.9	65	eP	09 21 23.0	3.1		
CN2	56.1	54	eP	09 21 56.7	−1.5		

1986 7 19
O = 09 43 05.8 ± 0.13s
LAT = 2.01 N ± 2.09km
LONG = 126.53 E ± 2.95km
DEPTH = 80 km ± 0.84km
STATIONS USED = 46, STAND DEV = 1.95s

SSE	29.4	351	eP	09 49 10.0	6.3		
WHN	30.6	339	eP	09 49 27.0	12.5		
NJ2	30.7	347	eP	09 49 17.0	1.0		
GYA	30.9	324	P	09 49 16.6	−0.9		
KMI	32.5	317	eP	09 49 31.0	−0.3		
XAN	35.9	335	eP	09 49 58.8	−1.4		
CD2	35.9	325	eP	09 50 00.0	−0.7		
DL2	37.0	354	eP	09 50 10.4	0.7		
BJI	39.0	347	eP	09 50 26.0	−0.4		
SNY	39.7	357	+P	09 50 32.6	0.2		
LZH	39.9	331	eP	09 50 34.5	0.6		
			PMZ			1.0	0.040
BTO	41.2	341	eP	09 50 49.0	4.1		
MDJ	42.5	3	eP	09 50 50.2	−5.1		
LSA	43.4	313	+P	09 51 02.5	−0.9		
GTA	44.5	330	P	09 51 10.8	−0.6		
			PcP	09 52 54.8	1.5		
WMQ	54.0	326	−P	09 52 24.1	−0.6		
KSH	59.1	316	eP	09 53 07.0	6.2		

1986 7 19
O = 10 47 02.5 ± 0.12s
LAT = 33.99 N ± 1.46km
LONG = 79.88 E ± 1.86km
DEPTH = 32 km ± 0.17km
STATIONS USED = 12, STAND DEV = 3.38s
M_L = 4.1 / 1,

KSH	6.3	331	cPn	10 48 40.0	6.3		
WMQ	11.5	29	+iP	10 49 47.6	−0.8		

1986 7 19
O = 11 31 06.1 ± 0.07s
LAT = 53.47 N ± 2.47km
LONG = 167.40 W ± 1.30km
DEPTH = 37 km ± 0.58km
STATIONS USED = 40, STAND DEV = 1.32s
Ms = 4.8 / 5,

CN2	43.9	286	−P	11 39 10.0	−1.2		
			eS	11 45 35.0	−4.6		
SNY	46.2	285	−P	11 39 29.0	−0.6		
			PP	11 41 22.0	4.4		
			eS	11 46 19.0	6.4		
			LN	Ms = 5.3		11.0	1.12
BJI	51.6	288	P	11 40 11.0	−0.4		
BTO	54.7	292	eP	11 40 34.6	0.2		
SSE	54.9	276	eP	11 40 36.0	0.2		
			PS	11 48 20.0			
			LN	Ms = 4.7		24.0	0.32
			LE			24.0	0.36
NJ2	55.6	279	+P	11 40 40.5	−0.3		
XAN	59.9	287	eP	11 41 10.8	−0.7		
			PcP	11 41 56.0	−0.5		
GTA	61.0	298	eP	11 41 17.8	−1.4		
			LE	Ms = 4.9		15.0	0.44
WMQ	63.8	309	eP	11 41 37.0	−0.5		
CD2	65.2	289	eP	11 41 46.1	−0.3		
GZH	65.5	276	eP	11 41 45.0	−3.3		
GYA	66.8	283	eP	11 41 57.0	−0.2		
KMI	70.1	285	eP	11 42 16.5	−1.3		

1986 7 19
O=13 12 18.6 ± 0.20s
LAT=43.29 N ± 1.80km
LONG= 80.12 E ± 2.35km
DEPTH= 9 km ± 0.80km
STATIONS USED = 10, STAND DEV= 3.32s
M_L=4.0/ 7,

KSH	4.9	220	ePg	13 13 49.0	2.9		
			Sg	13 14 50.0	−3.4		
			SME	M_L=4.8		0.5	1.20
WMQ	5.5	82	cPn	13 13 41.7	0.2		
			LG_2	13 15 14.0	−7.0		
			LN			1.0	0.060
GTA	15.3	98	P	13 16 03.2	6.6		

1986 7 19
O=19 31 20.1 ± 0.10s
LAT=45.55 N ± 0.95km
LONG=114.50 E ± 0.98km
DEPTH= 36 km ± 1.33km
STATIONS USED = 8, STAND DEV= 3.79s
M_L=3.3/ 7,

HHC	5.2	206	ePg	19 32 55.0	3.4		
			S*	19 33 53.0	7.0		
			SMN	M_L=3.8		0.6	0.060
			SME			0.8	0.13
BTO	5.9	215	ePg	19 33 01.0	−4.3		
			Sg	19 34 24.4	−1.9		

1986 7 19
O=20 12 54.8 ± 0.09s
LAT=31.25 N ± 1.27km
LONG= 86.95 E ± 1.16km
DEPTH= 32 km ± 0.12km
STATIONS USED = 68, STAND DEV= 1.56s
Ms=5.1/ 30, m_B=5.4/ 6

LSA	3.9	112	+iPn	20 13 59.2	5.2		
			Sn	20 14 43.5	3.3		
			LN	Ms=4.9		7.0	11.4
			LE			8.0	13.5
KSH	12.1	315	eP	20 15 48.0	−0.6		
			eS	20 18 07.0	3.1		
			LG_1	20 19 20.0	4.3		
			LG_2	20 19 40.0	5.1		
			LE	Ms=5.6		8.0	17.6
WMQ	12.6	2	−iP	20 15 54.6	0.2		
			eS	20 18 17.0	2.5		
			LE	Ms=4.9		8.0	2.81
GTA	13.3	49	P	20 16 01.6	−2.4		
			eS	20 18 34.0	2.2		
			LN	Ms=5.0		10.0	4.01
CD2	14.4	87	eP	20 16 18.7	−0.1		
			S	20 19 01.0	3.0		
			LN	Ms=5.1		8.0	3.73
LZH	14.9	67	eP	20 16 25.0	0.1		
			PMZ			2.0	0.13
			eS	20 19 08.0	−1.6		
			LN	Ms=5.3		10.0	6.70
KMI	15.2	110	−P	20 16 29.5	0.3		
GYA	17.9	100	−P	20 17 03.0	−0.5		
			pP	20 17 11.0	0.1		
			S	20 20 27.0	8.1		
			LN	Ms=5.2		11.0	5.00
XAN	18.7	76	+P	20 17 11.4	−1.8		
			S	20 20 44.0	7.1		
			LN	Ms=5.4		9.0	3.32
			LE			7.0	3.44
BTO	20.8	57	P	20 17 36.2	−0.4		
			pP	20 17 40.0	−5.0		
			PP	20 17 57.0	−1.6		
			S	20 21 19.0	−2.7		
			LN	Ms=5.0		10.0	1.60
			LE			10.0	1.30
TIY	21.9	66	P	20 17 47.5	−0.2		
			S	20 21 50.5	8.0		
			sS	20 21 58.5	1.3		
			LN	Ms=5.3		13.0	4.92
WHN	23.5	85	P	20 18 04.2	1.2		
			PMZ	m_B=5.7		4.0	1.29
			S	20 22 18.0	7.4		
			SME	m_B=5.4		8.0	0.99
			LN	Ms=5.3		9.0	2.76
GZH	24.8	103	eP	20 18 20.0	4.4		
			SMN	m_B=5.5		8.0	0.79
			SME			9.0	1.01
			LN	Ms=5.2		10.0	2.26
			LE			11.0	1.12
TIA	25.5	71	eP	20 18 22.3	−0.2		
			SME	m_B=5.2		9.0	0.66
NJ2	27.1	80	eP	20 18 38.4	1.1		
			LN	Ms=5.3		10.0	2.80
SSE	29.2	81	eP	20 18 57.0	0.8		
			eS	20 23 46.0	0.4		
			LN	Ms=5.0		8.0	0.64
			LE			11.0	1.05
DL2	29.3	65	P	20 18 56.6	0.1		
SNY	31.1	60	+P	20 19 12.9	0.4		
			S	20 24 22.0	8.3		
			LE	Ms=4.9		16.0	1.28
CN2	32.7	57	+P	20 19 26.5	−0.5		

			epP	20 19 31.0	−5.1		
			eS	20 24 37.0	−3.6		
			LN	Ms = 5.3		12.0	2.30

1986 7 19
O = 22 32 34.7 ± 0.08s
LAT = 53.62 N ± 2.83km
LONG = 167.44 W ± 1.20km
DEPTH = 31 km ± 0.48km
STATIONS USED = 81, STAND DEV = 1.16s
Ms = 6.1 / 38, m_B = 5.7 / 5

MDJ	40.9	284	eP	22 40 14.4	−2.0		
			PP	22 41 50.4	−3.6		
			S	22 46 20.0	−5.2		
			LE	Ms = 6.0		18.0	11.3
CN2	43.8	285	+P	22 40 39.2	−0.7		
			ePP	22 42 21.0	−2.6		
			eScP	22 46 17.0	3.2		
			eS	22 47 07.0	−1.4		
			LE	Ms = 6.1		18.0	13.7
SNY	46.1	285	+P	22 40 58.2	−0.1		
			PP	22 42 46.0	−0.2		
			SMN			28.0	8.31
			SME			26.0	5.96
			LN	Ms = 6.0		14.0	2.93
			LE			18.0	8.77
DL2	49.1	283	eP	22 41 21.7	−0.3		
			eS	22 48 24.0	−0.4		
			LN	Ms = 6.0		16.0	6.96
			LE			14.0	3.19
BJI	51.5	288	eP	22 41 39.5	−0.6		
			ePP	22 43 36.0	−1.3		
			eS	22 48 57.0	−0.3		
			SMN			19.0	5.15
			SME			18.0	3.38
			LN	Ms = 6.2		18.0	10.9
			LE			18.0	6.83
HHC	53.6	291	eP	22 41 51.0	−4.5		
			S	22 49 18.0	−6.1		
			LN	Ms = 6.2		18.0	10.1
			LE			18.0	8.00
TIA	53.6	283	eP	22 41 54.6	−1.0		
			eS	22 49 25.5	−0.2		
			LE	Ms = 6.1		21.0	10.6
BTO	54.6	292	eP	22 42 03.0	−0.1		
			PP	22 44 05.0	−1.0		
			S	22 49 37.0	−0.9		
			SS	22 53 17.0	−3.1		
			LN	Ms = 6.3		17.0	10.3
			LE			17.0	7.20
TIY	55.2	288	+P	22 42 09.0	1.3		
			sS	22 50 07.0	4.0		
			LN	Ms = 6.2		22.0	9.90
			LE			16.5	6.36
NJ2	55.5	279	+P	22 42 09.0	−0.7		
			eS	22 49 51.5	−0.1		
			LN	Ms = 6.1		15.0	6.80
WHN	59.3	281	eP	22 42 35.0	−1.2		
			eS	22 50 38.0	−2.8		
			SMN	m_B = 5.4		10.0	0.55
			LE	Ms = 5.5		36.0	4.49
XAN	59.9	287	eP	22 42 39.2	−1.1		
			PcP	22 43 28.0	2.4		
			eS	22 50 49.0	0.4		
			ScS	22 52 26.5	2.8		
			LN	Ms = 6.1		16.0	4.86
			LE			16.0	4.21
QZH	60.9	273	+P	22 42 48.0	0.5		
			S	22 51 06.0	5.2		
			SMN	m_B = 6.9		4.0	6.02
			LN	Ms = 5.8		36.0	6.17
			LE			36.0	6.17
GTA	60.9	298	P	22 42 46.2	−1.6		
			eS	22 51 02.5	−0.2		
			LE	Ms = 6.2		17.0	8.90
LZH	61.2	292	eP	22 42 50.0	0.4		
			eS	22 51 02.0	−4.1		
			LN	Ms = 6.4		18.0	12.8
			LE			17.0	6.40
WMQ	63.7	309	+P	22 43 06.0	0.0		
			S	22 51 38.0	2.4		
			LN	Ms = 6.3		17.0	10.9
CD2	65.1	289	eP	22 43 15.2	0.0		
			S	22 51 57.7	4.6		
			ScS	22 52 58.0	−5.1		
			LN	Ms = 6.1		18.0	7.58
GZH	65.4	276	eP	22 43 18.5	1.2		
			eS	22 52 00.0	1.5		
			LN	Ms = 5.7		32.0	4.63
GYA	66.8	283	P	22 43 26.0	−0.1		
			S	22 52 16.0	2.3		
			LN	Ms = 6.2		18.0	6.10
			LE			18.0	5.40
KMI	70.1	285	+P	22 43 48.0	1.4		
			S	22 52 56.0	3.1		
			LN	Ms = 6.2		20.0	9.00
KSH	72.4	313	eP	22 44 04.0	3.3		
			PP	22 46 47.0	4.4		
			eS	22 53 26.0	4.2		
			ScS	22 54 07.0	6.6		

			LE	Ms=5.7	17.0	2.30	
LSA	72.9	297	+P	22 44 03.9	−0.2		

1986 7 20
O=14 29 46.0 ± 0.10s
LAT=37.59 N ± 2.58km
LONG=118.43 W ± 1.57km
DEPTH= 7 km ± 0.79km
STATIONS USED = 47, STAND DEV= 1.49s
Ms=5.7/21, m_B=5.9/15

MDJ	77.7	317	eP	14 41 45.5	−0.5		
			PP	14 44 39.0	−3.3		
			S	14 51 34.0	−2.2		
CN2	80.5	319	−P	14 41 58.0	−3.0		
			pP	14 42 02.0	−3.8		
			cPP	14 45 06.0	1.2		
			cS	14 52 00.0	−7.0		
			SMN	m_B=6.0	8.0	0.90	
			cSS	14 57 26.0	5.9		
SNY	82.8	318	−iP	14 42 12.5	−0.8		
			PMZ	m_B=5.8	7.0	0.62	
			PP	14 45 25.4	1.0		
			S	14 52 33.0	3.4		
			SMN	m_B=6.1	7.0	0.85	
			SME		10.0	1.00	
			SS	14 58 04.0	8.4		
			LN	Ms=5.8	34.0	3.33	
			LE		30.0	2.82	
DL2	86.0	317	eP	14 42 30.0	0.9		
			eSKS	14 52 53.0	1.9		
			S	14 53 05.0	4.5		
			SMN	m_B=6.0	8.0	0.92	
			SME		8.0	0.81	
			LE	Ms=5.6	15.0	1.08	
BJI	87.9	321	eP	14 42 39.5	0.8		
			ePP	14 46 13.0	6.7		
			eSKS	14 53 08.0	4.0		
			eS	14 53 31.0	9.9		
			SME	m_B=5.7	11.0	0.78	
			LN	Ms=5.6	18.0	1.05	
			LE		18.0	0.92	
HHC	89.5	324	P	14 42 47.0	0.6		
			eSKS	14 53 21.0	7.2		
			S	14 53 33.0	−1.1		
			sS	14 53 41.0	−3.0		
			LN	Ms=5.6	12.0	0.86	
TIA	90.4	318	+P	14 42 49.7	−0.5		
			eS	14 53 43.5	0.1		
			SMN	m_B=5.8	9.2	0.40	
			SME		9.2	0.66	
			LN	Ms=5.8	16.5	0.75	
			LE		19.0	2.03	
BTO	90.4	325	eP	14 42 51.0	0.3		
			sP	14 42 57.5	−0.4		
			cPP	14 46 28.0	2.1		
			eSKS	14 53 20.0	0.8		
			S	14 53 43.0	0.7		
			SMN	m_B=5.9	8.0	0.70	
			SME		8.0	0.40	
			LN	Ms=6.1	20.0	2.00	
			LE		20.0	3.50	
TIY	91.6	322	P	14 42 56.2	0.3		
			PP	14 46 36.0	0.8		
			SMN	m_B=6.1	8.0	1.07	
			SME		8.5	0.54	
			LN	Ms=5.8	16.0	1.34	
			LE		13.0	0.75	
SSE	91.9	312	eP	14 42 58.3	1.2		
			PMZ		1.5	0.070	
			SKS	14 53 34.0	6.5		
			S	14 54 02.0	7.0		
			SS	15 00 08.0	1.8		
			LE	Ms=5.7	28.0	2.58	
NJ2	92.5	314	eP	14 43 01.0	0.9		
			S	14 54 06.0	5.3		
			LN	Ms=5.9	15.0	2.10	
WMQ	95.6	341	P	14 43 15.0	0.7		
			SKS	14 53 54.5	6.3		
			S	14 54 32.0	5.0		
			SMN	m_B=5.6	12.0	0.52	
			LE	Ms=5.8	28.0	3.15	
GTA	95.7	331	eP	14 43 16.0	1.1		
			PP	14 47 09.0	1.6		
			SKS	14 53 54.0	5.2		
			S	14 54 34.0	5.9		
			SMN	m_B=5.9	7.5	0.64	
			LN	Ms=5.7	36.0	1.74	
			LE		38.0	2.75	
WHN	96.2	316	eP	14 43 15.2	−1.7		
			eS	14 54 28.0	−5.8		
			SMN	m_B=5.8	8.0	0.53	
			LN	Ms=5.8	16.0	1.26	
			LE		14.0	1.00	
XAN	96.2	322	eP	14 43 18.7	1.5		
			LN	Ms=5.7	13.0	1.05	
LZH	96.9	327	eP	14 43 22.0	1.7		
			LN	Ms=5.8	30.0	1.44	
			LE		32.0	3.07	

1986 7 20

O = 01 59 07.8 ± 0.06s
LAT = 53.61 N ± 2.06km
LONG = 167.23 W ± 1.06km
DEPTH = 30 km ± 0.44km
STATIONS USED = 23, STAND DEV = 1.57s
Ms = 4.9 / 2,

CN2	43.9	286	eP	02 07 15.0	0.8		
SNY	46.2	285	−P	02 07 34.4	1.8		
			eS	02 14 16.0	−0.7		
			LN	Ms = 5.0		21.0	1.05
GTA	61.1	298	eP	02 09 21.2	−0.8		

1986 7 20
O = 15 20 40.2 ± 0.08s
LAT = 6.20 S ± 1.42km
LONG = 123.06 E ± 1.75km
DEPTH = 31 km ± 0.18km
STATIONS USED = 23, STAND DEV = 0.99s

CD2	41.3	334	eP	15 28 24.4	−0.3
XAN	42.2	342	eP	15 28 32.0	−0.3
DL2	44.9	358	eP	15 28 53.8	−0.3
BJI	46.4	353	eP	15 29 06.0	−0.4
LSA	47.0	321	+P	15 29 10.5	−1.1
GTA	50.2	337	P	15 29 35.6	−0.3
WMQ	59.1	331	P	15 30 41.0	0.0
KSH	62.9	320	eP	15 31 07.0	0.8

1986 7 20
O = 15 56 23.3 ± 0.12s
LAT = 29.72 N ± 3.96km
LONG = 51.60 E ± 1.48km
DEPTH = 23 km ± 1.71km
STATIONS USED = 19, STAND DEV = 1.95s

KSH	22.2	58	eP	16 01 21.0	0.5
GTA	40.5	63	P	16 04 03.6	1.2
BTO	48.2	60	eP	16 05 07.2	2.5
GYA	48.3	80	eP	16 05 05.6	0.0
XAN	48.3	69	eP	16 05 06.3	0.6

1986 7 20
O = 16 19 45.7 ± 0.04s
LAT = 52.10 N ± 1.54km
LONG = 174.76 W ± 0.65km
DEPTH = 32 km ± 0.13km
STATIONS USED = 17, STAND DEV = 0.89s

SNY	42.1	281	−iP	16 27 38.4	1.4
TIA	49.5	279	eP	16 28 35.6	−0.4
GYA	62.7	279	P	16 30 10.0	−0.6
KMI	66.1	281	eP	16 30 32.5	−0.1

1986 7 20
O = [illegible] 03 46.3 ± 0.47s
LAT = [illegible].45 S ± 2.65km
LONG = 74.02 W ± 0.92km
DEPTH = 113 km ± 4.47km
STATIONS USED = 34, STAND DEV = 3.32s

SNY	145.1	337	ePKP	18 23 09.4	−2.1
DL2	148.4	336	+PKP	18 23 19.0	2.1
BJI	149.2	345	ePKP	18 23 17.5	−0.6
TIY	152.2	349	PKP	18 23 29.2	6.3
TIA	152.4	340	ePKP	18 23 23.4	0.3
XAN	156.4	354	ePKP	18 23 28.2	−0.2

1986 7 20
O = 18 09 05.5 ± 0.11s
LAT = 56.75 S ± 2.65km
LONG = 3.84 W ± 4.88km
DEPTH = 11 km ± 0.84km
STATIONS USED = 38, STAND DEV = 1.92s

KSH	116.9	59	ePKP	18 27 54.0	2.4
			PP	18 29 04.0	−0.2
GYA	122.9	91	PKP	18 28 04.0	0.9
CD2	124.7	85	ePKP	18 28 07.2	0.6
WMQ	125.9	63	PKP	18 28 09.8	0.9
LZH	128.7	81	ePKP	18 28 14.5	0.1
GTA	128.9	75	PKP	18 28 14.4	−0.5
XAN	129.9	87	PKP	18 28 16.6	−0.1
TIY	134.6	87	ePKP	18 28 25.5	0.0
BJI	138.3	87	ePKP	18 28 33.0	0.8
DL2	140.5	93	ePKP	18 28 35.9	−0.3
SNY	143.6	91	ePKP	18 28 39.0	−2.5
CN2	145.9	90	+PKP	18 28 45.8	0.2
MDJ	148.7	93	ePKP	18 28 48.5	−1.7

1986 7 20
O = 20 35 52.2 ± 0.19s
LAT = 15.84 N ± 1.13km
LONG = 119.89 E ± 0.80km
DEPTH = 83 km ± 2.22km
STATIONS USED = 9, STAND DEV = 3.41s

TIY	22.8	345	eP	20 41 05.4	17.5
SNY	26.1	6	−P	20 41 36.2	16.5

1986 7 20
O = 21 27 22.2 ± 0.14s
LAT = 55.81 N ± 3.97km
LONG = 157.47 W ± 3.13km
DEPTH = 31 km ± 2.52km
STATIONS USED = 26, STAND DEV = 1.35s

CN2	48.7	290	+P	21 36 05.0	−0.8

			pP	21 36 14.5	−0.3		
SNY	51.0	289	−iP	21 36 24.0	0.2		
XAN	64.5	293	eP	21 37 58.4	−0.5		
GTA	64.8	303	P	21 38 00.0	−1.0		
WMQ	66.6	314	P	21 38 12.0	−0.1		
CD2	69.6	295	eP	21 38 31.4	0.1		
GYA	71.7	290	P	21 38 43.8	0.0		

1986 7 21
O=01 01 52.6 ± 0.14s
LAT=15.88 S ± 2.87km
LONG=172.25 W ± 2.16km
DEPTH= 31 km ± 0.43km
STATIONS USED = 20, STAND DEV= 1.95s

CN2	82.2	320	eP	01 14 12.0	−0.7		
DL2	82.3	314	eP	01 14 20.0	6.6		
SNY	82.4	317	eP	01 14 11.7	−2.0		
BJI	86.6	313	eP	01 14 34.0	−0.9		
TIY	88.4	310	eP	01 14 43.8	0.1		

1986 7 21
O=12 11 15.0 ± 0.26s
LAT=20.63 S ± 3.49km
LONG=174.10 W ± 4.56km
DEPTH= 34 km ± 0.77km
STATIONS USED = 65, STAND DEV= 1.92s
Ms=5.1/ 5,

QZH	79.6	302	+P	12 23 20.6	−0.4		
SSE	80.6	308	−P	12 23 26.4	−0.2		
			PMZ			0.8	0.090
MDJ	82.8	323	+P	12 23 38.1	0.2		
			pP	12 23 47.5	−0.2		
			S	12 33 48.5	−2.4		
NJ2	82.8	308	+iP	12 23 39.0	1.0		
DL2	84.4	315	+P	12 23 46.0	0.0		
CN2	84.7	321	+P	12 23 47.5	0.0		
			pP	12 23 56.0	−1.3		
			eS	12 34 08.0	−3.6		
SNY	84.7	318	+iP	12 23 48.0	0.4		
			pP	12 23 58.0	0.6		
			S	12 34 14.0	3.9		
			LN	Ms=5.1		32.0	0.77
WHN	85.5	305	+P	12 23 52.2	0.7		
			eS	12 34 18.0	−1.6		
TIA	86.1	311	+P	12 23 55.3	0.8		
BJI	88.6	314	eP	12 24 07.0	0.5		
			pP	12 24 17.0	0.5		
GYA	89.9	298	P	12 24 14.4	1.4		
			pP	12 24 23.0	0.3		
TIY	90.1	311	eP	12 24 13.0	−0.9		
XAN	91.1	306	+P	12 24 19.3	0.6		
			pP	12 24 28.8	0.3		
			eS	12 35 20.0	7.6		
HHC	92.1	313	+P	12 24 23.5	0.4		
KMI	92.7	296	+P	12 24 27.5	1.5		
BTO	93.0	312	P	12 24 28.0	0.5		
			pP	12 24 39.0	1.7		
			eSKS	12 34 57.0	1.1		
			S	12 35 25.0	−2.2		
CD2	94.0	301	eP	12 24 32.3	0.8		
LZH	95.8	306	−iP	12 24 41.5	1.6		
			PMZ			2.0	0.070
GTA	99.9	308	P	12 25 01.2	2.5		

1986 7 21
O=14 42 25.9 ± 0.14s
LAT=37.65 N ± 2.99km
LONG=118.40 W ± 2.51km
DEPTH= 8 km ± 0.25km
STATIONS USED = 68, STAND DEV= 1.74s
Ms=6.3/35, m_B=6.2/19

MDJ	77.7	317	eP	14 54 24.3	−1.4		
			pP	14 54 28.0	−2.7		
			PP	14 57 24.0	2.2		
			S	15 04 20.0	4.4		
			SMN			14.0	2.59
			sS	15 04 35.1	9.4		
			ScS	15 04 44.0	3.8		
			PS	15 04 59.0			
CN2	80.4	319	−P	14 54 39.0	−1.6		
			PMZ	m_B=6.4		4.0	1.50
			pP	14 54 42.0	−3.6		
			PP	14 57 41.0	−3.4		
			PPMZ			6.0	0.80
			eS	15 04 42.5	−3.9		
			SMN	m_B=6.2		9.0	1.40
			SME			9.0	1.10
			SS	15 10 04.0	4.6		
SNY	82.8	318	−iP	14 54 52.7	−0.3		
			PMZ	m_B=6.6		3.5	1.87
			S	15 05 11.0	2.0		
			SME			21.0	4.42
			sS	15 05 18.0	−1.2		
			SS	15 10 44.0	9.1		
			LN	Ms=6.4		39.0	18.6
			LE			39.0	12.7
DL2	85.9	317	−P	14 55 08.0	−0.7		
			PP	14 58 26.5	−2.5		
			eSKS	15 05 30.0	−0.6		
			eS	15 05 38.0	−3.6		

			LN		Ms=6.5	16.0	5.06
			LE			17.0	7.60
BJI	87.9	321	eP	14 55 18.0	−0.4		
			PP	14 58 40.0	−5.9		
			eSKS	15 05 48.0	4.5		
			eS	15 06 08.0	7.5		
			SMN		m_B=6.3	9.0	2.03
			SME			9.0	1.29
			LN		Ms=6.1	20.0	3.60
			LE			20.0	3.78
HHC	89.5	324	−P	14 55 25.5	−0.6		
			iPP	14 58 58.0	−0.5		
			S	15 06 15.0	1.5		
			LN		Ms=6.4	15.0	4.53
			LE			16.0	5.89
TIA	90.3	318	eP	14 55 29.1	−0.7		
			PMZ		m_B=6.5	5.0	1.48
			PP	14 59 02.0	−3.0		
			SMN		m_B=5.9	9.5	0.51
			SME			9.5	0.86
			SS	15 12 19.0	−5.5		
			LN		Ms=6.6	15.0	1.17
			LE			20.5	13.7
BTO	90.4	325	+P	14 55 29.5	−0.8		
			sP	14 55 35.0	−2.8		
			PP	14 59 04.0	−1.5		
			SKS	15 05 59.5	0.8		
			S	15 06 20.5	−1.2		
			SMN		m_B=6.3	10.0	1.70
			SME			10.0	2.40
			LN		Ms=6.5	19.0	7.50
			LE			21.0	9.70
TIY	91.6	322	eP	14 55 36.0	0.4		
			PP	14 59 15.0	0.3		
			SKS	15 06 11.0	5.6		
			SMN			14.0	5.56
			SME			14.0	5.24
			LN		Ms=6.6	15.0	3.95
			LE			15.0	9.14
SSE	91.8	312	eP	14 55 36.0	−0.8		
			PMZ			1.6	0.22
			PP	14 59 14.0	−3.2		
			SKS	15 06 10.0	3.0		
			SS	15 12 42.0	−3.6		
			LN		Ms=6.3	18.0	2.46
			LE			20.0	6.25
NJ2	92.5	314	eP	14 55 40.0	0.2		
			SKS	15 06 10.0	−0.7		
			S	15 06 39.0	−1.2		
			LN		Ms=6.6	18.0	11.2
WMQ	95.5	341	P	14 55 54.0	0.1		
			PMZ			2.0	0.15
			PP	14 59 44.0	−1.8		
			SKS	15 06 32.0	4.4		
			S	15 07 06.5	0.2		
			SME		m_B=6.0	12.0	1.35
			SS	15 13 46.0	7.7		
			LE		Ms=6.6	32.0	23.3
GTA	95.7	331	P	14 55 54.0	−0.5		
			PMZ		m_B=6.2	10.0	0.64
			PP	14 59 51.0	4.1		
			PPMZ		m_B=6.2	12.0	1.12
			SKS	15 06 33.0	4.7		
			S	15 07 09.0	1.6		
			SME			17.0	1.48
			LN		Ms=6.3	19.0	6.45
WHN	96.1	316	eP	14 55 55.5	−1.0		
			PMZ		m_B=6.8	5.0	1.08
			PP	14 59 50.0	−0.7		
			PPMZ		m_B=6.6	5.0	1.27
			eSKS	15 06 30.0	−0.8		
			LN		Ms=6.6	21.0	12.5
XAN	96.2	322	P	14 55 56.1	−0.8		
			PP	14 59 47.0	−4.2		
			PPMZ		m_B=6.2	7.0	0.76
			SKS	15 06 34.0	2.9		
			SMN		m_B=6.1	10.0	1.05
			SME			12.0	0.90
			LN		Ms=6.3	13.0	3.49
			LE			15.0	3.60
LZH	96.9	327	P	14 56 02.0	2.0		
			PMZ			2.5	0.12
			cSKS	15 06 37.5	3.2		
			SMN		m_B=6.0	10.0	1.05
			LN		Ms=5.5	15.0	0.79
QZH	97.9	310	eP	14 56 06.0	1.5		
			PP	15 00 04.5	−0.4		
			SKS	15 06 46.0	5.5		
			LN		Ms=6.3	17.0	3.20
			LE			17.0	4.22
CD2	101.2	324	P	14 56 17.0	−2.7		
			SKS	15 07 00.0	3.4		
			LN		Ms=6.8	34.0	31.3
KSH	102.1	349	P	14 56 24.7	0.8		
			PP	15 00 40.7	4.0		
			iSKS	15 07 04.7	3.8		
			S	15 08 05.7	3.8		
			LE		Ms=6.6	15.0	8.80
GZH	102.4	312	eP	14 56 28.0	3.0		
			SMN		m_B=6.5	10.0	1.27

		SME			10.0	0.90
		LN	Ms=6.0		50.0	7.30

1986 7 21
O=15 24 44.0 ± 0.06s
LAT=56.53 N ± 2.15km
LONG=153.47 W ± 1.47km
DEPTH= 35 km ± 0.68km
STATIONS USED = 50, STAND DEV= 1.05s

MDJ	47.8	290	eP	15 33 19.4	−0.8		
CN2	50.5	292	+P	15 33 40.0	−1.1		
SNY	52.9	291	+P	15 33 58.6	−0.3		
BJI	57.9	295	eP	15 34 36.0	0.2		
BTO	60.5	300	eP	15 34 53.2	−0.7		
NJ2	62.7	287	eP	15 35 08.0	−0.3		
GTA	66.2	306	P	15 35 30.7	−0.7		
XAN	66.2	296	P	15 35 31.1	−0.3		
WHN	66.3	290	eP	15 35 30.7	−0.6		
LZH	67.1	301	P	15 35 37.0	0.3		
			PMZ			1.2	0.020
WMQ	67.6	317	P	15 35 41.0	1.0		
CD2	71.3	298	eP	15 36 03.4	0.6		
GYA	73.5	293	P	15 36 16.0	0.1		

1986 7 21
O=15 47 02.6 ± 0.06s
LAT=48.77 N ± 1.90km
LONG=150.75 E ± 1.28km
DEPTH=319 km ± 0.42km
STATIONS USED = 50, STAND DEV= 0.98s

MDJ	15.1	262	+P	15 50 19.5	−2.9		
CN2	18.1	264	−P	15 50 52.2	−2.3		
SNY	20.3	260	eP	15 51 15.9	0.4		
DL2	23.1	256	eP	15 51 42.6	0.1		
BJI	26.0	263	P	15 52 10.0	0.7		
HHC	28.7	269	eP	15 52 33.0	0.0		
TIY	29.7	263	+iP	15 52 43.5	1.1		
			PMZ			1.0	0.060
			LE			14.0	3.31
BTO	29.8	270	P	15 52 43.0	−0.1		
WHN	33.0	250	eP	15 53 10.0	−0.6		
XAN	34.2	260	eP	15 53 20.6	−0.1		
LZH	36.3	267	+iP	15 53 40.0	1.3		
			PMZ			1.0	0.080
GTA	37.1	275	P	15 53 44.8	−0.8		
CD2	39.5	261	eP	15 54 06.2	0.9		
GYA	40.7	253	P	15 54 14.8	0.1		
WMQ	42.7	288	P	15 54 32.0	0.7		
KMI	44.1	255	eP	15 54 43.0	0.5		

1986 7 21
O=19 46 08.3 ± 0.10s
LAT= 0.44 N ± 1.17km
LONG=126.03 E ± 1.62km
DEPTH= 77 km ± 0.52km
STATIONS USED = 27, STAND DEV= 1.56s

XAN	37.1	336	P	19 53 12.6	−0.6
BJI	40.4	348	P	19 53 42.0	1.0
SNY	41.3	357	eP	19 53 47.7	−0.1
CN2	43.2	359	eP	19 54 04.4	0.8
MDJ	44.1	4	eP	19 54 10.0	−1.1
GTA	45.6	331	P	19 54 23.0	−0.1
WMQ	55.0	327	P	19 55 35.5	0.5
KSH	59.9	317	eP	19 56 13.0	4.0

1986 7 21
O=20 46 52.1 ± 0.25s
LAT=17.49 S ± 4.11km
LONG=179.05 W ± 1.05km
DEPTH=537 km ± 3.27km
STATIONS USED = 32, STAND DEV= 2.22s

NJ2	77.2	310	+P	20 57 53.6	1.1
MDJ	77.5	325	eP	20 57 54.6	0.5
DL2	78.9	317	eP	20 57 57.3	−4.1
CN2	79.3	323	+P	20 58 04.0	0.2
WHN	79.9	306	eP	20 58 07.5	0.9
BJI	83.1	316	eP	20 58 23.0	0.0
XAN	85.5	308	+P	20 58 36.1	1.0
KMI	87.1	297	+P	20 58 44.5	1.8
GTA	94.3	310	P	20 59 15.8	−0.1

1986 7 21
O=22 07 16.3 ± 0.06s
LAT=37.53 N ± 1.77km
LONG=118.35 W ± 1.71km
DEPTH= 8 km ± 0.69km
STATIONS USED = 31, STAND DEV= 1.47s
Ms=5.1/ 4,

MDJ	77.8	317	eP	22 19 14.0	−2.5		
			S	22 29 08.0	1.0		
CN2	80.5	319	eP	22 19 30.6	−0.9		
			pP	22 19 33.6	−3.0		
			eS	22 29 32.0	−5.7		
SNY	82.9	318	+P	22 19 44.6	0.8		
DL2	86.0	317	P	22 20 00.0	0.5		
TIA	90.4	318	eP	22 20 21.0	0.4		
BTO	90.5	325	P	22 20 22.0	0.9		
TIY	91.7	322	eP	22 20 27.4	1.0		
			eS	22 31 31.0	5.9		
			LE	Ms=5.0		15.0	0.29

SSE	91.9	312	eP	22 20 28.0	0.5		
			SKS	22 31 00.0	2.2		
			LN	Ms=5.3		20.0	0.30
			LE			20.0	0.58
NJ2	92.6	314	+P	22 20 31.0	0.5		

1986 7 21
O=22 41 56.3 ± 0.06s
LAT=44.82 N ± 0.89km
LONG= 79.35 E ± 0.83km
DEPTH= 30 km ± 0.24km
STATIONS USED = 18, STAND DEV= 1.88s
M_L=4.1/ 6,

KSH	5.9	206	ePn	22 43 25.0	2.5		
			Sn	22 44 28.0	−3.0		
WMQ	6.1	97	ePn	22 43 26.8	2.3		
			Sn	22 44 36.4	1.7		
			Sg	22 45 07.0	0.5		
			SMN	M_L=4.4		0.6	0.24
BTO	22.9	90	P	22 46 59.3	0.8		

1986 7 22
O=02 00 05.7 ± 0.11s
LAT=51.61 N ± 4.58km
LONG=176.00 W ± 2.20km
DEPTH= 29 km ± 1.17km
STATIONS USED = 26, STAND DEV= 1.29s

SNY	41.5	281	−P	02 07 52.6	0.5		
DL2	44.4	279	eP	02 08 16.0	0.0		
TIA	48.9	279	eP	02 08 51.4	0.1		
WHN	54.4	276	eP	02 09 32.0	−0.8		
XAN	55.3	283	eP	02 09 38.2	−1.6		

1986 7 22
O=02 12 46.0 ± 0.10s
LAT=33.64 S ± 1.73km
LONG=178.29 W ± 2.45km
DEPTH= 32 km ± 0.54km
STATIONS USED = 24, STAND DEV= 1.89s
m_B=5.7/ 3

QZH	83.6	305	eP	02 25 12.0	−1.5		
			S	02 35 30.0	−1.0		
			SME	m_B=5.7		8.0	0.44
MDJ	91.1	326	eP	02 25 49.2	−0.8		
TIA	92.0	313	eP	02 25 52.8	−1.1		
			SME	m_B=5.8		5.5	0.49
SNY	92.1	321	−P	02 25 58.4	3.9		
CN2	92.6	323	+P	02 25 54.8	−1.7		
BJI	95.1	315	P	02 26 12.5	4.7		
			eSKS	02 36 40.0	1.5		
			eS	02 37 24.0	6.3		
			SMN	m_B=5.6		8.0	0.41

1986 7 22
O=06 12 26.1 ± 0.07s
LAT=38.53 N ± 1.65km
LONG=141.98 E ± 1.05km
DEPTH=103 km ± 0.87km
STATIONS USED = 23, STAND DEV= 1.79s

MDJ	11.1	307	eP	06 15 03.4	0.5
CN2	13.5	298	eP	06 15 33.4	−1.5
DL2	15.9	278	eP	06 16 07.2	2.0
TIA	19.9	271	eP	06 16 52.6	0.9
BJI	20.0	282	eP	06 16 52.0	−1.2
GYA	31.9	258	eP	06 18 42.8	−1.8

1986 7 22
O=10 14 24.9 ± 0.10s
LAT= 6.43 S ± 1.07km
LONG=154.91 E ± 1.26km
DEPTH= 58 km ± 0.40km
STATIONS USED = 31, STAND DEV= 1.04s

WHN	53.5	316	eP	10 23 43.0	1.0
CN2	56.6	335	eP	10 24 04.0	−1.1
GYA	57.0	307	P	10 24 09.8	1.8
XAN	59.2	316	P	10 24 23.0	−0.3
KMI	59.6	304	eP	10 24 28.0	1.8
CD2	61.4	310	eP	10 24 38.6	0.7
GTA	68.3	317	P	10 25 23.6	1.0

1986 7 22
O=11 28 33.5 ± 0.23s
LAT= 0.79 S ± 3.31km
LONG=134.37 E ± 4.20km
DEPTH= 26 km ± 0.51km
STATIONS USED = 71, STAND DEV= 2.62s
Ms=5.1/22, m_B=5.4/ 6

QZH	29.8	330	eP	11 34 37.5	−3.3		
			S	11 39 30.0	−4.0		
			SMN	m_B=5.2		12.0	0.62
			LE	Ms=4.7		14.0	0.73
GZH	31.3	321	eP	11 34 55.0	0.5		
			eS	11 39 52.0	−7.0		
SSE	34.1	340	eP	11 35 22.0	3.5		
			PMZ			1.0	0.030
			pP	11 35 29.5	3.0		
			eS	11 40 40.0	−2.0		
			esS	11 40 50.0	−5.3		
			LN	Ms=5.2		16.0	0.59
			LE			16.0	2.07

NJ2	35.8	337	−P	11 35 33.0	−0.2		
			pP	11 35 40.5	−0.7		
			S	11 41 10.0	2.3		
			LN	Ms = 5.1		12.0	1.20
WHN	36.5	330	eP	11 35 38.0	−1.2		
			eS	11 41 18.0	−1.6		
			SMN	m_B = 5.3		9.0	0.54
			LE	Ms = 5.0		13.0	1.14
GYA	38.0	317	eP	11 36 10.0	18.6		
KMI	40.0	312	eP	11 36 09.0	0.5		
			eS	11 42 11.0	−1.9		
TIA	40.2	338	eP	11 36 07.3	−2.3		
			eS	11 42 10.5	−4.3		
			SME	m_B = 5.4		7.5	0.48
			LE	Ms = 5.2		17.5	1.94
DL2	41.2	345	eP	11 36 22.0	3.8		
			eS	11 42 32.0	1.7		
			LE	Ms = 5.3		16.0	1.92
XAN	42.1	328	eP	11 36 23.6	−1.9		
			pP	11 36 31.6	−1.9		
			eS	11 42 40.0	−3.5		
			LN	Ms = 4.8		13.0	0.58
CD2	42.9	320	eP	11 36 30.6	−1.5		
			eS	11 42 50.0	−5.2		
TIY	43.3	334	P	11 36 36.0	0.2		
			S	11 43 03.5	2.8		
			sS	11 43 17.0	1.8		
			LE	Ms = 5.3		13.0	1.46
SNY	43.5	348	−P	11 36 42.8	5.6		
			eS	11 43 07.0	2.5		
			LN	Ms = 5.3		22.0	1.63
			LE			18.0	1.52
BJI	43.9	340	eP	11 36 38.5	−1.8		
			epP	11 36 46.0	−2.4		
			eS	11 43 08.0	−1.9		
			SMN	m_B = 5.3		9.0	0.32
			SME			7.0	0.29
			LN	Ms = 5.0		15.0	0.85
CN2	45.1	351	eP	11 36 49.0	−0.9		
			eS	11 43 24.0	−3.3		
			LE	Ms = 5.1		15.0	1.00
MDJ	45.4	355	eP	11 36 52.0	−0.4		
			S	11 43 30.0	−0.6		
			PcS	11 42 27.0	3.2		
HHC	46.3	336	eP	11 37 01.6	1.7		
			S	11 43 43.0	−0.9		
			LN	Ms = 5.0		14.0	0.70
			LE			14.0	0.33
LZH	46.4	325	P	11 37 00.5	0.1		
			PMZ			2.0	0.090
			pP	11 37 08.0	−0.3		
			eS	11 43 38.0	−8.1		
BTO	46.8	334	P	11 37 03.0	−0.3		
			epP	11 37 11.0	−0.3		
			eS	11 43 47.0	−4.4		
			LN	Ms = 5.1		15.0	0.70
			LE			13.0	0.60
GTA	51.0	326	+iP	11 37 35.6	−0.4		
			pP	11 37 42.0	−1.9		
			eS	11 44 48.0	−2.5		
			LE	Ms = 4.6		12.0	0.22
LSA	51.1	310	−iP	11 37 36.0	−1.5		
WMQ	60.8	323	P	11 38 45.8	−1.0		
			PcP	11 39 33.7	4.5		
			S	11 47 04.5	4.4		
			sS	11 47 18.0	3.1		
			LN	Ms = 5.1		20.0	0.83
KSH	66.6	314	eP	11 39 31.0	6.4		
			pP	11 39 41.0	8.3		
			eS	11 48 20.0	6.8		

1986 7 22

O = 23 09 02.9 ± 0.17s
LAT = 30.55 N ± 0.90km
LONG = 99.79 E ± 1.39km
DEPTH = 37 km ± 0.53km
STATIONS USED = 8, STAND DEV = 3.09s
M_L = 3.5 / 4,

1986 7 23

O = 00 08 40.4 ± 0.08s
LAT = 51.43 N ± 3.56km
LONG = 176.19 W ± 1.33km
DEPTH = 33 km ± 0.46km
STATIONS USED = 40, STAND DEV = 0.84s

SNY	41.4	281	eP	00 16 26.2	0.7	
BJI	47.0	284	eP	00 17 11.0	0.6	
HHC	49.2	287	P	00 17 29.0	0.6	
SSE	49.6	271	eP	00 17 31.0	−0.2	
BTO	50.3	288	P	00 17 37.5	0.9	
TIY	50.7	284	eP	00 17 40.2	0.8	
			PMZ		1.0	0.030
			(S)	00 24 54.5	3.1	
XAN	55.2	283	eP	00 18 12.4	−0.9	
			pP	00 18 26.0	3.3	
LZH	56.9	288	+iP	00 18 25.5	0.0	
			PMZ		1.0	0.080
GTA	57.1	293	P	00 18 25.4	−1.0	
CD2	60.6	284	eP	00 18 50.0	−0.6	
GYA	61.9	278	P	00 19 01.6	1.6	

KMI	65.3	280	eP	00 19 21.5	−0.9	

1986 7 23
O = 03 47 39.6 ± 0.12s
LAT = 51.49 N ± 5.57km
LONG = 176.28 W ± 1.94km
DEPTH = 29 km ± 0.59km
STATIONS USED = 62, STAND DEV = 1.53s

MDJ	36.1	281	eP	03 54 58.5	17.7	
CN2	39.1	282	eP	03 55 05.6	−0.6	
SNY	41.3	281	−iP	03 55 25.6	0.9	
DL2	44.2	279	eP	03 55 49.5	0.9	
BJI	46.9	284	eP	03 56 10.0	0.3	
TIA	48.7	279	eP	03 56 23.5	−0.5	
HHC	49.2	287	P	03 56 28.0	0.4	
SSE	49.6	271	+P	03 56 30.8	0.2	
			PMZ		1.0	0.020
BTO	50.2	288	−iP	03 56 37.0	1.1	
NJ2	50.4	274	eP	03 56 35.5	−1.3	
TIY	50.6	284	eP	03 56 39.2	0.5	
			PMZ		1.0	0.050
WHN	54.2	276	eP	03 57 04.0	−1.5	
XAN	55.2	283	eP	03 57 11.6	−1.0	
			pP	03 57 25.1	3.7	
LZH	56.9	288	+iP	03 57 25.5	0.7	
			PMZ		1.5	0.16
GTA	57.0	293	+iP	03 57 24.8	−0.9	
CD2	60.5	283	eP	03 57 50.0	0.0	
WMQ	60.6	304	P	03 57 50.0	−0.7	
GYA	61.9	278	P	03 58 01.0	1.6	
KMI	65.3	280	+P	03 58 21.0	−0.8	
LSA	68.9	291	+iP	03 58 45.2	0.4	
KSH	69.7	308	eP	03 58 51.0	1.3	

1986 7 23
O = 05 18 35.6 ± 0.16s
LAT = 26.77 N ± 1.73km
LONG = 95.37 E ± 2.35km
DEPTH = 25 km ± 0.64km
STATIONS USED = 28, STAND DEV = 2.27s
M_L = 4.1 / 2,

LSA	4.7	309	−iP	05 19 52.0	4.2	
			S	05 20 44.0	2.1	
			SME	M_L = 4.0	0.2	0.19
KMI	6.8	102	eP	05 20 19.0	1.9	
CD2	8.4	59	eP	05 20 40.8	1.5	
GYA	10.1	89	eP	05 21 20.2	17.9	
LZH	11.8	36	eP	05 21 25.0	−0.3	
XAN	13.7	55	eP	05 21 48.4	−3.2	
WHN	17.1	73	eP	05 22 34.0	−0.4	
TIY	18.1	49	eP	05 22 45.8	−1.1	
WMQ	18.1	342	eP	05 22 51.0	3.4	
BTO	18.4	38	eP	05 22 50.0	−0.7	
KSH	20.5	313	eP	05 23 35.0	20.4	
TIA	20.8	58	eP	05 23 16.3	−1.1	
NJ2	21.1	70	−P	05 23 20.0	−0.9	
BJI	21.8	47	eP	05 23 30.0	2.4	
SSE	23.0	73	eP	05 23 39.0	−0.6	

1986 7 23
O = 10 26 38.5 ± 0.09s
LAT = 20.52 S ± 0.09km
LONG = 177.80 W ± 1.29km
DEPTH = 568 km ± 1.07km
STATIONS USED = 16, STAND DEV = 1.25s

MDJ	80.6	325	eP	10 37 54.5	0.0	
CN2	82.4	322	eP	10 38 03.0	−0.6	

1986 7 23
O = 12 32 53.5 ± 0.04s
LAT = 36.71 N ± 0.52km
LONG = 71.32 E ± 0.45km
DEPTH = 177 km ± 0.29km
STATIONS USED = 10, STAND DEV = 1.12s
M_L = 4.3 / 2,

KSH	4.6	52	−P	12 34 05.0	1.9	
			S	12 34 57.6	1.3	
			SMN	M_L = 4.5	0.2	0.80
			SME		0.5	0.70

1986 7 23
O = 12 55 45.7 ± 0.07s
LAT = 8.74 S ± 1.62km
LONG = 105.22 E ± 1.96km
DEPTH = 34 km ± 0.64km
STATIONS USED = 32, STAND DEV = 1.17s

XAN	42.7	5	P	13 03 40.4	−1.2	
LZH	44.6	358	P	13 03 58.0	0.7	
			PMZ		1.3	0.020
TIA	46.1	13	eP	13 04 08.6	−0.4	
TIY	46.7	8	P	13 04 14.0	0.2	
GTA	48.2	354	P	13 04 26.4	1.0	
BTO	49.3	5	eP	13 04 34.0	0.0	
BJI	49.6	11	eP	13 04 36.0	−0.1	
WMQ	54.7	345	P	13 05 14.0	−0.5	
CN2	55.4	18	eP	13 05 17.4	−2.3	

1986 7 23,
O = 16 26 34.3 ± 0.14s
LAT = 1.82 N ± 2.03km

LONG = 126.36 E ± 1.60km
DEPTH = 65 km ± 1.13km
STATIONS USED = 41, STAND DEV = 1.79s

GYA	31.0	324	eP	16 32 57.0	9.1	
KMI	32.5	317	+P	16 33 02.0	0.5	
XAN	36.0	335	eP	16 33 29.2	−1.8	
CD2	36.0	326	eP	16 33 30.0	−1.2	
DL2	37.2	354	+P	16 33 41.1	0.0	
BJI	39.1	348	eP	16 33 57.0	−0.6	
SNY	39.9	357	eP	16 34 03.7	−0.2	
LZH	40.0	331	P	16 34 05.0	0.4	
			PMZ		1.5	0.030
MDJ	42.7	3	eP	16 34 28.1	1.1	
LSA	43.4	313	eP	16 34 32.7	−0.7	
WMQ	54.1	326	P	16 35 54.5	−0.7	

1986 7 23
O = 22 58 05.7 ± 0.17s
LAT = 23.99 N ± 1.20km
LONG = 121.09 E ± 1.19km
DEPTH = 25 km ± 0.09km
STATIONS USED = 10, STAND DEV = 1.74s
M_L = 3.9 / 3,

QZH	2.5	293	ePn	22 58 45.5	0.7	
			Sn	22 59 14.0	−1.7	
			SMN	M_L = 3.9	0.6	1.00
			SME		0.2	0.40
SSE	7.1	1	ePn	22 59 49.6	1.4	
			LG_1	23 01 50.0	2.0	
			LN		1.0	0.050
			LE		1.0	0.080
GZH	7.2	264	ePn	22 59 51.6	2.2	
			eSn	23 01 05.5	−6.6	
			LN		0.5	0.090
			LE		0.7	0.040
NJ2	8.3	347	eP	23 00 08.0	0.9	
			S	23 01 35.0	−5.4	
			LE		1.0	0.10

1986 7 24
O = 00 41 60.0 ± 0.05s
LAT = 51.47 N ± 2.08km
LONG = 176.68 W ± 0.74km
DEPTH = 30 km ± 0.72km
STATIONS USED = 25, STAND DEV = 0.78s

SNY	41.1	281	+P	00 49 43.2	0.2
BJI	46.6	283	eP	00 50 28.5	0.5
BTO	50.0	288	eP	00 50 55.0	0.6
XAN	54.9	282	P	00 51 31.0	−0.1
LZH	56.6	288	eP	00 51 42.5	−0.9
CD2	60.2	283	eP	00 52 08.6	0.0
GYA	61.6	278	eP	00 52 18.4	0.4
KMI	65.0	279	eP	00 52 41.0	0.5

1986 7 24
O = 02 35 55.7 ± 0.25s
LAT = 7.08 S ± 1.77km
LONG = 129.53 E ± 2.61km
DEPTH = 129 km ± 3.33km
STATIONS USED = 15, STAND DEV = 4.32s

XAN	45.3	336	eP	02 44 00.8	−2.1	

1986 7 24
O = 05 02 41.5 ± 0.34s
LAT = 43.80 N ± 1.17km
LONG = 87.52 E ± 1.50km
DEPTH = 24 km ± 2.23km
STATIONS USED = 23, STAND DEV = 3.19s
M_L = 4.3 / 5,

WMQ	0.1	80	+iPg	05 02 46.2	0.1	
			Sg	05 02 50.2	0.7	
KSH	9.7	247	eP	05 05 08.1	5.6	
			LG_1	05 07 54.0	8.9	
GTA	10.2	111	P	05 05 07.5	−2.4	
			LE		1.0	0.070
LSA	14.4	167	−iP	05 06 12.8	6.7	
XAN	19.2	113	eP	05 07 04.0	−3.2	
BJI	21.6	90	eP	05 07 35.5	3.5	
KMI	22.4	141	−P	05 07 40.0	−0.2	
GYA	23.2	132	P	05 07 48.8	0.4	

1986 7 24
O = 06 14 03.7 ± 0.10s
LAT = 15.41 S ± 0.74km
LONG = 167.82 E ± 1.39km
DEPTH = 136 km ± 0.58km
STATIONS USED = 27, STAND DEV = 0.86s

CN2	70.5	329	P	06 25 06.0	−0.2	
GYA	72.5	305	P	06 25 19.2	0.7	
BJI	73.1	321	eP	06 25 21.0	−0.8	
XAN	74.5	312	+P	06 25 30.2	0.2	
KMI	75.1	302	eP	06 25 34.5	1.0	
CD2	76.8	307	P	06 25 44.0	0.9	
LZH	79.2	312	eP	06 25 56.5	0.6	
GTA	83.5	314	+iP	06 26 18.4	−0.3	

1986 7 24
O = 11 49 00.5 ± 0.24s
LAT = 22.99 N ± 1.69km
LONG = 105.14 E ± 0.70km

DEPTH= 26 km ± 0.88km
STATIONS USED = 5, STAND DEV= 4.41s
M_L=3.5/ 3,

KMI	3.1	314	cPg	11 49 52.5	−2.4		
			Sg	11 50 28.5	−7.9		
			SMN	M_L=3.2		1.2	0.070
			SME			1.2	0.11
GYA	3.7	22	Pn	11 49 56.0	−0.9		
			Pg	11 50 09.6	3.4		
			Sg	11 50 57.0	−0.2		
			SMN	M_L=3.7		1.2	0.23
			SME			1.2	0.17

1986 7 24
O=14 03 25.9 ± 0.09s
LAT=51.74 N ± 3.54km
LONG=175.39 W ± 1.55km
DEPTH= 32 km ± 0.45km
STATIONS USED = 62, STAND DEV= 1.34s
Ms=4.7/ 7, m_B=5.9/ 3

MDJ	36.6	281	eP	14 10 29.1	−2.3		
CN2	39.6	283	eP	14 10 56.2	0.1		
			(S)	14 16 55.2	−1.6		
SNY	41.8	281	+P	14 11 15.5	0.9		
			S	14 17 34.0	4.8		
			LN	Ms=4.9		22.0	0.88
			LE			22.0	0.49
DL2	44.7	279	eP	14 11 39.5	1.0		
TIA	49.2	279	eP	14 12 14.2	0.5		
			LN	Ms=4.7		22.0	0.36
			LE			22.0	0.33
SSE	50.1	271	eP	14 12 21.0	0.4		
			PMZ			1.0	0.020
			eS	14 19 30.0	0.9		
			LE	Ms=4.6		20.0	0.35
BTO	50.7	288	eP	14 12 26.5	1.4		
			eS	14 19 38.0	0.8		
NJ2	50.9	274	+P	14 12 26.8	0.1		
			S	14 19 41.5	2.5		
			SMN	m_B=6.2		7.0	2.30
TIY	51.1	284	P	14 12 30.0	1.9		
			S	14 19 47.0	5.6		
			LE	Ms=4.8		15.0	0.48
WHN	54.7	276	eP	14 12 54.5	−0.6		
			PMZ	m_B=5.9		4.0	0.65
			eS	14 20 31.0	−1.2		
			SMN	m_B=5.4		8.0	0.35
XAN	55.7	283	P	14 13 01.8	−0.1		
LZH	57.3	288	eP	14 13 13.5	−0.3		
GTA	57.4	294	eP	14 13 14.9	0.6		
WMQ	60.9	305	eP	14 13 38.6	0.0		
CD2	61.0	284	eP	14 13 39.8	0.8		
GYA	62.4	278	+P	14 13 48.8	0.2		
KMI	65.8	280	+P	14 14 11.0	0.2		
LSA	69.3	292	eP	14 14 32.8	−0.4		
KSH	70.0	309	eP	14 14 13.0	−23.2		

1986 7 24
O=16 10 42.4 ± 0.05s
LAT=28.40 N ± 1.05km
LONG=139.17 E ± 1.13km
DEPTH=507 km ± 1.17km
STATIONS USED = 52, STAND DEV= 0.92s

MDJ	17.9	337	eP	16 14 21.7	0.1		
NJ2	17.9	287	+P	16 14 22.0	0.2		
SNY	18.5	321	−iP	16 14 27.6	0.6		
QZH	18.7	264	eP	16 14 29.3	0.0		
CN2	18.9	328	+P	16 14 31.8	0.5		
TIA	20.2	298	−P	16 14 43.0	−0.2		
WHN	21.7	282	eP	16 14 57.2	−0.3		
BJI	22.2	308	eP	16 15 01.0	−1.1		
XAN	26.4	290	−iP	16 15 39.3	−0.6		
GYA	28.9	274	P	16 16 01.2	−0.2		
LZH	30.7	294	−P	16 16 17.0	−0.4		
			PMZ			1.0	0.050
CD2	30.8	283	P	16 16 18.0	0.1		
KMI	32.6	273	−P	16 16 34.0	0.5		
GTA	34.2	299	−iP	16 16 46.0	−0.9		
WMQ	43.6	305	P	16 18 04.0	0.6		
KSH	52.6	300	eP	16 19 13.0	1.9		

1986 7 24
O=17 44 28.5 ± 0.23s
LAT=37.91 N ± 5.31km
LONG= 21.14 E ± 4.22km
DEPTH= 9 km ± 3.56km
STATIONS USED = 30, STAND DEV= 4.92s

WMQ	49.5	61	P	17 53 15.0	−6.7		
LSA	57.5	76	eP	17 54 15.0	−6.7		
CD2	66.4	68	eP	17 55 16.2	−4.7		
XAN	68.5	63	eP	17 55 39.6	5.5		
KMI	68.7	74	−P	17 55 40.5	4.9		
CN2	73.7	47	eP	17 56 10.6	5.2		

1986 7 25
O=02 25 17.3 ± 0.15s
LAT=28.55 N ± 1.52km
LONG=105.39 E ± 1.33km
DEPTH= 2 km ± 0.23km
STATIONS USED = 9, STAND DEV= 3.74s

			M_L=3.1 / 7,				
GYA	2.4	151	Pn	02 25 58.4	0.8		
			Pg	02 26 05.0	5.9		
			Sg	02 26 38.0	6.5		
			SMN	M_L=2.8		1.0	0.060
			SME			1.0	0.060
CD2	2.7	329	Pg	02 26 03.4	−2.6		
			Sg	02 26 34.0	−9.5		
			SMN	M_L=3.3		0.6	0.090
			SME			0.6	0.18
XAN	6.3	28	cPn	02 26 47.2	−3.7		
			Pg	02 27 11.6	3.9		
			Sn	02 27 56.0	−9.2		
			Sg	02 28 30.5	−2.6		
			SMN	M_L=3.8		1.2	0.040
			SME			1.4	0.080

1986 7 25
O=09 01 31.1 ± 0.08s
LAT=51.25 N ± 1.65km
LONG=176.11 W ± 1.09km
DEPTH= 33 km ± 0.76km
STATIONS USED = 88, STAND DEV= 1.37s
Ms=5.7 / 33, m_B=5.9 / 24

MDJ	36.3	281	eP	09 08 32.5	−1.0		
			PMZ	m_B=5.9		5.0	0.94
			S	09 14 08.5	−2.0		
CN2	39.2	283	+P	09 08 57.8	−0.6		
			PMZ	m_B=6.1		4.0	1.40
			pP	09 09 06.0	−1.7		
			sP	09 09 10.5	−1.2		
			ePP	09 10 34.0	1.4		
			eS	09 14 53.0	−3.7		
			LN	Ms=5.6		18.0	5.20
SNY	41.5	281	−iP	09 09 17.5	0.7		
			PMZ	m_B=6.4		4.0	2.34
			pP	09 09 25.5	−0.7		
			PP	09 10 56.0	0.1		
			S	09 15 32.0	2.9		
			SMN	m_B=5.6		8.0	0.59
			SME			8.0	0.57
			sS	09 15 42.0	−3.4		
			LN	Ms=5.6		17.0	3.00
			LE			19.0	3.82
DL2	44.4	279	+P	09 09 41.0	0.4		
			pP	09 09 48.5	−1.5		
			cS	09 16 14.0	1.3		
			LN	Ms=5.5		12.0	0.67
			LE			18.0	2.69
BJI	47.0	284	eP	09 10 02.0	0.2		
			ePP	09 11 50.0	−1.7		
			eS	09 16 55.0	4.1		
			SMN	m_B=5.7		9.0	0.88
			esS	09 17 10.0	3.6		
			LN	Ms=5.7		20.0	5.52
TIA	48.9	279	eP	09 10 15.6	−0.3		
			PMZ	m_B=6.1		4.5	1.23
			PP	09 12 12.0	3.4		
			S	09 17 21.5	6.2		
			SMN	m_B=5.8		10.0	0.62
			SME			10.0	1.12
			ScS	09 20 06.0	4.0		
			LN	Ms=5.6		17.5	1.94
			LE			17.5	3.21
HHC	49.3	288	+iP	09 10 21.0	1.2		
			S	09 17 29.0	6.9		
			LN	Ms=5.9		15.0	4.13
			LE			15.0	4.35
SSE	49.7	271	+iP	09 10 22.0	−0.3		
			PMZ			1.2	0.11
			PcP	09 11 52.0	9.1		
			PP	09 12 18.0	1.0		
			S	09 17 32.0	5.1		
			SMN			18.0	2.11
			SME			18.0	2.06
			sS	09 17 46.0	2.4		
			SS	09 21 04.0	8.4		
			LN	Ms=5.7		16.0	2.05
			LE			16.0	3.28
BTO	50.4	288	−iP	09 10 29.0	0.9		
			PMZ	m_B=6.5		4.0	2.40
			pP	09 10 37.5	0.2		
			ePP	09 12 25.0	1.1		
			S	09 17 37.0	−0.1		
			esS	09 17 48.0	−5.9		
			LN	Ms=6.0		17.0	5.50
			LE			18.0	6.30
NJ2	50.5	274	+P	09 10 28.0	−0.6		
			PMZ	m_B=6.0		5.5	1.10
			sP	09 10 40.0	−1.9		
			S	09 17 42.0	3.8		
			LN	Ms=5.7		16.0	3.70
WHN	54.3	276	eP	09 10 56.0	−1.3		
			PMZ	m_B=6.2		5.0	1.58
			S	09 18 33.0	2.3		
			SME	m_B=5.6		7.0	0.60
			LE	Ms=5.7		19.0	4.25
XAN	55.3	283	+P	09 11 04.0	−0.6		
			PMZ	m_B=6.1		5.0	1.32
			pP	09 11 13.0	−1.0		

			sP	09 11 18.0	0.0		
			PP	09 13 11.0	1.9		
			eS	09 18 47.0	1.7		
			SMN	m_B = 5.7		9.0	1.01
			LN	Ms = 5.8		16.0	3.43
			LE			16.0	2.38
QZH	55.6	268	+P	09 11 06.0	−0.5		
			PMZ	m_B = 6.1		4.0	0.90
			S	09 18 50.0	2.2		
			ScS	09 20 54.0	5.2		
			LN	Ms = 5.4		20.0	2.21
LZH	57.0	288	+iP	09 11 17.5	0.6		
			PMZ			2.5	1.07
			pP	09 11 26.0	−0.3		
			eS	09 19 13.0	5.0		
			SMN	m_B = 5.8		6.0	0.85
			LN	Ms = 6.0		16.0	5.80
GTA	57.2	294	+iP	09 11 16.8	−1.1		
			S	09 19 14.2	5.9		
			LE	Ms = 5.8		19.0	5.09
GZH	60.3	270	+P	09 11 39.0	−0.2		
			PMZ	m_B = 5.9		6.0	0.87
			eS	09 19 53.0	3.3		
			LE	Ms = 5.4		15.0	1.39
CD2	60.6	284	eP	09 11 41.0	−0.9		
			S	09 20 00.0	6.5		
WMQ	60.8	304	P	09 11 42.5	−0.6		
			PMZ			1.5	0.10
			sP	09 11 53.0	−3.4		
			eS	09 20 03.0	5.9		
			ScS	09 21 29.0	2.2		
GYA	62.0	278	P	09 11 51.0	−0.1		
			pP	09 12 00.0	−0.6		
			PP	09 14 10.0	0.9		
			LE	Ms = 5.7		18.0	3.20
KMI	65.4	280	+P	09 12 13.5	−0.1		
			sP	09 12 27.0	0.1		
			PP	09 14 38.0	−0.7		
			S	09 20 58.0	5.0		
			LN	Ms = 5.8		20.0	3.60
LSA	69.1	291	+iP	09 12 37.0	0.2		
			sP	09 12 50.0	0.0		
			PP	09 15 06.0	−4.6		
			SMN	m_B = 5.7		10.0	0.59
			SME			11.0	0.62
KSH	70.0	308	eP	09 12 43.1	1.1		
			pP	09 12 54.0	2.6		
			eS	09 21 49.0	−0.2		
			LN	Ms = 6.3		20.0	11.1

1986 7 25
O = 09 04 15.1 ± 0.12s
LAT = 51.23 N ± 4.62km
LONG = 176.03 W ± 2.35km
DEPTH = 33 km ± 0.87km
STATIONS USED = 60, STAND DEV = 1.87s
Ms = 5.7 / 19, m_B = 5.6 / 5

MDJ	36.3	281	eP	09 11 17.6	−0.4		
			PP	09 12 44.0	2.9		
			S	09 16 57.0	1.6		
CN2	39.3	283	eP	09 11 42.5	−0.3		
			PMZ	m_B = 5.8		4.0	0.70
			epP	09 11 50.0	−2.1		
			ePP	09 13 16.0	−1.3		
			eS	09 17 39.0	−2.6		
			LN	Ms = 5.8		19.0	8.00
SNY	41.5	281	+iP	09 12 02.5	1.2		
			PMZ	m_B = 6.1		4.0	1.29
			epP	09 12 11.0	0.5		
			eS	09 18 22.0	8.1		
			LN	Ms = 5.7		18.0	4.89
			LE			16.0	1.79
DL2	44.4	279	P	09 12 27.0	1.9		
BJI	47.1	284	eP	09 12 47.5	1.2		
			eS	09 19 42.0	6.3		
			SMN	m_B = 5.4		9.0	0.44
			esS	09 19 54.0	2.9		
			LN	Ms = 5.7		18.0	5.10
HHC	49.4	288	+iP	09 13 05.0	0.7		
			PP	09 14 56.0	−2.0		
			S	09 20 10.0	3.0		
			LN	Ms = 5.9		15.0	4.45
			LE			15.0	4.66
SSE	49.7	271	−P	09 13 07.6	0.9		
			PMZ			1.6	0.21
BTO	50.5	288	−iP	09 13 14.0	1.5		
			pP	09 13 22.0	0.3		
			eS	09 20 26.0	2.7		
			sS	09 20 39.0	0.5		
			LN	Ms = 6.0		16.0	3.00
			LE			16.0	7.40
NJ2	50.6	274	+P	09 13 13.0	0.0		
			LE	Ms = 5.3		15.0	1.30
TIY	50.8	284	+P	09 13 06.9	−8.3		
			PMZ			1.2	0.26
			PP	09 15 16.5	5.0		
			S	09 20 33.0	6.2		
			sS	09 20 49.0	5.6		
			LE	Ms = 5.8		15.0	4.57
WHN	54.4	276	P	09 13 41.0	−0.7		

			eS	09 21 16.0	−0.7		
			LN	Ms=5.7		14.0	1.79
			LE			16.0	2.92
XAN	55.4	283	P	09 13 48.8	−0.2		
QZH	55.7	268	+P	09 13 51.0	0.1		
			S	09 21 38.0	5.4		
			LN	Ms=5.4		20.0	2.21
LZH	57.1	288	eP	09 14 02.0	0.7		
			pP	09 14 10.0	−0.6		
			eS	09 21 55.0	2.2		
			SMN	m_B=5.6		7.0	0.62
			LN	Ms=5.9		16.0	4.57
GZH	60.3	270	+P	09 14 24.0	0.4		
CD2	60.7	284	P	09 14 27.0	0.7		
WMQ	60.9	305	eP	09 14 26.0	−1.5		
GYA	62.1	278	P	09 14 35.6	0.1		
			pP	09 14 44.5	−0.4		
			S	09 22 57.0	1.4		
			LN	Ms=5.6		16.0	1.70
			LE			16.0	1.50
KMI	65.5	280	eP	09 14 59.5	1.6		
			eS	09 23 40.0	0.5		
			LE	Ms=5.7		17.0	2.50
KSH	70.0	308	eP	09 15 28.1	1.8		
			pP	09 15 36.0	0.4		
			eS	09 24 39.0	5.1		
			LE	Ms=6.4		10.0	6.90

1986 7 25
O=10 06 33.5 ± 0.23s
LAT=51.69 N ± 0.43km
LONG=176.31 W ± 1.45km
DEPTH= 64 km ± 2.19km
STATIONS USED = 26, STAND DEV= 2.64s

SNY	41.3	281	eP	10 14 15.5	1.2		
BJI	46.8	283	eP	10 15 00.5	1.3		
BTO	50.2	288	eP	10 15 17.8	−7.5		
WHN	54.2	275	eP	10 15 54.0	−1.2		
XAN	55.1	282	P	10 16 02.0	−0.1		

1986 7 25
O=10 08 05.1 ± 0.19s
LAT=28.05 N ± 6.14km
LONG= 57.27 E ± 2.59km
DEPTH= 33 km ± 0.99km
STATIONS USED = 63, STAND DEV= 2.77s
Ms=4.9/ 4,

KSH	19.2	49	cP	10 12 26.1	−3.5		
			PP	10 12 40.0	−6.3		
			eS	10 15 51.0	−8.5		
			LE	Ms=5.5		10.0	6.60
WMQ	29.0	49	P	10 14 05.0	0.4		
			S	10 18 56.5	4.9		
LSA	29.7	79	eP	10 14 09.0	−1.6		
GTA	36.8	61	P	10 15 11.9	−0.7		
LZH	40.0	66	eP	10 15 37.0	−1.7		
KMI	40.6	83	eP	10 15 44.0	0.0		
			eS	10 21 48.0	−3.5		
			LE	Ms=4.9		16.0	0.80
GYA	43.7	80	eP	10 16 09.0	−0.3		
XAN	44.3	69	P	10 16 02.0	−11.2		
BTO	44.7	59	eP	10 16 17.8	0.3		
HHC	45.9	59	P	10 16 28.6	1.7		
WHN	49.4	73	eP	10 16 54.0	0.0		
BJI	49.4	60	P	10 16 53.5	−1.0		
GZH	50.5	82	eP	10 17 02.0	−0.2		
TIA	50.6	65	eP	10 17 02.9	−0.8		
NJ2	52.8	70	eP	10 17 26.0	5.9		
SNY	54.8	57	+P	10 17 34.4	−0.3		
CN2	55.9	54	eP	10 17 39.6	−3.0		
MDJ	58.7	53	eP	10 18 01.8	−0.8		

1986 7 25
O=14 30 03.3 ± 0.31s
LAT=26.22 N ± 4.12km
LONG=126.14 E ± 3.88km
DEPTH= 36 km ± 1.11km
STATIONS USED = 26, STAND DEV= 4.11s
Ms=3.9/ 7,

SSE	6.5	319	eP	14 31 37.4	−2.0		
			eS	14 32 51.0	−2.2		
			LG_1	14 33 27.0	−1.2		
			LG_2	14 33 43.5	5.0		
			LN	Ms=3.9		12.0	0.84
			LE			12.0	1.09
QZH	6.9	261	eP	14 31 48.6	3.4		
			LN	Ms=3.6		8.0	0.42
NJ2	8.6	314	eP	14 32 14.0	5.3		
			S	14 33 51.0	5.6		
			LN			1.0	0.060
BJI	16.1	331	P	14 33 50.0	1.3		
TIY	16.3	318	eP	14 33 56.0	4.5		
			S	14 36 53.0	3.0		
			sS	14 37 10.0	6.9		
			LN	Ms=4.3		16.0	0.54
			LE			11.0	0.55
XAN	16.8	302	eP	14 34 02.0	4.4		
			LE	Ms=4.2		12.0	0.51
CN2	17.6	358	eP	14 34 13.0	5.9		
MDJ	18.6	8	eP	14 34 21.3	1.7		

CD2	20.2	289	P	14 34 32.2	−5.8			
LZH	21.4	303	eP	14 34 43.0	−7.7			
GTA	25.6	307	P	14 35 32.0	0.3			
WMQ	35.7	309	P	14 36 45.0	−14.9			

1986 7 25
O=23 27 22.1 ± 0.11s
LAT=51.04 N ± 0.87km
LONG=175.99 W ± 0.86km
DEPTH= 43 km ± 0.97km
STATIONS USED = 17, STAND DEV= 1.17s

BJI	47.2	284	eP	23 35 53.0	0.2			
GYA	62.1	278	P	23 37 42.6	0.8			
KMI	65.5	280	eP	23 38 03.0	−1.2			

1986 7 25
O=23 41 07.9 ± 0.10s
LAT=26.46 N ± 1.48km
LONG=125.82 E ± 1.46km
DEPTH= 18 km ± 0.32km
STATIONS USED = 84, STAND DEV= 1.78s
Ms=6.6/33, m_B=6.3/26

SSE	6.2	320	+iPn	23 42 38.0	−0.4			
			PMZ			0.8	0.44	
			Sn	23 43 54.0	3.5			
			LG_1	23 44 28.0	6.8			
			LN	Ms=6.3		12.0	193	
			LE			12.0	332	
QZH	6.7	259	+Pn	23 42 47.6	1.8			
			PMZ	m_B=6.1		6.0	7.66	
			iSn	23 44 04.0	0.1			
			LE	Ms=5.6		10.0	53.2	
NJ2	8.2	314	−iP	23 43 08.0	−1.8			
			eS	23 44 40.0	−3.3			
			LE			1.0	0.050	
WHN	10.9	295	P	23 43 44.5	−1.6			
			PMZ	m_B=6.1		8.0	3.84	
			S	23 45 46.0	−2.1			
GZH	11.8	256	−iP	23 43 59.0	0.1			
			PMZ	m_B=6.5		8.0	8.92	
			S	23 46 08.0	−3.1			
			LN	Ms=6.7		9.0	231	
			LE			9.0	116	
TIA	12.2	325	eP	23 44 03.5	−1.0			
			PMZ	m_B=6.1		9.0	3.80	
			sP	23 44 16.0	2.5			
			SMN	m_B=5.9		9.0	3.37	
			SME			9.0	9.16	
DL2	12.9	345	+iP	23 44 14.0	0.6			
			PMZ	m_B=6.4		6.0	5.10	
			pP	23 44 21.5	2.7			
			sP	23 44 26.5	3.9			
			S	23 46 38.0	0.8			
SNY	15.4	354	+iP	23 44 47.6	0.8			
			PMZ	m_B=6.1		12.0	9.98	
			iS	23 47 44.0	6.0			
			LE	Ms=5.9		31.0	80.3	
BJI	15.7	332	eP	23 44 51.5	0.8			
			PMZ	m_B=6.5		8.0	16.6	
			eS	23 47 51.5	6.3			
			SMN	m_B=5.8		8.0	4.89	
			LE	Ms=6.2		12.0	66.7	
TIY	15.9	318	+P	23 44 54.9	1.6			
			PMZ			1.5	1.05	
			SMN	m_B=6.4		8.0	10.3	
			SME			9.0	16.7	
			LN	Ms=5.6		12.0	11.9	
			LE			12.0	7.93	
XAN	16.4	301	+P	23 44 58.5	−1.0			
			sP	23 45 06.5	−2.3			
			eS	23 47 58.0	−3.2			
			SS	23 48 15.5	−4.5			
			LG_1	23 49 37.5	−6.4			
			LE	Ms=6.3		12.0	75.0	
GYA	17.2	274	P	23 45 10.0	1.2			
			PMZ	m_B=6.2		7.0	8.30	
			S	23 48 22.0	4.7			
			SMN	m_B=6.5		10.0	22.9	
			SME			10.0	15.9	
			LN	Ms=6.6		12.0	117	
			LE			12.0	87.0	
CN2	17.3	359	+P	23 45 11.0	0.5			
			PMZ	m_B=6.3		6.0	8.80	
			S	23 48 26.0	5.4			
			SMN	m_B=6.5		9.0	15.6	
			SME			9.0	16.7	
			LE	Ms=6.5		15.0	147	
MDJ	18.4	9	eP	23 45 24.4	0.6			
			PP	23 45 39.5	1.1			
			S	23 48 44.0	−0.8			
			SME	m_B=6.8		6.0	28.0	
HHC	18.6	324	+iP	23 45 27.6	1.0			
			PP	23 45 46.0	4.4			
			LN	Ms=6.5		12.0	50.8	
			LE			12.0	92.0	
BTO	19.3	321	−iP	23 45 34.5	0.0			
			PMZ	m_B=6.0		8.0	5.50	
			eS	23 49 03.0	−2.5			
			LN	Ms=6.7		15.0	115	
			LE			15.0	109	

CD2	19.9	288	−P	23 45 41.0	−0.1		
			S	23 49 22.0	4.0		
			SMN			20.0	69.7
			LE	Ms=7.0		10.0	221
KMI	20.8	271	−P	23 45 52.5	0.9		
			S	23 49 44.0	6.5		
			LE	Ms=6.6		14.0	114
LZH	21.1	302	+iP	23 45 54.0	0.1		
			PMZ			2.0	1.75
			pP	23 46 05.0	4.9		
			S	23 49 45.0	3.0		
			SMN	m_B=6.8		11.0	40.7
			LE	Ms=6.7		14.0	146
GTA	25.3	307	+iP	23 46 33.7	−1.5		
			pP	23 46 45.0	3.5		
			S	23 50 55.5	−1.2		
			SME	m_B=6.9		9.0	34.3
			sS	23 51 17.1	8.8		
			LE	Ms=6.8		15.0	132
LSA	30.7	284	eP	23 47 23.5	−1.3		
			pP	23 47 35.0	4.0		
			PP	23 48 27.0	2.6		
			S	23 52 22.1	−2.2		
			SMN	m_B=6.5		9.0	5.18
			SME			10.0	9.52
WMQ	35.3	309	−P	23 48 03.0	−1.4		
			PP	23 49 25.0	1.8		
			S	23 53 33.0	−2.9		
			sS	23 53 45.0	−3.0		
			ScP	23 54 08.0	−9.8		
			SS	23 55 59.0	5.8		
			ScS	23 58 14.0	−6.6		
			LE	Ms=6.8		12.0	71.4
KSH	43.3	300	−iP	23 49 13.4	2.6		
			PP	23 50 55.0	1.8		
			PcP	23 51 01.0	1.6		
			iS	23 55 42.0	4.7		

1986 7 26
O=02 00 11.1 ± 0.17s
LAT= 0.11 S ± 1.89km
LONG=123.41 E ± 3.36km
DEPTH=214 km ± 1.38km
STATIONS USED = 25, STAND DEV= 1.09s

CD2	36.1	331	eP	02 06 53.0	−1.3		
XAN	36.6	340	eP	02 06 56.5	−2.3		
TIY	39.0	346	eP	02 07 19.0	0.3		
			LE			13.0	0.35
LZH	40.4	335	−P	02 07 31.0	0.9		
MDJ	44.9	6	eP	02 08 06.0	−0.3		
GTA	44.9	334	P	02 08 05.8	−0.7		

1986 7 26
O=03 26 10.1 ± 0.23s
LAT=26.25 N ± 2.62km
LONG=125.88 E ± 2.09km
DEPTH= 29 km ± 0.14km
STATIONS USED = 40, STAND DEV= 2.79s
Ms=4.5/17, M_L=5.0/ 3,

SSE	6.4	321	eP	03 27 40.0	−4.2		
			LG_2	03 29 35.0	−4.7		
			LN	Ms=4.3		8.0	1.06
			LE			8.0	2.10
NJ2	8.4	315	eP	03 28 08.0	−5.4		
			S	03 29 45.0	−3.4		
			LG_1	03 30 35.0	−0.1		
			LG_2	03 30 53.5	5.0		
			LN	Ms=4.4		10.0	2.40
WHN	11.0	296	eP	03 28 52.0	3.0		
			LG_1	03 32 00.0	3.9		
			LG_2	03 32 18.0	4.4		
			LN	Ms=4.6		16.0	3.50
GZH	11.8	257	eP	03 29 22.5	22.8		
			LN			1.8	0.34
SNY	15.7	354	eP	03 29 52.9	2.4		
			LG_2	03 34 44.0	−2.7		
			LN	Ms=4.5		14.0	1.30
BJI	16.0	332	P	03 29 57.0	2.6		
			eS	03 32 54.0	3.5		
			LN	Ms=3.9		12.0	0.33
TIY	16.1	318	P	03 30 02.3	5.6		
			LN	Ms=4.5		15.0	1.32
			LE			12.0	0.61
XAN	16.6	302	eP	03 30 01.0	−1.4		
			LN	Ms=5.1		6.0	1.84
			LE			5.0	0.62
GYA	17.2	275	P	03 30 33.0	23.0		
CN2	17.5	359	eP	03 30 18.6	4.6		
MDJ	18.6	8	eP	03 30 26.9	−0.2		
BTO	19.5	321	eP	03 30 39.0	1.5		
			eS	03 34 08.0	−2.1		
			LN	Ms=4.5		13.0	0.70
			LE			13.0	0.50
CD2	20.0	289	eP	03 30 41.8	−1.3		
			eS	03 34 18.0	−3.4		
			LN	Ms=5.3		6.5	2.80
KMI	20.9	272	eP	03 30 53.5	0.6		
LZH	21.2	303	eP	03 30 54.5	−1.7		
GTA	25.4	308	eP	03 31 34.4	−3.0		
			LN	Ms=4.4		5.5	0.22

1986 7 26
O=11 43 11.1 ± 0.05s
LAT=30.51 S ± 0.98km
LONG=177.42 W ± 1.52km
DEPTH= 41 km ± 0.43km
STATIONS USED = 20, STAND DEV= 1.37s

SNY	90.2	320	+P	11 56 09.8	0.4		
TIA	90.4	313	eP	11 56 10.5	0.1		
CN2	90.5	323	+P	11 56 10.0	−1.0		
XAN	94.6	307	eP	11 56 28.4	−1.2		

1986 7 26
O=14 46 23.0 ± 0.10s
LAT=45.42 N ± 1.17km
LONG=136.98 E ± 0.79km
DEPTH=363 km ± 1.22km
STATIONS USED = 64, STAND DEV= 1.24s
m_B=4.7 / 8

MDJ	5.3	264	cP	14 47 46.0	−1.2		
			PMZ			1.0	0.63
			sP	14 48 52.0	1.5		
			S	14 48 56.0	3.1		
CN2	8.4	263	+P	14 48 22.8	−0.1		
			sP	14 49 35.0	0.8		
			eS	14 50 00.0	2.8		
SNY	10.4	254	+P	14 48 47.4	1.1		
			iS	14 50 45.5	5.8		
			SME	m_B=4.7		4.0	0.99
DL2	13.1	246	eP	14 49 19.8	1.0		
			sP	14 50 40.0	0.2		
			S	14 51 43.0	4.7		
BJI	16.2	258	eP	14 49 51.5	−0.6		
			csP	14 51 22.0	0.7		
			eS	14 52 43.0	2.5		
			SME	m_B=4.6		4.0	0.29
			eScS	15 01 04.0	2.6		
TIA	17.6	245	eP	14 50 06.1	−0.4		
			csP	14 51 32.9	−6.7		
			eS	14 53 09.0	2.1		
			SME	m_B=4.8		6.0	0.61
HHC	19.1	265	+iP	14 50 22.0	0.5		
			S	14 53 39.0	5.5		
			SME	m_B=4.7		5.0	0.32
NJ2	19.4	233	cP	14 50 24.0	−0.4		
			S	14 53 41.0	1.9		
TIY	19.9	256	cP	14 50 29.2	0.0		
			sP	14 52 10.0	1.5		
			S	14 53 55.0	7.6		
			SME	m_B=4.5		11.0	0.44
BTO	20.3	266	P	14 50 33.0	0.0		
			sP	14 52 13.0	−0.3		
			S	14 53 59.0	4.8		
WHN	23.1	238	eP	14 50 55.0	−4.9		
			eS	14 54 40.0	−2.9		
XAN	24.3	252	eP	14 51 10.6	0.0		
LZH	26.6	261	eP	14 51 32.5	0.5		
			PMZ			2.0	0.090
			S	14 55 43.0	4.1		
			SMN			2.0	0.090
GTA	27.9	271	−iP	14 51 43.9	0.4		
			PcP	14 54 50.0	1.8		
			ScP	14 57 57.7	4.8		
			eScS	15 01 48.6	3.7		
GYA	30.7	242	P	14 52 10.0	2.0		
KMI	34.2	245	eP	14 52 38.0	0.6		
WMQ	34.7	285	P	14 52 42.5	0.8		
			PMZ			1.2	0.040
			pP	14 53 55.5	4.6		
			PP	14 54 11.0	−1.2		
			sP	14 54 34.5	2.8		
			PcP	14 55 07.0	0.5		
			S	14 57 49.0	4.7		
LSA	39.0	262	eP	14 53 18.8	0.7		
KSH	44.5	285	−iP	14 54 03.0	1.3		
			pP	14 55 15.0	1.5		
			S	15 00 16.0	7.7		

1986 7 26
O=14 49 37.4 ± 0.07s
LAT=30.53 S ± 1.02km
LONG=177.51 W ± 2.21km
DEPTH= 35 km ± 0.47km
STATIONS USED = 20, STAND DEV= 1.25s

GZH	85.1	300	eP	15 02 12.0	0.3		
MDJ	89.0	325	eP	15 02 30.0	−0.6		
TIA	90.4	313	−P	15 02 37.8	0.6		
CN2	90.5	323	−P	15 02 38.0	0.2		
TIY	94.3	312	eP	15 02 54.4	−0.8		

1986 7 26
O=16 16 44.8 ± 0.08s
LAT=26.70 N ± 0.96km
LONG=129.94 E ± 1.71km
DEPTH= 20 km ± 0.61km
STATIONS USED = 18, STAND DEV= 2.27s

SNY	16.0	342	−P	16 20 30.6	0.2		
BJI	17.6	323	P	16 20 50.0	−0.4		
TIY	18.4	311	eP	16 21 01.4	0.3		
XAN	19.5	297	P	16 21 11.7	−2.6		

BTO	21.5	315	eP	16 21 35.0	−0.5	
KMI	24.5	272	eP	16 22 06.0	1.3	

1986 7 26
O=20 07 00.9 ± 0.28s
LAT=18.26 S ± 5.07km
LONG=172.89 W ± 4.04km
DEPTH= 32 km ± 0.28km
STATIONS USED = 43, STAND DEV= 1.16s

QZH	79.3	301	+P	20 19 05.6	−0.2	
MDJ	81.6	322	eP	20 19 16.0	−1.9	
NJ2	82.3	307	−P	20 19 22.0	0.6	
GZH	82.9	297	+P	20 19 26.0	1.2	
DL2	83.5	314	P	20 19 28.3	0.5	
CN2	83.6	320	+P	20 19 27.4	−0.8	
SNY	83.7	318	−iP	20 19 29.1	0.3	
WHN	85.1	304	eP	20 19 36.0	0.3	
TIA	85.4	310	eP	20 19 37.5	0.1	
BJI	87.8	313	eP	20 19 49.0	0.2	
TIY	89.5	310	+P	20 19 57.6	0.7	
GYA	89.8	298	P	20 20 00.2	1.6	
XAN	90.7	306	P	20 20 03.2	0.5	
BTO	92.3	312	P	20 20 10.0	−0.3	
KMI	92.7	295	+P	20 20 14.5	2.4	
LZH	95.3	306	eP	20 20 25.0	1.0	

1986 7 26
O=20 24 47.9 ± 0.12s
LAT=23.75 N ± 1.93km
LONG= 94.12 E ± 1.48km
DEPTH= 26 km ± 0.39km
STATIONS USED = 79, STAND DEV= 1.98s
Ms=5.3/42, m_B=5.4/13

LSA	6.5	336	Pn	20 26 26.2	3.5		
			LE	Ms=4.7		9.0	5.79
KMI	8.0	78	−P	20 26 48.0	2.7		
			S	20 28 23.0	8.0		
			LN	Ms=5.1		10.0	12.7
CD2	11.1	48	eP	20 27 29.4	0.5		
			eS	20 29 30.0	−3.7		
			LN	Ms=5.4		9.0	8.70
			LE			9.0	9.40
GYA	11.7	74	−P	20 27 36.5	0.2		
			sP	20 27 48.6	1.9		
			PP	20 27 52.0	6.5		
			S	20 29 49.0	2.6		
			LN	Ms=5.4		11.0	13.6
			LE			11.0	3.70
LZH	14.9	32	eP	20 28 17.5	−1.4		
			PMZ			2.0	0.15
			S	20 31 02.0	−1.2		
			SMN			2.0	0.24
			LN	Ms=5.4		7.0	3.67
			LE			7.0	4.37
GTA	16.3	16	P	20 28 34.9	−2.6		
			PMZ	m_B=5.2		6.0	0.72
			S	20 31 40.5	3.6		
			SME	m_B=5.2		9.0	1.13
			LE	Ms=4.9		21.0	4.79
XAN	16.5	48	eP	20 28 39.0	−0.5		
			sP	20 28 50.0	−0.2		
			S	20 31 37.0	−3.8		
			LG_1	20 33 20.0	−6.3		
			LG_2	20 33 54.0	1.6		
			LN	Ms=5.3		9.0	4.98
			LE			9.0	2.47
GZH	17.7	88	−iP	20 28 54.0	0.1		
			sP	20 29 09.8	5.0		
			S	20 32 12.0	4.8		
			SS	20 32 37.3	8.0		
			LN	Ms=5.6		8.0	7.55
			LE			5.0	1.07
WHN	19.2	65	P	20 29 12.0	−0.9		
			PMZ	m_B=5.5		4.0	0.97
			sP	20 29 26.0	2.1		
			S	20 32 40.0	−2.3		
			SMN	m_B=5.7		6.0	2.15
			sS	20 32 53.0	−0.7		
			LN	Ms=5.2		12.0	4.42
WMQ	20.7	347	+iP	20 29 29.5	0.5		
			PMZ			1.5	0.35
			S	20 33 18.5	5.1		
			LN	Ms=6.0		20.0	45.8
TIY	21.0	44	+P	20 29 33.0	1.3		
			S	20 33 18.5	0.2		
			sS	20 33 28.2	−3.0		
			LE	Ms=5.1		10.5	2.49
BTO	21.5	35	P	20 29 35.0	−1.8		
			esP	20 29 48.0	−0.1		
			PP	20 30 00.0	−0.5		
			S	20 33 24.0	−3.9		
			LN	Ms=5.3		11.0	2.60
			LE			11.0	3.30
KSH	21.9	320	+iP	20 29 44.2	2.7		
			sP	20 29 56.2	3.4		
			iS	20 33 47.0	9.5		
			PcS	20 37 13.0	−4.1		
			LE	Ms=5.2		12.0	3.90
QZH	22.3	82	eP	20 29 45.0	−0.3		
			sP	20 29 58.0	1.2		

			S	20 33 46.0	2.2		
			SMN	m_B=5.3		7.0	0.71
			LN	Ms=5.7		8.0	6.92
HHC	22.5	37	eP	20 29 48.0	1.2		
			S	20 33 44.0	−2.4		
			LN	Ms=5.2		12.0	1.67
			LE			12.0	2.76
NJ2	23.3	64	−P	20 29 54.8	−0.4		
			PMZ	m_B=5.4		4.0	0.60
			pP	20 30 06.0	3.0		
			iS	20 34 06.0	3.4		
			LN	Ms=5.7		10.0	8.60
TIA	23.4	53	+P	20 29 55.8	−0.2		
			esP	20 30 09.1	1.7		
			eS	20 34 03.0	−1.0		
			SMN	m_B=5.3		8.0	0.75
			LN	Ms=5.2		10.0	0.62
			LE			9.0	2.65
BJI	24.7	44	eP	20 30 09.0	0.7		
			sP	20 30 22.0	2.2		
			eS	20 34 26.0	0.1		
			SMN	m_B=5.2		6.0	0.38
			SME			6.0	0.29
			SS	20 35 17.0	−4.9		
			LN	Ms=4.8		9.0	0.81
SSE	25.1	67	eP	20 30 11.5	−0.6		
			PMZ			1.0	0.020
			pP	20 30 20.0	0.1		
			sP	20 30 23.0	−0.5		
			eS	20 34 28.0	−4.5		
			sS	20 34 48.0	2.6		
			LN	Ms=5.3		8.0	2.16
			LE			8.0	0.93
DL2	27.8	51	eP	20 30 37.2	0.0		
			eS	20 35 13.0	−4.0		
			LE	Ms=5.0		16.0	1.92
SNY	30.4	47	−iP	20 31 00.5	−0.1		
			iS	20 35 53.0	−5.8		
			LN	Ms=4.9		11.0	0.76
			LE			11.0	0.43
CN2	32.5	44	eP	20 31 20.2	0.8		
			eS	20 36 31.0	−1.2		
			LN	Ms=4.9		12.0	0.90
MDJ	35.6	45	eP	20 31 40.2	−5.4		

1986 7 27
O=01 21 56.3 ± 0.17s
LAT=18.88 S ± 3.76km
LONG=172.38 W ± 3.78km
DEPTH= 33 km ± 0.26km
STATIONS USED = 15, STAND DEV= 2.49s

BJI	88.5	313	P	01 34 48.0	0.2
TIY	90.2	310	eP	01 35 01.2	5.4
XAN	91.4	305	eP	01 35 04.5	3.1

1986 7 27
O=06 13 46.9 ± 0.09s
LAT=35.87 N ± 1.85km
LONG=139.95 E ± 0.59km
DEPTH=139 km ± 1.19km
STATIONS USED = 13, STAND DEV= 1.91s

SNY	14.1	300	−P	06 17 05.9	4.6
BJI	19.2	290	eP	06 18 01.2	−1.2
XAN	25.4	275	eP	06 19 03.8	0.0

1986 7 27
O=10 43 26.7 ± 0.09s
LAT=25.77 S ± 2.10km
LONG=177.33 W ± 1.76km
DEPTH=157 km ± 1.12km
STATIONS USED = 77, STAND DEV= 1.16s
m_B=5.7 / 10

QZH	79.8	304	+P	10 55 18.0	−1.9	
			pP	10 55 58.0	0.2	
			eS	11 05 10.0	0.9	
			LN		40.0	2.01
SSE	81.5	310	eP	10 55 28.0	−0.9	
			PMZ		1.2	0.050
			pP	10 55 58.0	−9.0	
			eS	11 05 28.0	1.3	
			LE		40.0	2.56
GZH	82.8	300	−P	10 55 36.0	0.4	
			PMZ	m_B=5.7	6.0	0.73
			pP	10 56 15.0	1.2	
			eS	11 05 39.5	−0.4	
NJ2	83.7	310	−P	10 55 40.0	0.0	
			PMZ	m_B=5.5	8.0	0.70
			S	11 05 54.0	7.1	
			SMN	m_B=5.6	9.0	0.60
MDJ	85.2	325	−P	10 55 47.9	0.6	
			pP	10 56 28.0	2.3	
			S	11 06 08.5	7.3	
			SMN	m_B=5.7	5.0	0.34
			sS	11 07 18.0	8.2	
			PS	11 07 32.0		
DL2	86.0	317	−iP	10 55 51.5	0.3	
			PMZ		3.0	1.12
			pP	10 56 31.0	1.3	
			S	11 06 04.0	−4.9	
WHN	86.1	307	eP	10 55 52.0	0.4	

			PMZ			5.0	0.95
				$m_B = 6.0$			
			pP	10 56 30.0	−0.1		
			eSKS	11 06 00.0	1.3		
			eS	11 06 11.0	−0.4		
			LN			18.0	0.59
SNY	86.6	320	−iP	10 55 54.0	−0.4		
			PP	10 59 13.0	−6.7		
			S	11 06 14.0	−1.1		
			LN			52.0	2.54
			LE			50.0	1.21
CN2	86.8	322	−iP	10 55 55.0	−0.4		
			PMZ			2.0	1.30
			pP	10 56 34.0	0.1		
TIA	87.3	313	−P	10 55 57.7	0.2		
			pP	10 56 36.0	−0.1		
			eS	11 06 13.0	−10.0		
			LE			17.0	1.14
GYA	89.8	300	P	10 56 10.0	0.5		
			pP	10 56 50.0	1.9		
			SKS	11 06 31.0	8.8		
			S	11 06 51.0	6.6		
BJI	90.1	315	−P	10 56 11.0	0.4		
			epP	10 56 50.0	0.6		
			eSKS	11 06 30.0	6.2		
			eS	11 06 56.0	7.4		
TIY	91.2	312	−iP	10 56 17.0	0.7		
			PMZ			1.4	0.34
			pP	10 56 57.0	2.1		
			SKS	11 06 39.0	8.3		
			SME			11.0	1.04
				$m_B = 5.9$			
			LE			12.0	0.30
XAN	91.8	307	−P	10 56 19.5	0.7		
			PMZ			1.4	0.090
			pP	10 56 56.0	−1.5		
			SKS	11 06 41.0	7.1		
			S	11 07 10.0	7.7		
			SMN			9.0	0.40
				$m_B = 5.7$			
			SME			9.0	0.24
KMI	92.3	297	−P	10 56 22.5	1.3		
HHC	93.5	314	−P	10 56 27.0	0.5		
CD2	94.1	302	eP	10 56 30.8	1.3		
			pP	10 57 09.2	1.0		
			eSKS	11 06 54.0	7.1		
BTO	94.3	313	+iP	10 56 31.0	0.5		
			pP	10 57 10.0	0.8		
			SKS	11 06 50.0	2.0		
			S	11 07 30.0	5.8		
LZH	96.4	307	−iP	10 56 41.0	0.9		
			PMZ			2.0	0.090
			eS	11 07 42.0	−2.1		
			LE			28.0	0.79
GTA	100.7	309	−iP	10 56 59.7	0.0		
			SKS	11 07 24.5	3.4		
			SME			16.0	0.21

1986 7 27
O = 16 48 00.3 ± 0.16s
LAT = 23.85 N ± 2.92km
LONG = 122.67 E ± 2.35km
DEPTH = 36 km ± 0.97km
STATIONS USED = 40, STAND DEV = 2.64s
Ms = 4.1 / 6, M_L = 4.0 / 5,

QZH	3.9	287	+P	16 48 57.2	−1.9		
			S	16 49 38.5	−5.1		
			SMN	$M_L = 3.7$		0.5	0.19
			SME			0.7	0.19
SSE	7.3	350	+P	16 49 47.0	−0.8		
			LG_2	16 51 59.0	−3.3		
			LN	Ms = 3.6		12.0	0.52
GZH	8.6	267	eP	16 50 02.0	−3.4		
NJ2	8.8	338	eP	16 50 09.0	0.3		
			eS	16 51 45.5	−2.3		
			LN	Ms = 4.2		11.0	1.50
GYA	14.7	283	eP	16 51 46.8	19.1		
XAN	15.7	313	eP	16 51 40.8	−0.3		
			sP	16 51 46.1	−7.5		
TIY	16.4	330	eP	16 51 50.8	1.6		
			LN	Ms = 4.3		11.0	0.50
			LE			12.0	0.61
HHC	19.3	334	eP	16 52 27.0	1.2		
BTO	19.8	330	eP	16 52 31.0	0.2		
			eS	16 56 05.0	−1.9		
			LN	Ms = 4.4		14.0	0.60
			LE			14.0	0.50
CN2	20.0	6	eP	16 52 32.0	−1.2		
LZH	20.3	311	eP	16 52 36.5	0.1		
GTA	24.8	314	P	16 53 20.8	0.1		
WMQ	34.9	313	P	16 54 50.2	−0.5		

1986 7 27
O = 17 39 02.7 ± 0.15s
LAT = 34.57 N ± 1.79km
LONG = 80.17 E ± 2.01km
DEPTH = 33 km ± 0.19km
STATIONS USED = 19, STAND DEV = 3.74s
Ms = 3.7 / 2, M_L = 4.0 / 2,

KSH	5.9	327	Pn	17 40 35.2	6.5		
LSA	10.5	115	iP	17 41 34.2	−0.3		
WMQ	10.9	30	eP	17 41 40.8	0.8		
			S	17 43 50.5	8.8		

			LG_1	17 44 51.5	5.8		
			LG_2	17 45 08.0	5.0		
GTA	16.4	67	eP	17 42 52.7	0.2		
			LE	Ms=3.9		10.0	0.24

1986 7 27
O=22 50 00.7 ± 0.48s
LAT=24.97 N ± 7.69km
LONG=121.90 E ± 7.07km
DEPTH= 18 km ± 6.16km
STATIONS USED = 11, STAND DEV= 4.29s
M_L=3.7 / 3,

QZH	3.0	270	cPn	22 50 45.2	−2.7		
			Pg	22 50 55.8	2.0		
			Sn	22 51 19.5	−5.9		
			Sg	22 51 40.0	5.0		
			SMN	M_L=3.7		0.8	0.46
			SME			0.5	0.13
SSE	6.1	354	+Pn	22 51 31.4	0.4		
			LG_2	22 53 32.4	9.1		
			LN			1.0	0.020
			LE			1.0	0.030
GZH	8.0	258	eP*	22 52 07.0	−6.4		
			eSn	22 53 27.0	−3.2		
XAN	14.5	312	eP	22 53 33.4	6.5		

1986 7 27
O=23 47 33.2 ± 0.13s
LAT=33.40 S ± 2.55km
LONG=178.21 W ± 2.69km
DEPTH= 40 km ± 1.01km
STATIONS USED = 11, STAND DEV= 3.64s

CN2	92.4	323	eP	24 00 45.4	3.5		

1986 7 28
O=00 43 35.4 ± 0.15s
LAT=32.30 N ± 3.27km
LONG=130.97 E ± 2.41km
DEPTH= 27 km ± 1.12km
STATIONS USED = 32, STAND DEV= 2.77s
Ms=4.3 / 7,

SSE	8.4	264	eP	00 45 45.0	6.3		
			LG_2	00 48 15.0	1.6		
			LN	Ms=4.0		10.0	0.89
			LE			10.0	0.49
NJ2	10.3	272	−P	00 46 04.0	−0.3		
			eS	00 47 54.0	−5.7		
			LN	Ms=4.3		10.0	1.40
BJI	14.2	307	P	00 46 58.0	0.7		
WHN	14.3	267	eP	00 46 58.0	−0.4		
			eS	00 49 36.0	−1.2		
			LE	Ms=4.5		10.0	1.25
XAN	18.5	281	eP	00 47 49.5	−2.8		
			LN	Ms=4.2		12.0	0.51
GYA	21.9	261	P	00 48 32.0	3.0		
CD2	23.2	274	eP	00 48 42.4	1.0		
			S	00 52 50.0	3.1		
			LN	Ms=4.9		10.0	1.38
GTA	26.1	295	eP	00 49 05.6	−4.1		

1986 7 28
O=01 19 13.9 ± 0.15s
LAT=33.56 N ± 2.13km
LONG= 87.98 E ± 1.69km
DEPTH= 32 km ± 0.08km
STATIONS USED = 61, STAND DEV= 2.79s
Ms=4.9 / 30, m_B=5.1 / 4

LSA	4.7	144	Pn	01 20 28.0	4.4		
			Pg	01 20 39.2	2.1		
			Sn	01 21 17.2	−1.0		
			LN	Ms=4.9		8.0	14.6
WMQ	10.2	359	P	01 21 40.5	−1.6		
			LG_2	01 24 50.0	−2.1		
			LN	Ms=4.4		14.0	2.10
GTA	11.2	55	eP	01 21 53.5	−1.3		
			LN	Ms=4.8		20.0	6.62
KSH	11.3	305	eP	01 22 00.4	3.9		
			S	01 24 05.0	2.7		
			SS	01 24 23.0	6.6		
LZH	13.3	75	eP	01 22 23.0	−0.1		
			LN	Ms=4.9		11.0	4.08
CD2	13.6	97	eP	01 22 26.5	−0.9		
			eS	01 24 57.0	−1.8		
			LE	Ms=5.2		7.0	4.93
KMI	15.4	119	eP	01 22 49.0	−1.4		
			eS	01 25 33.0	−7.3		
			SS	01 25 51.0	−6.4		
			LN	Ms=5.0		10.0	3.30
XAN	17.4	83	eP	01 23 15.0	−1.3		
			eS	01 26 28.0	0.5		
			LN	Ms=4.9		11.0	0.90
			LE			10.0	2.31
GYA	17.7	109	+P	01 23 18.6	−0.7		
			S	01 26 30.6	−1.5		
			LN	Ms=4.8		12.0	1.80
			LE			12.0	1.20
BTO	18.9	62	eP	01 23 34.0	−0.9		
			ePP	01 23 50.0	−0.8		
			eS	01 26 57.0	−4.4		
			LN	Ms=4.9		13.0	1.90

			LE			13.0	1.40
HHC	20.1	62	eP	01 23 48.0	−0.2		
			S	01 27 26.0	−0.9		
			LN	Ms=5.1		10.0	1.50
			LE			9.0	2.00
TIY	20.3	71	−P	01 23 49.4	−0.6		
			S	01 27 30.0	−0.4		
			sS	01 27 46.0	2.8		
			LE	Ms=5.0		11.0	2.44
WHN	22.5	90	eP	01 24 14.5	1.9		
			eS	01 28 15.0	1.9		
			SMN	m_B=5.1		9.0	0.54
			LN	Ms=5.3		8.0	2.65
BJI	23.4	66	eP	01 24 23.5	2.1		
			LN	Ms=4.8		11.0	1.25
TIA	24.0	75	eP	01 24 28.1	1.0		
			SME	m_B=5.2		11.0	0.80
			LE	Ms=4.9		10.0	1.25
GZH	24.6	109	eP	01 24 35.0	2.4		
			LN	Ms=5.1		13.0	2.24
			LE			13.0	1.01
NJ2	26.0	85	eP	01 24 48.0	2.4		
			LN	Ms=5.0		13.0	1.90
SSE	28.1	86	eP	01 25 02.9	−2.4		
			LN	Ms=5.0		10.0	1.11
			LE			10.0	0.49
CN2	30.8	59	eP	01 25 27.8	−1.1		

1986 7 28
O=04 06 48.6 ± 0.11s
LAT=51.76 N ± 4.69km
LONG=174.12 W ± 2.04km
DEPTH= 28 km ± 1.42km
STATIONS USED = 81, STAND DEV= 0.88s
Ms=5.1/ 14, m_B=5.7/ 2

MDJ	37.4	282	eP	04 14 00.4	−0.8		
			S	04 19 42.4	−4.0		
CN2	40.3	283	eP	04 14 25.0	−0.8		
			PMZ	m_B=5.5		4.5	0.40
			eS	04 20 26.5	−5.5		
			LN	Ms=5.3		19.0	2.50
SNY	42.6	282	+iP	04 14 45.0	0.7		
			pP	04 14 53.5	0.8		
			eS	04 21 06.0	0.8		
			LN	Ms=5.3		22.0	1.63
			LE			21.0	1.82
DL2	45.5	280	P	04 15 08.0	−0.1		
BJI	48.1	285	eP	04 15 30.0	1.4		
			eS	04 22 22.0	−3.0		
			LN	Ms=5.1		20.0	1.41
TIA	50.0	280	+P	04 15 42.6	−0.4		
			pP	04 15 50.0	−1.4		
			eS	04 22 53.0	1.9		
			LE	Ms=5.3		20.0	2.10
HHC	50.4	288	P	04 15 46.4	0.4		
SSE	50.9	272	+P	04 15 50.5	0.5		
			PMZ			1.0	0.20
			pP	04 15 58.0	−0.4		
			sP	04 16 04.0	2.1		
			eS	04 23 07.0	3.3		
			LN	Ms=4.8		20.0	0.60
BTO	51.4	289	P	04 15 55.0	0.9		
			cPP	04 17 52.0	0.9		
			eS	04 23 10.0	−1.2		
			LN	Ms=5.2		17.0	0.70
			LE			17.0	1.10
NJ2	51.7	275	+P	04 15 55.6	−0.3		
TIY	51.9	285	eP	04 15 58.3	1.1		
			PMZ			1.2	0.080
			(S)	04 23 18.0	1.0		
			LE	Ms=5.4		21.0	2.49
WHN	55.5	277	eP	04 16 23.5	−0.7		
			PMZ	m_B=5.9		4.0	0.65
			S	04 24 06.0	0.7		
			LN	Ms=4.9		20.0	0.65
XAN	56.4	284	+P	04 16 29.5	−1.3		
QZH	56.9	269	eP	04 16 33.8	−0.1		
			eS	04 24 22.0	−2.4		
LZH	58.1	289	P	04 16 42.5	0.1		
			PMZ			1.0	0.10
GTA	58.1	294	P	04 16 41.7	−1.0		
			eS	04 24 34.0	−6.8		
			LN	Ms=4.8		30.0	0.75
GZH	61.5	272	eP	04 17 03.5	−2.3		
WMQ	61.5	305	P	04 17 06.0	−0.3		
			eS	04 25 34.0	8.8		
CD2	61.7	285	eP	04 17 07.5	0.0		
GYA	63.2	279	P	04 17 17.0	−0.2		
			S	04 25 46.0	2.0		
KMI	66.5	281	+P	04 17 39.0	−0.1		
LSA	70.0	293	eP	04 18 16.0	16.3		

1986 7 28
O=04 54 14.8 ± 0.06s
LAT=51.81 N ± 2.68km
LONG=175.99 W ± 1.06km
DEPTH= 34 km ± 0.53km
STATIONS USED = 26, STAND DEV= 1.14s
Ms=4.6/ 1,

SNY	41.4	281	eP	05 02 01.2	1.0		

TIA	48.8	279	eP	05 02 59.2	−0.3	
NJ2	50.5	274	−P	05 03 12.7	0.2	
XAN	55.3	283	eP	05 03 47.2	−0.7	
GYA	62.0	278	−P	05 04 36.4	1.6	

1986 7 28
O=05 01 57.9 ± 0.18s
LAT=53.07 N ± 6.85km
LONG=166.64 W ± 3.05km
DEPTH= 29 km ± 1.18km
STATIONS USED = 37, STAND DEV= 2.59s
Ms=5.2/ 1,

CN2	44.4	287	eP	05 10 09.0	0.6	
SNY	46.7	286	eP	05 10 26.4	−0.2	
BTO	55.2	293	eP	05 11 32.0	0.6	
			eS	05 19 18.0	6.1	
			LN	Ms=5.2	17.0	0.60
			LE		17.0	1.00
TIY	55.9	289	eP	05 11 44.2	8.3	
WHN	59.8	282	eP	05 11 45.0	−18.1	
XAN	60.5	288	eP	05 12 06.0	−2.2	
GTA	61.6	298	eP	05 12 14.0	−2.0	
LZH	61.9	293	eP	05 12 16.5	−1.1	
WMQ	64.4	309	P	05 12 41.5	7.2	
CD2	65.7	289	eP	05 12 42.8	0.0	
GYA	67.4	284	P	05 12 53.0	−0.5	
KMI	70.7	286	eP	05 13 10.0	−4.0	
LSA	73.6	298	eP	05 13 30.8	−0.9	

1986 7 28
O=09 04 42.0 ± 0.09s
LAT= 2.30 S ± 1.10km
LONG=128.24 E ± 1.97km
DEPTH= 37 km ± 0.44km
STATIONS USED = 18, STAND DEV= 1.79s

WHN	35.2	339	eP	09 11 35.0	−0.5
XAN	40.5	335	−P	09 12 18.0	−1.3
LZH	44.5	331	eP	09 12 53.5	1.5
MDJ	46.7	1	eP	09 13 09.5	−0.3
LSA	47.6	315	eP	09 13 17.8	0.3
GTA	49.0	331	eP	09 13 28.2	0.2

1986 7 28
O=11 03 18.8 ± 0.07s
LAT= 2.31 S ± 0.99km
LONG=128.45 E ± 1.52km
DEPTH= 38 km ± 0.27km
STATIONS USED = 30, STAND DEV= 1.11s

WHN	35.3	339	eP	11 10 13.0	0.1
NJ2	35.4	346	eP	11 10 13.5	0.3
GYA	35.5	325	eP	11 10 16.0	1.4
XAN	40.6	335	eP	11 10 55.0	−1.8
TIY	42.5	341	eP	11 11 13.0	0.3
BJI	43.6	346	P	11 11 21.0	−0.8
SNY	44.2	355	eP	11 11 25.9	−0.2
LZH	44.6	331	eP	11 11 29.5	−0.1
MDJ	46.7	1	eP	11 11 45.0	−1.5
LSA	47.8	315	−iP	11 11 56.4	1.0
GTA	49.2	331	P	11 12 05.0	−0.6
WMQ	58.7	326	eP	11 13 14.0	−1.4

1986 7 28
O=20 29 02.5 ± 0.26s
LAT=33.27 S ± 3.09km
LONG= 71.93 W ± 1.71km
DEPTH= 39 km ± 2.08km
STATIONS USED = 40, STAND DEV= 2.51s
Ms=5.5/ 7,

KSH	153.5	67	ePKP	20 48 53.0	3.0	
			PP	20 52 47.0	0.3	
MDJ	159.8	310	ePKP	20 48 55.5	−2.5	
WMQ	160.9	51	PKP	20 48 59.0	−0.2	
			PKP_2	20 49 47.5		
			PP	20 53 30.0	2.8	
			LN	Ms=5.6	24.0	0.86
LSA	165.1	99	ePKP	20 49 05.4	1.6	
SSE	168.7	263	ePKP	20 49 07.0	1.2	
			PKP_2	20 50 24.0		
			PP	20 54 08.0	1.1	
			SS	21 14 54.0	0.4	
			LN	Ms=5.5	20.0	0.66
BJI	170.6	318	ePKP	20 49 04.5	−2.5	
			ePP	20 54 16.0	−0.6	
			eSS	21 15 12.0	−0.2	
GTA	170.9	45	PKP	20 49 08.6	1.3	
			PKP_2	20 56 29.0		
			PP	20 54 16.0	−2.2	
			SS	21 15 09.0	−6.3	
HHC	171.9	341	ePKP	20 49 09.0	1.1	
TIA	172.0	294	ePKP	20 49 08.6	0.8	
BTO	172.5	349	ePKP	20 49 09.0	0.8	
GYA	173.1	169	ePKP	20 49 10.0	1.5	
			pPKP	20 49 20.0	0.3	
			PKP_2	20 50 36.0		
WHN	174.0	245	ePKP	20 49 09.0	0.3	
			pPKP	20 49 20.0	−0.1	
			ePP	20 54 36.0	2.4	
			LE	Ms=5.5	22.0	0.96
TIY	174.3	322	ePKP	20 49 11.0	2.1	
			PP	20 54 42.0	6.9	

			LE	Ms=5.4		19.0	0.74
LZH	175.5	50	cPKP	20 49 03.5	−5.8		
CD2	175.7	122	cPKP	20 49 10.0	0.8		
			PP	20 54 39.0	−2.9		
XAN	179.0	318	cPKP	20 49 10.6	0.9		
			PP	20 54 50.0	−7.3		
			LN	Ms=5.4		19.0	1.25

1986 7 28
O=21 57 13.2 ± 0.09s
LAT=52.13 N ± 2.71km
LONG=175.55 W ± 1.05km
DEPTH= 31 km ± 0.16km
STATIONS USED = 74, STAND DEV= 1.42s
Ms=5.0/ 10, m_B=5.7/ 3

MDJ	36.4	280	eP	22 04 16.1	−1.3		
CN2	39.4	282	eP	22 04 41.8	−0.3		
			pP	22 04 47.0	−4.1		
			eS	22 10 40.0	−1.7		
SNY	41.6	281	+P	22 05 01.8	1.1		
			eS	22 11 13.0	−2.2		
			LN	Ms=5.1		23.0	1.91
DL2	44.6	279	+P	22 05 25.0	0.3		
			pP	22 05 32.0	−1.8		
			eS	22 12 00.0	1.7		
BJI	47.2	284	eP	22 05 46.0	0.8		
			PcP	22 07 15.0	−1.3		
			PcS	22 11 09.5	−0.6		
			eS	22 12 40.0	4.7		
			eScS	22 15 34.5	0.9		
			LN	Ms=5.0		18.0	0.86
TIA	49.1	279	P	22 06 00.0	0.1		
			sP	22 06 10.0	−2.8		
			PP	22 07 51.0	−2.0		
			eS	22 12 58.0	−3.9		
			LE	Ms=5.1		15.5	1.00
HHC	49.4	287	eP	22 06 03.5	0.7		
SSE	50.0	271	+iP	22 06 07.5	0.2		
			PMZ			1.2	0.12
			sP	22 06 19.0	−1.1		
			eS	22 13 18.0	2.8		
			SS	22 16 48.0	4.2		
			LN	Ms=4.8		20.0	0.59
BTO	50.5	288	eP	22 06 11.0	0.1		
			esP	22 06 23.0	−0.7		
			ePP	22 08 06.0	−0.8		
			eS	22 13 20.0	−1.8		
			LN	Ms=5.3		19.0	1.40
			LE			19.0	1.10
NJ2	50.8	274	+iP	22 06 13.0	−0.2		
			S	22 13 27.0	2.2		
			LN	Ms=5.3		20.0	2.00
TIY	50.9	284	+P	22 06 15.0	0.8		
WHN	54.6	276	+P	22 06 41.0	−0.6		
			PMZ	m_B=6.1		4.0	0.97
			eS	22 14 15.0	−2.9		
			sS	22 14 38.0	4.9		
			LN	Ms=5.1		16.0	0.84
XAN	55.5	283	P	22 06 47.0	−1.1		
			PcP	22 07 46.7	−0.3		
QZH	56.0	268	+P	22 06 51.5	−0.2		
			PMZ			3.0	0.34
			sP	22 07 03.0	−1.8		
			eS	22 14 34.0	−2.7		
			SMN	m_B=4.8		7.0	0.090
LZH	57.1	288	P	22 06 59.5	−0.3		
GTA	57.1	293	+P	22 06 59.0	−1.1		
			PcP	22 07 53.4	−0.1		
			ScP	22 11 48.9	−0.3		
			ScS	22 16 42.8	0.4		
GZH	60.6	270	+P	22 07 24.2	0.3		
WMQ	60.6	304	P	22 07 23.4	−0.7		
CD2	60.8	284	eP	22 07 25.0	−0.2		
GYA	62.2	278	+P	22 07 34.6	−0.5		
			PMZ			1.2	0.26
			sP	22 07 46.0	−2.0		
			S	22 15 53.0	−3.2		
KMI	65.6	280	+P	22 07 57.5	0.3		
LSA	69.1	292	+iP	22 08 19.2	−0.1		
KSH	69.7	308	eP	22 08 23.4	0.7		

1986 7 28
O=23 29 17.2 ± 0.06s
LAT=51.79 N ± 2.09km
LONG=175.26 W ± 0.92km
DEPTH= 32 km ± 0.20km
STATIONS USED = 43, STAND DEV= 0.85s

CN2	39.6	283	eP	23 36 48.0	0.1
SNY	41.9	281	+P	23 37 08.5	2.0
DL2	44.8	279	eP	23 37 31.2	0.8
BJI	47.4	284	eP	23 37 51.5	0.4
TIA	49.3	279	eP	23 38 05.7	0.2
BTO	50.8	288	eP	23 38 17.0	0.1
NJ2	51.0	274	−P	23 38 18.5	0.0
TIY	51.2	284	eP	23 38 19.5	−0.4
WHN	54.8	276	eP	23 38 46.5	−0.5
			eS	23 46 24.0	−0.5
XAN	55.7	283	eP	23 38 52.4	−1.3
GTA	57.4	294	eP	23 39 05.4	−0.6
WMQ	61.0	305	eP	23 39 28.8	−1.4

CD2	61.0	284	eP	23 39 31.1	0.3		
GYA	62.5	278	+P	23 39 40.0	−0.4		
LSA	69.4	292	eP	23 40 24.2	−0.7		

1986 7 29
O = 00 53 28.6 ± 0.15s
LAT = 40.53 N ± 1.49km
LONG = 122.30 E ± 1.69km
DEPTH = 5 km ± 0.39km
STATIONS USED = 10, STAND DEV = 3.72s
Ms = 3.4 / 1, M_L = 3.7 / 10,

SNY	1.6	36	+Pn	00 53 56.5	−1.5		
			Pg	00 54 00.2	3.1		
			Sg	00 54 22.5	3.3		
			SMN	M_L = 3.5		0.8	0.68
			SME			0.5	0.32
DL2	1.7	198	+Pg	00 53 57.5	−1.2		
			Sg	00 54 19.3	−2.7		
			SMN	M_L = 3.8		1.0	1.00
			SME			1.0	1.12
CN2	4.0	35	ePn	00 54 36.0	4.9		
			Pg	00 54 48.2	8.7		
			Sn	00 55 21.2	0.6		
			Sg	00 55 36.0	1.5		
			SMN	M_L = 3.5		0.6	0.070
			SME			0.6	0.12

1986 7 29
O = 08 14 59.4 ± 0.12s
LAT = 21.03 S ± 1.79km
LONG = 175.50 W ± 1.72km
DEPTH = 118 km ± 0.57km
STATIONS USED = 41, STAND DEV = 1.35s

QZH	78.7	302	−P	08 26 50.0	−0.7
GZH	82.0	298	P	08 27 09.2	0.6
NJ2	82.0	309	+P	08 27 09.0	0.4
MDJ	82.3	324	eP	08 27 10.2	0.1
DL2	83.7	316	eP	08 27 18.0	0.8
SNY	84.1	319	eP	08 27 19.4	0.2
CN2	84.2	321	eP	08 27 19.4	0.0
			pP	08 27 50.4	1.5
WHN	84.6	305	eP	08 27 22.5	0.7
BJI	87.9	314	eP	08 27 38.0	0.2
GYA	88.9	299	P	08 27 40.0	−2.8
TIY	89.4	311	eP	08 27 45.5	0.7
XAN	90.3	306	−P	08 27 49.5	0.4
KMI	91.7	296	−P	08 27 57.0	1.3

1986 7 29
O = 09 58 31.2 ± 0.12s
LAT = 49.38 S ± 2.18km
LONG = 121.30 E ± 2.55km
DEPTH = 11 km ± 0.32km
STATIONS USED = 14, STAND DEV = 3.02s

WHN	79.8	354	eP	10 10 42.5	0.4		
XAN	83.8	350	eP	10 11 00.0	−2.9		
TIY	87.1	353	eP	10 11 26.8	7.5		
GTA	90.4	344	eP	10 11 34.0	−1.3		

1986 7 29
O = 11 57 47.4 ± 0.06s
LAT = 17.67 S ± 1.08km
LONG = 178.48 W ± 0.75km
DEPTH = 565 km ± 1.02km
STATIONS USED = 59, STAND DEV = 0.66s

QZH	74.5	303	−P	12 08 30.5	−0.2		
SSE	75.5	310	P	12 08 35.8	−0.7		
			PMZ			0.8	0.020
NJ2	77.7	309	−P	12 08 48.8	0.4		
GZH	78.0	299	−P	12 08 50.0	0.5		
MDJ	78.0	325	eP	12 08 49.1	−0.5		
DL2	79.4	317	eP	12 08 57.3	0.2		
SNY	79.8	320	−iP	12 08 58.6	−0.5		
CN2	79.8	322	−P	12 08 58.6	−0.7		
WHN	80.4	306	−P	12 09 02.5	0.0		
BJI	83.6	315	−P	12 09 18.0	−0.4		
GYA	84.9	300	P	12 09 26.0	1.1		
TIY	85.1	312	−iP	12 09 26.2	0.4		
			PMZ			1.0	0.050
			LE			13.0	0.21
XAN	86.1	307	−P	12 09 31.3	0.7		
CD2	88.9	303	eP	12 09 44.8	0.9		
LZH	90.7	308	−iP	12 09 53.0	0.6		
			PMZ			1.0	0.060
GTA	94.8	310	P	12 10 10.6	−0.6		

1986 7 29
O = 18 25 47.8 ± 0.08s
LAT = 43.98 N ± 2.35km
LONG = 147.12 E ± 1.47km
DEPTH = 70 km ± 1.13km
STATIONS USED = 53, STAND DEV = 1.44s

MDJ	12.6	279	eP	18 28 48.9	3.2		
CN2	15.6	277	eP	18 29 24.2	−1.1		
SNY	17.4	271	+iP	18 29 48.4	1.2		
BJI	23.3	271	eP	18 30 50.0	0.0		
SSE	24.1	247	eP	18 31 01.0	2.5		
			PMZ			0.8	0.020
NJ2	25.1	251	+P	18 31 09.2	1.2		
HHC	26.3	276	P	18 31 20.4	1.2		

TIY	26.8	269	eP	18 31 24.0	0.0		
BTO	27.5	276	eP	18 31 30.0	−0.2		
WHN	29.1	254	eP	18 31 43.6	−0.9		
LZH	33.7	272	−iP	18 32 26.0	0.7		
			PMZ			1.0	0.080
GTA	35.2	279	eP	18 32 38.1	0.1		
			PcP	18 35 07.9	0.9		
CD2	36.4	264	eP	18 32 48.2	0.4		
GYA	37.0	255	−P	18 32 52.4	−0.1		
KMI	40.5	257	eP	18 33 23.0	0.6		
WMQ	42.0	291	P	18 33 34.5	0.3		
LSA	46.2	271	eP	18 34 08.2	0.0		

1986 7 30
O = 00 44 00.9 ± 0.07s
LAT = 39.75 N ± 1.29km
LONG = 74.12 E ± 0.41km
DEPTH = 8 km ± 1.09km
STATIONS USED = 5, STAND DEV = 4.28s
M_L = 3.9 / 3,

KSH	1.5	101	Pg	00 44 26.7	−0.3		
			Sg	00 44 44.7	−2.2		
			SME	M_L = 4.5		0.5	6.30
WMQ	10.9	64	e(P)	00 46 40.5	−0.3		
			LE			2.0	0.030

1986 7 30
O = 02 13 00.4 ± 0.27s
LAT = 34.66 N ± 0.57km
LONG = 32.26 E ± 1.43km
DEPTH = 62 km ± 2.91km
STATIONS USED = 48, STAND DEV = 1.33s

KSH	35.0	69	eP	02 20 07.0	18.6
WMQ	43.2	61	P	02 20 58.5	1.1
LSA	49.5	78	eP	02 21 47.0	−0.5
GTA	53.0	64	+iP	02 22 13.8	0.0
LZH	57.1	66	eP	02 22 44.5	0.8
CD2	59.1	72	eP	02 22 57.5	0.4
KMI	60.7	78	eP	02 23 08.5	−0.4
XAN	61.7	67	eP	02 23 15.0	−0.4
TIY	62.8	61	eP	02 23 21.2	−1.6
GYA	63.3	75	−P	02 23 26.0	0.2
BJI	64.5	58	eP	02 23 34.0	0.2
WHN	67.4	68	eP	02 23 52.5	0.4
SNY	68.8	53	−P	02 24 00.7	0.1
CN2	69.1	51	+P	02 24 02.2	−0.2
NJ2	70.1	64	−P	02 24 09.5	0.9

1986 7 30
O = 03 03 19.9 ± 0.09s
LAT = 7.14 S ± 0.91km
LONG = 129.44 E ± 1.38km
DEPTH = 155 km ± 0.43km
STATIONS USED = 47, STAND DEV = 0.88s

QZH	33.6	342	eP	03 09 47.0	−0.7
NJ2	40.3	346	−P	03 10 44.8	1.3
CD2	45.1	328	eP	03 11 22.6	−0.4
XAN	45.3	336	eP	03 11 23.4	−1.3
TIY	47.4	342	eP	03 11 40.4	−0.2
BJI	48.5	346	eP	03 11 50.0	0.6
SNY	49.0	354	+P	03 11 53.2	−0.2
LZH	49.3	332	eP	03 11 54.5	−0.9
CN2	50.8	356	P	03 12 06.4	−0.7
LSA	51.9	317	P	03 12 15.2	−0.6
GTA	53.8	332	+iP	03 12 29.8	0.2
WMQ	63.2	327	P	03 13 34.5	−0.1

1986 7 30
O = 04 02 53.2 ± 0.07s
LAT = 18.00 S ± 1.06km
LONG = 174.76 W ± 1.02km
DEPTH = 174 km ± 0.29km
STATIONS USED = 29, STAND DEV = 0.86s

MDJ	80.3	323	eP	04 14 47.1	0.1		
WHN	83.5	305	eP	04 15 04.0	0.5		
TIY	87.9	311	eP	04 15 25.5	0.2		
			LE			13.0	0.28
XAN	89.1	306	eP	04 15 31.0	0.2		

1986 7 30
O = 04 03 22.5 ± 0.12s
LAT = 33.19 N ± 1.62km
LONG = 75.83 E ± 1.75km
DEPTH = 14 km ± 0.18km
STATIONS USED = 20, STAND DEV = 3.10s
M_L = 4.2 / 1,

KSH	6.3	1	ePn	04 05 02.0	7.1
			eSn	04 06 16.0	7.8
WMQ	14.1	38	eP	04 06 45.0	0.8
GTA	20.3	65	eP	04 07 58.3	−2.5

1986 7 30
O = 05 55 14.6 ± 0.13s
LAT = 15.17 N ± 1.71km
LONG = 146.63 E ± 2.15km
DEPTH = 92 km ± 0.98km
STATIONS USED = 20, STAND DEV = 2.13s

XAN	38.8	306	eP	06 02 33.0	0.5
LSA	52.8	296	−P	06 04 24.4	0.6
WMQ	57.3	313	P	06 04 57.0	1.1

1986 7 30
O=09 12 27.3 ± 0.09s
LAT= 4.77 N ± 0.69km
LONG= 94.99 E ± 0.89km
DEPTH= 61 km ± 0.35km
STATIONS USED = 18, STAND DEV= 0.77s

GYA	24.3	26	P	09 17 41.8	1.3	
WHN	31.5	33	eP	09 18 46.0	0.3	
XAN	31.9	22	+iP	09 18 47.8	−1.5	
GTA	34.8	7	+iP	09 19 13.6	−0.8	
TIA	37.3	30	eP	09 19 35.8	−0.2	

1986 7 30
O=11 31 49.7 ± 0.14s
LAT=24.70 N ± 1.94km
LONG=121.65 E ± 1.92km
DEPTH= 29 km ± 0.49km
STATIONS USED = 88, STAND DEV= 2.11s
Ms=6.0/42, m_B=5.8/13

QZH	2.8	276	+iPn	11 32 32.7	−0.2	
			Sn	11 33 05.7	−1.4	
			LE		7.5	6.77
SSE	6.4	356	+iPn	11 33 21.0	−1.2	
			Sn	11 34 33.0	−3.1	
			LG_1	11 35 17.2	7.1	
			LN	Ms=6.1	6.0	15.6
			LE		6.0	122
NJ2	7.7	342	+Pn	11 33 39.0	−1.7	
			Sn	11 35 05.5	−3.8	
			LG_1	11 35 54.0	1.7	
			LE	Ms=6.0	9.0	101
GZH	7.8	260	Pn	11 33 43.0	1.7	
			Sn	11 35 08.0	−2.5	
			LN	Ms=5.9	7.0	29.4
			LE		7.0	47.0
WHN	8.7	314	eP	11 33 53.2	−3.5	
			eS	11 35 31.2	−3.6	
			SS	11 35 43.0	−4.7	
			LG_1	11 36 18.0	−5.0	
			LE	Ms=5.9	7.0	47.0
TIA	12.1	342	eP	11 34 39.0	−4.5	
			eS	11 36 51.6	−7.1	
			LG_1	11 38 13.0	2.9	
			LN	Ms=6.0	11.0	5.61
			LE		10.0	46.3
GYA	13.6	281	eP	11 35 03.4	−0.5	
			PP	11 35 15.4	0.8	
			S	11 37 35.0	0.1	
			LG_1	11 38 50.0	−8.0	
			LG_2	11 39 10.0	−9.7	
			ScP	11 43 48.0	−9.9	
			PcS	11 44 05.0	3.7	
			LN	Ms=6.2	10.0	44.0
			LE		10.0	51.0
DL2	14.2	360	eP	11 35 14.5	3.9	
			eS	11 37 57.0	9.2	
			LG_1	11 39 21.0	6.6	
			LE	Ms=5.9	13.0	38.8
XAN	14.5	313	+P	11 35 12.0	−2.7	
			S	11 37 52.0	−2.6	
			SS	11 38 08.0	−3.5	
			LG_1	11 39 16.0	−8.1	
			LG_2	11 39 41.0	−6.0	
			LN	Ms=6.0	10.0	31.5
			LE		10.0	16.5
TIY	15.2	331	eP	11 35 22.6	−1.2	
			PMZ	m_B=5.7	5.0	1.61
			PP	11 35 39.0	3.4	
			SMN	m_B=5.6	8.0	2.26
			SME		12.0	2.85
			LN	Ms=5.9	10.0	24.2
			LE		10.0	12.9
BJI	16.0	345	eP	11 35 34.0	−0.1	
			PMZ		2.5	0.43
			eS	11 38 22.0	−8.3	
			LE	Ms=5.7	12.0	17.7
SNY	17.2	5	−iP	11 35 51.9	2.8	
			PMZ	m_B=5.8	8.0	4.11
			S	11 39 05.0	7.9	
			SME	m_B=5.5	12.0	2.87
			LN	Ms=5.8	10.0	15.4
			LE		9.0	5.80
KMI	17.2	275	−P	11 35 50.0	0.5	
			pP	11 35 55.5	−0.7	
			sP	11 35 59.0	−1.5	
			eS	11 38 57.0	−1.3	
			SS	11 39 16.0	−2.4	
			LN	Ms=6.3	14.0	88.3
HHC	18.2	335	−P	11 36 05.0	3.0	
			SMN	m_B=5.8	10.0	2.87
			SME		10.0	2.88
			LN	Ms=5.9	10.0	15.0
			LE		10.0	12.3
BTO	18.6	331	−P	11 36 08.5	1.3	
			PMZ	m_B=6.1	6.0	5.10
			PP	11 36 23.0	0.5	
			S	11 39 33.0	3.1	
			SS	11 39 54.0	−0.3	
LZH	19.1	311	+iP	11 36 14.0	1.1	

			PMZ	$m_B = 5.9$		3.5	2.24
			PP	11 36 31.0	2.1		
			eS	11 39 47.0	5.8		
			LG_2	11 42 19.0	0.4		
			LN	Ms = 6.3		5.0	21.0
			LE			5.0	12.4
CN2	19.3	8	−iP	11 36 15.0	−0.4		
			PMZ			3.0	0.70
			PP	11 36 35.0	2.7		
			eS	11 39 48.0	1.8		
			SS	11 40 12.0	0.2		
			LE	Ms = 5.9		13.0	21.8
MDJ	20.9	16	−P	11 36 32.5	0.1		
			PP	11 36 52.0	−2.5		
			S	11 40 20.0	1.7		
			SS	11 40 54.0	3.5		
GTA	23.5	314	+iP	11 37 00.4	1.7		
			PMZ	$m_B = 5.8$		7.5	2.73
			pP	11 37 10.0	3.2		
			S	11 41 14.0	7.5		
			SMN			16.0	4.68
			LE	Ms = 5.8		11.0	11.4
LSA	27.5	287	eP	11 37 36.6	−0.2		
			PP	11 38 24.5	0.5		
			S	11 42 22.0	8.7		
			LN	Ms = 6.0		13.0	15.7
WMQ	33.6	313	P	11 38 31.0	0.8		
			PP	11 39 37.0	−5.2		
			S	11 43 56.0	6.9		
			ScS	11 48 58.0	7.4		
			LE	Ms = 6.2		10.0	13.5
KSH	41.0	302	P	11 39 36.3	4.2		
			PP	11 41 13.0	3.3		
			S	11 45 50.0	8.7		
			LE	Ms = 6.1		12.0	10.0

1986 7 30
O = 14 36 55.2 ± 0.09s
LAT = 20.64 S ± 2.24km
LONG = 169.40 E ± 1.24km
DEPTH = 67 km ± 0.94km
STATIONS USED = 21, STAND DEV = 2.75s

MDJ	74.4	332	eP	14 48 28.7	0.1
CN2	75.7	329	+P	14 48 35.6	−0.5
BJI	78.1	321	eP	14 48 49.0	−0.4
XAN	79.2	313	+P	14 48 55.8	0.5
GTA	88.2	313	P	14 49 41.6	0.5

1986 7 30
O = 15 18 42.4 ± 0.10s
LAT = 10.95 S ± 0.90km
LONG = 166.26 E ± 1.68km
DEPTH = 34 km ± 0.23km
STATIONS USED = 22, STAND DEV = 0.96s

MDJ	64.5	332	eP	15 29 19.1	0.5
CN2	65.9	329	eP	15 29 27.0	−0.8
BJI	68.7	321	eP	15 29 45.0	−0.4
GYA	68.8	304	P	15 29 46.6	0.7
XAN	70.4	312	+P	15 29 56.0	0.1
GTA	79.4	314	+iP	15 30 48.0	0.6
WMQ	89.4	315	eP	15 31 37.9	0.1

1986 7 30
O = 18 26 56.3 ± 0.07s
LAT = 6.22 S ± 1.35km
LONG = 122.88 E ± 1.71km
DEPTH = 32 km ± 0.08km
STATIONS USED = 24, STAND DEV = 0.96s

WHN	37.5	348	eP	18 34 10.0	1.2
NJ2	38.2	354	eP	18 34 17.0	1.5
XAN	42.2	343	eP	18 34 47.6	−0.4
LZH	45.7	338	eP	18 35 17.5	0.7
BJI	46.4	353	eP	18 35 20.0	−2.3
LSA	46.9	321	eP	18 35 26.8	0.0
GTA	50.2	337	+iP	18 35 51.4	0.0
WMQ	59.1	331	P	18 36 56.5	0.1

1986 7 30
O = 19 22 07.0 ± 0.16s
LAT = 11.32 N ± 3.38km
LONG = 85.99 W ± 3.04km
DEPTH = 27 km ± 1.26km
STATIONS USED = 30, STAND DEV = 1.85s

WMQ	124.8	6	PKP	19 41 06.0	0.3
BJI	124.9	339	ePKP	19 41 05.0	−0.8
HHC	125.6	344	ePKP	19 41 09.9	2.6
TIY	128.3	341	ePKP	19 41 13.1	0.7
GTA	129.2	354	PKP	19 41 14.0	−0.3
LZH	131.9	349	−PKP	19 41 21.5	2.0
XAN	132.7	343	ePKP	19 41 20.3	−0.5
WHN	134.0	335	ePKP	19 41 24.0	0.8
LSA	139.1	4	−iPKP	19 41 33.8	0.7
GYA	140.5	342	PKP	19 41 37.4	2.2

1986 7 30
O = 21 25 34.1 ± 0.05s
LAT = 52.48 S ± 0.85km
LONG = 18.46 E ± 1.52km
DEPTH = 9 km ± 0.06km
STATIONS USED = 9, STAND DEV = 1.45s

GTA	115.4	58	ePKP	21 44 18.2	0.7	

1986 7 30
O=22 58 38.1 ± 0.08s
LAT=52.39 S ± 1.50km
LONG= 17.90 E ± 2.32km
DEPTH= 12 km ± 0.18km
STATIONS USED = 10, STAND DEV= 2.18s

GTA	115.6	58	ePKP	23 17 23.2	1.7	
BJI	125.0	68	ePKP	23 17 38.0	−1.5	

1986 7 31
O=07 22 39.3 ± 0.08s
LAT=37.47 N ± 1.59km
LONG=118.48 W ± 1.60km
DEPTH= 5 km ± 0.72km
STATIONS USED = 39, STAND DEV= 1.17s
Ms=5.6/11,

MDJ	77.8	317	eP	07 34 39.0	−0.9		
CN2	80.5	319	eP	07 34 53.6	−1.3		
			eS	07 44 58.0	−3.4		
			LN	Ms=5.9		5.0	0.80
SNY	82.9	318	+P	07 35 07.6	0.4		
			eS	07 45 29.0	3.3		
			LN	Ms=5.2		32.0	1.14
DL2	86.0	317	eP	07 35 23.0	0.0		
BJI	88.0	321	eP	07 35 32.5	−0.1		
			LE	Ms=5.6		26.0	1.78
BTO	90.5	325	eP	07 35 42.5	−2.1		
			ePP	07 39 19.0	−0.7		
			eSKS	07 46 13.0	−0.5		
			eS	07 46 35.0	−3.7		
			LN	Ms=5.8		19.0	1.70
			LE			19.0	1.50
TIY	91.7	322	eP	07 35 50.5	0.7		
			S	07 46 52.0	5.0		
			LN	Ms=5.8		14.0	0.65
			LE			13.5	1.19
SSE	91.9	312	+P	07 35 51.6	0.7		
			PMZ			1.0	0.020
			LE	Ms=5.5		20.0	1.15
NJ2	92.6	314	−P	07 35 54.0	0.1		
			LN	Ms=5.6		15.0	1.00
WMQ	95.7	341	P	07 36 12.5	4.1		
			eS	07 47 30.0	6.3		
			LE	Ms=5.6		28.0	1.79
GTA	95.8	331	eP	07 36 09.5	0.6		
			PP	07 39 59.3	−2.4		
			eSKS	07 46 48.6	5.6		
			eS	07 47 24.0	−0.6		
			LN	Ms=5.4		34.0	0.66
			LE			35.0	1.19
XAN	96.3	322	eP	07 36 09.0	−2.1		

1986 7 31
O=10 57 09.8 ± 0.09s
LAT= 5.61 S ± 0.70km
LONG=150.44 E ± 0.81km
DEPTH=101 km ± 0.66km
STATIONS USED = 21, STAND DEV= 1.07s

DL2	51.7	331	eP	11 06 08.5	−0.7		
BJI	55.3	328	eP	11 06 35.0	−0.7		
GTA	64.7	319	eP	11 07 39.8	−0.2		

1986 7 31
O=11 36 35.0 ± 0.15s
LAT=24.83 N ± 2.13km
LONG=122.71 E ± 1.92km
DEPTH= 32 km ± 0.50km
STATIONS USED = 74, STAND DEV= 2.35s
Ms=5.7/40, M_L=4.5/ 3, m_B=5.3/ 5

QZH	3.7	273	eP	11 37 25.5	−6.5		
			S	11 38 14.0	−1.4		
			SMN	M_L=4.5		1.2	1.27
			SME			1.3	0.92
SSE	6.4	348	P	11 38 11.0	1.6		
			S	11 39 26.0	4.1		
			SMN	M_L=5.0		1.2	0.67
			SME			1.4	1.34
			LG_1	11 40 00.0	4.5		
			LG_2	11 40 14.0	8.4		
			LN	Ms=5.3		12.0	32.4
NJ2	8.0	336	eP	11 38 30.5	−0.8		
			eS	11 40 00.0	−1.1		
			LN	Ms=5.4		9.0	22.7
GZH	8.7	260	eP	11 38 44.2	1.9		
			LG_1	11 41 15.0	5.5		
			LN	Ms=5.8		9.0	18.3
			LE			9.0	43.2
WHN	9.3	309	eP	11 38 45.5	−5.0		
			eS	11 40 33.0	−2.6		
			LG_1	11 41 28.0	−0.4		
			LG_2	11 41 48.0	4.8		
			LE	Ms=5.5		10.0	27.1
TIA	12.3	338	eP	11 39 32.4	1.1		
			eS	11 41 53.4	4.8		
			LG_2	11 43 15.0	−6.4		
			LN	Ms=5.3		11.0	6.71
			LE			12.0	8.81
DL2	14.1	357	eP	11 39 58.0	3.7		

			csP	11 40 07.0	0.9		
			eS	11 42 40.0	9.6		
			LN	Ms=5.7		11.0	22.6
			LE			10.0	3.97
GYA	14.6	280	eP	11 40 07.0	5.9		
			sP	11 40 11.0	−1.6		
			S	11 42 48.0	6.2		
			LN	Ms=5.7		9.0	13.0
			LE			9.0	7.70
TIY	15.5	328	eP	11 40 16.0	2.3		
			SME	m_B=4.6		11.0	0.38
			LN	Ms=5.8		8.0	7.00
			LE			10.0	18.8
BJI	16.1	342	eP	11 40 22.0	0.8		
			eS	11 43 24.0	5.1		
			SME	m_B=5.1		9.0	0.86
			LN	Ms=5.4		11.0	9.52
SNY	17.0	2	eP	11 40 32.5	0.8		
			PMZ			13.0	1.90
			pP	11 40 39.5	0.4		
			S	11 43 42.0	4.3		
			sS	11 43 55.0	5.2		
			LN	Ms=5.5		10.0	9.21
			LE			10.5	3.45
CD2	17.8	294	eP	11 40 41.5	−0.9		
			S	11 43 58.0	1.2		
			LE	Ms=5.8		10.0	18.4
KMI	18.1	275	eP	11 40 47.5	1.2		
			eS	11 44 13.0	8.3		
			sS	11 44 20.0	4.0		
			LN	Ms=5.7		14.0	18.0
HHC	18.5	332	eP	11 40 53.0	2.2		
			PP	11 41 10.5	4.6		
			SMN	m_B=5.3		9.0	0.82
			SME			8.0	0.66
BTO	19.0	329	−P	11 40 58.0	1.2		
			sP	11 41 05.0	−3.6		
			PP	11 41 15.0	2.3		
			S	11 44 30.0	7.0		
			SS	11 44 54.0	5.5		
			LN	Ms=5.7		9.0	9.70
			LE			10.0	6.60
CN2	19.1	6	−P	11 40 57.0	−0.6		
			pP	11 41 02.5	−2.5		
			eS	11 44 27.0	1.4		
			eSS	11 44 54.0	3.4		
			LN	Ms=5.8		13.0	17.8
LZH	19.7	309	−iP	11 41 05.0	−0.1		
			PMZ			3.0	0.70
			eS	11 44 45.0	4.1		
			SMN	m_B=5.4		10.0	1.46
			LN	Ms=5.7		13.0	11.9
			LE			14.0	11.8
MDJ	20.5	14	eP	11 41 12.3	−1.1		
			pP	11 41 18.0	−3.7		
			PP	11 41 33.0	−1.4		
			eS	11 44 58.0	1.4		
GTA	24.1	313	P	11 41 49.8	0.2		
			pP	11 41 55.0	−3.2		
			sS	11 46 12.0	−4.9		
			LE	Ms=5.8		11.0	11.3
LSA	28.4	287	P	11 42 28.8	−0.9		
			LE	Ms=5.9		12.0	12.6
WMQ	34.2	312	P	11 43 19.5	−0.9		
			LN	Ms=5.6		12.0	4.38
KSH	41.7	302	P	11 44 25.2	2.0		
			sP	11 44 32.0	−4.1		
			PP	11 46 06.0	3.1		
			eS	11 50 44.0	5.7		
			LE	Ms=5.9		14.0	7.20

1986 7 31

O=13 30 43.4 ± 0.18s
LAT=20.02 S ± 3.25km
LONG=173.81 W ± 3.98km
DEPTH= 33 km ± 0.32km
STATIONS USED = 21, STAND DEV= 2.91s

MDJ	82.4	323	eP	13 43 06.1	1.4
CN2	84.4	321	eP	13 43 15.6	1.1
WHN	85.4	305	eP	13 43 23.0	3.6
TIA	85.9	311	eP	13 43 23.7	1.7
BJI	88.4	314	eP	13 43 36.0	2.1
XAN	91.0	306	eP	13 43 49.0	2.5

1986 7 31

O=19 33 57.5 ± 0.04s
LAT=52.47 S ± 0.82km
LONG= 18.16 E ± 1.21km
DEPTH= 9 km ± 0.11km
STATIONS USED = 17, STAND DEV= 3.23s

WMQ	113.0	47	cPKP	19 52 25.0	−11.2
GTA	115.6	58	PKP	19 52 41.5	0.3
XAN	116.6	68	ePKP	19 52 43.7	0.6
BJI	124.9	68	ePKP	19 52 59.0	−0.2