Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
			1986 4 1				
			O = 07 41 40.7	**± 0.12s**			
			LAT = 28.58 N	**± 2.72km**			
			LONG = 140.60 E	**± 2.71km**			
			DEPTH = 21 km	**± 1.16km**			
			STATIONS USED = 44, STAND DEV = 2.02s				
			Ms = 4.5 / 10,	**m_B = 5.7 / 19**			
SSE	17.0	283	cP	07 45 37.0	−2.4		
			PMZ	m_B = 5.4		7.0	1.34
			LN	Ms = 4.2		10.0	0.49
MDJ	18.3	334	−P	07 45 53.0	−1.8		
DL2	18.8	308	+P	07 46 03.0	1.5		
			PMZ	m_B = 5.5		6.0	1.43
NJ2	19.1	286	−P	07 46 04.0	−0.9		
			PMZ	m_B = 5.8		6.0	2.90
			LN	Ms = 4.7		9.0	1.10
SNY	19.1	318	+P	07 46 08.0	2.5		
			pP	07 46 14.0	2.4		
			LE	Ms = 4.5		11.0	0.86
CN2	19.5	325	−P	07 46 04.0	−5.0		
			PMZ	m_B = 5.3		4.5	0.60
			eS	07 49 32.0	−9.9		
			LE	Ms = 4.5		10.0	0.80
TIA	21.2	297	cP	07 46 27.5	−0.1		
			LE			0.5	0.37
WHN	22.9	281	+P	07 46 46.0	1.5		
			PMZ	m_B = 5.9		5.0	2.53
			S	07 50 58.0	9.9		
			SME	m_B = 5.4		10.0	1.46
			LN	Ms = 4.6		10.0	0.55
			LE			11.0	0.56
BJI	23.1	306	cP	07 46 48.0	1.4		
			PMZ	m_B = 5.4		6.0	0.85
			cS	07 50 58.0	5.4		
			SMN	m_B = 5.5		7.0	0.89
			SME			10.0	0.90
			LN	Ms = 4.4		10.0	0.41
GZH	25.1	264	P	07 47 07.0	1.1		
XAN	27.5	289	+P	07 47 27.5	−1.0		
			PMZ	m_B = 5.5		6.0	0.66
			PP	07 48 20.0	4.1		
			S	07 52 15.0	8.9		
BTO	27.7	304	+P	07 47 31.0	0.6		
			PMZ	m_B = 5.7		6.0	0.90
			S	07 52 18.0	8.6		
QZN	29.6	258	P	07 47 48.0	0.8		
			S	07 52 48.0	8.5		
GYA	30.1	274	eP	07 47 49.0	−2.7		
			S	07 52 55.0	7.8		
CD2	32.0	283	eP	07 48 07.6	−0.5		
GTA	35.2	299	P	07 48 35.2	−1.1		
			PMZ	m_B = 5.7		5.0	0.67
			PP	07 49 55.8	0.9		
			S	07 54 15.0	8.0		
			LN	Ms = 4.4		10.0	0.22
WMQ	44.6	305	eP	07 49 54.0	0.3		
			PMZ	m_B = 6.0		5.0	1.32
			PP	07 51 46.5	8.0		
KSH	53.6	300	eP	07 51 05.0	1.5		
			ePP	07 53 10.0	5.3		
			1986 4 1				
			O = 10 13 40.7	**± 0.10s**			
			LAT = 18.01 S	**± 1.84km**			
			LONG = 178.48 W	**± 1.88km**			
			DEPTH = 543 km	**± 0.59km**			
			STATIONS USED = 73, STAND DEV = 1.04s				
				m_B = 5.9 / 18			
SSE	75.7	310	−P	10 24 32.5	−0.3		
			pP	10 26 26.0	−1.2		
			iS	10 33 31.0	−0.5		
NJ2	77.9	310	+P	10 24 45.0	0.3		
			pP	10 26 41.5	1.6		
			iS	10 33 57.5	2.8		
			SMN			16.0	1.40
GZH	78.1	299	+P	10 24 46.5	0.9		
			S	10 33 54.0	−0.9		
			SMN	m_B = 5.5		10.0	0.94
MDJ	78.2	325	−P	10 24 46.0	−0.2		
			pP	10 26 40.0	−1.4		
			S	10 33 53.0	−3.0		
			SME	m_B = 6.0		7.0	2.43
			SKS	10 34 03.0	−1.5		
			SS	10 39 12.0	−4.5		
QZN	79.4	294	P	10 24 54.0	1.4		
			pP	10 26 50.0	1.8		
			S	10 34 08.0	−0.5		
			SMN	m_B = 5.4		12.0	0.90
CN2	80.1	322	−iP	10 24 55.3	−0.5		
			PMZ			3.0	0.40
			ipP	10 26 50.0	−1.7		
			iS	10 34 18.0	1.5		
			SMN	m_B = 6.0		7.0	2.20

WHN	80.6	306	eP	10 25 01.0	2.3		
			pP	10 26 54.0	−0.7		
			S	10 34 22.5	2.1		
			SMN	m_B = 5.9		6.0	1.44
			iSKS	10 34 24.0	2.7		
TIA	81.3	312	−P	10 25 01.9	−0.2		
			pP	10 27 00.0	1.7		
			S	10 34 30.3	3.3		
BJI	83.8	315	eP	10 25 14.0	−0.8		
			cpP	10 27 13.0	1.1		
			eSKS	10 34 46.0	2.7		
			S	10 34 56.0	4.1		
			SMN	m_B = 5.8		6.0	1.06
GYA	85.0	300	+P	10 25 21.8	0.9		
			pP	10 27 20.6	2.4		
			PP	10 28 49.0	0.6		
			SKS	10 34 55.0	3.7		
			S	10 35 08.0	4.5		
			SKKS	10 35 19.0			
TIY	85.3	312	−iP	10 25 22.5	0.4		
			PMZ			0.4	0.040
			pP	10 27 21.5	2.0		
			SKS	10 34 56.0	3.0		
			S	10 35 05.5	−0.4		
			SMN	m_B = 5.9		8.0	1.07
			SME			7.0	0.54
XAN	86.3	307	−iP	10 25 27.4	0.6		
			pP	10 27 25.5	1.0		
			PP	10 29 08.0	9.6		
			iSKS	10 34 59.5	0.1		
			iS	10 35 21.5	4.5		
			SMN	m_B = 6.2		7.0	2.29
			SME			7.0	1.01
KMI	87.8	297	+iP	10 25 35.5	1.2		
			pP	10 27 36.5	4.3		
			SKS	10 35 12.0	2.9		
			S	10 35 35.0	5.7		
			SMN	m_B = 5.8		8.0	1.00
BTO	88.2	314	cP	10 25 37.0	0.9		
			pP	10 27 37.0	2.8		
			csP	10 28 29.0	1.3		
			SKS	10 35 12.0	0.3		
			eS	10 35 33.0	−2.1		
CD2	89.1	303	cP	10 25 41.6	1.7		
			pP	10 27 41.4	3.0		
			SKS	10 35 17.6	1.0		
			S	10 35 48.0	7.5		
			SMN	m_B = 6.4		7.0	2.95
LZH	90.9	308	−P	10 25 49.5	1.0		
			PMZ			1.5	0.070
			pP	10 27 48.0	0.8		
			eSKS	10 35 26.0	−1.3		
			eS	10 36 00.0	1.2		
			SMN	m_B = 6.1		9.0	1.98
GTA	95.0	310	P	10 26 07.2	−0.3		
			SKS	10 35 48.0	−1.9		
			S	10 36 36.0	3.9		
			SMN	m_B = 5.0		9.0	0.39
KSH	113.1	306	cPKP	10 31 15.9	−1.6		

1986 4 1
O = 11 22 39.2 ± 0.02s
LAT = 38.08 N ± 0.11km
LONG = 116.87 E ± 0.19km
DEPTH = 16 km
STATIONS USED = 5, STAND DEV = 0.61s
M_L = 3.0 / 5,

TIA	1.9	174	Pn	11 23 11.4	0.1		
			Pg	11 23 14.1	1.6		
			Sn	11 23 34.1	−2.4		
			Sg	11 23 38.7	0.4		
			SMN	M_L = 2.7		0.3	0.050
			SME			0.3	0.094
BJI	2.0	345	cPg	11 23 15.0	−0.1		
			cSg	11 23 40.0	−2.9		
			SMN	M_L = 3.3		0.5	0.17
			SME			0.5	0.31
TIY	3.5	265	Pg	11 23 42.0	0.3		
			Sg	11 24 33.1	3.3		
			SMN	M_L = 2.7		0.8	0.020
			SME			1.0	0.020

1986 4 1
O = 13 40 44.0 ± 0.09s
LAT = 54.82 N ± 2.87km
LONG = 161.29 E ± 1.72km
DEPTH = 33 km ± 0.19km
STATIONS USED = 79, STAND DEV = 1.31s
Ms = 5.5 / 31, m_B = 5.4 / 3

MDJ	22.7	256	+P	13 45 43.1	−1.3		
			PcP	13 49 37.2	0.4		
			S	13 49 47.0	1.4		
			SS	13 50 30.0	1.1		
			PcS	13 53 17.5	3.2		
CN2	25.6	259	+P	13 46 09.0	−2.9		
			PMZ	m_B = 5.3		4.0	0.30
			pP	13 46 22.0	1.2		
			PP	13 46 49.0	−2.1		
			PcP	13 49 42.6	−0.3		
			eS	13 50 27.0	−8.3		

			SME			13.0	1.50
			sS	13 50 48.0	−2.0		
			eSS	13 51 30.0	−8.4		
SNY	27.9	258	eP	13 46 30.0	−3.2		
			sP	13 46 49.0	2.8		
			eS	13 51 11.0	−2.1		
			LN	Ms=5.4		16.0	4.38
			LE			16.0	3.05
DL2	30.9	256	eP	13 46 58.0	−2.6		
			ePP	13 48 08.0	5.7		
			eS	13 52 05.0	3.2		
			LN	Ms=5.5		15.0	2.66
			LE			15.0	3.78
BJI	33.3	263	eP	13 47 20.0	−0.9		
			LN	Ms=5.5		16.0	4.48
			LE			15.0	1.67
TIA	35.4	257	eP	13 47 38.6	−0.5		
			eS	13 53 08.5	−2.4		
			LN	Ms=5.4		16.0	1.73
			LE			14.0	2.37
BTO	36.5	269	eP	13 47 48.0	−0.3		
			ePP	13 49 13.0	1.1		
			eS	13 53 24.0	−3.8		
			sS	13 53 47.0	4.2		
			LN	Ms=5.7		12.0	3.10
			LE			12.0	3.40
SSE	37.0	247	eP	13 47 54.0	1.4		
			PMZ			1.0	0.030
			PcP	13 50 14.0	0.9		
			S	13 53 35.0	0.3		
			LE	Ms=5.1		15.0	1.50
TIY	37.0	263	P	13 47 55.0	2.2		
			PP	13 49 21.5	2.5		
			S	13 53 36.0	1.1		
			sS	13 53 53.0	2.0		
			LN	Ms=5.4		14.0	1.21
			LE			13.0	2.46
NJ2	37.5	250	+P	13 48 00.0	3.1		
			eS	13 53 43.0	−0.5		
			LN	Ms=5.5		13.0	3.00
WHN	41.1	253	eP	13 48 26.5	−0.6		
			eS	13 54 33.5	−4.6		
			LN	Ms=5.5		13.0	1.78
			LE			16.0	2.36
XAN	41.6	262	P	13 48 32.4	1.3		
			pP	13 48 44.0	3.8		
			ScP	13 54 17.4	3.4		
			LN	Ms=5.6		13.0	2.86
			LE			13.0	1.41
LZH	43.1	269	eP	13 48 43.0	−0.3		
			PMZ			1.2	0.030
			PcP	13 50 34.5	1.8		
			LN	Ms=5.7		12.0	4.10
GTA	43.1	275	P	13 48 43.5	−0.3		
			LN	Ms=5.5		17.0	3.32
CD2	46.9	264	eP	13 49 12.6	−0.8		
			eS	13 55 57.0	−4.3		
			LN	Ms=5.4		20.0	2.50
WMQ	47.1	289	P	13 49 16.0	0.8		
			PcS	13 54 41.0	0.8		
			eS	13 56 08.0	3.4		
			LN	Ms=5.7		16.0	4.05
GZH	47.6	248	eP	13 49 21.0	2.2		
GYA	48.6	257	P	13 49 26.6	−0.3		
			S	13 56 21.0	−3.4		
			sS	13 56 41.0	0.1		
			LN	Ms=5.6		16.0	2.50
			LE			16.0	1.40
KMI	51.8	260	eP	13 49 51.0	−0.8		
			eS	13 57 06.0	−5.1		
			LN	Ms=5.6		18.0	3.00
QZN	52.7	248	P	13 50 00.8	2.4		
			eS	13 57 25.5	2.5		
			LN	Ms=5.6		18.0	1.00
			LE			17.0	2.50
LSA	55.0	273	eP	13 50 14.1	−1.7		
			PcP	13 51 16.0	0.2		
			PP	13 52 16.0	−3.4		
			S	13 57 48.7	−4.3		
			ScS	13 59 59.0	1.3		
			LE	Ms=4.8		16.0	0.37
KSH	56.4	292	eP	13 50 27.9	2.3		
			eS	13 58 15.0	1.8		
			LE	Ms=5.7		14.0	2.70

1986 4 1

O=16 04 02.2 ± 0.50s
LAT=24.81 N ± 6.33km
LONG=123.82 E ± 4.48km
DEPTH= 21 km ± 1.39km
STATIONS USED = 20, STAND DEV= 4.09s
Ms=4.0/ 3,

QZH	4.8	273	ePn	16 05 18.5	5.3		
			Sn	16 06 12.5	2.8		
NJ2	8.4	330	eP	16 06 14.0	7.6		
			LN	Ms=4.0		7.0	0.70
WHN	10.2	306	eP	16 06 34.0	3.8		
			LG_2	16 09 45.0	7.7		
			LE	Ms=4.0		12.0	0.75
GYA	15.6	280	eP	16 07 48.4	5.9		

XAN	15.9	309	eP	16 07 45.5	−1.2		
CD2	18.7	293	eP	16 08 20.6	−1.8		
LZH	20.5	308	eP	16 08 41.0	−1.4		
			PMZ			2.0	0.060
GTA	24.9	312	eP	16 09 20.0	−5.8		

1986 4 1
O = 17 15 06.8 ± 0.08s
LAT = 36.19 N ± 1.11km
LONG = 71.00 E ± 1.28km
DEPTH = 128 km ± 0.64km
STATIONS USED = 12, STAND DEV = 2.05s
M_L = 4.5 / 1,

KSH	5.1	49	eP	17 16 23.8	1.0		
			iS	17 17 19.8	−1.4		
			SMN	M_L = 4.5		0.3	0.53
			SME			0.2	0.49
WMQ	14.9	54	eP	17 18 32.4	0.3		
GTA	23.0	73	eP	17 20 02.0	0.9		

1986 4 1
O = 17 25 15.7 ± 0.44s
LAT = 23.85 N ± 4.10km
LONG = 122.68 E ± 2.47km
DEPTH = 50 km
STATIONS USED = 10, STAND DEV = 2.57s
Ms = 4.3 / 7,

QZH	3.9	287	eP	17 26 15.0	0.4		
			LN			2.5	1.73
SSE	7.3	350	eP	17 27 02.5	−0.5		
			S	17 28 34.0	9.3		
			LN	Ms = 3.9		10.0	0.99
WHN	10.0	314	eP	17 27 43.6	4.3		
			LG_2	17 30 38.0	−6.7		
			LN	Ms = 4.3		12.0	1.55
XAN	15.7	313	eP	17 28 53.6	−2.3		
			LG_1	17 33 32.0	2.0		
			LN	Ms = 4.3		11.0	0.68
BTO	19.8	330	eP	17 29 44.6	−0.6		
			eS	17 33 24.0	3.7		
			LN	Ms = 4.2		12.0	0.20
			LE			12.0	0.40
CN2	20.0	6	eP	17 29 50.0	2.5		
GTA	24.8	314	P	17 30 32.0	−2.9		
			LE	Ms = 4.3		11.0	0.38

1986 4 2
O = 06 55 39.1 ± 0.08s
LAT = 37.79 N ± 0.86km
LONG = 106.27 E ± 0.68km
DEPTH = 9 km ± 0.16km
STATIONS USED = 9, STAND DEV = 2.63s
M_L = 2.7 / 5,

LZH	2.6	230	cPn	06 56 21.0	−0.7		
			Sn	06 56 52.0	−2.9		
			SMN	M_L = 3.0		0.5	0.099
			SME			0.5	0.066
BTO	4.0	45	Pn	06 56 43.0	1.3		
			Pg	06 56 50.4	−0.1		
			Sg	06 57 44.3	−1.4		
XAN	4.3	149	Pg	06 56 55.8	0.4		
			Sg	06 57 48.8	−5.5		
HHC	5.1	52	ePg	06 57 10.0	0.3		
			Sg	06 58 12.0	−7.4		
			SME	M_L = 3.1		0.4	0.023
GTA	5.3	290	Pg	06 57 14.8	1.7		
			Sg	06 58 23.1	−2.4		
			SMN	M_L = 2.7		0.5	0.0080
			SME			0.4	0.0090

1986 4 2
O = 08 44 43.2 ± 0.08s
LAT = 62.85 N ± 1.07km
LONG = 25.06 W ± 0.82km
DEPTH = 16 km ± 0.26km
STATIONS USED = 15, STAND DEV = 0.89s

BTO	70.8	35	eP	08 56 02.0	0.1
MDJ	71.0	19	eP	08 56 02.5	−0.3
CN2	71.1	22	eP	08 56 02.0	−1.6
BJI	72.9	30	eP	08 56 14.0	0.0
XAN	76.7	38	eP	08 56 35.6	−0.4

1986 4 2
O = 08 46 39.7 ± 0.10s
LAT = 62.89 N ± 1.56km
LONG = 25.34 W ± 0.95km
DEPTH = 12 km ± 0.22km
STATIONS USED = 41, STAND DEV = 0.86s
Ms = 5.2 / 3,

WMQ	61.1	50	eP	08 56 58.0	1.3		
GTA	69.0	43	+iP	08 57 48.4	0.2		
			LZ	Ms = 5.2		16.0	0.73
BTO	70.9	34	eP	08 57 59.4	0.1		
MDJ	71.0	19	eP	08 58 00.0	0.0		
CN2	71.1	22	eP	08 57 59.0	−1.8		
			LZ	Ms = 5.3		15.0	0.80
SNY	72.7	24	eP	08 58 10.0	−0.2		
BJI	72.9	30	eP	08 58 11.5	0.2		
TIY	74.2	34	+P	08 58 20.0	1.0		
XAN	76.7	38	+P	08 58 33.2	−0.2		

TIA	76.8	30	eP	08 58 33.8	0.2	
			LE	Ms=5.0	12.0	0.30
GYA	83.2	42	P	08 59 08.6	0.5	

1986 4 2
O=08 59 49.2 ± 0.23s
LAT=62.83 N ± 2.25km
LONG= 25.28 W ± 1.98km
DEPTH= 15 km ± 0.59km
STATIONS USED = 36, STAND DEV= 0.96s

GTA	69.1	43	eP	09 10 56.6	−0.9	
MDJ	71.0	19	eP	09 11 08.0	−1.4	
CN2	71.2	22	eP	09 11 09.6	−0.6	
SNY	72.7	24	eP	09 11 19.0	−0.5	
BJI	72.9	30	eP	09 11 20.5	−0.1	
TIY	74.2	34	eP	09 11 27.0	−1.3	
XAN	76.8	38	eP	09 11 42.4	−0.3	
GYA	83.2	42	P	09 12 17.6	0.3	

1986 4 2
O=09 42 25.7 ± 0.05s
LAT=50.88 N ± 1.23km
LONG=149.35 E ± 0.77km
DEPTH=629 km ± 0.81km
STATIONS USED = 30, STAND DEV= 0.80s

MDJ	14.7	252	eP	09 45 30.2	−0.3	
CN2	17.6	256	−P	09 45 57.5	−0.8	
SNY	19.9	253	eP	09 46 19.7	0.8	
TIA	27.3	250	eP	09 47 24.6	−0.3	
NJ2	29.3	242	+P	09 47 42.0	0.3	
GYA	40.5	249	P	09 49 14.4	0.0	

1986 4 2
O=13 22 25.6 ± 0.19s
LAT=32.92 N ± 1.16km
LONG=104.31 E ± 2.40km
DEPTH= 10 km ± 0.02km
STATIONS USED = 11, STAND DEV= 3.41s
M_L=3.9 / 3,

CD2	2.1	193	Pn	13 23 02.0	1.3	
LZH	3.2	353	+Pn	13 23 21.5	5.1	
			Sn	13 24 02.5	6.3	
XAN	4.0	73	cPn	13 23 29.0	1.4	
			Pg	13 23 41.0	4.6	
			Sg	13 24 33.3	2.0	
			SMN	M_L=3.9	1.0	0.26
			SME		0.8	0.25
GYA	6.8	162	Pn	13 24 06.6	1.3	
			Sn	13 25 22.8	−1.7	
			SMN	M_L=3.9	1.2	0.060
WHN	8.9	103	eP	13 24 39.8	2.7	

1986 4 2
O=15 26 15.6 ± 0.19s
LAT=62.80 N ± 2.48km
LONG= 25.21 W ± 1.90km
DEPTH= 12 km ± 0.42km
STATIONS USED = 60, STAND DEV= 1.28s
Ms=5.0 / 4,

KSH	60.5	61	eP	15 36 29.9	1.5	
			LE	Ms=5.5	14.0	1.60
WMQ	61.1	50	P	15 36 33.5	0.8	
GTA	69.1	43	−P	15 37 24.2	−0.1	
BTO	70.9	35	eP	15 37 35.4	−0.1	
MDJ	71.1	19	eP	15 37 36.0	−0.3	
HHC	71.1	33	+P	15 37 36.0	−0.5	
CN2	71.2	22	eP	15 37 36.0	−1.1	
SNY	72.8	24	eP	15 37 46.2	−0.3	
BJI	72.9	30	eP	15 37 48.0	0.5	
TIY	74.2	34	P	15 37 56.0	0.8	
XAN	76.8	38	eP	15 38 09.0	−0.6	
TIA	76.8	3i	eP	15 38 04.4	−5.4	
			LE	Ms=4.9	32.0	0.62
CD2	78.1	43	eP	15 38 18.0	0.8	
GYA	83.2	42	P	15 38 44.6	0.5	

1986 4 2
O=16 22 36.5 ± 0.13s
LAT=24.10 N ± 1.72km
LONG=123.29 E ± 1.76km
DEPTH= 34 km ± 0.38km
STATIONS USED = 21, STAND DEV= 2.40s
Ms=4.1 / 2,

QZH	4.4	282	eP	16 23 39.6	−2.6	
SSE	7.2	345	P	16 24 22.5	0.1	
			LG_2	16 26 42.0	7.4	
			LE	Ms=3.9	6.0	0.61
GYA	15.2	282	P	16 26 15.4	4.4	
XAN	16.0	312	eP	16 26 22.0	1.3	
CD2	18.6	296	eP	16 26 54.6	1.2	
KMI	18.7	277	eP	16 26 56.5	1.5	
CN2	19.7	5	eP	16 27 10.0	3.7	
GTA	25.0	313	eP	16 27 58.9	−0.5	

1986 4 2
O=17 40 00.4 ± 0.09s
LAT=62.62 N ± 1.42km
LONG= 25.29 W ± 1.63km
DEPTH= 10 km ± 0.08km
STATIONS USED = 22, STAND DEV= 2.57s

WMQ	61.2	49	P	17 50 19.0	0.2	
GTA	69.2	43	+P	17 51 10.0	−0.4	
BTO	71.1	34	eP	17 51 22.3	0.7	
TIY	74.4	34	eP	17 51 42.1	0.8	
XAN	76.9	38	eP	17 51 52.7	−2.9	
CD2	78.3	43	(P)	17 52 03.8	0.6	

1986 4 2
O = 17 49 45.4 ± 0.13s
LAT = 62.71 N ± 2.42km
LONG = 25.25 W ± 1.65km
DEPTH = 10 km ± 0.04km
STATIONS USED = 65, STAND DEV = 1.21s
Ms = 5.1 / 9, m_B = 5.7 / 2

KSH	60.5	61	+iP	18 00 00.8	1.9	
			PP	18 02 13.0	−0.3	
			LE	Ms = 5.5	12.0	1.20
WMQ	61.2	50	P	18 00 04.0	0.7	
			PP	18 02 21.8	2.6	
			eS	18 08 31.0	9.4	
			LN	Ms = 5.4	20.0	1.25
			LE		18.0	1.28
GTA	69.1	43	−iP	18 00 54.4	−0.5	
			LE	Ms = 5.2	14.0	0.56
BTO	71.0	35	P	18 01 06.2	0.1	
HHC	71.1	33	+P	18 01 07.0	−0.1	
MDJ	71.1	19	eP	18 01 05.5	−1.5	
CN2	71.3	22	−P	18 01 06.0	−1.8	
			PMZ	m_B = 5.8	4.0	0.50
			eS	18 10 22.0	−2.5	
SNY	72.9	24	eP	18 01 16.8	−0.3	
BJI	73.0	30	eP	18 01 18.0	−0.1	
LZH	73.4	41	eP	18 01 21.0	0.2	
			PMZ		2.0	0.063
TIY	74.3	34	P	18 01 26.0	0.2	
XAN	76.8	38	P	18 01 39.5	−0.6	
TIA	76.9	30	eP	18 01 40.1	−0.3	
			LE	Ms = 5.1	12.5	0.33
CD2	78.2	43	eP	18 01 48.3	0.5	
NJ2	81.3	30	+P	18 02 04.2	0.0	
KMI	83.3	46	+P	18 02 15.0	0.3	
			eS	18 12 30.0	−4.6	
			LN	Ms = 5.5	20.0	1.37
GYA	83.3	42	+P	18 02 14.8	0.1	

1986 4 2
O = 19 32 52.9 ± 0.13s
LAT = 24.71 N ± 2.22km
LONG = 122.97 E ± 1.72km
DEPTH = 62 km ± 1.47km

STATIONS USED = 30, STAND DEV = 2.31s
Ms = 3.9 / 6,

NJ2	8.2	335	eP	19 34 45.6	−5.7	
			LN	Ms = 4.0	10.0	1.00
WHN	9.6	309	eP	19 35 09.5	−1.5	
			LG_1	19 37 45.0	−9.4	
			LN	Ms = 4.0	13.0	1.01
TIY	15.8	328	eP	19 36 37.0	4.2	
			LN	Ms = 3.9	10.0	0.24
BJI	16.3	341	(P)	19 36 36.0	−3.6	
CD2	18.1	294	eP	19 37 02.4	0.9	
CN2	19.2	5	eP	19 37 12.0	−2.1	
LZH	20.0	309	P	19 37 23.5	0.3	
MDJ	20.6	14	eP	19 37 29.0	−0.2	
GTA	24.4	312	P	19 38 08.0	0.9	

1986 4 3
O = 00 51 51.5 ± 0.01s
LAT = 37.60 N ± 0.13km
LONG = 119.58 E ± 0.15km
DEPTH = 4 km ± 0.09km
STATIONS USED = 7, STAND DEV = 4.05s
M_L = 2.9 / 7,

DL2	2.1	50	Pn	00 52 27.5	0.2	
			Pg	00 52 29.9	1.8	
			Sg	00 52 54.6	−1.8	
			SMN	M_L = 2.9	0.4	0.086
			SME		0.4	0.082
TIA	2.4	236	Pn	00 52 32.6	0.7	
			Pg	00 52 34.4	0.5	
			Sg	00 53 04.2	−2.6	
			SMN	M_L = 2.8	0.3	0.063
			SME		0.3	0.050

1986 4 3
O = 02 49 32.8 ± 0.06s
LAT = 27.10 N ± 1.33km
LONG = 56.12 E ± 0.93km
DEPTH = 51 km ± 0.06km
STATIONS USED = 28, STAND DEV = 0.94s
Ms = 5.1 / 3,

KSH	20.6	48	eP	02 54 11.0	0.2	
			eS	02 57 59.0	5.7	
WMQ	30.4	48	P	02 55 43.0	−0.1	
GTA	38.2	60	P	02 56 50.6	0.7	
CD2	41.6	73	eP	02 57 18.7	0.8	
GYA	44.9	79	eP	02 57 44.6	0.0	
XAN	45.6	68	eP	02 57 50.0	−0.1	
TIY	48.1	62	P	02 58 10.2	0.3	
			LE	Ms = 5.1	14.0	0.81

TIA	52.0	64	cP	02 58 39.4	−0.2		
			LN	Ms=5.2		13.5	0.46
			LE			13.5	0.89
CN2	57.3	54	+P	02 59 17.9	−0.5		

1986 4 3
O=02 56 26.4 ± 0.17s
LAT=37.87 N ± 3.45km
LONG=142.38 E ± 4.83km
DEPTH= 23 km ± 4.08km
STATIONS USED = 34, STAND DEV= 2.70s
Ms=4.3/ 4,

MDJ	11.7	309	eP	02 59 16.0	0.1		
DL2	16.3	280	eP	03 00 17.3	1.2		
NJ2	20.1	260	eP	03 01 01.2	−0.7		
			LN	Ms=4.4		12.0	0.60
BJI	20.5	284	eP	03 01 05.5	−0.1		
HHC	24.0	287	P	03 01 40.8	0.4		
WHN	24.2	261	eP	03 01 42.0	−1.1		
BTO	25.1	286	eP	03 01 52.0	0.1		
XAN	27.3	272	+P	03 02 10.0	−1.6		
			eSS	03 08 12.0	8.6		
GYA	32.1	260	eP	03 03 03.4	8.4		
CD2	32.4	269	eP	03 02 56.6	−1.1		
GTA	33.1	286	eP	03 02 56.6	−6.5		
WMQ	41.2	296	eP	03 04 11.0	−0.3		

1986 4 3
O=07 14 30.7 ± 0.12s
LAT=32.88 N ± 0.79km
LONG=104.42 E ± 1.67km
DEPTH= 9 km ± 0.02km
STATIONS USED = 8, STAND DEV= 2.77s
M_L=3.9/ 5,

CD2	2.0	196	Pn	07 15 06.0	0.2		
			Pg	07 15 07.6	0.8		
			Sn	07 15 35.0	1.8		
			Sg	07 15 38.0	3.1		
			SMN	M_L=3.6		1.0	0.44
			SME			0.8	0.44
LZH	3.2	352	Pn	07 15 25.5	3.4		
			Sg	07 16 02.5	−9.4		
XAN	3.9	72	cPn	07 15 34.6	2.9		
			Pg	07 15 45.0	4.9		
			Sg	07 16 37.5	3.6		
			SMN	M_L=3.8		0.6	0.18
			SME			0.5	0.27
GYA	6.7	162	Pn	07 16 10.8	1.1		
			Sn	07 17 28.8	0.5		
			SMN	M_L=3.9		1.0	0.040
			SME			1.0	0.080

1986 4 3
O=07 39 53.4 ± 0.17s
LAT= 6.32 S ± 2.43km
LONG=151.84 E ± 3.63km
DEPTH= 34 km ± 0.31km
STATIONS USED = 60, STAND DEV= 2.02s
m_B=5.2/ 2

SSE	47.4	324	cP	07 48 29.0	2.5		
			cS	07 55 16.0	−1.5		
			LN	Ms=5.2		24.0	1.02
			LE			24.0	1.51
GZH	47.6	309	+P	07 48 30.2	1.4		
			cS	07 55 20.0	−1.5		
			LE	Ms=5.1		9.0	0.55
QZN	48.4	302	eP	07 48 35.4	0.4		
NJ2	49.4	323	−P	07 48 48.0	5.3		
			S	07 55 46.0	0.3		
			LN	Ms=5.4		21.0	2.30
WHN	51.3	318	eP	07 48 58.5	1.6		
			eS	07 56 10.0	−2.6		
			SME	m_B=5.2		10.0	0.29
			ScS	07 58 44.0	3.3		
TIA	53.4	325	eP	07 49 11.5	−1.0		
			eScS	07 59 00.0	4.9		
			LE	Ms=5.1		19.5	1.00
SNY	54.4	334	eP	07 49 21.0	0.8		
			eS	07 56 50.0	−5.2		
			LE	Ms=4.9		22.0	0.80
MDJ	54.5	341	eP	07 49 20.0	−0.8		
			S	07 56 56.5	1.4		
GYA	54.6	309	P	07 49 21.6	0.2		
			S	07 56 48.0	−7.9		
CN2	55.3	337	eP	07 49 25.6	−0.9		
BJI	56.6	328	eP	07 49 37.5	1.4		
			eS	07 57 23.0	−1.6		
			SMN	m_B=5.1		10.0	0.29
KMI	57.1	305	+P	07 49 40.0	0.6		
XAN	57.1	318	eP	07 49 39.5	0.2		
			S	07 57 27.0	−2.2		
			ScS	07 59 25.0	3.6		
TIY	57.1	323	eP	07 49 43.8	3.9		
			(S)	07 57 30.5	−1.0		
			LE	Ms=4.7		14.0	0.24
CD2	59.0	312	eP	07 49 53.0	0.1		
			eS	07 57 57.1	1.2		
			LE	Ms=5.3		20.0	1.38
GTA	66.1	318	eP	07 50 38.6	−1.7		
			LE	Ms=5.4		20.0	1.38

WMQ	76.2	318	P	07 51 42.0	1.0	
KSH	83.2	311	eP	07 52 19.9	1.4	

1986 4 3
O = 08 47 48.2 ± 0.14s
LAT = 24.82 N ± 1.69km
LONG = 123.31 E ± 2.08km
DEPTH = 35 km ± 0.38km
STATIONS USED = 21, STAND DEV = 2.50s
Ms = 4.4 / 5,

SSE	6.5	344	eP	08 49 22.3	−2.1	
			LG_2	08 51 24.5	1.0	
			LN	Ms = 3.5	10.0	0.48
XAN	15.5	310	eP	08 51 30.0	3.5	
			LN	Ms = 4.4	8.0	0.40
			LE		10.0	0.63
CD2	18.3	294	eP	08 52 02.7	1.2	
			LE	Ms = 4.5	9.0	0.70
CN2	19.0	5	eP	08 52 03.0	−7.1	
GTA	24.6	312	P	08 53 05.7	−0.8	
			LE	Ms = 4.3	12.0	0.42

1986 4 3
O = 11 10 10.9 ± 0.04s
LAT = 19.83 S ± 0.88km
LONG = 175.86 W ± 0.62km
DEPTH = 277 km ± 0.51km
STATIONS USED = 23, STAND DEV = 0.81s

MDJ	81.1	324	eP	11 21 58.0	0.3
CN2	83.0	321	+P	11 22 07.6	0.3
BJI	86.8	315	eP	11 22 27.0	0.8
XAN	89.3	307	eP	11 22 39.0	0.9

1986 4 3
O = 12 20 24.0 ± 0.05s
LAT = 51.26 N ± 1.89km
LONG = 177.14 W ± 0.84km
DEPTH = 31 km ± 0.50km
STATIONS USED = 17, STAND DEV = 1.12s

BJI	46.4	283	eP	12 28 50.5	0.5
XAN	54.7	282	eP	12 29 51.6	−1.5
CD2	60.0	283	eP	12 30 30.7	−0.1
GYA	61.4	277	eP	12 30 40.6	0.6
KMI	64.8	279	−P	12 31 02.5	−0.1

1986 4 3
O = 16 38 44.6 ± 0.17s
LAT = 24.80 N ± 2.66km
LONG = 123.36 E ± 2.17km
DEPTH = 8 km ± 0.66km
STATIONS USED = 24, STAND DEV = 2.31s
Ms = 4.2 / 5,

SSE	6.6	343	ePn	16 40 21.5	−0.2	
			LG_2	16 42 24.0	3.0	
			LE	Ms = 3.9	7.0	0.79
WHN	9.8	308	eP	16 41 12.9	3.5	
			LG_2	16 44 03.0	−5.6	
			LN	Ms = 4.2	10.0	0.83
			LE		11.0	0.67
XAN	15.6	310	eP	16 42 31.0	4.5	
CD2	18.4	294	eP	16 43 02.1	0.5	
CN2	19.0	5	eP	16 43 10.0	0.2	
			eS	16 46 39.0	−0.1	
LZH	20.2	308	P	16 43 23.0	−0.1	
MDJ	20.4	13	eP	16 43 25.7	0.6	
GTA	24.6	312	P	16 44 05.8	−1.2	

1986 4 3
O = 19 12 04.9 ± 0.20s
LAT = 25.11 N ± 3.37km
LONG = 122.99 E ± 2.45km
DEPTH = 81 km ± 1.84km
STATIONS USED = 20, STAND DEV = 3.67s
Ms = 3.7 / 2,

SSE	6.2	345	eP	19 13 28.4	−7.0	
			LG_1	19 15 15.4	−3.5	
			LN	Ms = 3.5	12.0	0.58
WHN	9.4	307	eP	19 14 20.4	1.1	
			LG_2	19 17 09.0	−5.1	
			LN	Ms = 3.9	12.0	0.66
XAN	15.1	309	eP	19 15 34.6	−0.9	
			eS	19 18 27.0	5.6	
			eLG_2	19 20 24.0	0.1	
CD2	17.9	293	eP	19 16 12.9	2.3	
			eLG_2	19 21 54.0	−2.5	
CN2	18.8	6	eP	19 16 16.0	−4.2	
LZH	19.7	308	P	19 16 33.0	1.8	
MDJ	20.2	14	eP	19 16 35.0	−0.7	

1986 4 3
O = 19 21 03.8 ± 0.26s
LAT = 25.14 N ± 3.69km
LONG = 122.43 E ± 3.97km
DEPTH = 22 km ± 1.74km
STATIONS USED = 15, STAND DEV = 4.56s
Ms = 3.8 / 2,

SSE	6.0	350	ePn	19 22 29.7	−2.5	
			LN	Ms = 3.7	12.0	0.90
			LE		12.0	0.30
XAN	14.7	310	eP	19 24 37.0	4.2	

TIY	15.1	328	eP	19 24 45.0	6.5		
			LN	Ms=3.9	10.0	0.24	
			LE		10.0	0.10	
CD2	17.5	293	eP	19 25 08.0	0.2		
BTO	18.6	329	eP	19 25 23.3	1.5		
GTA	23.8	312	P	19 26 12.0	−3.9		

1986 4 3
O=21 53 58.2 ± 0.14s
LAT= 0.05 N ± 1.48km
LONG=123.74 E ± 1.92km
DEPTH=175 km ± 1.08km
STATIONS USED = 33, STAND DEV= 1.40s

QZN	23.3	325	P	21 58 53.0	1.7		
GZH	25.0	337	eP	21 59 09.2	1.3		
GYA	31.0	329	P	22 00 03.0	1.3		
CD2	36.1	330	eP	22 00 45.8	0.7		
XAN	36.6	339	eP	22 00 47.8	−1.3		
TIY	38.9	346	eP	22 01 08.0	−0.8		
BJI	40.4	351	eP	22 01 20.0	−0.9		
GTA	44.9	334	P	22 01 57.2	−0.1		
WMQ	54.1	328	P	22 03 07.2	−0.6		

1986 4 3
O=23 32 18.0 ± 0.10s
LAT=38.24 N ± 1.83km
LONG= 24.86 E ± 1.42km
DEPTH= 9 km ± 0.23km
STATIONS USED = 21, STAND DEV= 1.81s

WMQ	46.7	62	eP	23 40 55.0	5.1		
XAN	65.7	65	eP	23 43 05.3	−0.7		
GYA	68.1	73	eP	23 43 20.0	−0.9		

1986 4 4
O=07 58 37.7 ± 0.08s
LAT=30.82 N ± 1.54km
LONG= 88.32 E ± 0.95km
DEPTH= 42 km ± 0.16km
STATIONS USED = 18, STAND DEV= 1.89s

LSA	2.7	114	P	07 59 21.1	1.0		
			S	07 59 55.1	4.7		
KSH	13.3	314	e(P)	08 01 47.0	0.9		
GYA	16.7	101	P	08 02 31.0	0.8		
XAN	17.7	74	eP	08 02 38.7	−4.0		
TIY	21.0	64	P	08 03 21.5	0.8		

1986 4 4
O=11 23 22.2 ± 0.13s
LAT=33.11 N ± 1.67km
LONG= 95.99 E ± 1.58km
DEPTH= 10 km ± 0.14km
STATIONS USED = 81, STAND DEV= 2.77s
Ms=5.1/38, M_L=5.0/ 5,

LSA	5.4	232	−iPn	11 24 47.4	4.3		
			Pg	11 25 03.0	6.2		
			Sn	11 25 53.0	6.5		
			Sg	11 26 14.8	4.7		
			LE	Ms=4.6	5.0	4.08	
CD2	7.0	106	cPn	11 25 09.9	5.4		
			Sn	11 26 35.2	9.3		
			Sg	11 27 08.4	8.5		
			SMN	M_L=5.0	1.2	0.63	
			SME		1.2	0.68	
			LN	Ms=5.2	10.0	19.3	
GTA	7.0	25	Pn	11 25 07.3	2.0		
			LN	Ms=4.8	9.0	6.50	
			LE		9.0	4.40	
LZH	7.1	63	cPn	11 25 09.5	2.5		
			Sn	11 26 33.0	2.9		
KMI	9.9	142	+P	11 25 47.0	−1.2		
			S	11 27 38.0	−2.0		
			LG_2	11 28 51.0	1.9		
			LN	Ms=5.2	6.0	7.35	
XAN	10.8	82	eP	11 26 00.0	−0.6		
			eLG_1	11 28 56.5	−5.8		
			LG_2	11 29 10.0	−9.4		
			LN	Ms=5.1	6.0	2.65	
			LE		7.0	3.64	
GYA	11.4	123	P	11 26 07.0	−1.4		
			S	11 28 13.0	−3.3		
			LN	Ms=5.2	9.0	6.50	
			LE		9.0	4.40	
WMQ	12.5	331	P	11 26 22.0	−1.5		
			PMZ		1.5	0.18	
			S	11 28 37.5	−5.9		
			LN	Ms=5.0	9.0	3.45	
			LE		8.0	2.87	
BTO	13.5	52	eP	11 26 33.4	−3.0		
TIY	14.2	66	eP	11 26 43.5	−2.0		
			LG_2	11 31 11.5	1.8		
			LN	Ms=5.2	7.0	4.30	
WHN	15.8	94	eP	11 27 05.0	−1.8		
			pP	11 27 12.0	0.6		
			S	11 29 58.0	−4.0		
			sS	11 30 10.0	0.0		
			LG_2	11 31 58.5	−5.5		
			LN	Ms=5.1	11.0	4.98	
KSH	17.3	297	eP	11 27 29.0	2.9		
			eS	11 30 44.0	6.4		
			LN	Ms=5.5	9.0	7.32	

BJI	17.6	61	eP	11 27 30.0	0.5		
			eS	11 30 38.0	−5.8		
			LN	Ms = 5.0		9.0	1.96
			LE			8.5	0.98
TIA	17.7	74	eP	11 27 30.5	0.3		
			eS	11 30 45.0	0.0		
			LN	Ms = 4.9		11.0	1.61
			LE			10.0	1.50
GZH	18.3	119	P	11 27 37.0	−0.6		
			S	11 31 06.0	8.0		
			LN	Ms = 5.1		12.0	3.40
			LE			11.0	2.25
QZN	18.7	135	P	11 27 42.6	−0.7		
			eS	11 31 07.5	−1.7		
			LN	Ms = 5.0		10.0	2.38
			LE			11.0	1.42
NJ2	19.3	87	eP	11 27 49.4	−0.7		
			LN	Ms = 5.1		11.0	3.60
SSE	21.4	89	eP	11 28 21.5	8.7		
			pP	11 28 21.4	3.3		
			sP	11 28 25.5	4.3		
			PP	11 28 37.0	0.7		
			S	11 32 07.0	1.9		
			SS	11 32 48.0	8.6		
			LN	Ms = 5.1		11.0	2.38
			LE			11.0	0.79
DL2	21.5	67	eP	11 28 13.0	−0.5		
			eS	11 32 00.9	−6.2		
			LN	Ms = 4.9		12.0	1.68
SNY	23.5	60	eP	11 28 33.9	0.7		
			eS	11 32 45.0	1.8		
			LN	Ms = 4.7		10.0	0.44
			LE			10.0	0.64
CN2	25.3	56	eP	11 28 50.5	−0.2		
			PMZ			2.0	0.40
			eS	11 33 13.0	−1.1		
			LN	Ms = 5.2		8.0	1.70
MDJ	28.4	56	eP	11 29 19.6	0.5		
			S	11 34 05.0	1.3		

1986 4 4
O = 20 10 10.0 ± 0.11s
LAT = 12.86 N ± 1.70km
LONG = 124.52 E ± 1.79km
DEPTH = 47 km ± 0.19km
STATIONS USED = 71, STAND DEV = 1.60s
Ms = 4.8 / 24, m_B = 5.2 / 2

GZH	14.7	315	P	20 13 39.0	2.1		
			S	20 16 26.5	8.5		
			LN	Ms = 4.7		16.0	3.03
			LE			16.0	4.10
QZN	15.4	295	eP	20 13 46.3	0.6		
			eS	20 16 37.5	3.0		
			LN	Ms = 4.6		16.0	2.00
			LE			16.0	0.60
SSE	18.4	351	eP	20 14 21.0	−2.6		
			S	20 17 46.0	3.0		
			SS	20 18 10.0	2.3		
			LN	Ms = 5.0		16.0	1.37
			LE			16.0	3.49
NJ2	19.8	346	eP	20 14 42.0	2.6		
			S	20 18 22.0	8.1		
			LE	Ms = 4.8		13.0	1.90
WHN	20.0	333	eP	20 14 41.0	−0.1		
			PMZ	m_B = 5.2		4.0	0.48
			S	20 18 23.0	5.9		
			SME	m_B = 5.2		12.0	0.87
			LN	Ms = 4.8		16.0	1.68
			LE			14.0	1.33
GYA	21.5	312	P	20 14 57.4	−0.2		
			S	20 18 57.0	9.6		
			LE	Ms = 4.7		16.0	1.40
KMI	23.9	304	+P	20 15 21.5	0.7		
			LN	Ms = 4.7		14.0	1.02
XAN	25.4	329	+P	20 15 34.2	−1.0		
			PP	20 16 06.0	−8.3		
			eS	20 19 56.0	−0.1		
			LN	Ms = 4.8		14.0	1.00
			LE			14.0	0.67
DL2	26.1	355	eP	20 15 45.0	3.7		
			eS	20 20 16.0	9.3		
			LE	Ms = 5.0		14.0	1.91
CD2	26.3	316	eP	20 15 41.6	−1.5		
			eS	20 20 10.0	0.1		
			sS	20 20 28.7	−0.9		
			LN	Ms = 5.1		20.0	3.24
TIY	27.0	339	P	20 15 49.8	−0.2		
			(S)	20 20 23.0	0.9		
			sS	20 20 40.0	−1.8		
			LN	Ms = 4.8		15.0	0.88
			LE			16.0	1.13
BJI	28.1	346	eP	20 15 59.5	0.1		
			eS	20 20 40.0	1.1		
			LE	Ms = 4.7		15.0	0.84
SNY	28.9	359	eP	20 16 06.5	−0.2		
			eS	20 20 56.0	4.0		
			SS	20 22 26.5	5.4		
			LE	Ms = 4.8		13.0	1.09
BTO	30.4	338	eP	20 16 21.6	0.9		
CN2	30.8	1	eP	20 16 22.0	−2.3		

			S	20 21 23.0	0.7		
MDJ	31.9	7	eP	20 16 31.0	−3.0		
			S	20 21 38.0	−1.6		
LSA	35.2	304	eP	20 17 00.1	−2.0		
WMQ	44.1	321	eP	20 18 17.5	1.2		

1986 4 4
O = 22 42 28.8 ± 0.07s
LAT = 70.99 N ± 0.84km
LONG = 8.09 E ± 1.15km
DEPTH = 8 km ± 0.15km
STATIONS USED = 31, STAND DEV = 1.14s

WMQ	46.0	82	P	22 50 56.5	1.4		
GTA	53.9	74	P	22 51 55.2	−0.2		
LSA	60.0	86	eP	22 52 39.7	0.3		
XAN	61.6	68	+P	22 52 49.4	−0.7		
GYA	68.0	73	P	22 53 30.2	−1.3		

1986 4 5
O = 02 29 14.0 ± 0.06s
LAT = 6.82 S ± 0.95km
LONG = 155.81 E ± 1.56km
DEPTH = 75 km ± 0.52km
STATIONS USED = 46, STAND DEV = 0.99s
Ms = 5.9 / 3,

NJ2	52.3	320	eP	02 38 16.0	−4.7		
TIA	56.1	322	eP	02 38 47.4	−1.3		
MDJ	56.4	338	eP	02 38 51.0	0.5		
GYA	58.0	307	P	02 39 02.6	0.5		
XAN	60.1	316	−P	02 39 16.4	−0.5		
KMI	60.6	304	eP	02 39 21.0	0.9		
			pP	02 39 36.5	−2.1		
			eS	02 47 29.0	−0.3		
			LN	Ms = 5.1		16.0	0.70
CD2	62.3	310	eP	02 39 31.8	0.3		
LZH	64.8	315	P	02 39 47.5	−0.2		
GTA	69.2	317	P	02 40 15.7	0.3		
WMQ	79.3	317	P	02 41 14.5	0.7		

1986 4 5
O = 02 38 50.0 ± 0.23s
LAT = 24.67 N ± 2.86km
LONG = 123.26 E ± 2.62km
DEPTH = 31 km ± 0.57km
STATIONS USED = 50, STAND DEV = 3.21s
Ms = 4.9 / 19,

QZH	4.2	275	Pn	02 39 51.5	−1.6		
NJ2	8.3	333	eP	02 40 54.1	2.6		
			LE	Ms = 4.9		10.0	7.10
GZH	9.2	262	e(P)	02 41 09.0	5.2		
			LN	Ms = 4.6		12.0	2.29
			LE			10.0	3.00
WHN	9.8	309	eP	02 41 14.0	1.6		
			LN	Ms = 5.1		13.0	6.60
			LE			10.0	9.17
TIA	12.7	337	eP	02 41 50.5	−0.4		
			eS	02 44 18.0	6.1		
DL2	14.3	355	eP	02 42 10.0	−2.1		
			eS	02 44 55.0	4.7		
			LN	Ms = 4.9		12.0	3.35
			LE			12.0	2.37
XAN	15.6	310	P	02 42 33.0	3.6		
			sP	02 42 44.0	3.1		
			LG_2	02 47 20.0	−4.3		
			LN	Ms = 5.3		10.0	2.38
			LE			11.0	5.85
TIY	15.9	327	eP	02 42 34.4	0.3		
			LG_2	02 47 28.5	−7.7		
			LE	Ms = 4.8		11.0	2.03
BJI	16.4	340	eP	02 42 45.0	4.7		
			LN	Ms = 4.8		11.5	2.11
SNY	17.1	1	+P	02 42 47.0	−1.7		
			LN	Ms = 4.9		12.0	2.62
			LE			10.0	1.04
CD2	18.3	294	eP	02 43 02.4	−1.5		
			eS	02 46 30.0	5.5		
			LE	Ms = 5.5		8.0	6.21
CN2	19.2	5	+P	02 43 13.0	−1.0		
			eS	02 46 52.5	9.2		
BTO	19.4	328	eP	02 43 17.0	0.7		
MDJ	20.6	13	eP	02 43 28.0	−1.0		
			S	02 47 20.0	8.1		

1986 4 5
O = 14 05 43.6 ± 0.16s
LAT = 45.69 N ± 2.87km
LONG = 142.49 E ± 2.00km
DEPTH = 240 km
STATIONS USED = 52, STAND DEV = 2.00s

MDJ	9.2	268	−P	14 07 56.9	4.0
CN2	12.3	267	+P	14 08 33.2	1.2
SNY	14.2	261	−iP	14 08 57.8	1.9
BJI	20.1	263	P	14 09 59.0	−1.2
TIA	21.3	253	eP	14 10 11.5	−1.0
NJ2	22.8	242	+iP	14 10 27.0	0.1
BTO	24.1	269	eP	14 10 38.0	−1.7
XAN	28.1	257	P	14 11 13.3	−2.3
GTA	31.8	274	P	14 11 46.9	−1.2
CD2	33.4	257	eP	14 12 01.2	−1.1
GYA	34.4	248	P	14 12 08.4	−1.8

WMQ	38.3	287	P	14 12 42.5	−0.9		

1986 4 5
O = 17 41 49.6 ± 0.07s
LAT = 54.34 N ± 2.14km
LONG = 161.98 W ± 1.00km
DEPTH = 28 km ± 0.31km
STATIONS USED = 44, STAND DEV = 1.03s

MDJ	43.9	287	eP	17 49 54.5	−1.1		
SNY	49.0	287	+P	17 50 36.7	0.4		
BJI	54.3	291	eP	17 51 16.0	−0.4		
TIA	56.5	287	eP	17 51 31.8	−0.5		
BTO	57.3	295	eP	17 51 37.1	−0.5		
SSE	57.9	280	eP	17 51 42.0	−0.2		
			PMZ			1.0	0.010
TIY	58.0	291	eP	17 51 43.4	0.4		
XAN	62.7	291	+P	17 52 14.2	−0.5		
GTA	63.4	301	P	17 52 19.3	−0.3		
LZH	63.8	296	+iP	17 52 19.3	−3.3		
WMQ	65.7	312	P	17 52 35.0	0.7		
GYA	69.7	287	P	17 53 00.0	0.3		
LSA	75.4	301	−iP	17 53 34.9	1.0		

1986 4 5
O = 20 03 06.3 ± 0.09s
LAT = 39.92 N ± 0.99km
LONG = 118.86 E ± 0.74km
DEPTH = 9 km ± 0.09km
STATIONS USED = 9, STAND DEV = 3.77s
M_L = 3.0 / 9,

BJI	2.1	274	Pg	20 03 43.0	0.1		
			Sg	20 04 11.0	−0.1		
			SMN	M_L = 3.3		0.5	0.29
			SME			0.5	0.19
DL2	2.4	114	cPn	20 03 49.0	3.3		
			Pg	20 03 53.0	4.9		
			Sg	20 04 20.0	−0.5		
			SMN	M_L = 2.8		0.4	0.086
			SME			0.4	0.037
TIA	3.9	201	ePn	20 04 14.0	6.6		
			ePg	20 04 23.3	7.4		
			eSn	20 04 50.5	−5.3		
			Sg	20 05 07.4	−2.5		
			SMN	M_L = 2.5		0.4	0.010
			SME			0.4	0.012
SNY	4.1	60	ePg	20 04 15.8	−2.1		
			Sg	20 05 13.9	0.6		
			SMN	M_L = 3.2		0.4	0.050
			SME			0.5	0.040

1986 4 5
O = 20 14 27.5 ± 0.25s
LAT = 13.46 S ± 1.40km
LONG = 71.80 W ± 1.03km
DEPTH = 54 km ± 2.29km
STATIONS USED = 48, STAND DEV = 3.57s

MDJ	144.0	334	cPKP	20 33 58.5	0.9
WMQ	145.0	26	PKP	20 34 02.0	2.4
CN2	146.3	337	PKP	20 34 05.5	3.8
SNY	148.7	338	ePKP	20 34 11.4	5.8
HHC	152.6	354	ePKP	20 34 15.0	3.4
BJI	152.6	347	ePKP	20 34 15.5	4.0
BTO	152.9	357	ePKP	20 34 13.6	1.5
LZH	157.1	9	−PKP	20 34 16.6	−1.2
SSE	158.8	328	ePKP	20 34 26.0	6.3
XAN	159.5	358	PKP	20 34 25.0	4.4
			PKP_2	20 35 00.9	
			ePP	20 38 41.0	−0.9
CD2	162.2	13	ePKP	20 34 28.9	5.6
GYA	167.0	6	PKP	20 34 32.4	4.6

1986 4 5
O = 21 23 25.2 ± 0.11s
LAT = 36.57 N ± 1.25km
LONG = 70.03 E ± 1.14km
DEPTH = 215 km ± 1.34km
STATIONS USED = 13, STAND DEV = 2.22s
M_L = 4.3 / 1,

KSH	5.5	57	−iP	21 24 48.3	0.9		
			S	21 25 51.8	1.1		
			SMN	M_L = 4.3		0.5	0.28
			SME			0.5	0.33
WMQ	15.3	56	P	21 26 51.5	−0.4		
GTA	23.6	74	P	21 28 23.8	5.6		

1986 4 5
O = 22 59 09.0 ± 0.06s
LAT = 44.48 N ± 1.72km
LONG = 147.81 E ± 1.04km
DEPTH = 84 km ± 0.71km
STATIONS USED = 79, STAND DEV = 1.04s
Ms = 4.0 / 2,

MDJ	13.0	277	eP	23 02 11.7	−0.2		
CN2	16.1	275	−P	23 02 49.0	−2.3		
			eS	23 05 39.0	−7.7		
			LN	Ms = 4.1		16.0	0.70
SNY	17.9	270	+iP	23 03 12.8	−0.8		
DL2	20.3	263	P	23 03 39.0	−1.4		
BJI	23.7	270	eP	23 04 15.0	0.4		
			eS	23 08 21.0	0.1		

TIA	24.7	261	eP	23 04 23.9	0.1		
SSE	24.8	246	+P	23 04 26.2	1.4		
			PMZ			0.8	0.030
			sP	23 04 58.5	4.9		
			eS	23 08 36.0	−2.6		
			sS	23 09 14.0	3.1		
NJ2	25.8	251	−P	23 04 34.0	0.2		
TIY	27.3	268	−iP	23 04 49.5	0.9		
BTO	27.9	275	−iP	23 04 54.2	0.1		
WHN	29.7	254	P	23 05 09.5	−0.4		
XAN	31.6	264	−P	23 05 25.7	−0.7		
LZH	34.2	271	−iP	23 05 50.5	1.3		
GZH	35.3	244	−P	23 05 59.0	0.5		
CD2	37.0	264	eP	23 06 12.7	0.5		
			PMZ			0.7	0.18
			eS	23 11 48.8	−2.2		
KMI	41.1	257	−P	23 06 48.0	0.9		
			PMZ			1.0	0.050
			S	23 12 54.0	1.1		
WMQ	42.3	291	P	23 06 57.5	1.2		
			PMZ			1.0	0.060
			eS	23 13 10.0	−0.8		
LSA	46.6	271	−iP	23 07 32.0	0.3		
KSH	52.1	291	P	23 08 13.0	−0.1		

1986 4 6
O = 04 36 30.3 ± 0.11s
LAT = 3.13 S ± 1.73km
LONG = 101.50 E ± 2.11km
DEPTH = 74 km ± 0.35km
STATIONS USED = 71, STAND DEV = 1.40s
Ms = 4.8 / 8,

QZN	23.5	20	eP	04 41 27.0	−7.6		
			LN	Ms = 4.5		13.0	0.50
			LE			12.0	0.43
GYA	29.8	9	P	04 42 32.6	−0.6		
CD2	33.9	3	eP	04 43 08.2	−0.6		
			(S)	04 48 26.0	−1.4		
			LN	Ms = 4.9		20.0	1.30
LSA	34.1	344	eP	04 43 07.7	−3.2		
WHN	35.7	19	eP	04 43 23.6	0.0		
			LN	Ms = 4.9		10.0	0.46
			LE			12.0	0.50
XAN	37.6	10	+iP	04 43 39.6	−0.6		
			cS	04 49 22.0	−2.3		
			LN	Ms = 4.7		11.0	0.45
SSE	38.9	27	+P	04 43 52.5	2.1		
			PMZ			1.0	0.030
			pP	04 44 10.0	1.9		
			sP	04 44 22.0	4.9		
			cPP	04 45 24.0	0.1		
			csS	04 50 18.0	4.5		
			LN	Ms = 4.7		22.0	0.86
LZH	39.1	3	eP	04 43 52.5	0.2		
			PMZ			1.0	0.060
TIA	41.8	19	eP	04 44 14.8	0.4		
			PcP	04 46 10.2	0.7		
TIY	41.9	13	eP	04 44 16.4	1.0		
			(S)	04 50 37.5	9.3		
			LN	Ms = 5.0		18.0	1.09
BTO	44.2	9	eP	04 44 35.0	0.6		
BJI	45.0	16	eP	04 44 41.0	0.2		
WMQ	48.4	347	+iP	04 45 07.4	0.3		
			PMZ			1.0	0.34
			eS	04 52 05.5	4.4		
KSH	48.4	334	eP	04 45 08.2	0.4		
			cS	04 52 07.0	4.6		
CN2	51.4	22	+iP	04 45 29.5	−1.1		
			eS	04 52 39.0	−4.7		
MDJ	53.8	25	eP	04 45 47.6	−0.3		

1986 4 6
O = 05 08 01.7 ± 0.17s
LAT = 24.92 N ± 2.01km
LONG = 122.79 E ± 2.20km
DEPTH = 28 km ± 0.45km
STATIONS USED = 27, STAND DEV = 2.57s
Ms = 4.5 / 8,

QZH	3.8	271	Pn	05 09 00.7	1.7		
SSE	6.3	347	ePn	05 09 31.0	−2.4		
			LG_2	05 11 25.0	−5.1		
			LN	Ms = 4.2		12.0	0.79
			LE			12.0	2.63
NJ2	7.9	335	(Pn)	05 10 07.8	12.7		
			Sn	05 11 32.5	6.5		
			LE	Ms = 4.3		12.0	2.40
WHN	9.3	309	eP	05 10 14.0	−3.6		
			LG_1	05 12 56.0	0.8		
			LN	Ms = 4.7		12.0	2.87
			LE			10.0	3.13
GYA	14.6	279	P	05 11 35.0	6.1		
XAN	15.1	310	eP	05 11 32.0	−3.1		
			LN	Ms = 4.7		10.0	1.26
			LE			10.0	1.25
BJI	16.1	341	(P)	05 11 50.0	2.5		
CD2	17.8	294	P	05 12 08.0	−1.8		
CN2	19.0	6	(P)	05 12 25.4	1.8		
LZH	19.7	309	eP	05 12 31.5	−0.8		
MDJ	20.4	14	eP	05 12 43.1	3.6		
GTA	24.1	312	eP	05 13 16.8	0.1		

			LN	Ms=4.6	12.0	0.71

1986 4 6
O=18 33 06.8 ± 0.47s
LAT=24.57 N ± 4.85km
LONG=123.15 E ± 2.28km
DEPTH= 32 km
STATIONS USED = 17, STAND DEV= 2.16s
Ms=3.5/ 1,

SSE	6.7	346	cPn	18 34 47.0	3.1	
			LG_2	18 36 54.0	5.1	
			LN	Ms=3.5	9.0	0.39
XAN	15.6	311	cP	18 36 48.8	2.8	
CD2	18.3	295	cP	18 37 19.4	−0.6	
CN2	19.3	5	cP	18 37 31.0	−0.9	
BTO	19.4	329	cP	18 37 36.0	2.6	
LZH	20.2	309	cP	18 37 40.5	−1.6	
MDJ	20.7	13	cP	18 37 46.0	−0.9	
GTA	24.6	313	P	18 38 25.0	−1.0	

1986 4 6
O=19 01 02.2 ± 0.19s
LAT=28.33 N ± 2.90km
LONG=140.89 E ± 3.49km
DEPTH= 35 km ± 0.89km
STATIONS USED = 33, STAND DEV= 2.76s
Ms=4.4/ 10, m_B=5.3/ 11

SSE	17.3	284	+P	19 05 04.0	0.8	
			cS	19 08 19.0	5.7	
			LE	Ms=4.4	10.0	0.64
MDJ	18.6	334	cP	19 05 20.0	1.2	
DL2	19.2	308	cP	19 05 24.5	−1.1	
			cS	19 08 55.0	0.6	
			LN	Ms=4.2	12.0	0.40
NJ2	19.4	286	+P	19 05 30.0	1.8	
			PMZ	m_B=5.3	5.0	0.70
			S	19 09 08.0	8.9	
			LN	Ms=4.4	8.0	0.50
SNY	19.5	318	cP	19 05 21.0	−8.3	
			eS	19 09 05.5	3.6	
			LN	Ms=4.6	10.0	0.51
			LE		10.0	0.64
CN2	19.8	325	−P	19 05 30.0	−2.7	
			cS	19 09 05.0	−3.8	
			LN	Ms=4.4	10.0	0.50
TIA	21.5	297	cP	19 05 48.8	−1.9	
WHN	23.2	282	P	19 06 08.0	0.9	
			PMZ	m_B=5.5	5.0	0.95
			PP	19 06 41.0	3.4	
			cS	19 10 22.0	9.3	
			SMN	m_B=5.4	6.0	0.72
			LN	Ms=4.4	12.0	0.55
BJI	23.5	306	eP	19 06 08.0	−1.7	
			PMZ	m_B=4.9	6.0	0.32
			eS	19 10 26.0	8.7	
			SMN	m_B=5.3	7.0	0.50
			SME		8.0	0.42
TIY	25.5	299	eP	19 06 29.6	−0.2	
			PP	19 07 10.0	1.1	
			S	19 10 59.5	7.6	
			sS	19 11 10.5	2.2	
			LN	Ms=4.1	12.0	0.21
XAN	27.9	290	eP	19 06 50.2	−0.9	
			S	19 11 35.0	5.3	
BTO	28.1	304	eP	19 06 54.0	0.7	
QZN	29.8	259	eP	19 07 08.5	−0.1	
			eS	19 12 04.5	2.6	
CD2	32.3	284	eP	19 07 28.0	−2.4	
GTA	35.6	299	eP	19 07 55.6	−3.2	
			S	19 13 31.5	0.9	

1986 4 7
O=14 25 20.5 ± 0.07s
LAT=36.21 N ± 1.20km
LONG= 70.57 E ± 1.03km
DEPTH=123 km ± 0.66km
STATIONS USED = 15, STAND DEV= 1.82s

KSH	5.4	51	eP	14 26 42.3	2.4	
			S	14 27 40.3	−0.3	
WMQ	15.1	55	eP	14 28 49.3	0.0	
			S	14 31 41.0	7.5	
LSA	18.4	105	+P	14 29 29.0	−0.5	
GTA	23.3	73	P	14 30 20.1	1.8	

1986 4 7
O=19 05 40.4 ± 0.12s
LAT=40.46 N ± 1.65km
LONG= 77.41 E ± 1.39km
DEPTH= 24 km ± 0.25km
STATIONS USED = 43, STAND DEV= 2.13s
Ms=4.3/ 4, M_L=4.6/ 4,

KSH	1.5	228	−iPg	19 06 08.9	1.8	
			Sg	19 06 30.9	3.5	
			SME	M_L=5.2	0.5	31.9
WMQ	8.3	63	P	19 07 43.0	−0.2	
			S	19 09 16.0	−1.3	
			LG_1	19 10 03.0	0.4	
			LN	Ms=4.3	8.0	1.33
LSA	15.5	129	eP	19 09 17.4	−2.9	
GTA	17.2	86	P	19 09 37.8	−3.6	

			LG_2	19 15 08.5	0.1		
			LE	Ms=4.3		8.0	0.43
LZH	21.2	93	eP	19 10 28.5	1.6		
CD2	23.4	106	P	19 10 51.0	2.6		
BTO	24.7	79	eP	19 11 02.1	0.5		
XAN	25.8	94	eP	19 11 13.0	1.1		
KMI	26.1	118	eP	19 11 16.0	1.2		
TIY	27.2	84	P	19 11 28.4	3.4		
			LE	Ms=4.2		11.0	0.22
GYA	28.0	111	P	19 11 34.8	2.9		

1986 4 7
O=22 43 27.9 ± 0.12s
LAT=15.56 N ± 1.46km
LONG= 94.27 W ± 1.48km
DEPTH= 38 km ± 1.26km
STATIONS USED = 43, STAND DEV= 0.98s

WMQ	120.9	358	PKP	23 02 17.5	0.0
GTA	123.8	347	−PKP	23 02 23.2	0.1
KSH	124.5	9	ePKP	23 02 27.0	2.5
LZH	125.9	342	ePKP	23 02 27.5	0.4
XAN	126.0	336	ePKP	23 02 27.1	−0.1
CD2	130.7	339	ePKP	23 02 36.2	0.0
GYA	133.5	334	PKP	23 02 42.0	0.2
LSA	134.7	353	+PKP	23 02 44.8	0.5
KMI	136.3	337	ePKP	23 02 45.0	−2.0

1986 4 8
O=02 14 59.8 ± 0.21s
LAT=24.57 N ± 2.96km
LONG=121.65 E ± 2.62km
DEPTH= 7 km ± 1.07km
STATIONS USED = 59, STAND DEV= 3.04s
Ms=4.5/ 17, M_L=4.6/ 5,

QZH	2.8	278	Pn	02 15 46.0	0.6		
			Pg	02 15 57.5	8.3		
			Sn	02 16 26.0	4.6		
SSE	6.5	357	+iPn	02 16 36.5	0.1		
			PMZ			0.5	0.20
			LG_1	02 18 32.0	7.5		
			LG_2	02 18 44.5	9.7		
			LN	Ms=4.1		13.0	2.10
GZH	7.7	261	Pn	02 16 54.0	0.7		
			Sn	02 18 22.0	−1.7		
			LN	Ms=4.6		11.0	4.42
			LE			11.0	1.61
NJ2	7.9	342	Pn	02 16 54.4	−0.4		
			Sn	02 18 22.1	−4.4		
			LN	Ms=4.6		6.0	2.50
WHN	8.8	314	eP	02 17 07.5	−3.0		
			S	02 18 43.5	−7.2		
			LG_2	02 19 46.0	−3.9		
			LN	Ms=4.5		9.0	2.50
TIA	12.2	343	eP	02 18 06.8	9.0		
			S	02 20 10.0	−5.3		
			LG	02 21 28.0	3.7		
			LE	Ms=4.3		11.0	1.20
QZN	12.3	246	eP	02 18 04.7	6.6		
			LN	Ms=4.3		11.0	0.73
			LE			9.0	0.64
GYA	13.7	281	eP	02 18 12.8	−4.0		
			S	02 20 45.2	−4.2		
			LN	Ms=4.5		13.0	1.90
XAN	14.6	313	eP	02 18 27.6	−1.0		
			sP	02 18 35.0	−1.1		
			eLG_1	02 22 37.0	−0.1		
			LG_2	02 22 58.0	−2.2		
			LN	Ms=4.5		8.0	0.80
			LE			7.0	0.40
TIY	15.3	331	eP	02 18 40.0	1.9		
			LG_1	02 23 05.5	5.7		
			LG_2	02 23 30.0	6.0		
			LN	Ms=4.4		13.0	1.11
BJI	16.1	345	eP	02 18 49.0	0.5		
			LN	Ms=4.2		12.0	0.41
			LE			11.0	0.32
CD2	17.0	296	eP	02 19 00.4	−0.2		
			(S)	02 22 10.0	0.5		
			LN	Ms=4.9		9.0	1.70
			LE			9.0	1.40
BTO	18.7	331	eP	02 19 22.1	0.6		
LZH	19.1	311	eP	02 19 27.5	0.8		
			PMZ			2.5	0.090
			eLG_2	02 25 24.0	−7.6		
			LE	Ms=4.5		6.0	0.41
CN2	19.4	8	+P	02 19 34.3	4.5		
MDJ	21.0	16	eP	02 19 43.1	−3.8		
GTA	23.6	314	P	02 20 13.7	0.9		

1986 4 8
O=06 59 24.4 ± 0.11s
LAT=35.02 N ± 1.07km
LONG=104.88 E ± 1.11km
DEPTH= 11 km ± 0.14km
STATIONS USED = 10, STAND DEV= 3.57s
M_L=3.2/ 6,

LZH	1.4	322	Pn	06 59 51.0	0.9		
			Sn	07 00 13.0	3.2		
			Sg	07 00 16.5	9.2		
			SMN	M_L=3.4		0.5	0.69

			SME			0.5	0.38
XAN	3.5	105	Pn	07 00 18.0	−0.9		
			Pg	07 00 26 4	0.7		
			Sg	07 01 14.0	0.8		
			SMN	M_L = 3.0		1.0	0.040
			SME			0.6	0.050
CD2	4.2	193	ePg	07 00 39.7	0.9		
GTA	6.0	319	Pn	07 00 55.3	2.0		
			LG_2	07 02 38.8	−2.5		
			LN			0.8	0.010
			LE			0.8	0.010

1986 4 8
O = 08 11 53.2 ± 0.08s
LAT = 26.15 S ± 1.62km
LONG = 177.00 W ± 1.62km
DEPTH = 108 km ± 1.05km
STATIONS USED = 26, STAND DEV = 1.49s

MDJ	85.7	325	eP	08 24 18.5	−3.2		
CN2	87.3	322	−P	08 24 29.4	−0.5		
BJI	90.5	315	eP	08 24 45.5	0.5		
XAN	92.3	307	eP	08 24 53.4	0.3		
CD2	94.6	302	eP	08 25 05.4	1.7		

1986 4 8
O = 09 52 04.3 ± 0.20s
LAT = 24.87 N ± 2.95km
LONG = 123.59 E ± 2.54km
DEPTH = 16 km ± 0.88km
STATIONS USED = 30, STAND DEV = 3.62s
Ms = 4.3 / 10,

QZH	4.5	272	Pn	09 53 22.0	9.2		
SSE	6.6	342	ePn	09 53 37.0	−3.5		
			LG_2	09 55 35.0	−5.5		
			LN	Ms = 4.3		9.0	2.14
			LE			8.0	1.12
NJ2	8.3	331	eP	09 54 06.4	−0.4		
			eS	09 55 33.0	−7.7		
			LN	Ms = 4.3		10.0	1.80
XAN	15.7	309	eP	09 55 50.0	3.3		
			LN	Ms = 4.3		12.0	0.50
			LE			12.0	0.50
TIY	15.9	326	e(P)	09 55 51.4	1.4		
			LN	Ms = 4.1		13.0	0.48
SNY	16.9	360	eP	09 56 10.0	7.8		
CD2	18.5	293	eP	09 56 21.1	−1.2		
			LE	Ms = 4.7		9.0	1.00
CN2	18.9	4	eP	09 56 26.6	−0.9		
BTO	19.4	327	eP	09 56 32.0	−0.3		
			eS	09 59 57.0	−7.6		
			LN	Ms = 4.4		13.0	0.50
			LE			13.0	0.50
MDJ	20.3	12	eP	09 56 44.5	2.0		
LZH	20.3	308	eP	09 56 41.0	−1.9		
GTA	24.7	312	P	09 57 24.7	−1.9		
			LE	Ms = 4.2		9.5	0.24

1986 4 8
O = 10 55 35.1 ± 0.27s
LAT = 41.89 N ± 2.42km
LONG = 105.46 E ± 1.09km
DEPTH = 13 km ± 1.17km
STATIONS USED = 7, STAND DEV = 4.43s
M_L = 3.4 / 6,

BTO	3.7	109	Pn	10 56 35.0	2.9		
			Pg	10 56 41.4	1.5		
			Sn	10 57 16.0	−1.0		
			Sg	10 57 28.6	−1.4		
			SMN	M_L = 3.2		0.4	0.070
			SME			0.4	0.050
HHC	4.7	101	ePn	10 56 47.6	1.2		
			Pg	10 56 57.4	−0.8		
			Sn	10 57 40.1	−2.7		
			Sg	10 57 56.0	−6.5		
			SMN	M_L = 3.9		0.4	0.21
			SME			0.4	0.15
GTA	5.0	242	Pn	10 56 48.4	−1.5		
			Pg	10 57 05.0	2.4		
			Sn	10 57 45.4	−3.6		
			Sg	10 58 06.8	−3.7		
			SMN	M_L = 3.3		0.8	0.040
			SME			0.8	0.040
LZH	5.9	193	(Pg)	10 57 34.5	14.7		
			Sg	10 58 42.5	1.6		
			SMN			2.5	0.17
			SME			1.5	0.081
XAN	8.3	160	eP	10 57 35.0	−3.3		

1986 4 8
O = 13 33 24.7 ± 0.10s
LAT = 3.42 S ± 1.06km
LONG = 117.76 E ± 1.39km
DEPTH = 40 km ± 0.47km
STATIONS USED = 12, STAND DEV = 1.71s

GYA	31.6	341	P	13 39 46.8	0.4
CD2	36.7	340	eP	13 40 29.8	−0.1
XAN	38.2	348	eP	13 40 42.3	−0.4
BJI	43.3	358	eP	13 41 24.0	−0.6
GTA	45.7	341	P	13 41 46.6	2.2

1986 4 8
O = 18 02 44.3 ± 0.28s
LAT = 7.94 S ± 5.46km
LONG = 73.96 W ± 8.62km
DEPTH = 174 km ± 1.66km
STATIONS USED = 76, STAND DEV = 3.25s
m_B = 5.8 / 2

MDJ	138.1	335	ePKP	18 21 43.0	−6.7		
KSH	138.6	36	+PKP	18 21 53.6	2.8		
			SKKS	18 31 21.6			
CN2	140.5	338	PKP	18 21 46.0	−7.9		
WMQ	140.8	21	PKP	18 21 48.8	−5.9		
SNY	142.9	338	−PKP	18 21 55.0	−3.1		
			PP	18 25 08.5	−3.1		
DL2	146.1	338	iPKP	18 22 05.0	1.3		
			PKP_2	18 22 50.0			
BJI	146.8	346	ePKP	18 22 06.0	1.2		
			ePP	18 25 27.0	−7.6		
BTO	147.3	354	ePKP	18 22 07.4	1.6		
			PP	18 25 30.0	−7.6		
GTA	148.2	9	−iPKP	18 22 08.9	1.6		
TIY	149.8	350	PKP	18 22 11.0	1.3		
			PKP_2	18 22 16.0			
			PP	18 25 47.5	−4.0		
TIA	150.1	342	PKP	18 22 11.5	1.4		
			PKP_2	18 22 16.5			
LZH	151.9	4	ePKP	18 22 16.0	3.0		
			PKP_2	18 22 22.0			
SSE	153.0	330	PKP	18 22 16.0	1.7		
			PKP_2	18 22 34.5			
NJ2	153.2	335	PKP	18 22 16.0	1.4		
			PKP_2	18 22 35.5			
			PP	18 26 08.0	−2.9		
			PPMZ	m_B = 5.9		4.0	0.40
XAN	153.9	355	−iPKP	18 22 17.3	1.6		
LSA	154.2	31	−PKP	18 22 17.5	0.9		
WHN	156.2	342	PKP	18 22 20.0	1.4		
			PKP_2	18 22 48.0			
CD2	157.0	5	ePKP	18 22 22.3	2.4		
			PKP_2	18 22 52.5			
			PP	18 26 30.0	−2.0		
GYA	161.6	358	−PKP	18 22 27.0	1.9		
			PP	18 26 54.0	−2.6		
			SS	18 46 54.0	−1.9		
KMI	162.6	10	−iPKP	18 22 28.0	1.7		
			SKKS	18 32 20.0			
GZH	163.4	336	ePKP	18 22 29.0	2.2		
QZN	168.4	342	ePKP	18 22 33.8	3.0		
			PKP_2	18 23 42.2			
			PP	18 27 32.5	0.9		
			SS	18 48 07.0	1.9		

1986 4 8
O = 18 44 23.3 ± 0.19s
LAT = 24.90 N ± 3.07km
LONG = 124.31 E ± 2.95km
DEPTH = 1 km ± 1.89km
STATIONS USED = 27, STAND DEV = 4.87s
Ms = 4.5 / 13,

QZH	5.2	272	ePn	18 45 35.0	−7.2		
			Sn	18 46 48.1	3.1		
			LN	Ms = 4.1		12.0	3.13
SSE	6.8	337	eP *	18 46 12.5	−4.0		
			LG_1	18 48 05.0	9.3		
			LN	Ms = 4.5		8.0	2.54
			LE			7.0	1.68
WHN	10.5	305	e(P)	18 47 02.3	4.7		
			LN	Ms = 4.7		13.0	3.55
			LE			11.0	2.37
TIA	12.9	333	eP	18 47 39.4	9.2		
GYA	16.0	279	eP	18 48 08.4	−3.0		
			LN	Ms = 4.6		8.0	1.10
XAN	16.2	308	eP	18 48 06.6	−7.3		
			LN	Ms = 4.6		10.0	0.63
			LE			10.0	1.05
TIY	16.3	324	eP	18 48 12.5	−2.8		
			LG_1	18 53 03.5	8.4		
			LN	Ms = 4.4		11.5	0.67
			LE			13.0	0.83
BJI	16.6	338	(P)	18 48 15.0	−3.7		
			eS	18 51 26.0	2.9		
			LN	Ms = 4.3		11.0	0.62
SNY	16.9	358	eP	18 48 20.0	−2.8		
			eS	18 51 39.0	8.4		
			LN	Ms = 4.5		12.0	1.05
			LE			12.0	0.53
CN2	18.9	3	+P	18 48 44.5	−3.0		
CD2	19.1	293	eP	18 48 42.6	−7.7		
			LN	Ms = 4.8		11.0	1.50
HHC	19.1	329	eP	18 48 43.6	−7.1		
KMI	19.6	275	eP	18 48 47.5	−8.0		
LZH	20.8	307	eP	18 49 12.5	3.3		
			PMZ			2.0	0.090
			LN	Ms = 4.6		11.0	0.94
GTA	25.2	311	(P)	18 49 41.0	−10.6		
			S	18 54 13.4	−1.4		
			LN	Ms = 4.5		12.0	0.63

1986 4 8
O = 23 46 43.9 ± 0.12s

LAT= 4.52 N ± 1.82km
LONG=125.98 E ± 2.65km
DEPTH=159 km ± 0.20km
STATIONS USED = 39, STAND DEV= 2.23s

XAN	33.4	334	P	23 53 07.7	−1.9
			pP	23 53 39.4	−3.6
CD2	33.6	324	(P)	23 53 18.7	7.5
BJI	36.5	347	eP	23 53 36.0	0.5
SNY	37.2	357	+P	23 53 42.0	0.2
			pP	23 54 19.6	3.6
MDJ	40.1	4	+P	23 54 05.9	0.4
LSA	41.4	311	eP	23 54 14.5	−2.2
GTA	42.0	329	e(P)	23 54 17.6	−4.3

1986 4 9
O=04 28 57.0 ± 0.12s
LAT=24.40 N ± 1.51km
LONG=123.51 E ± 2.27km
DEPTH= 37 km ± 0.36km
STATIONS USED = 12, STAND DEV= 2.61s

SSE	7.0	343	+P	04 30 40.5	1.0	
			LG_1	04 32 34.5	−1.8	
GYA	15.4	281	eP	04 32 36.0	2.9	
CD2	18.7	295	eP	04 33 12.0	−2.3	

1986 4 9
O=10 39 15.5 ± 0.08s
LAT=40.73 N ± 1.09km
LONG= 73.52 E ± 0.96km
DEPTH= 12 km ± 0.14
STATIONS USED = 14, STAND DEV= 2.17s
M_L=4.2/ 2,

KSH	2.3	123	+Pn	10 39 56.3	2.7	
			Sn	10 40 26.8	3.5	
			SMN	M_L=4.5	0.5	2.78
			SME		0.7	3.51
GTA	20.1	85	P	10 43 51.4	−1.5	

1986 4 9
O=14 31 59.4 ± 0.12s
LAT=51.17 N ± 4.26km
LONG=173.26 E ± 1.91km
DEPTH= 31 km ± 0.31km
STATIONS USED = 60, STAND DEV= 1.12s
Ms=4.8/ 7,

MDJ	29.7	275	cP	14 38 03.0	−1.6
CN2	32.6	276	cP	14 38 29.8	−1.3
			PcP	14 41 14.6	−1.6
			cS	14 43 41.0	−3.3
SNY	34.9	274	cP	14 38 45.0	−5.1
			S	14 44 20.0	2.4	
			LN	Ms=4.7	18.0	0.59
			LE		18.0	0.47
SSE	43.0	263	cP	14 39 59.0	0.9	
			cPP	14 41 44.0	3.6	
			S	14 46 26.0	5.5	
BTO	44.0	282	+P	14 40 07.0	0.8	
			eS	14 46 36.0	−0.1	
TIY	44.2	277	P	14 40 09.0	1.0	
			S	14 46 44.5	6.3	
			LN	Ms=4.5	12.0	0.21
WHN	47.7	268	eP	14 40 34.5	−0.8	
XAN	48.8	275	eP	14 40 43.0	−0.8	
LZH	50.6	281	−P	14 40 58.5	0.5	
			PMZ		1.5	0.090
GTA	50.9	287	−iP	14 41 00.7	0.1	
			eS	14 48 17.0	2.7	
			LN	Ms=4.8	18.0	0.57
GZH	53.6	262	P	14 41 20.5	0.2	
CD2	54.1	276	(P)	14 41 33.7	10.4	
WMQ	55.2	298	−iP	14 41 32.0	0.1	
KMI	58.8	272	−P	14 41 56.5	−1.2	
QZN	58.8	262	P	14 41 58.4	0.9	
LSA	62.7	284	−P	14 42 24.0	−0.9	
KSH	64.5	302	eP	14 42 37.0	0.7	

1986 4 9
O=16 54 46.6 ± 0.18s
LAT=24.11 N ± 1.60km
LONG=121.85 E ± 2.14km
DEPTH= 12 km ± 0.40km
STATIONS USED = 16, STAND DEV= 2.14s
M_L=3.9/ 3,

SSE	7.0	355	cPn	16 56 29.0	−0.1	
			LG_2	16 58 35.0	−2.0	
GZH	7.9	264	cPn	16 56 42.0	0.7	
			eSn	16 58 05.0	−7.7	
			LN		1.0	0.10
GYA	13.9	283	eP	16 58 13.0	6.3	
XAN	15.0	314	eP	16 58 20.4	−0.2	
GTA	24.1	315	eP	17 00 04.5	1.3	

1986 4 9
O=18 10 56.4 ± 0.07s
LAT=22.82 S ± 2.94km
LONG= 66.80 W ± 4.66km
DEPTH=218 km
STATIONS USED = 37, STAND DEV= 1.58s

KSH	144.4	54	ePKP	18 30 07.5	−0.3
			PP	18 33 32.0	4.0

WMQ	150.3	39	PKP	18 30 18.0	0.5	
			PKP_2	18 30 31.0		
MDJ	154.4	332	ePKP	18 30 23.8	0.6	
CN2	156.8	337	PKP	18 30 25.6	−0.7	
			PKP_2	18 30 56.6		
LSA	159.1	66	ePKP	18 30 29.6	−0.1	
GTA	159.9	31	PKP	18 30 30.6	0.3	
			PKP_2	18 31 10.4		
BTO	162.1	8	ePKP	18 30 33.4	0.9	
LZH	164.5	29	ePKP	18 30 36.0	1.0	
			PKP_2	18 31 30.5		
			PP	18 35 14.0	−5.6	
XAN	168.2	18	PKP	18 30 38.6	1.0	
			PKP_2	18 31 47.0		
			cPP	18 35 38.0	−0.2	
CD2	168.3	44	ePKP	18 30 39.3	1.6	
GYA	173.0	57	PKP	18 30 41.4	0.9	

1986 4 9
O = 18 44 10.4 ± 0.31s
LAT = 28.32 N ± 3.15km
LONG = 140.99 E ± 5.89km
DEPTH = 33 km ± 1.18km
STATIONS USED = 37, STAND DEV = 3.16s
Ms = 4.3 / 11, m_B = 5.4 / 15

SSE	17.4	284	P	18 48 13.0	0.3	
			ePP	18 48 27.0	−0.2	
			eS	18 51 28.0	4.1	
			esS	18 51 36.0	0.3	
			LN	Ms = 4.3	10.0	0.53
MDJ	18.6	334	eP	18 48 33.0	5.2	
DL2	19.2	308	+P	18 48 35.5	0.6	
			PMZ	m_B = 5.4	6.0	1.07
			eS	18 52 08.0	3.2	
NJ2	19.5	286	−P	18 48 35.0	−2.6	
			PMZ	m_B = 5.4	6.0	1.10
			S	18 52 13.0	3.4	
			SMN	m_B = 5.4	8.0	1.10
			LN	Ms = 4.7	10.0	1.20
SNY	19.6	318	eP	18 48 42.2	3.7	
			PMZ	m_B = 5.3	5.0	0.80
			S	18 52 19.5	7.9	
			LN	Ms = 4.4	10.0	0.49
			LE		10.0	0.40
QZH	20.3	266	P	18 48 48.0	1.7	
TIA	21.6	297	P	18 48 56.1	−3.9	
WHN	23.3	282	P	18 49 18.0	1.6	
			PMZ	m_B = 5.5	5.0	1.11
			S	18 53 28.0	5.7	
			SMN	m_B = 5.5	6.0	0.99
			LN	Ms = 4.5	10.0	0.55
BJI	23.5	306	eP	18 49 20.0	1.1	
			PMZ	m_B = 5.0	3.5	0.22
			eS	18 53 33.5	6.1	
			SMN	m_B = 5.4	7.0	0.67
			SME		9.0	0.44
			LN	Ms = 4.2	10.0	0.29
TIY	25.6	299	+iP	18 49 41.0	1.9	
			PMZ	m_B = 5.5	5.0	0.60
			S	18 54 08.5	6.5	
			LE	Ms = 4.0	12.5	0.17
HHC	27.1	305	P	18 49 52.5	−0.4	
XAN	27.9	290	eP	18 49 56.6	−3.8	
			eS	18 54 39.0	−1.8	
BTO	28.2	304	eP	18 50 04.6	2.2	
			eS	18 54 50.0	5.5	
GYA	30.5	275	eP	18 50 24.6	1.7	
GTA	35.7	299	eP	18 51 04.0	−4.0	
			cPP	18 52 22.0	−6.3	
			S	18 56 41.0	0.3	
			LN	Ms = 4.4	18.0	0.36

1986 4 9
O = 20 37 54.8 ± 0.10s
LAT = 10.02 N ± 1.62km
LONG = 126.25 E ± 2.23km
DEPTH = 67 km ± 0.84km
STATIONS USED = 30, STAND DEV = 1.84s

GZH	17.9	318	eP	20 42 03.5	2.3	
QZN	18.2	301	eP	20 42 06.4	1.6	
SSE	21.5	348	eP	20 42 40.0	0.1	
			PMZ		1.0	0.040
NJ2	23.0	344	+P	20 42 55.5	1.0	
GYA	24.7	314	P	20 43 12.8	1.3	
XAN	28.7	329	+P	20 43 46.4	−1.8	
BJI	31.2	345	eP	20 44 08.5	−1.8	
SNY	31.8	356	eP	20 44 17.2	2.0	
GTA	37.6	326	P	20 45 04.6	−0.4	

1986 4 9
O = 21 11 53.1 ± 0.21s
LAT = 13.04 S ± 1.99km
LONG = 167.68 E ± 4.83km
DEPTH = 34 km ± 0.37km
STATIONS USED = 58, STAND DEV = 1.77s

SSE	62.6	316	+P	21 22 16.5	−0.3	
GZH	64.2	304	P	21 22 28.0	0.9	
NJ2	64.8	315	+P	21 22 30.8	−0.2	
QZN	65.3	298	eP	21 22 35.2	0.8	
MDJ	67.0	331	−P	21 22 46.0	0.8	

WHN	67.1	311	eP	21 22 45.5	−0.5		
SNY	68.0	326	eP	21 22 51.5	−0.3		
TIA	68.4	318	eP	21 22 53.5	−0.3		
CN2	68.4	328	+P	21 22 45.2	−9.0		
GYA	71.1	304	P	21 23 11.6	0.9		
BJI	71.2	321	eP	21 23 11.5	0.2		
TIY	72.3	317	eP	21 23 18.5	0.6		
XAN	72.9	312	eP	21 23 21.3	0.1		
KMI	73.8	301	+P	21 23 28.0	1.3		
CD2	75.3	307	eP	21 23 36.1	0.7		
BTO	75.4	318	eP	21 23 36.5	0.3		
LZH	77.5	312	eP	21 23 49.0	1.1		
			PMZ			1.5	0.050
GTA	81.8	314	+P	21 24 11.8	0.7		
LSA	85.0	302	eP	21 24 21.2	−6.5		
WMQ	91.8	315	eP	21 25 00.5	0.5		

1986 4 9

O = 21 56 19.9 ± 0.09s
LAT = 10.01 N ± 1.51km
LONG = 126.22 E ± 1.75km
DEPTH = 64 km ± 0.15km
STATIONS USED = 83, STAND DEV = 1.25s
Ms = 4.9 / 25, m_B = 5.3 / 4

GZH	17.9	318	eP	22 00 28.0	1.7		
			LN	Ms = 5.1		14.0	1.48
			LE			17.0	4.92
QZN	18.2	301	eP	22 00 30.6	0.8		
			pP	22 00 39.0	−2.3		
			S	22 03 54.0	7.9		
			SS	22 04 16.5	5.3		
			LN	Ms = 5.0		18.0	2.60
			LE			18.0	3.20
SSE	21.5	348	+iP	22 01 06.5	1.1		
			PMZ			1.0	0.34
			S	22 05 00.0	6.3		
			LE	Ms = 4.6		12.0	0.88
NJ2	23.0	344	+P	22 01 21.0	1.1		
			pP	22 01 30.0	−4.1		
			LN	Ms = 5.0		14.0	2.70
WHN	23.2	333	eP	22 01 23.0	0.6		
			S	22 05 27.0	2.1		
			SMN	m_B = 5.6		9.0	1.52
			LN	Ms = 4.7		14.0	1.34
GYA	24.7	314	P	22 01 38.4	1.7		
			sP	22 01 53.0	−4.8		
			LN	Ms = 5.0		17.0	2.00
			LE			17.0	2.10
KMI	26.9	307	eP	22 01 56.0	−1.4		
			eS	22 06 30.0	2.5		
			LN	Ms = 4.9		20.0	2.20
TIA	27.4	344	eP	22 02 01.5	0.1		
			eS	22 06 37.0	2.3		
			LN	Ms = 4.5		15.0	0.59
XAN	28.7	329	+P	22 02 12.0	−1.6		
			S	22 06 58.0	2.7		
			sS	22 07 17.0	−4.8		
			PcS	22 09 10.0	6.9		
			LN	Ms = 4.7		15.0	0.79
			LE			12.0	0.50
DL2	29.1	353	eP	22 02 19.0	2.3		
			eS	22 07 08.0	6.1		
			LE	Ms = 4.9		10.0	0.85
CD2	29.5	318	eP	22 02 19.2	−1.2		
			S	22 07 08.0	0.5		
			LE	Ms = 5.3		15.0	3.40
TIY	30.3	338	P	22 02 27.3	−0.1		
			S	22 07 26.5	6.6		
			sS	22 07 42.5	−3.9		
			LN	Ms = 4.9		16.0	1.43
			LE			12.0	0.24
BJI	31.2	345	eP	22 02 35.5	−0.3		
			eS	22 07 38.0	2.2		
			SMN	m_B = 5.4		6.0	0.39
			SME			6.0	0.35
			eScS	22 13 08.5	8.4		
SNY	31.8	356	−iP	22 02 41.0	0.3		
			S	22 07 46.0	2.1		
			LN	Ms = 4.8		18.0	0.95
			LE			18.0	0.59
LZH	33.0	325	eP	22 02 51.0	−0.3		
			PMZ			2.0	0.12
CN2	33.7	359	eP	22 02 56.5	−0.7		
			eS	22 08 16.0	1.8		
BTO	33.7	337	eP	22 02 56.2	−1.2		
			S	22 08 18.0	4.6		
MDJ	34.6	4	+P	22 03 05.3	0.1		
			S	22 08 30.0	2.2		
GTA	37.6	326	+iP	22 03 29.9	−0.5		
			eS	22 09 14.4	0.0		
			ScP	22 09 32.1	5.4		
LSA	38.1	306	eP	22 03 34.0	−1.4		
WMQ	47.4	322	P	22 04 50.0	−0.3		
			(S)	22 11 44.0	5.5		
			LN	Ms = 5.4		18.0	2.26

1986 4 9

O = 22 10 12.5 ± 0.27s
LAT = 55.89 S ± 6.13km
LONG = 26.87 W ± 8.58km

DEPTH = 42 km ± 1.41km
STATIONS USED = 59, STAND DEV = 3.32s
Ms = 5.6 / 4,

KSH	128.3	74	ePKP	22 29 18.4	2.7		
LSA	129.6	94	ePKP	22 29 19.4	0.8		
QZN	131.0	121	ePKP	22 29 23.5	2.8		
KMI	132.4	109	–PKP	22 29 25.5	1.8		
GYA	135.6	112	PKP	22 29 32.0	2.6		
CD2	137.5	105	ePKP	22 29 33.8	0.8		
WMQ	137.7	78	ePKP	22 29 29.0	–4.3		
LZH	141.5	100	ePKP	22 29 36.5	–3.7		
GTA	141.5	92	ePKP	22 29 38.0	–2.3		
XAN	142.7	107	ePKP	22 29 39.0	–3.2		
			ePP	22 32 47.6	–5.9		
WHN	142.8	117	ePKP	22 29 39.5	–2.8		
NJ2	146.3	121	+PKP	22 29 50.5	2.2		
SSE	146.6	124	PKP	22 29 51.0	2.2		
TIY	147.4	107	ePKP	22 29 50.7	0.5		
			PKP_2	22 29 54.0			
			LE	Ms = 5.6		19.0	0.74
BTO	148.1	100	ePKP	22 29 52.0	0.6		
TIA	148.7	114	ePKP	22 29 53.1	0.8		
BJI	151.0	108	ePKP	22 29 56.5	0.6		
CN2	158.6	113	PKP	22 30 06.0	–0.2		
			PKP_2	22 30 42.0			
			ePP	22 34 22.0	–2.1		
MDJ	161.3	117	ePKP	22 30 07.0	–2.1		

1986 4 10
O = 00 20 04.6 ± 0.08s
LAT = 14.33 N ± 1.43km
LONG = 120.92 E ± 1.86km
DEPTH = 204 km ± 0.55km
STATIONS USED = 44, STAND DEV = 1.63s

GZH	11.3	322	eP	00 22 40.0	–1.2		
			eS	00 24 46.0	1.8		
QZN	11.6	295	eP	00 22 50.2	5.0		
NJ2	17.7	354	+P	00 24 00.6	0.7		
GYA	18.0	314	P	00 24 02.6	–0.1		
TIA	22.0	352	eP	00 24 43.6	0.1		
XAN	22.4	333	P	00 24 47.0	–0.2		
CD2	22.8	319	eP	00 24 51.6	0.6		
TIY	24.5	344	P	00 25 06.9	0.2		
LZH	26.5	328	–P	00 25 25.0	–0.7		
			PMZ			1.0	0.050
SNY	27.5	4	+iP	00 25 33.6	–0.7		
GTA	31.1	327	–iP	00 26 06.1	–0.5		

1986 4 10
O = 02 21 10.0 ± 0.08s
LAT = 0.88 S ± 1.50km
LONG = 126.96 E ± 2.12km
DEPTH = 12 km ± 0.06km
STATIONS USED = 88, STAND DEV = 1.18s
Ms = 5.6 / 41, m_B = 6.2 / 33

QZN	26.0	320	–iP	02 26 43.0	–1.5		
			PMZ	m_B = 6.2		10.0	5.40
			PP	02 27 22.0	–2.7		
			S	02 31 10.0	–1.8		
			SMN	m_B = 5.7		12.0	2.00
			SME			14.0	2.10
			LN	Ms = 5.5		14.0	5.80
			LE			14.0	2.90
GZH	27.3	332	–iP	02 26 56.0	–0.4		
			PMZ	m_B = 6.2		10.0	4.91
			S	02 31 32.0	–1.1		
			SMN	m_B = 6.1		11.0	4.42
			SME			11.0	2.78
			LN	Ms = 5.7		14.0	8.16
			LE			11.0	2.32
SSE	32.3	351	–iP	02 27 40.0	–1.1		
			PMZ			1.6	1.21
			sP	02 27 52.0	2.2		
			PP	02 28 50.0	2.3		
			ePcP	02 30 26.0	–2.8		
			iS	02 32 52.0	–1.3		
			SME			14.0	6.66
			sS	02 33 06.0	2.9		
			ScP	02 34 10.0	–0.9		
			PcS	02 34 14.0	1.6		
			SS	02 34 46.0	–0.6		
			ScS	02 38 06.0	–2.5		
			LN	Ms = 5.6		24.0	3.84
			LE			24.0	9.03
WHN	33.5	340	–iP	02 27 52.0	0.4		
			PMZ			1.5	0.49
			sP	02 28 01.0	0.7		
			iS	02 33 13.0	0.9		
			SME	m_B = 6.5		10.0	8.13
			sS	02 33 24.0	2.2		
			PcS	02 34 16.0	–0.7		
			LE	Ms = 5.5		12.0	3.23
GYA	33.5	326	–P	02 27 52.0	0.1		
			pP	02 27 57.0	–0.6		
			PP	02 29 09.0	5.6		
			PcP	02 30 32.0	–0.1		
			S	02 33 11.0	–0.6		
			SMN	m_B = 6.0		9.0	2.50
			ScP	02 34 15.0	–0.2		
			ScS	02 38 16.0	1.2		

			LN		Ms = 5.5		16.0	3.30
			LE				16.0	2.90
NJ2	33.6	348	−P	02 27 54.5		1.5		
			PMZ		m_B = 6.3		4.0	2.10
			S	02 33 15.5		1.7		
			SME		m_B = 6.1		8.0	3.00
			ScP	02 34 16.0		0.3		
			LN		Ms = 5.6		12.0	4.10
KMI	34.9	319	−P	02 28 04.0		−0.2		
			PMZ		m_B = 6.0		6.0	1.63
			pP	02 28 10.0		0.3		
			PP	02 29 21.0		0.0		
			S	02 33 32.0		−1.4		
			sS	02 33 40.0		−3.9		
			ScP	02 34 20.5		0.3		
			SS	02 35 42.0		−5.1		
			LN		Ms = 5.4		15.0	3.27
TIA	38.0	347	eP	02 28 29.5		−0.8		
			PMZ		m_B = 6.1		9.0	3.13
			ScP	02 34 30.0		−1.6		
			eS	02 34 17.0		−5.2		
			SMN		m_B = 5.5		11.0	1.06
			ScS	02 38 37.0		−2.4		
			LN		Ms = 5.1		16.0	1.62
CD2	38.5	327	eP	02 28 34.6		−0.1		
			PMZ		m_B = 6.2		10.0	4.80
			PP	02 30 03.0		−3.1		
			eS	02 34 26.0		−4.3		
			LE		Ms = 5.6		13.0	4.10
XAN	38.6	336	−iP	02 28 35.0		−0.6		
			pP	02 28 40.0		−1.4		
			sP	02 28 43.0		−1.3		
			PP	02 30 05.0		−2.3		
			PPMZ				8.0	2.34
			S	02 34 29.0		−1.8		
			SMN		m_B = 6.6		7.0	6.04
			SME				5.0	4.35
			ScP	02 34 35.0		1.0		
			PcS	02 34 38.0		2.5		
			iScS	02 38 42.0		−1.1		
			LN		Ms = 5.6		11.0	1.76
			LE				16.0	3.28
DL2	39.9	354	−P	02 28 46.0		0.1		
			PP	02 30 29.0		7.8		
			iS	02 34 48.0		−2.5		
			ScS	02 38 49.0		−1.3		
			LN		Ms = 5.9		13.0	1.54
			LE				17.0	8.21
TIY	40.7	342	−iP	02 28 53.0		0.5		
			PMZ		m_B = 6.4		6.0	4.41
			pP	02 29 01.5		3.3		
			PP	02 30 29.0		−0.1		
			PcS	02 34 41.5		−1.9		
			S	02 35 01.0		−0.3		
			SMN		m_B = 6.3		9.0	2.25
			SME				11.0	4.71
			SS	02 37 59.5		2.7		
			ScS	02 38 57.5		2.6		
			LN		Ms = 5.6		13.0	2.71
			LE				12.0	1.46
BJI	41.9	348	eP	02 29 02.0		−0.4		
			esP	02 29 12.0		0.9		
			eScP	02 34 45.5		−1.2		
			eS	02 35 17.0		−3.3		
			esS	02 35 31.0		0.9		
			eSS	02 38 23.0		2.5		
			eScS	02 39 02.5		0.3		
			LN		Ms = 5.3		12.0	1.58
LZH	42.6	332	−iP	02 29 10.0		1.6		
			PMZ		m_B = 6.4		8.0	5.64
			ePP	02 30 42.0		−7.4		
			ScP	02 34 50.0		0.4		
			eS	02 35 30.0		−1.2		
			SMN		m_B = 6.3		7.0	3.37
			LN		Ms = 5.7		16.0	4.50
SNY	42.6	356	−iP	02 29 08.0		−0.3		
			PMZ		m_B = 6.1		5.5	1.90
			PP	02 30 48.0		−1.5		
			S	02 35 26.0		−3.9		
			SMN		m_B = 6.4		4.0	1.14
			SME				5.0	3.07
			SS	02 38 33.0		−1.2		
			LN		Ms = 5.7		22.0	6.00
			LE				23.0	3.00
BTO	44.1	341	eP	02 29 20.3		0.0		
			eS	02 35 52.0		−0.4		
CN2	44.5	358	−P	02 29 22.0		−1.6		
			pP	02 29 28.5		−0.9		
			PP	02 31 09.0		0.8		
			PPMZ				7.0	0.90
			ScP	02 34 56.0		−1.1		
			S	02 35 53.5		−3.8		
			SME		m_B = 5.9		8.0	1.40
			cSS	02 39 04.0		−4.6		
			iScS	02 39 16.0		−2.3		
MDJ	45.4	3	−P	02 29 30.0		−0.4		
			pP	02 29 36.0		−0.3		
			PP	02 31 22.0		5.4		
			ScP	02 34 59.5		−1.2		
			S	02 36 08.0		−1.6		

LSA	45.7	315	eP	02 29 33.2	−0.7		
			PMZ	m_B = 6.2		5.0	2.01
			ScP	02 35 02.0	−0.2		
			S	02 36 12.0	−3.1		
			iScS	02 39 22.5	−3.6		
GTA	47.2	331	−iP	02 29 45.2	0.2		
			PMZ	m_B = 6.4		7.0	3.74
			PP	02 31 35.0	0.3		
			ScP	02 35 07.3	−1.0		
			iS	02 36 35.7	−1.4		
			SMN			16.0	5.44
			iScS	02 39 34.5	−1.0		
			LN	Ms = 5.8		33.0	10.0
WMQ	56.6	327	−iP	02 30 55.8	−0.3		
			PMZ	m_B = 6.6		5.0	4.35
			ScP	02 35 48.7	−0.2		
			iS	02 38 43.3	−3.4		
			SMN	m_B = 6.7		6.0	6.30
			sS	02 38 56.0	−0.3		
			ScS	02 40 36.0	−4.6		
			LN	Ms = 6.3		28.0	23.8
KSH	61.5	317	+iP	02 31 31.0	1.4		
			PP	02 33 50.0	3.9		
			iS	02 39 56.0	6.6		
			SME	m_B = 6.7		8.0	6.80
			ScS	02 41 17.0	1.0		
			LN	Ms = 5.7		16.0	2.80

1986 4 10
O = 04 13 46.9 ± 0.29s
LAT = 47.89 N ± 3.19km
LONG = 109.06 E ± 2.56km
DEPTH = 13 km ± 0.16km
STATIONS USED = 25, STAND DEV = 3.57s
Ms = 4.4 / 4, M_L = 4.4 / 2,

HHC	7.3	165	Pn	04 15 33.5	0.2		
			Pg	04 16 03.0	8.0		
BTO	7.3	174	ePn	04 15 33.9	−0.2		
			eLG_1	04 17 30.5	−6.3		
BJI	9.4	144	eP	04 16 01.5	−3.4		
			eLG_1	04 18 36.5	−4.6		
			LN	Ms = 4.4		7.0	0.72
			LE			7.0	1.15
GTA	10.8	222	P	04 16 20.0	−4.7		
			LG_1	04 19 17.0	−8.9		
			LE	Ms = 4.2		9.0	0.90
CN2	12.1	104	eP	04 16 39.5	−3.3		
LZH	12.4	200	eP	04 16 51.0	4.3		
			eLG_1	04 20 14.5	−2.1		
			LN			1.5	0.34
XAN	13.8	180	eP	04 17 02.2	−3.3		
			LG_1	04 21 00.0	−1.4		
			LN	Ms = 4.3		5.0	0.41
WMQ	15.4	263	eP	04 17 23.2	−3.1		
			LG_1	04 21 41.5	−9.8		
			LE			1.6	0.13
GYA	21.5	186	P	04 18 39.6	1.8		

1986 4 10
O = 06 37 12.9 ± 0.21s
LAT = 24.69 N ± 2.25km
LONG = 122.40 E ± 4.40km
DEPTH = 31 km ± 0.85km
STATIONS USED = 24, STAND DEV = 3.80s
Ms = 4.5 / 10,

SSE	6.5	351	cPn	06 38 39.2	−7.2		
			LE	Ms = 3.9		9.0	1.09
WHN	9.2	311	P	06 39 31.8	5.0		
			LG_2	06 42 16.0	−0.9		
			LN	Ms = 4.5		12.0	3.10
XAN	15.0	312	eP	06 40 49.0	4.6		
			LN	Ms = 4.6		12.0	1.35
			LE			12.0	0.75
TIY	15.5	329	P	06 40 54.1	2.8		
			(S)	06 43 40.0	−2.8		
			LN	Ms = 4.4		10.0	0.35
			LE			11.0	0.77
BJI	16.2	343	eP	06 40 55.0	−4.7		
CD2	17.6	295	eP	06 41 18.0	0.2		
			LN	Ms = 4.5		16.0	1.50
BTO	18.9	330	eP	06 41 35.0	0.6		
			eS	06 44 59.0	−2.4		
			LN	Ms = 4.5		13.0	0.60
			LE			12.0	0.70
LZH	19.6	310	eP	06 41 40.0	−1.7		
			PMZ			1.5	0.070
GTA	24.0	313	P	06 42 23.8	−2.7		
			LE	Ms = 4.5		11.0	0.62

1986 4 10
O = 07 31 37.2 ± 0.10s
LAT = 28.32 N ± 2.67km
LONG = 140.72 E ± 2.19km
DEPTH = 165 km ± 1.74km
STATIONS USED = 35, STAND DEV = 2.20s

MDJ	18.5	334	eP	07 35 42.0	−1.8
NJ2	19.3	286	−P	07 35 51.4	0.0
SNY	19.4	318	eP	07 35 55.1	2.2
CN2	19.7	326	eP	07 35 50.0	−6.2
TIA	21.4	298	eP	07 36 12.6	−0.5

WHN	23.1	282	P	07 36 31.0	1.9	
XAN	27.7	290	−iP	07 37 12.0	−0.6	
GYA	30.2	275	P	07 37 35.4	0.3	
CD2	32.1	284	eP	07 37 51.6	−0.1	
GTA	35.5	299	P	07 38 13.0	−6.9	

1986 4 10
O = 08 24 56.4 ± 0.17s
LAT = 39.57 N ± 1.85km
LONG = 118.76 E ± 1.71km
DEPTH = 14 km ± 0.46km
STATIONS USED = 18, STAND DEV = 4.54s
Ms = 3.7 / 1, M_L = 3.9 / 13,

BJI	2.0	284	Pg	08 25 32.0	−0.6		
			Sg	08 25 57.5	−3.2		
			SMN	M_L = 3.4		0.5	0.25
			SME			0.5	0.31
DL2	2.3	106	Pn	08 25 37.5	2.9		
			Pg	08 25 42.3	4.9		
			Sn	08 26 05.0	0.2		
			Sg	08 26 15.0	5.8		
			SMN	M_L = 3.6		0.5	0.39
			SME			0.5	0.33
TIA	3.6	202	ePn	08 25 54.4	2.2		
			eSg	08 26 51.1	2.1		
			SMN	M_L = 3.4		0.4	0.080
			SME			0.4	0.11
SNY	4.3	57	ePn	08 26 01.0	−0.8		
			Pg	08 26 18.0	5.7		
			Sn	08 26 47.1	−6.8		
			Sg	08 27 10.0	−1.1		
			SMN	M_L = 4.1		0.8	0.42
			SME			1.0	0.28
TIY	5.3	252	(Pn)	08 26 19.8	4.2		
			Pg	08 26 33.9	4.1		
			Sg	08 27 37.3	−4.8		
			SMN	M_L = 3.9		0.6	0.10
			SME			0.8	0.14
CN2	6.6	48	+Pg	08 26 58.8	6.7		
			Sn	08 27 44.0	−5.6		
			eSg	08 28 20.0	−1.6		
			SMN	M_L = 4.4		1.0	0.15
			SME			1.0	0.24
GYA	16.5	221	eP	08 28 53.0	3.2		

1986 4 10
O = 10 25 25.2 ± 0.08s
LAT = 0.98 S ± 1.35km
LONG = 126.83 E ± 2.18km
DEPTH = 72 km ± 0.12km
STATIONS USED = 32, STAND DEV = 1.46s

QZN	26.0	321	eP	10 30 53.3	0.2
WHN	33.5	340	eP	10 32 01.2	0.7
XAN	38.7	336	+P	10 32 44.2	0.1
TIY	40.7	342	eP	10 33 00.2	−1.0
BJI	42.0	348	eP	10 33 09.0	−2.2
CN2	44.6	359	eP	10 33 31.0	−1.5
MDJ	45.5	3	eP	10 33 38.8	−0.6
GTA	47.2	331	P	10 33 54.0	0.6
WMQ	56.7	327	P	10 35 04.3	0.2

1986 4 10
O = 18 22 08.3 ± 0.11s
LAT = 0.98 N ± 1.84km
LONG = 98.44 E ± 2.10km
DEPTH = 98 km ± 0.26km
STATIONS USED = 51, STAND DEV = 1.63s

QZN	21.1	31	eP	18 26 50.8	3.6
KMI	24.4	9	eP	18 27 20.5	1.8
GYA	26.5	17	eP	18 27 38.8	−0.3
LSA	29.4	347	P	18 28 03.5	−1.7
CD2	30.2	9	P	18 28 11.4	−0.5
XAN	34.3	16	eP	18 28 45.6	−2.2
GTA	38.3	2	P	18 29 20.2	−0.9
BTO	40.8	14	eP	18 29 44.0	1.9
BJI	42.1	20	eP	18 29 53.5	1.0
KSH	43.4	335	eP	18 30 03.8	0.2
WMQ	43.7	349	eP	18 30 08.0	2.2
CN2	49.0	26	eP	18 30 45.8	−1.2
MDJ	51.5	28	eP	18 31 06.0	−0.2

1986 4 11
O = 01 00 38.4 ± 0.12s
LAT = 9.97 N ± 1.83km
LONG = 126.14 E ± 2.23km
DEPTH = 58 km ± 0.64km
STATIONS USED = 59, STAND DEV = 1.56s
Ms = 4.8 / 16, m_B = 5.5 / 3

GZH	17.9	318	P	01 04 46.8	1.9		
			LN	Ms = 4.9		18.0	2.54
			LE			16.0	2.19
SSE	21.5	348	+P	01 05 25.0	0.4		
			PMZ			1.2	0.12
			iS	01 09 21.0	6.8		
			sS	01 09 36.0	0.4		
			LN	Ms = 4.7		16.0	1.45
NJ2	23.0	344	+P	01 05 39.0	−0.1		
			S	01 09 49.0	8.9		
			SME	m_B = 5.6		8.0	1.30
			LE	Ms = 4.5		14.0	0.70

WHN	23.2	333	eP	01 05 41.0	−0.5		
			PMZ	m_B = 5.5		4.0	0.81
			S	01 09 49.0	4.6		
KMI	26.9	307	eP	01 06 18.5	2.4		
			eS	01 10 50.5	4.1		
			LN	Ms = 4.9		18.0	1.80
TIA	27.4	344	eP	01 06 19.7	−0.9		
			LE	Ms = 4.7		17.0	1.03
XAN	28.7	329	+P	01 06 30.8	−1.8		
			eS	01 11 19.0	3.4		
			LN	Ms = 4.8		15.0	0.79
			LE			16.0	0.94
CD2	29.4	318	eP	01 06 38.2	−1.1		
			(S)	01 11 35.0	7.4		
			LE	Ms = 5.2		16.0	2.80
TIY	30.3	338	eP	01 06 46.0	−0.5		
			S	01 11 44.5	5.0		
			LN	Ms = 5.0		17.0	1.85
BJI	31.2	345	eP	01 06 54.5	−0.5		
			(S)	01 11 48.0	−7.5		
SNY	31.8	356	eP	01 07 00.0	−0.1		
			S	01 12 04.0	0.1		
			LN	Ms = 4.7		20.0	0.91
			LE			24.0	0.76
LZH	32.9	326	eP	01 07 10.0	−0.2		
			LN	Ms = 4.8		20.0	0.95
			LE			20.0	0.86
CN2	33.7	359	eP	01 07 24.0	7.4		
MDJ	34.6	4	eP	01 07 24.5	−0.1		
GTA	37.6	326	+iP	01 07 49.0	−0.4		
			LN	Ms = 4.2		22.0	0.26
WMQ	47.4	322	eP	01 09 05.0	−4.3		

1986 4 11
O = 04 10 30.9 ± 0.25s
LAT = 40.15 N ± 4.27km
LONG = 43.34 E ± 1.49km
DEPTH = 9 km ± 0.56km
STATIONS USED = 32, STAND DEV = 1.03s

KSH	25.0	81	eP	04 15 58.9	1.8		
			eS	04 20 23.9	5.2		
WMQ	32.9	69	eP	04 17 08.0	0.1		
GTA	42.8	72	iP	04 18 31.5	0.4		
LZH	47.0	75	eP	04 19 05.0	0.2		
CD2	49.2	81	eP	04 19 22.1	0.2		
BTO	49.7	67	eP	04 19 25.8	0.2		
KMI	51.3	88	+P	04 19 37.0	−1.4		
XAN	51.6	75	eP	04 19 39.8	−0.6		
GYA	53.6	84	P	04 19 54.2	−1.3		
BJI	54.2	65	eP	04 19 58.5	−0.9		
WHN	57.3	76	eP	04 20 21.5	−0.6		

1986 4 11
O = 12 25 27.1 ± 0.10s
LAT = 10.09 N ± 1.68km
LONG = 126.35 E ± 1.72km
DEPTH = 60 km ± 0.23km
STATIONS USED = 67, STAND DEV = 1.37s
Ms = 4.6 / 14, m_B = 5.3 / 2

QZN	18.3	301	P	12 29 39.0	1.0		
			csP	12 29 52.5	−4.0		
			cS	12 33 05.0	9.1		
			LN	Ms = 4.5		11.0	0.36
			LE			14.0	1.02
SSE	21.4	348	P	12 30 13.0	0.7		
			PMZ			1.1	0.080
			cS	12 34 10.0	9.0		
			PcP	12 34 16.0	2.5		
			LN	Ms = 4.4		10.0	0.44
NJ2	22.9	343	+P	12 30 26.5	−0.5		
			sP	12 30 43.5	−3.6		
			S	12 34 34.5	7.2		
			SMN	m_B = 5.4		11.0	1.00
WHN	23.2	333	eP	12 30 29.5	−0.3		
			S	12 34 42.0	9.6		
			SMN	m_B = 5.3		12.0	0.88
			csS	12 35 00.0	3.6		
			LN	Ms = 4.6		14.0	1.00
GYA	24.7	314	P	12 30 45.0	0.4		
			LE	Ms = 4.7		14.0	1.10
KMI	26.9	307	eP	12 31 07.0	1.6		
			S	12 35 39.0	4.1		
			LE	Ms = 4.4		12.0	0.41
TIA	27.3	344	eP	12 31 08.0	−0.5		
XAN	28.7	329	eP	12 31 18.4	−2.6		
			eS	12 36 05.0	1.1		
CD2	29.5	318	eP	12 31 27.4	−0.7		
			(S)	12 36 23.0	6.4		
			LE	Ms = 4.9		20.0	1.84
TIY	30.2	338	e(P)	12 31 34.5	−0.1		
			LN	Ms = 4.6		16.0	0.78
BJI	31.2	345	eP	12 31 43.0	0.1		
			eS	12 36 45.0	2.2		
SNY	31.7	356	eP	12 31 47.5	−0.1		
			eS	12 36 58.0	6.7		
			LN	Ms = 4.6		20.0	0.85
LZH	33.0	325	+P	12 31 58.0	−0.8		
CN2	33.6	359	eP	12 32 06.2	2.2		
			sP	12 32 24.0	−0.6		
			eS	12 37 30.0	9.3		

BTO	33.6	337	cP	12 32 05.5	0.9		
			eS	12 37 27.0	5.1		
MDJ	34.5	4	eP	12 32 10.0	−1.9		
			pP	12 32 21.2	−4.9		
			sP	12 32 27.7	−4.9		
			S	12 37 36.9	2.8		
GTA	37.6	325	P	12 32 36.3	−1.6		
WMQ	47.4	322	P	12 33 58.0	0.1		

1986 4 11
O = 17 22 19.3 ± 0.12s
LAT = 54.35 N ± 4.66km
LONG = 168.08 W ± 1.83km
DEPTH = 31 km ± 0.54km
STATIONS USED = 83, STAND DEV = 1.56s
Ms = 6.2 / 42, m_B = 5.8 / 10

MDJ	40.4	283	eP	17 29 55.2	−1.3		
			PP	17 31 32.5	−1.0		
CN2	43.3	284	+P	17 30 18.5	−1.5		
			PMZ	m_B = 6.0		4.0	1.00
			cpP	17 30 26.0	−3.1		
			cPP	17 32 02.5	−0.2		
			PPMZ			4.5	1.30
			LN	Ms = 6.1		16.0	13.3
SNY	45.6	283	+iP	17 30 38.0	−0.6		
			PMZ	m_B = 6.3		4.0	1.61
			ePcP	17 32 16.0	−0.7		
			cPP	17 32 24.0	−1.4		
			cS	17 37 15.0	−3.4		
			SMN			14.0	3.83
			SME			18.0	4.51
			ScS	17 40 30.0	0.8		
			LN	Ms = 6.1		16.0	3.02
			LE			16.0	9.87
DL2	48.6	282	eP	17 31 03.8	1.3		
			PP	17 32 55.0	0.3		
			S	17 37 57.0	−3.7		
			LN	Ms = 6.1		16.0	10.1
			LE			18.0	5.59
BJI	50.9	287	eP	17 31 20.0	−0.4		
			PMZ	m_B = 5.7		5.0	0.54
			eS	17 38 24.0	−10.0		
			SMN	m_B = 5.3		9.0	0.34
			LN	Ms = 6.2		17.0	12.6
			LE			19.0	6.47
TIA	53.1	282	eP	17 31 36.2	−0.1		
			eS	17 39 05.0	1.9		
			LN	Ms = 6.3		22.0	3.52
			LE			22.0	18.2
BTO	54.0	291	P	17 31 43.5	0.4		
			pP	17 31 53.0	0.8		
			cPP	17 33 44.0	−1.0		
			S	17 39 14.0	−0.2		
			SMN	m_B = 6.2		9.0	1.90
			SME			9.0	2.00
			LN	Ms = 6.4		19.0	19.9
			LE			16.0	7.20
SSE	54.4	275	eP	17 31 46.4	0.4		
			PcP	17 32 47.0	−1.9		
			S	17 39 14.0	−5.9		
			ScS	17 41 25.0	−3.7		
			SS	17 43 08.0	6.5		
			LN	Ms = 5.8		14.0	3.50
TIY	54.7	287	+iP	17 31 48.0	−0.1		
			PcP	17 32 43.0	−6.9		
			S	17 39 30.5	7.0		
			SME	m_B = 5.6		11.0	0.93
			LN	Ms = 6.3		14.0	9.47
			LE			14.0	6.30
NJ2	55.0	278	+P	17 31 50.7	−0.2		
			S	17 39 21.7	−7.0		
			LN	Ms = 5.9		14.0	4.70
WHN	58.8	280	eP	17 32 16.0	−1.3		
			S	17 40 10.0	−7.8		
			iScS	17 41 52.0	−8.3		
			SS	17 44 06.0	−6.8		
			LN	Ms = 6.1		16.0	5.04
			LE			14.0	5.00
XAN	59.3	286	eP	17 32 19.6	−1.3		
			cS	17 40 21.0	−4.8		
			LN	Ms = 6.3		13.0	4.57
			LE			12.0	7.49
GTA	60.3	297	P	17 32 26.5	−1.4		
			S	17 40 36.0	−1.3		
			SS	17 44 33.6	−2.2		
			LE	Ms = 6.5		16.5	16.4
LZH	60.6	292	−P	17 32 30.0	0.0		
			PMZ			2.0	0.26
			cS	17 40 42.0	−0.7		
			SS	17 44 44.0	3.2		
			LN	Ms = 6.5		15.0	14.5
			LE			15.0	7.86
WMQ	62.9	308	−iP	17 32 46.0	0.3		
			PMZ			2.5	0.58
			pP	17 32 54.0	−0.8		
			PcP	17 33 21.5	−1.1		
			S	17 41 19.0	8.2		
			SME			16.0	2.51
			LN	Ms = 6.3		16.0	10.8
CD2	64.5	288	eP	17 32 56.0	0.0		

			eS	17 41 29.5	−2.4		
			LE	Ms=6.2		14.0	6.51
GZH	65.0	275	P	17 33 00.0	1.0		
			LN	Ms=6.1		14.0	5.21
			LE			15.0	2.31
GYA	66.3	283	P	17 33 07.0	−0.3		
			pP	17 33 17.0	0.6		
			S	17 41 54.0	2.1		
			sS	17 42 10.0	1.5		
			SS	17 46 18.0	8.4		
			LN	Ms=6.3		17.0	7.00
			LE			17.0	6.90
KMI	69.5	285	eP	17 33 29.0	1.2		
			pP	17 33 39.0	2.2		
			PP	17 36 04.0	1.5		
			S	17 42 36.0	5.0		
			SME	m_B=5.7		10.0	0.76
			SS	17 47 05.0	4.7		
			LN	Ms=6.1		18.0	6.01
QZN	70.2	275	eP	17 33 35.0	3.4		
			eS	17 42 40.0	−0.2		
			LN	Ms=6.1		16.0	2.90
			LE			16.0	4.30
KSH	71.6	313	−iP	17 33 41.9	1.3		
			ePP	17 36 19.0	−1.6		
			eS	17 43 01.0	3.5		
			LN	Ms=6.0		18.0	4.93
LSA	72.3	296	eP	17 33 46.8	2.1		
			pP	17 33 58.0	4.6		
			S	17 43 08.0	5.0		
			LE	Ms=5.8		15.0	2.71

1986 4 12
O=01 17 43.1 ± 0.05s
LAT=25.84 N ± 0.44km
LONG=102.84 E ± 0.46km
DEPTH= 7 km ± 0.14km
STATIONS USED = 7, STAND DEV= 4.15s
M_L=3.0/ 3,

KMI	0.7	187	+Pg	01 17 56.5	0.4		
			Sg	01 18 07.0	1.3		
			SMN			2.0	3.30
			SME			2.0	3.50
CD2	5.1	9	P*	01 19 02.4	−6.4		

1986 4 12
O=04 04 32.1 ± 0.15s
LAT=15.43 S ± 1.91km
LONG=173.35 W ± 3.18km
DEPTH= 31 km ± 0.22km

STATIONS USED = 32, STAND DEV= 1.24s

CN2	81.1	320	eP	04 16 47.0	0.1	
SNY	81.3	318	eP	04 16 48.4	0.5	
TIA	83.3	310	eP	04 16 58.2	0.3	
BJI	85.5	313	eP	04 17 10.0	0.8	
TIY	87.3	310	eP	04 17 19.5	1.5	
XAN	88.7	306	eP	04 17 24.8	0.2	
BTO	90.1	312	−iP	04 17 32.6	1.3	

1986 4 12
O=04 26 25.5 ± 0.17s
LAT=12.49 N ± 2.48km
LONG= 95.76 E ± 2.41km
DEPTH= 32 km ± 0.46km
STATIONS USED = 8, STAND DEV= 4.05s

CD2	19.8	21	eP	04 30 54.3	−1.7
XAN	24.6	27	eP	04 31 42.6	−1.6
LZH	24.6	16	P	04 31 45.0	0.4

1986 4 12
O=05 55 13.5 ± 0.09s
LAT=12.91 S ± 2.52km
LONG= 66.49 E ± 2.21km
DEPTH= 11 km ± 0.27km
STATIONS USED = 28, STAND DEV= 1.38s
Ms=5.0/ 2,

KSH	52.8	9	eP	06 04 30.0	−2.1	
GYA	55.3	45	P	06 04 50.8	0.7	
CD2	56.4	39	eP	06 04 57.8	−0.2	
WMQ	59.7	18	P	06 05 20.1	−1.0	
			eS	06 13 35.0	4.6	
			LN	Ms=5.3	20.0	1.33
GTA	60.6	29	P	06 05 26.5	−1.0	
XAN	61.7	40	eP	06 05 34.0	−0.9	
TIY	66.3	39	eP	06 06 05.0	0.2	
BTO	66.8	35	eP	06 06 07.0	−1.0	
TIA	68.3	42	eP	06 06 17.6	0.0	

1986 4 12
O=11 47 50.6 ± 0.08s
LAT= 8.47 N ± 1.22km
LONG=127.05 E ± 1.93km
DEPTH= 68 km ± 0.22km
STATIONS USED = 21, STAND DEV= 1.65s

SSE	23.2	347	eP	11 52 54.3	2.1
XAN	30.4	329	eP	11 53 56.5	−2.9
BJI	32.9	345	eP	11 54 20.0	−0.9
SNY	33.4	355	eP	11 54 24.8	−0.1

1986 4 12

O = 12 12 45.8 ± 0.08s
LAT = 17.39 S ± 0.96km
LONG = 167.81 E ± 1.70km
DEPTH = 25 km ± 0.20km
STATIONS USED = 27, STAND DEV = 0.96s

MDJ	70.9	332	eP	12 24 01.0	−2.4
			pP	12 24 08.0	−3.4
CN2	72.2	329	eP	12 24 11.0	−0.2
			pP	12 24 16.3	−2.9
BJI	74.7	321	eP	12 24 26.0	0.3
			epP	12 24 31.0	−2.7
			esP	12 24 36.0	−1.2
TIY	75.6	318	eP	12 24 32.0	0.9
XAN	75.9	313	eP	12 24 32.5	−0.3
CD2	78.0	308	eP	12 24 46.0	1.1
BTO	78.8	319	eP	12 24 48.0	−1.0
GTA	84.9	314	P	12 25 21.5	0.6

1986 4 12
O = 12 44 01.4 ± 0.10s
LAT = 28.61 N ± 1.64km
LONG = 86.67 E ± 1.23km
DEPTH = 30 km ± 0.18km
STATIONS USED = 20, STAND DEV = 1.94s

CD2	15.0	77	eP	12 47 33.4	−0.1
GTA	15.3	42	−P	12 47 41.1	3.8
GYA	17.9	92	P	12 48 10.4	0.8
XAN	19.7	69	eP	12 48 29.8	−2.1
BTO	22.6	52	eP	12 49 00.6	−0.1
HHC	23.7	52	P	12 49 12.0	−0.2

1986 4 12
O = 15 59 45.2 ± 0.18s
LAT = 12.39 S ± 6.79km
LONG = 65.99 E ± 4.01km
DEPTH = 5 km ± 0.76km
STATIONS USED = 28, STAND DEV = 2.41s

KSH	52.4	10	eP	16 09 02.9	1.4
GYA	55.3	45	P	16 09 20.2	−2.3
WMQ	59.3	18	P	16 09 50.8	−0.6
GTA	60.4	30	P	16 09 55.6	−3.1
XAN	61.6	40	eP	16 10 13.0	6.1
TIY	66.2	39	eP	16 10 35.5	−1.2
BTO	66.6	35	eP	16 10 38.8	−0.9
BJI	69.9	39	eP	16 11 01.5	1.5
SNY	75.5	41	eP	16 11 31.8	−1.5
CN2	77.7	40	eP	16 11 42.5	−3.2
MDJ	80.7	40	eP	16 12 03.8	1.8

1986 4 12

O = 16 05 05.4 ± 0.18s
LAT = 12.86 S ± 5.11km
LONG = 66.45 E ± 3.37km
DEPTH = 10 km ± 0.38km
STATIONS USED = 52, STAND DEV = 1.95s

KMI	51.7	43	eP	16 14 18.0	2.0
KSH	52.8	9	eP	16 14 23.9	0.1
GYA	55.3	45	P	16 14 42.8	0.8
CD2	56.4	39	eP	16 14 50.2	0.3
WMQ	59.6	18	−P	16 15 12.8	−0.1
			eS	16 23 28.0	5.9
LZH	60.1	35	eP	16 15 17.0	0.6
GTA	60.6	29	−P	16 15 18.7	−0.6
XAN	61.7	40	eP	16 15 25.0	−1.8
TIY	66.3	39	P	16 15 57.6	0.9
			(S)	16 24 49.5	4.7
BTO	66.8	35	eP	16 16 01.4	1.5
NJ2	67.1	47	+P	16 16 05.2	3.0
HHC	67.8	35	P	16 16 07.6	1.1
TIA	68.3	42	eP	16 16 10.1	0.6
BJI	70.0	39	eP	16 16 21.0	1.1
SNY	75.6	40	eP	16 16 51.9	−1.2
CN2	77.8	39	eP	16 17 04.2	−1.3
MDJ	80.8	40	eP	16 17 21.9	0.2

1986 4 12
O = 18 13 56.7 ± 0.09s
LAT = 9.97 N ± 1.35km
LONG = 126.31 E ± 1.78km
DEPTH = 51 km ± 0.46km
STATIONS USED = 67, STAND DEV = 1.31s
Ms = 4.5 / 13, m_B = 5.4 / 2

GZH	18.0	318	eP	18 18 07.5	2.4		
			eS	18 21 30.0	9.4		
QZN	18.3	301	P	18 18 10.2	1.5		
			eS	18 21 33.5	6.1		
			LE	Ms = 4.4		14.0	1.00
SSE	21.6	348	−P	18 18 45.0	1.1		
			PMZ			1.0	0.070
			epP	18 18 54.0	−1.7		
			S	18 22 40.0	6.3		
			sS	18 22 50.0	−3.9		
			LN	Ms = 4.4		16.0	0.76
NJ2	23.0	344	+P	18 19 00.0	1.5		
			SMN	m_B = 5.4		11.0	1.20
			LN	Ms = 4.5		11.0	0.60
WHN	23.3	333	eP	18 19 02.5	1.3		
			S	18 23 13.0	7.7		
			SMN	m_B = 5.3		8.0	0.71
			LN	Ms = 4.5		6.0	0.36

GYA	24.8	314	P	18 19 16.0	0.3		
			S	18 23 30.0	−0.7		
			LN	Ms=4.6		14.0	0.60
			LE			14.0	0.70
KMI	27.0	307	eP	18 19 35.0	−1.3		
CD2	29.6	318	eP	18 19 57.8	−1.5		
			LE	Ms=4.8		18.0	1.36
TIY	30.3	338	eP	18 20 06.0	−0.1		
			(S)	18 25 09.0	7.9		
			LN	Ms=4.6		16.0	0.78
BJI	31.3	345	eP	18 20 14.0	−0.4		
			eS	18 25 12.0	−3.9		
SNY	31.8	356	eP	18 20 18.0	−1.2		
LZH	33.0	325	eP	18 20 29.5	−0.6		
BTO	33.8	337	P	18 20 35.5	−0.6		
			eS	18 25 55.0	0.2		
MDJ	34.6	4	eP	18 20 43.5	0.0		
GTA	37.7	326	+iP	18 21 08.8	−0.4		

1986 4 12
O=18 53 23.1 ± 0.15s
LAT=26.35 N ± 1.24km
LONG=102.92 E ± 1.16km
DEPTH= 19 km ± 0.40km
STATIONS USED = 33, STAND DEV= 2.40s
Ms=4.2/ 5, M_L=3.7/ 6,

KMI	1.2	188	+Pg	18 53 45.5	0.1		
			Sg	18 54 07.5	5.3		
			SMN			2.0	1.54
			SME			3.0	5.58
GYA	3.4	87	Pn	18 54 17.0	1.7		
			Pg	18 54 26.2	3.7		
			Sn	18 54 49.0	−7.4		
			Sg	18 55 08.2	−0.2		
			SMN	M_L=3.7		1.2	0.24
			SME			1.2	0.22
			LN	Ms=4.1		6.0	2.70
			LE			6.0	1.80
CD2	4.6	9	Pn	18 54 33.8	1.5		
			Pg	18 54 46.8	2.4		
			Sg	18 55 46.0	−1.3		
			SMN	M_L=4.5		1.0	0.52
			SME			1.2	0.96
XAN	9.3	33	eP	18 55 43.0	4.1		
			S	18 57 33.0	9.7		
			LG_1	18 58 18.0	4.3		
			LG_2	18 58 33.0	4.6		
			LN	Ms=4.3		8.0	0.66
			LE			7.0	0.81
LZH	9.7	4	eP	18 55 48.0	2.2		
			LN	Ms=4.2		10.0	0.71
			LE			9.0	0.84
GTA	13.3	349	eP	18 56 35.6	1.8		
TIY	13.9	33	P	18 56 40.5	−1.3		
BTO	15.4	21	eP	18 57 04.0	2.7		
TIA	15.6	48	eP	18 57 04.0	−0.1		
HHC	16.1	24	P	18 57 09.0	−2.1		
BJI	17.6	36	eP	18 57 30.0	1.2		
SNY	23.0	43	eP	18 58 26.6	−1.2		
CN2	25.2	41	+P	18 58 49.4	−0.5		

1986 4 12
O=19 17 51.1 ± 0.08s
LAT= 9.98 N ± 1.18km
LONG=126.30 E ± 1.78km
DEPTH= 57 km ± 0.49km
STATIONS USED = 55, STAND DEV= 1.27s
Ms=4.4/ 8, m_B=5.4/ 2

SSE	21.5	348	+P	19 22 38.2	0.6		
			eS	19 26 28.0	0.5		
			sS	19 26 44.0	−4.7		
			LN	Ms=4.2		12.0	0.37
NJ2	23.0	344	+P	19 22 53.6	1.4		
			S	19 26 58.1	4.5		
			SMN	m_B=5.4		10.0	1.00
WHN	23.3	333	eP	19 22 54.0	−0.9		
			S	19 27 01.0	2.6		
			SMN	m_B=5.4		7.0	0.71
			LN	Ms=4.4		12.0	0.50
GYA	24.8	314	P	19 23 11.2	1.9		
TIA	27.4	344	eP	19 23 33.2	−0.5		
XAN	28.8	329	−P	19 23 44.4	−1.6		
CD2	29.5	318	eP	19 23 52.0	−0.9		
			(S)	19 28 37.0	−5.1		
			LE	Ms=4.8		18.0	1.36
TIY	30.3	338	eP	19 24 00.4	0.7		
			LN	Ms=4.4		14.0	0.40
BJI	31.3	345	eP	19 24 09.0	0.9		
SNY	31.8	356	eP	19 24 14.4	1.5		
CN2	33.7	359	eP	19 24 32.0	2.7		
BTO	33.7	337	eP	19 24 28.5	−1.2		
MDJ	34.6	4	eP	19 24 37.6	0.4		
GTA	37.6	326	P	19 25 02.0	−0.8		
WMQ	47.5	322	P	19 26 23.0	0.3		

1986 4 12
O=19 23 35.7 ± 0.06s
LAT= 9.97 N ± 0.97km
LONG=126.34 E ± 1.49km
DEPTH= 28 km ± 0.40km

STATIONS USED = 10, STAND DEV = 1.40s

SSE	21.6	348	eP	19 28 26.0	0.8		
XAN	28.8	329	–P	19 29 31.9	–1.9		
HHC	33.4	339	eP	19 30 15.0	0.4		
GTA	37.7	326	eP	19 30 50.1	–0.7		

1986 4 12
O = 20 20 45.3 ± 0.21s
LAT = 15.34 S ± 3.22km
LONG = 173.11 W ± 3.80km
DEPTH = 31 km ± 0.36km
STATIONS USED = 60, STAND DEV = 1.93s
Ms = 5.5 / 10, m_B = 5.8 / 8

SSE	78.1	307	eP	20 32 45.0	1.1		
			eS	20 42 38.0	2.6		
			SME			20.0	1.04
			LE	Ms = 5.5		32.0	2.45
MDJ	79.1	322	–P	20 32 46.0	–3.5		
			PP	20 35 45.0	–4.7		
			S	20 42 45.5	1.0		
NJ2	80.4	307	eP	20 33 00.0	4.1		
			pP	20 33 05.0	–0.1		
			S	20 43 00.0	2.9		
CN2	81.2	320	eP	20 33 00.4	–0.1		
			PMZ	m_B = 5.7		4.0	0.40
			epP	20 33 09.5	–0.2		
			sP	20 33 13.2	–0.3		
			ePP	20 36 04.0	–3.3		
			eS	20 43 04.0	–3.8		
			SKS	20 43 12.0	0.4		
			eSS	20 48 19.0	–5.9		
DL2	81.3	314	eP	20 33 00.0	–1.1		
			eS	20 43 03.0	–6.0		
			SKS	20 43 15.0	2.6		
SNY	81.4	318	eP	20 33 01.0	–0.5		
			S	20 43 12.0	3.8		
			SMN	m_B = 6.0		7.5	0.93
			LN	Ms = 5.5		26.0	0.54
			LE			26.0	1.65
TIA	83.4	310	eP	20 33 11.9	0.2		
BJI	85.6	313	eP	20 33 23.0	0.1		
			esP	20 33 38.0	2.0		
			eSKS	20 43 44.0	2.3		
			eS	20 43 59.0	7.0		
			SMN	m_B = 5.9		9.0	0.47
			SME			9.0	0.87
TIY	87.4	310	+P	20 33 32.8	1.0		
			sP	20 33 46.5	1.8		
			SKS	20 43 55.0	1.5		
			S	20 43 58.5	–9.0		
			sS	20 44 20.0	–4.6		
			LE	Ms = 5.5		19.0	1.24
GYA	88.3	298	P	20 33 36.0	0.2		
			SKS	20 44 05.0	6.3		
XAN	88.8	306	eP	20 33 38.5	0.0		
			sP	20 33 49.0	–2.5		
			SKS	20 44 04.0	1.8		
			S	20 44 25.0	4.5		
			SME	m_B = 5.5		9.0	0.41
BTO	90.2	312	+P	20 33 46.0	1.0		
			sP	20 33 57.0	–1.0		
			SKS	20 44 14.0	3.4		
			S	20 44 38.0	4.8		
			SMN			13.0	0.60
			LE	Ms = 5.3		13.0	0.50
KMI	91.3	296	eP	20 33 51.0	1.0		
			eS	20 44 43.0	–1.7		
			SMN	m_B = 5.3		10.0	0.30
CD2	92.0	301	(P)	20 34 02.2	8.8		
			SKS	20 44 25.0	4.0		
			eS	20 44 56.0	4.9		
LZH	93.4	306	eP	20 34 00.5	0.6		
			SKS	20 44 30.0	1.0		
			LE	Ms = 5.3		36.0	1.26
GTA	97.4	309	P	20 34 17.6	–0.2		
			SKS	20 44 53.5	3.4		

1986 4 12
O = 21 47 34.5 ± 0.13s
LAT = 8.49 N ± 1.68km
LONG = 126.56 E ± 2.34km
DEPTH = 63 km ± 0.28km
STATIONS USED = 69, STAND DEV = 1.52s
Ms = 4.7 / 14, m_B = 5.4 / 2

GZH	19.3	320	P	21 51 51.8	–5.1		
			eS	21 55 24.0	–1.3		
			LN	Ms = 4.8		14.0	1.30
			LE			14.0	1.34
QZN	19.3	305	eP	21 51 58.4	1.1		
			eS	21 55 27.0	1.0		
			LN	Ms = 4.9		15.0	2.00
			LE			16.0	1.60
SSE	23.0	348	P	21 52 35.0	–0.3		
			S	21 56 41.0	4.6		
			sS	21 57 01.0	–0.1		
			SME	m_B = 5.7		8.0	1.63
			LN	Ms = 4.5		17.0	1.04
NJ2	24.5	344	+P	21 52 51.2	1.6		
			S	21 57 06.0	4.2		
KMI	28.1	309	–P	21 53 24.0	1.0		

			LE	Ms=5.1	20.0	2.89	
TIA	28.9	344	eP	21 53 29.0	−1.0		
XAN	30.2	330	eP	21 53 39.6	−1.8		
DL2	30.6	352	eP	21 53 45.6	0.5		
CD2	30.8	319	eP	21 53 47.0	−0.2		
			eS	21 58 46.0	1.4		
			LE	Ms=4.9	22.0	1.92	
TIY	31.8	338	e(P)	21 53 51.8	−3.7		
			S	21 58 57.5	−1.1		
			ScS	22 04 22.5	4.7		
			LN	Ms=4.5	16.0	0.52	
BJI	32.8	345	eP	21 54 02.5	−1.5		
			eS	21 59 16.0	1.2		
SNY	33.3	356	+iP	21 54 09.2	0.5		
			S	21 59 27.0	4.6		
			LN	Ms=4.7	24.0	0.78	
			LE		20.0	0.60	
LZH	34.4	326	eP	21 54 18.0	−0.3		
			LN	Ms=4.7	30.0	0.69	
			LE		32.0	1.35	
CN2	35.2	359	eP	21 54 24.6	−0.3		
MDJ	36.1	4	+P	21 54 33.5	1.0		
GTA	39.0	326	+iP	21 54 56.6	−0.5		
LSA	39.3	307	P	21 55 01.1	1.2		
WMQ	48.8	323	P	21 56 16.0	0.1		
			eS	22 03 17.0	4.0		
			LN	Ms=5.2	27.0	2.33	
KSH	54.6	313	cP	21 57 00.8	1.2		
			eS	22 04 39.8	7.0		

1986 4 12
O=22 15 31.5 ± 0.08s
LAT=56.36 N ± 1.92km
LONG=164.17 E ± 1.01km
DEPTH= 33 km ± 0.11km
STATIONS USED = 27, STAND DEV= 1.05s
Ms=5.0/ 2,

BTO	38.1	269	cP	22 22 50.5	0.7		
GTA	44.6	276	P	22 23 42.8	−0.3		
WMQ	48.1	289	P	22 24 12.4	1.5		
			LN	Ms=5.3	20.0	1.83	

1986 4 13
O=01 56 06.2 ± 0.17s
LAT=15.61 S ± 2.67km
LONG=173.08 W ± 2.90km
DEPTH=107 km ± 0.47km
STATIONS USED = 37, STAND DEV= 2.41s

MDJ	79.4	322	cP	02 08 03.0	0.4		
CN2	81.4	320	+P	02 08 13.4	−0.2		
			pP	02 08 37.0	−3.6		
SNY	81.6	318	eP	02 08 13.8	−0.8		
TIA	83.6	310	eP	02 08 14.6	−9.9		
BJI	85.8	313	eP	02 08 36.5	0.8		
XAN	89.0	306	eP	02 08 52.0	1.0		
HHC	89.4	313	P	02 08 53.0	0.1		
BTO	90.4	312	eP	02 08 58.0	0.3		
LSA	102.5	298	+iP	02 09 56.6	3.7		

1986 4 13
O=02 24 38.7 ± 0.18s
LAT=23.49 N ± 2.00km
LONG=120.94 E ± 2.52km
DEPTH= 24 km ± 0.51km
STATIONS USED = 15, STAND DEV= 3.58s
Ms=3.7/ 2, M_L=4.1/ 3,

QZH	2.6	305	Pn	02 25 17.5	−2.1		
GZH	7.0	268	ePn	02 26 26.0	5.9		
			eSn	02 27 41.5	0.4		
			LN			1.0	0.19
			LE			1.0	0.080
SSE	7.6	2	Pn	02 26 31.0	2.8		
			LN	Ms=3.5		9.0	0.34
WHN	9.2	322	P	02 26 54.7	2.2		
			LN	Ms=3.9		8.0	0.53
GYA	13.3	286	eP	02 27 51.0	2.3		
CD2	17.0	300	eP	02 28 37.0	0.6		

1986 4 13
O=03 00 20.2 ± 0.11s
LAT=17.30 N ± 1.90km
LONG=145.87 E ± 2.24km
DEPTH=302 km ± 0.31km
STATIONS USED = 78, STAND DEV= 1.44s

SSE	26.3	306	−P	03 05 29.5	−1.3		
			PMZ			0.7	0.070
			eS	03 09 38.0	−2.4		
			sS	03 11 20.0	−1.2		
NJ2	28.5	306	−P	03 05 49.6	−1.0		
MDJ	30.5	337	eP	03 06 08.5	0.5		
SNY	31.0	327	+iP	03 06 12.5	−0.2		
GZH	31.0	286	+iP	03 06 12.7	0.0		
			eS	03 10 52.0	−3.0		
CN2	31.6	331	+P	03 06 16.6	−0.7		
			eS	03 10 58.0	−5.4		
WHN	31.6	301	P	03 06 16.6	−0.8		
TIA	31.7	312	eP	03 06 17.2	−1.0		
QZN	34.2	279	+P	03 06 40.3	0.1		
			S	03 11 45.5	1.6		
			SS	03 14 23.0	7.2		

BJI	34.3	318	eP	03 06 39.5	−0.9	
			eS	03 11 42.0	−3.1	
TIY	35.7	311	eP	03 06 53.0	0.6	
			S	03 12 08.0	2.1	
XAN	37.0	304	+iP	03 07 03.2	−0.2	
			pP	03 08 08.0	4.9	
			PcP	03 09 17.5	0.1	
			iS	03 12 24.0	−2.9	
			ScS	03 16 43.0	1.8	
GYA	37.4	291	+P	03 07 07.6	0.9	
			PcP	03 09 19.4	0.8	
			S	03 12 31.8	0.1	
			ScP	03 12 34.0	−1.4	
			PcS	03 13 07.6	2.2	
			ScS	03 16 45.0	1.6	
BTO	38.6	314	P	03 07 16.0	−1.0	
			sP	03 08 49.0	−1.9	
			eS	03 12 48.0	−3.5	
CD2	40.5	297	+iP	03 07 32.7	0.3	
			PMZ		0.8	0.040
			S	03 13 16.0	−2.3	
			PcS	03 13 23.0	5.5	
KMI	40.8	289	+P	03 07 35.5	0.4	
LZH	41.6	305	+iP	03 07 42.5	1.4	
			PMZ		1.5	0.22
GTA	45.5	309	+iP	03 08 12.9	0.2	
			PcP	03 09 45.6	0.0	
			ScP	03 13 07.4	−0.2	
			S	03 14 30.0	−0.5	
WMQ	55.3	312	+iP	03 09 25.8	0.0	
			PMZ		1.5	0.14
			PcP	03 10 21.5	−0.4	
			S	03 16 45.4	0.9	
			SME		1.7	0.040
KSH	63.8	306	P	03 10 24.6	1.4	
			pP	03 11 25.7	−4.3	
			S	03 18 34.5	2.2	

1986 4 13
O = 04 19 52.0 ± 0.12s
LAT = 3.40 S ± 2.04km
LONG = 141.52 E ± 3.05km
DEPTH = 30 km ± 0.37km
STATIONS USED = 64, STAND DEV = 1.86s
Ms = 4.8 / 3,

NJ2	41.3	330	−P	04 27 38.5	1.5	
			S	04 33 53.0	4.5	
WHN	42.6	324	eP	04 27 49.5	2.2	
			sP	04 28 01.0	0.9	
			S	04 34 11.0	4.0	
			LN	Ms = 5.1	14.0	1.04
GYA	44.9	313	P	04 28 07.3	0.9	
TIA	45.5	332	eP	04 28 11.3	0.1	
KMI	47.1	309	+P	04 28 26.0	2.1	
SNY	47.9	342	eP	04 28 21.6	−8.1	
XAN	48.3	323	eP	04 28 32.4	−0.5	
			sP	04 28 42.4	−3.1	
			eS	04 35 30.0	0.0	
MDJ	49.0	349	eP	04 28 37.0	−1.2	
BJI	49.1	334	eP	04 28 38.5	−0.6	
			esP	04 28 50.5	−1.3	
CN2	49.2	345	+P	04 28 38.6	−1.0	
			pP	04 28 45.6	−2.9	
			eS	04 35 39.0	−3.3	
			LN	Ms = 4.8	24.0	0.80
CD2	49.6	316	eP	04 28 43.6	0.6	
BTO	52.4	330	eP	04 29 06.0	1.5	
LZH	52.7	322	eP	04 29 07.0	0.0	
GTA	57.3	322	P	04 29 39.8	−0.4	
WMQ	67.3	321	P	04 30 46.5	−0.3	

1986 4 13
O = 20 05 06.2 ± 0.08s
LAT = 9.93 N ± 1.12km
LONG = 126.25 E ± 2.08km
DEPTH = 55 km ± 0.64km
STATIONS USED = 41, STAND DEV = 1.25s

SSE	21.6	348	+P	20 09 54.0	0.7	
			S	20 13 49.0	6.0	
			sS	20 14 04.0	−0.3	
NJ2	23.1	344	−P	20 10 09.3	1.4	
			pP	20 10 22.1	1.6	
GYA	24.8	314	P	20 10 26.0	1.4	
TIA	27.4	344	eP	20 10 49.3	−0.1	
XAN	28.8	329	P	20 11 00.0	−1.5	
CD2	29.5	318	P	20 11 07.0	−1.3	
TIY	30.3	338	eP	20 11 15.6	0.3	
BJI	31.3	345	eP	20 11 23.0	−0.7	
BTO	33.8	337	eP	20 11 45.0	−0.3	
GTA	37.6	326	+P	20 12 17.8	−0.5	
WMQ	47.5	322	eP	20 13 36.6	−1.6	

1986 4 13
O = 21 28 25.9 ± 0.12s
LAT = 32.67 N ± 1.86km
LONG = 85.27 E ± 1.44km
DEPTH = 51 km ± 0.19km
STATIONS USED = 64, STAND DEV = 2.03s
Ms = 5.0 / 32,

LSA	5.8	119	P	21 29 52.3	−0.4

			S	21 30 55.5	−2.0		
			LN	Ms = 4.8		7.0	8.35
KSH	10.1	315	+iP	21 30 52.8	1.2		
			eS	21 32 51.8	7.9		
			LG_2	21 34 03.8	4.1		
			LE	Ms = 5.6		6.0	16.0
WMQ	11.3	9	P	21 31 07.0	−0.6		
			pP	21 31 10.8	−3.8		
			eS	21 33 17.0	4.5		
			sS	21 33 23.0	−1.0		
			LN	Ms = 4.6		10.0	2.47
GTA	13.5	56	+P	21 31 34.4	−3.2		
			eS	21 34 03.0	−3.8		
			LN	Ms = 4.8		20.0	4.73
LZH	15.7	72	eP	21 32 09.0	3.3		
			PMZ			2.0	0.12
			LG_2	21 37 00.5	−3.7		
			LN	Ms = 5.0		13.0	4.38
CD2	15.8	91	eP	21 32 09.0	·2.0		
			eS	21 35 07.0	6.9		
			LE	Ms = 5.5		9.0	8.47
KMI	17.0	112	+P	21 32 20.5	−2.0		
			eS	21 35 25.0	−3.4		
			LN	Ms = 4.7		8.0	1.25
GYA	19.6	103	P	21 32 50.8	−2.1		
			S	21 36 29.0	4.1		
			LN	Ms = 5.2		11.0	1.60
			LE			11.0	3.50
XAN	19.8	80	eP	21 32 52.9	−2.2		
			PP	21 33 12.3	−1.6		
			S	21 36 32.0	2.8		
			LG_2	21 39 16.0	−3.1		
			LN	Ms = 5.4		8.0	1.69
			LE			10.0	4.63
BTO	21.3	61	P	21 33 09.5	−1.5		
			S	21 37 00.0	1.4		
			LN	Ms = 4.7		12.0	1.10
			LE			12.0	0.60
HHC	22.5	61	P	21 33 23.0	0.1		
TIY	22.7	70	eP	21 33 24.0	−0.8		
			S	21 37 22.0	−2.1		
			ScS	21 44 28.0	−4.0		
			LN	Ms = 4.9		10.0	1.18
			LE			10.0	0.82
WHN	24.8	87	eP	21 33 42.0	−3.1		
			LN	Ms = 5.0		15.0	2.47
BJI	25.9	65	eP	21 33 55.0	0.2		
			epP	21 34 02.0	−4.9		
			ePcP	21 37 24.0	1.2		
			LN	Ms = 4.7		11.0	0.74
QZN	25.9	116	eP	21 33 56.8	1.8		
			S	21 38 25.5	7.7		
			sS	21 38 39.0	−0.6		
			LN	Ms = 4.7		10.0	0.68
			LE			8.0	0.30
TIA	26.4	73	eP	21 34 02.3	2.0		
			LE	Ms = 4.2		13.0	0.29
GZH	26.5	104	eP	21 34 07.0	6.1		
			LN	Ms = 5.3		11.0	1.18
			LE			10.0	2.50
NJ2	28.3	82	e(P)	21 34 18.0	0.8		
			LN	Ms = 5.3		9.0	2.20
SSE	30.5	83	eP	21 34 38.0	1.7		
			LN	Ms = 4.7		24.0	1.47
SNY	31.6	62	eP	21 34 45.4	−1.2		
			eS	21 39 51.0	0.5		
			LN	Ms = 5.2		24.0	3.69
CN2	33.2	59	+P	21 34 59.3	−0.7		
			eS	21 40 16.0	1.4		
			LN	Ms = 5.0		20.0	1.80

1986 4 14

O = 00 25 11.7 ± 0.12s
LAT = 13.96 S ± 1.59km
LONG = 166.99 E ± 2.31km
DEPTH = 29 km ± 0.29km
STATIONS USED = 91, STAND DEV = 1.14s
Ms = 6.0 / 32, m_B = 6.5 / 37

SSE	62.8	316	−iP	00 35 36.5	−0.9		
			PMZ			1.6	1.13
			sP	00 35 48.5	−1.4		
			PcP	00 36 20.0	5.2		
			PP	00 38 00.0	3.6		
			PcS	00 40 16.0	−0.7		
			S	00 44 00.0	−2.1		
			SMN			20.0	4.80
			SS	00 48 08.0	−1.1		
			LN	Ms = 5.9		17.0	2.32
			LE			17.0	3.88
GZH	64.1	304	+iP	00 35 46.5	0.3		
			PMZ	m_B = 6.7		5.0	5.16
			pP	00 35 55.0	−0.1		
			iS	00 44 22.0	2.0		
			SMN	m_B = 6.3		9.0	2.92
			SME			9.0	1.69
			LN	Ms = 6.0		19.0	2.98
			LE			19.0	4.47
NJ2	64.9	316	+iP	00 35 51.0	−0.5		
			PMZ	m_B = 6.7		5.0	5.00
			pP	00 36 01.5	1.1		

			iS	00 44 28.0	−2.1		
			SMN	$m_B = 6.4$		11.0	5.20
			sS	00 44 49.0	4.2		
			LN	Ms = 6.3		21.0	11.7
QZN	65.1	299	+iP	00 35 53.0	0.2		
			PMZ	$m_B = 6.4$		6.0	2.80
			pP	00 36 04.0	2.4		
			PcP	00 36 23.0	−1.4		
			ePP	00 38 23.0	5.6		
			iS	00 44 37.0	4.5		
			SMN	$m_B = 6.3$		10.0	2.90
			SME			9.0	1.60
			LN	Ms = 5.9		21.0	4.80
			LE			18.0	2.00
WHN	67.2	312	+iP	00 36 06.0	−0.1		
			PMZ			1.8	0.26
			pP	00 36 17.5	2.5		
			S	00 44 54.0	−2.7		
			SMN	$m_B = 6.0$		9.0	1.61
			sS	00 45 14.0	1.4		
			SS	00 49 14.0	−4.1		
			LN	Ms = 5.8		20.0	3.63
MDJ	67.5	332	+iP	00 36 07.5	−0.2		
			PP	00 38 38.0	0.6		
			S	00 45 00.0	0.3		
			sS	00 45 16.5	0.9		
			ScS	00 45 58.0	−1.2		
DL2	67.5	323	+iP	00 36 07.0	−1.0		
			PMZ	$m_B = 6.4$		6.0	3.22
			pP	00 36 18.0	1.2		
			S	00 45 00.0	−0.2		
			SMN	$m_B = 6.2$		10.0	1.97
			SME			9.0	1.43
SNY	68.4	326	+iP	00 36 13.0	−0.6		
			PMZ	$m_B = 6.5$		5.5	3.65
			pP	00 36 22.0	−0.4		
			S	00 45 13.0	2.1		
			SMN	$m_B = 6.0$		9.0	1.41
			sS	00 45 31.5	4.6		
			LN	Ms = 6.3		10.0	4.80
			LE			12.5	3.30
TIA	68.6	318	eP	00 36 13.8	−0.9		
			sP	00 36 23.8	−3.4		
			S	00 45 09.0	−3.9		
			LN	Ms = 6.1		18.0	2.75
			LE			18.0	5.20
CN2	68.8	329	+iP	00 36 16.0	−0.3		
			PMZ	$m_B = 6.6$		4.0	2.90
			sP	00 36 29.8	1.0		
			PP	00 38 50.0	0.1		
			ScP	00 40 43.6	3.5		
			S	00 45 11.5	−4.5		
			SMN	$m_B = 5.9$		10.0	1.20
			sS	00 45 28.5	−3.5		
			SS	00 49 38.0	−5.2		
			LN	Ms = 5.9		17.0	3.20
			LE			17.0	2.50
GYA	71.1	305	+P	00 36 30.0	0.1		
			PMZ			3.0	3.20
			pP	00 36 41.0	2.4		
			S	00 45 44.0	2.1		
			SKS	00 46 28.0	3.1		
			LN	Ms = 5.8		18.0	1.80
			LE			18.0	2.50
BJI	71.5	321	+iP	00 36 32.0	−0.4		
			PMZ	$m_B = 6.7$		5.0	4.34
			pP	00 36 42.0	0.8		
TIY	72.5	317	+iP	00 36 39.0	0.5		
			PMZ	$m_B = 6.8$		5.0	6.44
			pP	00 36 50.0	2.8		
			S	00 46 01.5	2.8		
			SMN	$m_B = 6.2$		10.0	1.83
			SME			10.0	0.92
			SS	00 50 38.0	−1.9		
			LN	Ms = 6.1		17.5	4.66
			LE			17.5	3.03
XAN	73.0	313	+iP	00 36 41.3	0.0		
			PMZ	$m_B = 6.7$		5.0	4.34
			pP	00 36 50.0	0.1		
			sP	00 36 53.5	−0.2		
			PcP	00 37 03.0	5.6		
			PP	00 39 22.0	−3.0		
			S	00 46 04.0	0.1		
			SMN	$m_B = 6.2$		10.0	2.14
			SME			9.0	1.02
			SS	00 50 42.0	−5.1		
			LN	Ms = 5.9		17.0	2.78
			LE			19.0	2.31
KMI	73.7	302	+iP	00 36 46.0	0.5		
			PMZ	$m_B = 6.7$		4.0	3.90
			pP	00 36 57.0	3.0		
			iS	00 46 17.0	3.3		
			SMN	$m_B = 6.6$		6.0	3.17
			ScS	00 46 47.0	−1.0		
CD2	75.3	308	+iP	00 36 55.0	0.1		
			PMZ			1.7	1.68
			pP	00 37 06.8	3.2		
			PP	00 39 47.0	2.0		
			S	00 46 32.0	1.7		
			sS	00 46 51.0	4.7		

			SS	00 51 32.0	9.3		
			LE	Ms = 5.9		22.0	4.00
BTO	75.7	319	−iP	00 36 57.0	0.1		
			PMZ	m_B = 6.6		6.0	4.30
			pP	00 37 08.0	2.5		
			cPP	00 39 47.0	−0.6		
			S	00 46 32.0	−2.0		
			SMN	m_B = 6.4		9.0	2.10
			SME			9.0	1.90
			SKS	00 47 00.0	1.3		
			LN	Ms = 6.2		18.0	4.80
			LE			18.0	5.30
LZH	77.6	312	+iP	00 37 09.0	1.1		
			PMZ			2.0	1.21
			S	00 47 00.0	4.9		
			SMN	m_B = 6.4		8.0	2.52
			ScS	00 47 19.0	−0.7		
			LN	Ms = 5.7		13.0	1.59
GTA	81.9	314	+iP	00 37 32.0	0.8		
			PMZ	m_B = 6.6		6.0	4.05
			pP	00 37 43.5	3.7		
			PP	00 40 38.0	−1.8		
			iS	00 47 40.0	−2.5		
			SS	00 53 06.0	3.3		
			SMN			19.0	2.83
			LN	Ms = 5.9		38.0	6.12
LSA	84.9	302	+iP	00 37 46.5	−0.2		
			pP	00 37 58.0	3.0		
			S	00 48 13.0	2.6		
			SKS	00 48 03.0	−1.0		
			LE	Ms = 5.1		23.0	0.61
WMQ	92.0	315	+iP	00 38 19.5	−0.6		
			pP	00 38 31.0	2.1		
			PP	00 41 56.0	−5.2		
			SKS	00 48 49.0	1.0		
			sS	00 49 36.0	3.4		
			LE	Ms = 6.1		24.0	5.73
KSH	99.5	308	+iP	00 38 53.8	−0.5		
			PP	00 42 56.8	−2.3		
			eS	00 50 17.8	−4.2		
			LN	Ms = 6.1		16.0	2.80

1986 4 14
O = 02 36 47.9 ± 0.11s
LAT = 36.42 N ± 1.66km
LONG = 71.16 E ± 1.62km
DEPTH = 129 km ± 0.94km
STATIONS USED = 12, STAND DEV = 3.20s

KSH	4.9	50	P	02 38 04.0	3.3
			S	02 38 59.0	3.0
WMQ	14.6	55	eP	02 40 04.3	−5.8
GTA	22.8	74	P	02 41 43.0	2.7

1986 4 14
O = 06 19 58.4 ± 0.10s
LAT = 20.50 S ± 2.04km
LONG = 175.77 W ± 1.99km
DEPTH = 211 km ± 0.41km
STATIONS USED = 33, STAND DEV = 1.45s

MDJ	81.7	324	eP	06 31 55.3	−0.2
CN2	83.6	321	−iP	06 32 04.6	−0.4
BJI	87.4	315	eP	06 32 23.0	−0.5
GYA	88.5	299	P	06 32 29.4	0.5
XAN	89.8	307	−P	06 32 35.0	−0.1
KMI	91.2	296	eP	06 32 43.0	1.2

1986 4 14
O = 09 27 01.4 ± 0.14s
LAT = 0.87 S ± 1.97km
LONG = 127.16 E ± 4.27km
DEPTH = 35 km ± 0.25km
STATIONS USED = 35, STAND DEV = 1.96s

NJ2	33.7	347	P	09 33 41.8	0.2
XAN	38.7	335	−iP	09 34 23.9	−0.5
TIY	40.7	342	−P	09 34 41.1	0.0
BJI	41.9	347	eP	09 34 50.0	−0.9
SNY	42.6	356	eP	09 34 56.3	−0.3
LZH	42.7	332	eP	09 34 57.5	0.1
CN2	44.5	358	eP	09 35 10.0	−1.8
MDJ	45.3	2	eP	09 35 18.1	−0.4
GTA	47.3	331	P	09 35 32.3	−1.6
WMQ	56.7	327	eP	09 36 43.8	−1.1

1986 4 14
O = 09 44 10.2 ± 0.17s
LAT = 0.52 S ± 2.78km
LONG = 124.44 E ± 3.63km
DEPTH = 42 km ± 0.17km
STATIONS USED = 69, STAND DEV = 2.09s

QZN	24.1	324	eP	09 49 24.0	0.4
			eS	09 53 45.0	9.3
GZH	25.8	336	−iP	09 49 40.5	0.8
SSE	31.6	355	e(P)	09 50 36.6	5.1
GYA	31.8	329	P	09 50 33.6	−0.2
WHN	32.3	344	P	09 50 39.5	1.4
			pP	09 50 48.0	−0.9
NJ2	32.8	351	+P	09 50 42.5	0.2
KMI	33.0	322	eP	09 50 45.0	0.7
CD2	36.9	330	eP	09 51 17.4	0.1
TIA	37.2	350	eP	09 51 18.4	−1.0

XAN	37.3	339	+P	09 51 19.6	−1.2		
TIY	39.6	345	P	09 51 40.0	0.1		
			PMZ			0.8	0.060
BJI	41.1	350	eP	09 51 50.5	−1.3		
			ePcP	09 53 51.0	0.2		
LZH	41.2	334	P	09 51 53.0	0.3		
SNY	42.2	359	eP	09 52 01.0	0.3		
BTO	43.0	344	eP	09 52 16.0	8.4		
CN2	44.1	1	eP	09 52 16.4	−0.4		
MDJ	45.2	5	eP	09 52 24.8	−0.3		
GTA	45.7	333	+P	09 52 28.3	−1.2		
			PcP	09 54 07.5	1.1		
			ScP	09 57 57.8	3.6		
WMQ	55.0	328	+P	09 53 38.6	−1.6		
KSH	59.5	318	eP	09 54 12.9	0.8		

1986 4 14
O = 10 37 13.4 ± 0.16s
LAT = 20.41 S ± 2.11km
LONG = 177.70 W ± 2.56km
DEPTH = 511 km ± 0.69km
STATIONS USED = 60, STAND DEV = 1.10s
m_B = 5.6 / 1

SSE	77.8	310	eP	10 48 18.0	−1.7		
GZH	79.9	299	−iP	10 48 31.4	0.8		
NJ2	80.0	310	−P	10 48 31.5	0.2		
			S	10 57 55.0	2.7		
MDJ	80.6	325	−P	10 48 34.1	−0.1		
			iS	10 58 05.4	5.7		
QZN	81.1	294	P	10 48 37.0	0.3		
SNY	82.3	320	+P	10 48 43.0	0.1		
CN2	82.4	322	−P	10 48 43.0	−0.4		
			pP	10 50 34.0	−0.3		
WHN	82.6	306	P	10 48 45.0	0.6		
TIA	83.4	312	eP	10 48 48.1	−0.4		
BJI	86.0	315	eP	10 49 01.0	−0.2		
			epP	10 50 54.0	0.8		
			eS	10 58 52.0	−0.4		
GYA	86.8	300	P	10 49 05.8	0.6		
			pP	10 51 00.4	3.1		
			S	10 59 05.0	6.6		
TIY	87.4	312	eP	10 49 08.0	0.1		
			S	10 59 09.5	5.8		
XAN	88.3	307	−iP	10 49 12.4	0.4		
			PMZ			1.0	0.090
			pP	10 51 07.0	2.5		
			S	10 59 18.0	6.4		
			SMN	m_B = 5.6		5.0	0.12
			SME			6.0	0.40
CD2	91.0	303	eP	10 49 25.4	1.0		
			S	10 59 44.0	8.7		
GTA	97.1	309	P	10 49 52.0	−0.6		

1986 4 14
O = 10 52 48.0 ± 0.10s
LAT = 4.80 S ± 1.46km
LONG = 151.41 E ± 2.08km
DEPTH = 215 km ± 0.22km
STATIONS USED = 83, STAND DEV = 1.29s
m_B = 5.5 / 3

SSE	45.9	323	+P	11 00 51.0	−0.2		
			pP	11 01 35.0	−2.1		
			sP	11 02 04.0	2.8		
			eS	11 07 15.0	−3.6		
			sS	11 08 40.0	0.6		
			LE			18.0	0.40
GZH	46.4	308	−iP	11 00 57.0	2.2		
QZN	47.3	301	P	11 01 03.8	1.9		
			sP	11 02 10.0	−2.0		
			eS	11 07 40.0	1.8		
			sS	11 09 03.0	3.7		
NJ2	48.0	322	−P	11 01 08.5	1.1		
			pP	11 01 54.5	0.7		
			ScP	11 06 04.3	0.4		
			S	11 07 48.0	0.9		
			SMN	m_B = 5.5		10.0	0.80
WHN	49.9	317	P	11 01 22.0	0.0		
			pP	11 02 09.0	0.2		
			eS	11 08 12.0	−2.8		
			LE			16.0	0.94
DL2	51.5	330	+P	11 01 34.0	0.2		
			pP	11 02 21.0	0.1		
			PcP	11 02 49.0	4.4		
			S	11 08 37.0	1.8		
TIA	51.9	325	eP	11 01 36.0	−1.0		
			eS	11 08 38.0	−4.2		
			LE			13.0	1.32
SNY	52.9	334	+iP	11 01 43.6	−0.6		
			pP	11 02 32.0	0.5		
			S	11 08 56.0	1.7		
			SS	11 12 31.0	−4.4		
			LN			22.0	0.90
MDJ	52.9	341	+P	11 01 43.8	−0.9		
			ipP	11 02 32.0	0.1		
			S	11 08 55.0	−0.1		
			ScS	11 11 07.0	−1.1		
GYA	53.3	308	P	11 01 48.4	1.0		
			pP	11 02 36.0	1.4		
			S	11 09 00.0	0.1		
CN2	53.7	337	+iP	11 01 49.5	−1.0		

			PMZ			2.5	0.30
			pP	11 02 38.0	0.1		
			sP	11 03 02.0	0.4		
			S	11 09 05.0	−0.8		
			sS	11 10 29.0	−0.8		
			SS	11 12 52.0	3.0		
BJI	55.1	327	eP	11 02 00.0	−0.6		
			epP	11 02 46.0	−2.2		
			esP	11 03 10.0	−1.9		
			eS	11 09 20.0	−5.5		
			SMN	$m_B = 5.0$		9.0	0.28
XAN	55.7	317	+P	11 02 03.3	−1.2		
			pP	11 02 52.0	−0.1		
			PcP	11 03 00.0	−0.6		
			S	11 09 30.0	−1.5		
TIY	55.7	323	eP	11 02 03.5	−1.1		
			pP	11 02 52.5	0.3		
			S	11 09 34.0	2.4		
			sS	11 10 57.0	1.1		
			LE			11.0	0.22
KMI	55.8	305	+P	11 02 06.5	0.6		
CD2	57.7	311	eP	11 02 18.8	0.1		
			pP	11 03 07.5	0.7		
			eS	11 09 52.0	−7.3		
LZH	60.3	316	+P	11 02 36.5	−0.1		
			PMZ			1.5	0.070
			pP	11 03 26.0	1.0		
			LN			8.0	0.67
GTA	64.7	318	+iP	11 03 06.0	0.1		
			pP	11 03 56.0	1.0		
			S	11 11 27.5	0.9		
			sS	11 12 50.0	−3.4		
			SMN			18.0	0.80
LSA	67.1	305	P	11 03 20.6	−0.8		
WMQ	74.8	318	+iP	11 04 06.8	−0.4		
			pP	11 04 59.0	1.6		
KSH	81.9	311	eP	11 04 46.9	1.4		
			eS	11 14 40.9	0.8		

1986 4 14
O = 14 52 09.8 ± 0.33s
LAT = 57.79 S ± 6.22km
LONG = 24.48 W ± 7.87km
DEPTH = 9 km ± 1.54km
STATIONS USED = 64, STAND DEV = 3.13s
Ms = 6.4 / 30, m_B = 6.3 / 7

KSH	127.6	74	ePKP	15 11 13.9	−3.0		
			PP	15 13 22.9	2.6		
QZN	128.9	120	ePKP	15 11 23.0	3.8		
			PP	15 13 29.0	−0.6		
			SKKS	15 20 08.0			
			LN	Ms = 6.4		17.0	2.80
			LE			17.0	3.20
KMI	130.6	108	ePKP	15 11 27.5	4.8		
			PP	15 13 40.0	−0.4		
			LN	Ms = 6.5		18.0	6.00
GYA	133.6	111	PKP	15 11 34.0	5.6		
			PP	15 14 00.0	0.1		
			SKKS	15 20 04.0			
			LN	Ms = 6.4		18.0	3.50
			LE			18.0	2.80
GZH	134.0	121	ePKP	15 11 33.0	4.1		
			PP	15 14 04.0	1.6		
			PPMZ	m_B = 6.3		8.0	1.09
			LN	Ms = 6.5		16.0	3.03
			LE			16.0	3.29
CD2	135.8	105	ePKP	15 11 34.8	2.5		
			LE	Ms = 6.4		16.0	3.74
WMQ	136.8	78	PKP	15 11 35.5	1.3		
			PP	15 14 19.0	0.0		
			SKS	15 18 42.0	1.0		
			SKKS	15 21 09.0			
			LN	Ms = 6.4		28.0	6.44
LZH	139.8	100	ePKP	15 11 41.0	1.1		
			ePP	15 14 32.0	−6.4		
			PPMZ	m_B = 6.6		11.0	3.86
			SKKS	15 21 00.0			
GTA	140.2	93	ePKP	15 11 35.4	−5.0		
			LN	Ms = 6.3		16.0	2.76
WHN	140.8	116	ePKP	15 11 38.0	−3.4		
			PP	15 14 44.0	−0.1		
			PPMZ	m_B = 6.1		9.0	1.02
			SKKS	15 21 30.0			
			SS	15 33 07.0	−0.6		
			LN	Ms = 6.5		16.0	4.20
XAN	140.9	107	ePKP	15 11 39.3	−2.4		
			PP	15 14 46.0	1.2		
			PPMZ	m_B = 6.3		8.0	1.27
			SKKS	15 21 34.0			
			LN	Ms = 6.5		15.0	1.58
			LE			17.0	4.89
NJ2	144.2	120	+PKP	15 11 45.6	−1.6		
			SKKS	15 21 52.0			
			LE	Ms = 6.3		15.0	2.90
SSE	144.4	124	PKP	15 11 44.0	−3.6		
			PP	15 15 04.0	−1.9		
			SKKS	15 21 47.0			
			LN	Ms = 6.4		16.0	2.00
			LE			16.0	3.28
TIY	145.6	107	PKP	15 11 48.5	−1.2		

			PKP_2	15 11 54.0			
			SKKS	15 22 03.0			
			LN	Ms=6.4		16.0	2.60
			LE			16.0	2.37
BTO	146.4	101	ePKP	15 11 51.3	0.1		
			PP	15 15 23.0	5.1		
			SKKS	15 22 05.0			
			eSS	15 34 19.0	6.8		
			LN	Ms=6.5		18.0	2.70
			LE			18.0	3.90
TIA	146.7	114	ePKP	15 11 51.6	−0.1		
			PKP_2	15 12 34.5			
			SKKS	15 22 08.0			
			LN	Ms=6.3		16.0	1.16
			LE			16.0	2.76
BJI	149.2	108	ePKP	15 11 56.0	0.4		
			ePP	15 15 36.0	2.4		
			eSKKS	15 22 20.0			
			eSS	15 34 40.0	−3.5		
DL2	151.1	116	ePKP	15 12 00.0	1.5		
			PKP_2	15 12 55.0			
			ePP	15 15 42.0	−2.7		
			LN	Ms=6.2		14.0	1.35
			LE			16.0	1.28
SNY	154.3	114	ePKP	15 12 02.0	−1.0		
			PKP_2	15 12 28.0			
			PP	15 16 03.0	0.3		
			SKKS	15 22 47.0			
			SS	15 35 39.0	0.0		
			LN	Ms=6.5		18.0	3.70
			LE			17.0	3.10
CN2	156.6	114	PKP	15 12 04.0	−2.2		
			PKP_2	15 12 38.0			
			ePP	15 16 18.0	2.5		
			PPMZ			15.0	3.60
			eSKKS	15 23 00.0			
			SS	15 36 06.0	1.5		
			LN	Ms=6.5		16.0	4.80
MDJ	159.2	118	PKP	15 12 06.0	−3.5		
			PKP_2	15 12 48.0			
			PP	15 16 31.0	1.4		
			SKKS	15 23 08.1			

1986 4 14
O=20 39 11.9 ± 0.72s
LAT= 8.22 S ± 2.94km
LONG= 74.62 W ± 6.53km
DEPTH=129 km ± 5.92km
STATIONS USED = 15, STAND DEV= 3.30s

BJI	146.9	345	cPKP	20 58 38.0	−0.1		
HHC	147.0	351	ePKP	20 58 38.4	−0.1		
BTO	147.5	353	ePKP	20 58 41.6	2.4		
GTA	148.5	8	PKP	20 58 43.4	2.4		

1986 4 14
O=21 59 09.2 ± 0.29s
LAT=21.23 N ± 2.44km
LONG=103.19 E ± 1.87km
DEPTH= 9 km ± 0.06km
STATIONS USED = 15, STAND DEV= 2.46s
Ms=3.9/ 5, M_L=4.4/ 2,

KMI	3.9	354	+Pn	22 00 09.5	−0.4		
			Pg	22 00 21.0	3.0		
			Sg	22 01 05.0	−6.3		
			SMN	M_L=4.1		1.5	0.25
			SME			1.5	0.55
			LE	Ms=3.7		8.0	1.32
GYA	6.1	31	Pn	22 00 39.0	−1.0		
			Sg	22 02 16.0	−4.2		
			SMN	M_L=4.7		1.2	0.50
			SME			1.2	0.60
			LN	Ms=4.6		5.0	1.90
			LE			5.0	2.20
QZN	6.6	108	Pn	22 00 50.4	3.4		
			eSn	22 02 08.0	3.0		
			LN	Ms=3.8		9.0	0.70
			LE			9.0	0.40
GZH	9.6	77	P	22 01 28.5	−2.1		
			eS	22 03 16.5	−3.1		
			LN	Ms=3.9		10.0	0.57
CD2	9.7	3	(P)	22 01 33.8	2.2		
			LE	Ms=4.1		11.0	1.00
XAN	13.7	20	eP	22 02 26.8	0.0		

1986 4 14
O=22 31 24.4 ± 0.09s
LAT=25.81 N ± 1.71km
LONG=142.47 E ± 1.71km
DEPTH= 30 km ± 0.24km
STATIONS USED = 79, STAND DEV= 1.48s
Ms=4.8/21,

SSE	19.4	291	cP	22 35 52.0	0.6		
			sS	22 39 40.0	4.9		
			LN	Ms=4.8		15.0	2.30
MDJ	21.5	334	cP	22 36 10.0	−2.7		
			S	22 39 54.0	−9.7		
NJ2	21.6	292	+P	22 36 14.3	0.6		
			LE	Ms=4.7		14.0	1.40
SNY	22.3	320	eP	22 36 20.0	−1.3		
			LN	Ms=4.8		15.0	1.30

			LE			15.0	1.40
CN2	22.7	327	eP	22 36 25.5	0.7		
			PP	22 36 50.0	−3.0		
			eS	22 40 21.0	−5.6		
TIA	24.0	302	eP	22 36 37.5	−0.3		
			eS	22 40 45.9	−4.3		
			LN	Ms=4.4		15.0	0.59
			LE			18.0	0.29
WHN	25.2	287	eP	22 36 49.5	0.2		
			eS	22 41 14.0	3.6		
			LN	Ms=4.8		16.0	1.68
BJI	26.1	309	eP	22 36 56.0	−1.9		
			(S)	22 41 30.5	5.0		
			LN	Ms=4.6		17.0	0.76
			LE			16.0	0.66
TIY	28.0	302	P	22 37 14.5	−1.1		
			pP	22 37 22.0	−2.0		
			S	22 41 55.0	−0.9		
			LN	Ms=5.0		17.0	1.23
			LE			17.0	1.87
XAN	30.1	294	+P	22 37 33.0	−1.0		
			eS	22 42 35.0	5.1		
			LN	Ms=4.8		14.0	0.67
			LE			14.0	0.67
BTO	30.7	307	eP	22 37 38.0	−1.3		
			eS	22 42 33.0	−6.3		
			LN	Ms=4.9		15.0	0.60
			LE			15.0	1.20
QZN	30.9	264	eP	22 37 43.8	3.3		
GYA	32.1	279	P	22 37 51.0	−0.6		
			S	22 42 57.0	−3.0		
			LE	Ms=4.8		17.0	1.10
CD2	34.3	288	eP	22 38 10.0	−0.9		
			eS	22 43 36.0	0.3		
			LE	Ms=5.1		16.0	1.87
LZH	34.5	297	+P	22 38 11.0	−1.3		
			PMZ			1.2	0.090
KMI	35.8	278	eP	22 38 24.0	0.5		
			eS	22 43 57.0	−1.6		
			LN	Ms=4.7		16.0	0.72
GTA	38.1	302	+P	22 38 41.4	−1.2		
			PP	22 40 14.5	2.0		
			LE	Ms=4.9		14.0	0.89
WMQ	47.5	307	−P	22 39 59.0	−0.6		
			eS	22 46 55.0	2.9		
KSH	56.5	302	eP	22 41 08.8	2.2		

1986 4 15
O=00 38 58.5 ± 0.14s
LAT=14.98 S ± 2.79km
LONG=174.02 W ± 3.32km
DEPTH= 35 km ± 0.49km
STATIONS USED = 31, STAND DEV= 2.23s
Ms=5.2/ 3,

MDJ	78.3	323	eP	00 50 57.0	−0.6		
CN2	80.4	320	eP	00 51 07.0	−1.8		
TIA	82.5	310	eP	00 51 18.3	−1.4		
			LN	Ms=5.1		21.0	0.40
			LE			21.0	0.40
BJI	84.7	314	eP	00 51 31.0	−0.2		
			PMZ			3.0	0.34
TIY	86.5	310	eP	00 51 40.0	0.0		
			pP	00 51 50.5	0.5		
			LE	Ms=5.2		17.0	0.53
GYA	87.3	298	P	00 51 47.0	3.0		
BTO	89.3	312	P	00 51 53.5	0.0		
KMI	90.3	296	eP	00 51 59.0	0.7		
CD2	91.1	302	eP	00 52 02.8	1.1		
GTA	96.5	309	eP	00 52 29.0	2.6		

1986 4 15
O=01 34 26.8 ± 0.07s
LAT=16.33 N ± 1.23km
LONG=146.86 E ± 1.70km
DEPTH= 35 km ± 0.27km
STATIONS USED = 49, STAND DEV= 1.31s
Ms=4.4/ 1,

MDJ	31.7	336	eP	01 40 48.0	−2.2		
CN2	32.9	331	eP	01 40 57.8	−2.2		
QZN	35.3	280	P	01 41 21.6	0.4		
BJI	35.6	318	eP	01 41 24.0	0.4		
XAN	38.3	305	eP	01 41 45.4	−1.0		
GYA	38.6	292	P	01 41 50.0	1.0		
BTO	40.0	315	eP	01 42 01.6	1.3		
CD2	41.8	298	eP	01 42 14.9	−0.4		
KMI	42.0	290	eP	01 42 17.5	0.2		
LZH	42.9	306	eP	01 42 24.5	0.1		
GTA	46.9	309	P	01 42 57.6	1.4		
			PcP	01 44 28.3	0.1		
			eS	01 49 43.0	−1.1		
WMQ	56.7	312	eP	01 44 09.0	−0.9		

1986 4 15
O=07 48 09.8 ± 0.08s
LAT=18.18 S ± 0.92km
LONG=177.87 W ± 0.56km
DEPTH=639 km ± 1.24km
STATIONS USED = 21, STAND DEV= 0.96s

MDJ	78.7	325	eP	07 59 09.8	0.0		
CN2	80.5	322	+P	07 59 19.3	−0.1		

GYA	85.6	300	P	07 59 45.4	0.8	
XAN	86.8	307	eP	07 59 51.0	0.7	

1986 4 15
O = 09 46 12.1 ± 0.10s
LAT = 25.65 S ± 1.00km
LONG = 177.75 W ± 0.67km
DEPTH = 232 km ± 1.21km
STATIONS USED = 23, STAND DEV = 1.01s

MDJ	84.9	325	−P	09 58 22.8	0.0	
CN2	86.5	323	+iP	09 58 30.3	−0.5	
TIA	86.9	313	eP	09 58 33.3	0.5	
GYA	89.4	300	eP	09 58 47.0	2.4	
TIY	90.9	312	P	09 58 52.0	0.6	
XAN	91.4	307	+P	09 58 54.6	0.6	
KMI	91.9	297	eP	09 58 57.5	1.2	
CD2	93.7	302	eP	09 59 06.4	1.8	

1986 4 15
O = 10 25 16.5 ± 0.14s
LAT = 12.07 N ± 2.14km
LONG = 143.96 E ± 2.35km
DEPTH = 33 km ± 0.29km
STATIONS USED = 37, STAND DEV = 1.75s

BJI	37.1	324	P	10 32 25.5	−0.5	
GYA	37.8	298	P	10 32 33.0	0.6	
XAN	38.7	310	eP	10 32 38.8	−0.3	
KMI	41.0	294	eP	10 33 00.0	1.3	
BTO	41.2	320	eP	10 32 58.3	−1.8	
CD2	41.6	303	eP	10 33 03.4	0.3	
LZH	43.3	310	eP	10 33 18.0	0.5	
			PMZ		0.8	0.020
GTA	47.5	313	P	10 33 49.8	−1.4	
WMQ	57.5	314	eP	10 35 05.0	−0.8	

1986 4 15
O = 13 15 01.7 ± 0.18s
LAT = 15.60 S ± 2.43km
LONG = 173.73 W ± 2.73km
DEPTH = 87 km ± 0.59km
STATIONS USED = 36, STAND DEV = 1.45s

CN2	81.0	320	eP	13 27 08.5	−1.0	
BJI	85.4	314	eP	13 27 31.0	−0.4	
			epP	13 27 56.5	2.7	
			eS	13 37 57.0	2.7	
			eSKS	13 37 44.0	−0.2	
TIY	87.1	310	P	13 27 41.4	1.2	
			SKS	13 38 02.5	6.6	
GYA	87.9	298	P	13 27 44.8	1.1	
XAN	88.5	306	eP	13 27 46.8	0.2	
BTO	89.9	312	eP	13 27 54.3	0.8	
			eS	13 38 44.0	6.7	
KMI	90.8	296	eP	13 28 02.0	4.2	
GTA	97.1	309	eP	13 28 26.0	−0.2	

1986 4 15
O = 18 26 17.4 ± 0.08s
LAT = 2.92 S ± 1.22km
LONG = 141.64 E ± 2.35km
DEPTH = 58 km ± 0.48km
STATIONS USED = 28, STAND DEV = 1.72s

GYA	44.7	313	eP	18 34 28.4	1.6	
SNY	47.5	342	eP	18 34 47.3	−1.5	
XAN	48.0	323	eP	18 34 55.5	2.7	
CN2	48.7	344	+P	18 34 57.0	−1.6	
CD2	49.3	316	eP	18 35 04.0	0.6	
GTA	57.0	322	P	18 36 00.0	−0.3	
WMQ	67.0	321	eP	18 37 07.4	0.3	

1986 4 15
O = 23 12 59.0 ± 0.17s
LAT = 39.52 N ± 2.18km
LONG = 75.01 E ± 2.20km
DEPTH = 16 km
STATIONS USED = 17, STAND DEV = 3.16s
M_L = 4.1 / 3,

KSH	0.8	95	+iPg	23 13 13.8	1.1	
			Sg	23 13 24.8	1.9	
			SMN	M_L = 4.9	0.5	41.1
WMQ	10.4	62	eP	23 15 30.0	−1.2	
			LG_2	23 18 37.0	−5.5	
GTA	19.1	82	eP	23 17 25.5	0.9	

1986 4 16
O = 01 31 42.9 ± 0.07s
LAT = 30.69 N ± 1.35km
LONG = 141.57 E ± 1.40km
DEPTH = 28 km ± 0.20km
STATIONS USED = 102, STAND DEV = 1.57s
Ms = 5.7 / 43, m_B = 5.7 / 14

MDJ	16.8	329	eP	01 35 36.0	−1.9	
			pP	01 35 46.5	1.7	
			S	01 38 37.5	−4.8	
SNY	18.2	312	+iP	01 35 56.0	0.1	
			PMZ		13.0	3.33
			sP	01 36 11.0	3.8	
			S	01 39 20.0	5.0	
			SMN	m_B = 5.3	8.0	1.06
			LN	Ms = 5.7	14.0	14.8
			LE		16.0	12.0

CN2	18.3	320	+iP	01 35 56.0	−0.5		
			PMZ	m_B = 5.6		8.0	2.40
			epP	01 36 05.5	2.0		
			S	01 39 16.0	−0.1		
			sS	01 39 30.0	2.2		
			LE	Ms = 5.6		14.0	14.3
DL2	18.3	302	P	01 35 57.0	0.5		
			S	01 39 22.0	5.9		
			LN	Ms = 5.7		14.0	9.90
			LE			14.0	15.5
NJ2	19.4	280	+iP	01 36 10.0	−0.2		
			sP	01 36 24.0	2.4		
			S	01 39 42.0	0.0		
			LE	Ms = 5.7		17.0	17.6
TIA	21.1	292	−P	01 36 28.0	0.2		
			eS	01 40 25.0	8.5		
			LE	Ms = 6.0		15.0	28.8
BJI	22.7	301	eP	01 36 43.5	0.3		
			ePP	01 37 06.0	−5.3		
			eS	01 40 36.0	−9.0		
			SME	m_B = 5.4		9.0	1.22
			LE	Ms = 5.8		16.0	17.2
WHN	23.4	277	eP	01 36 51.0	0.3		
			PMZ	m_B = 5.8		6.0	2.20
			PP	01 37 25.0	3.1		
			iS	01 40 56.0	−2.5		
			SMN	m_B = 5.7		10.0	2.29
			LE	Ms = 4.9		16.0	2.05
TIY	25.0	294	+P	01 37 06.0	−0.5		
			PMZ	m_B = 5.9		10.0	3.41
			pP	01 37 15.0	0.5		
			PP	01 37 48.0	4.3		
			PPMZ			6.0	2.71
			S	01 41 34.0	8.4		
			SME	m_B = 5.7		7.0	1.38
			LN	Ms = 6.2		17.0	18.1
			LE			16.0	31.8
GZH	26.2	260	+P	01 37 18.4	0.7		
			S	01 41 45.0	−0.6		
			SMN	m_B = 6.1		10.0	1.87
			SME			13.0	5.94
			LN	Ms = 5.7		16.0	5.10
			LE			19.0	10.7
BTO	27.4	300	−iP	01 37 28.0	−0.1		
			PP	01 38 15.0	0.0		
			eS	01 42 02.0	−2.8		
			LN	Ms = 6.3		15.0	18.7
			LE			15.0	32.4
XAN	27.7	286	+P	01 37 30.0	−1.3		
			ipP	01 37 42.3	2.8		
			cPP	01 38 25.0	5.4		
			eS	01 42 08.3	−2.2		
			SS	01 43 35.0	5.2		
			LN	Ms = 5.7		13.0	4.00
			LE			14.0	6.69
GYA	30.9	271	P	01 38 00.0	0.5		
			S	01 43 00.0	0.3		
			SS	01 44 47.0	3.6		
			LN	Ms = 5.8		18.0	7.80
			LE			18.0	10.1
QZN	30.9	255	P	01 38 01.0	1.0		
			PMZ	m_B = 5.5		9.0	0.80
			cPP	01 39 03.0	1.6		
			S	01 42 59.0	−1.7		
			SS	01 44 43.5	−1.5		
			LN	Ms = 5.5		16.0	4.50
			LE			16.0	2.10
LZH	31.8	290	+P	01 38 07.0	−1.0		
			S	01 43 12.0	−2.6		
			LN	Ms = 5.7		15.0	8.37
CD2	32.4	280	eP	01 38 12.0	−0.8		
			PP	01 39 21.0	0.8		
			S	01 43 23.0	−0.4		
			LN	Ms = 5.9		15.0	11.8
KMI	34.6	271	+P	01 38 32.0	−0.5		
			PP	01 39 56.0	7.2		
			eS	01 44 03.0	3.2		
			LN	Ms = 5.6		14.0	4.50
GTA	35.0	296	+P	01 38 34.8	−0.8		
			PP	01 39 51.8	−1.9		
			S	01 44 00.8	−3.5		
			LE	Ms = 5.1		15.0	1.65
LSA	43.3	282	eP	01 39 44.5	−0.3		
			PP	01 41 23.0	−4.1		
			PcS	01 45 23.0	−1.1		
			LE	Ms = 5.8		18.0	6.41
WMQ	44.1	303	+iP	01 39 51.5	0.4		
			PMZ			2.0	0.64
			PP	01 41 32.0	−3.2		
			eS	01 46 25.5	3.6		
			ScS	01 49 48.0	3.7		
			LE	Ms = 5.9		24.0	10.5
KSH	53.3	298	+iP	01 41 07.4	4.9		
			PP	01 43 07.8	4.3		
			PcS	01 46 09.8	3.4		
			eS	01 48 35.8	4.4		
			LE	Ms = 5.8		19.0	5.50

1986 4 16
O = 06 15 23.5 ± 0.08s

LAT= 5.61 S ± 1.11km
LONG=130.87 E ± 1.62km
DEPTH= 78 km ± 0.19km
STATIONS USED = 26, STAND DEV= 1.61s

GYA	39.6	325	P	06 22 50.0	0.7
XAN	44.6	334	eP	06 23 31.8	1.9
CN2	49.4	355	+P	06 24 08.0	0.0
LSA	51.8	315	eP	06 24 26.0	−0.6
GTA	53.2	330	P	06 24 36.6	0.0
WMQ	62.7	326	eP	06 25 43.5	0.2

1986 4 16
O=06 53 49.4 ± 0.07s
LAT=41.18 N ± 0.44km
LONG=140.34 E ± 0.73km
DEPTH=180 km ± 0.83km
STATIONS USED = 29, STAND DEV= 1.01s

CN2	11.3	288	eP	06 56 26.4	−0.4
SNY	12.6	278	eP	06 56 44.8	1.5
TIA	18.8	262	eP	06 57 56.3	−1.1
TIY	21.8	270	P	06 58 27.4	−0.4
XAN	25.8	264	+P	06 59 04.8	−1.0
WMQ	38.4	292	eP	07 00 56.0	0.9

1986 4 16
O=07 11 36.5 ± 0.16s
LAT= 9.90 N ± 2.66km
LONG=126.29 E ± 3.67km
DEPTH= 28 km ± 0.56km
STATIONS USED = 25, STAND DEV= 2.54s

SSE	21.6	348	eP	07 16 27.0	0.5
			esS	07 20 28.0	−4.4
NJ2	23.1	344	−P	07 16 41.8	0.6
GYA	24.8	314	P	07 17 00.8	2.7
XAN	28.8	329	+P	07 17 32.5	−2.4
SNY	31.9	356	eP	07 18 10.3	8.3
LZH	33.1	325	eP	07 18 11.5	−1.2
GTA	37.7	326	P	07 18 50.6	−1.3

1986 4 16
O=12 52 15.0 ± 0.06s
LAT=43.97 N ± 1.41km
LONG=147.58 E ± 1.13km
DEPTH= 22 km ± 0.26km
STATIONS USED = 99, STAND DEV= 1.05s
Ms=6.3/45, m_B=6.6/41

MDJ	12.9	279	cP	12 55 20.6	0.3		
			PMZ	m_B=6.6		6.2	7.24
			pP	12 55 29.0	2.8		
			PP	12 55 31.0	0.6		
			S	12 57 42.5	−1.4		
			SS	12 57 59.0	0.1		
			ScS	13 07 59.0	0.0		
CN2	16.0	277	+iP	12 55 58.5	−1.7		
			PMZ	m_B=6.0		5.0	3.30
			pP	12 56 07.5	1.3		
			PP	12 56 12.0	−0.6		
			S	12 58 51.0	−5.0		
			SMN	m_B=5.8		7.0	3.40
			SME			7.0	1.90
			sS	12 59 04.0	−2.4		
			LE	Ms=6.3		18.0	120
SNY	17.7	271	+iP	12 56 21.0	−1.2		
			PMZ	m_B=6.1		8.0	7.72
			pP	12 56 32.0	3.6		
			iS	12 59 33.0	−3.7		
			SMN	m_B=5.8		8.5	2.98
			SME			6.0	2.32
			sS	12 59 46.5	−0.3		
			SS	12 59 58.0	−0.3		
			LN	Ms=6.3		15.0	41.1
			LE			18.0	84.2
DL2	20.1	264	+iP	12 56 50.0	−0.1		
			PMZ	m_B=6.2		6.0	7.52
			pP	12 56 56.0	−0.9		
			S	13 00 25.0	−4.0		
			LE	Ms=6.2		18.0	67.3
BJI	23.6	271	+iP	12 57 25.0	−0.4		
			pP	12 57 36.0	3.4		
			eS	13 01 31.0	−4.2		
			SMN	m_B=6.7		6.0	4.65
			SME			5.0	11.5
			LN	Ms=6.1		14.0	31.7
SSE	24.4	247	−iP	12 57 35.0	1.3		
			PMZ			1.2	1.75
			PP	12 58 08.0	−0.9		
			S	13 01 44.0	−5.2		
			sS	13 02 06.0	4.3		
			SS	13 02 39.0	−4.5		
			ScP	13 04 51.0	2.1		
			ScS	13 08 37.0	1.8		
			LE	Ms=6.0		12.0	19.5
TIA	24.5	262	+P	12 57 34.5	0.6		
			PMZ	m_B=6.5		9.0	17.3
			S	13 01 53.0	3.6		
			SMN	m_B=6.8		11.0	10.8
			SME			10.0	32.1
			LN	Ms=6.3		14.0	7.75
			LE			17.0	48.6
NJ2	25.4	252	+iP	12 57 43.5	0.2		

			PMZ		$m_B=6.9$		6.0	16.9
			iS	13 02	11.0	4.3		
			SMN		$m_B=6.5$		7.0	10.3
			LE		Ms=6.3		15.0	48.5
TIY	27.2	269	+iP	12 58	00.5	1.1		
			PMZ		$m_B=6.8$		8.0	16.7
			iS	13 02	37.5	2.2		
			SMN		$m_B=6.9$		6.5	14.2
			SME				8.0	14.7
			SS	13 03	43.0	−6.8		
			LN		Ms=6.2		18.5	21.1
			LE				16.5	24.9
BTO	27.8	276	−iP	12 58	05.5	0.0		
			PMZ		$m_B=6.6$		7.0	9.60
			pP	12 58	17.0	4.4		
			PP	12 58	54.0	0.0		
			iS	13 02	45.0	−1.1		
			SMN		$m_B=6.8$		10.0	10.9
			SME				10.0	21.2
			SS	13 04	10.0	4.2		
			ScS	13 08	46.0	−3.6		
			LN		Ms=6.4		14.0	29.6
			LE				14.0	35.1
WHN	29.4	254	+iP	12 58	19.5	−0.2		
			iS	13 03	08.0	−3.5		
			SMN		$m_B=6.0$		10.0	3.70
			LE		Ms=6.4		16.0	50.5
XAN	31.4	265	+iP	12 58	36.3	−0.8		
			PMZ		$m_B=6.5$		6.0	4.73
			PP	12 59	44.0	3.8		
			iS	13 03	39.5	−2.9		
			LN		Ms=6.3		19.0	19.5
			LE				16.0	31.4
LZH	34.1	272	+iP	12 59	01.0	0.4		
			PMZ				2.0	3.80
			pP	12 59	10.0	2.1		
			sP	12 59	16.0	4.8		
			PP	13 00	19.0	4.9		
			S	13 04	18.0	−5.3		
			SMN		$m_B=6.5$		8.0	7.55
			sS	13 04	32.0	−4.5		
			SS	13 06	38.0	6.5		
			LN		Ms=6.5		17.0	25.0
			LE				16.0	36.0
GZH	35.0	245	+iP	12 59	08.0	−0.1		
			PMZ		$m_B=6.7$		6.0	7.56
			PP	13 00	28.0	2.2		
			S	13 04	36.0	−1.2		
			LN		Ms=6.4		18.5	38.4
			LE				14.0	10.2
GTA	35.6	280	+iP	12 59	13.8	0.4		
			PMZ		$m_B=6.6$		6.0	7.09
			pP	12 59	25.0	4.4		
			iPP	13 00	38.0	5.0		
			iS	13 04	44.0	−3.5		
			SME				26.0	17.5
			SS	13 07	10.0	3.9		
			LE		Ms=6.4		13.0	27.1
CD2	36.7	264	+iP	12 59	23.8	0.6		
			PMZ				1.0	0.76
			pP	12 59	34.0	3.5		
			PP	13 00	45.0	−3.0		
			iS	13 04	57.3	−8.1		
			LE		Ms=6.4		14.0	26.5
GYA	37.3	256	+P	12 59	27.0	−0.8		
			PMZ				1.2	0.25
			pP	12 59	39.0	3.9		
			PP	13 00	58.0	3.3		
			PcP	13 01	47.0	0.4		
			S	13 05	08.0	−4.6		
			ScP	13 05	30.0	−1.1		
			PcS	13 05	34.0	0.2		
			SS	13 07	37.0	−7.2		
			ScS	13 09	36.0	−1.6		
			LN		Ms=6.4		14.0	12.3
			LE				14.0	24.7
QZN	40.1	244	+iP	12 59	53.0	1.4		
			PMZ		$m_B=6.6$		6.0	5.50
			PP	13 01	31.0	3.2		
			PPMZ				6.0	3.95
			S	13 05	57.0	1.0		
			SMN		$m_B=6.2$		10.0	2.80
			SME				8.0	2.50
			LN		Ms=6.2		16.0	11.1
			LE				16.0	12.8
KMI	40.9	258	+iP	12 59	57.0	−0.8		
			PMZ		$m_B=6.8$		6.0	9.80
			pP	13 00	10.0	5.0		
			PP	13 01	34.0	−0.8		
			iS	13 06	01.0	−7.2		
			SS	13 08	57.0	−7.0		
			LN		Ms=6.4		15.0	24.2
WMQ	42.3	292	+iP	13 00	10.0	0.6		
			PMZ		$m_B=6.9$		5.0	10.2
			pP	13 00	19.0	2.2		
			PcP	13 02	00.0	−2.7		
			PcS	13 05	54.0	0.7		
			S	13 06	27.0	−1.0		
			SMN		$m_B=6.3$		8.0	3.94
			sS	13 06	44.0	2.6		

			LE		Ms=7.2	14.0	128	
LSA	46.5	272	+iP	13 00	43.8	0.3		
			PMZ		m_B=6.6	6.0	4.92	
			PP	13 02	33.5	1.9		
			S	13 07	25.5	−3.0		
			LE		Ms=6.3	18.0	21.3	
KSH	52.1	291	+iP	13 01	28.0	1.7		
			PP	13 03	30.0	5.7		
			PcS	13 06	38.0	3.9		
			iS	13 08	49.0	0.9		
			SME		m_B=6.5	6.0	3.37	
			LN		Ms=7.1	16.0	90.8	

1986 4 16
O=18 55 29.8 ± 0.07s
LAT=30.80 N ± 1.32km
LONG=141.51 E ± 1.28km
DEPTH= 26 km ± 0.21km
STATIONS USED = 92, STAND DEV= 1.18s
Ms=5.1/31, m_B=5.4/ 6

MDJ	16.7	329	−P	18 59	23.5	−0.1		
			S	19 02	24.0	−2.7		
			sS	19 02	41.5	3.7		
			SS	19 02	47.0	0.2		
SSE	17.4	276	+P	18 59	35.5	2.4		
			PMZ		m_B=5.4	8.0	1.35	
			eS	19 02	47.0	2.3		
			LN		Ms=4.7	14.0	1.75	
SNY	18.1	312	+P	18 59	40.0	−1.7		
			PMZ		m_B=5.1	10.0	0.90	
			pP	18 59	53.0	4.6		
			PP	18 59	58.0	1.8		
			eS	19 02	58.0	−2.3		
			LN		Ms=5.0	14.0	3.07	
			LE			15.0	2.34	
CN2	18.2	320	+iP	18 59	42.0	−0.2		
			eS	19 03	03.5	2.2		
			LE		Ms=4.9	14.0	3.20	
DL2	18.2	302	eP	18 59	44.0	1.6		
			eS	19 03	00.0	−1.7		
			LN		Ms=5.1	16.0	5.06	
NJ2	19.4	280	+P	18 59	56.0	−0.6		
			LN		Ms=5.0	12.0	2.20	
			LE			15.0	2.60	
TIA	21.0	291	eP	19 00	14.4	0.2		
			LN		Ms=5.7	14.0	1.65	
			LE			14.0	13.6	
BJI	22.5	301	eP	19 00	29.5	0.1		
			eS	19 04	26.0	−4.5		
			SME		m_B=5.0	9.0	0.52	
			LN		Ms=5.0	19.0	3.14	
WHN	23.3	276	eP	19 00	38.0	0.7		
			PMZ		m_B=5.4	4.0	0.65	
			eS	19 04	41.0	−3.8		
			LE		Ms=5.2	16.0	4.72	
TIY	24.9	294	−iP	19 00	53.3	0.5		
			PP	19 01	34.0	4.5		
			S	19 05	07.0	−4.4		
			LN		Ms=5.3	15.0	1.54	
			LE			16.5	4.21	
GZH	26.2	260	eP	19 01	04.0	−0.7		
			eS	19 05	30.0	−3.2		
BTO	27.3	300	−P	19 01	14.0	−0.4		
			eS	19 05	48.0	−2.6		
			LN		Ms=5.6	15.0	4.10	
			LE			15.0	7.60	
XAN	27.6	285	P	19 01	16.6	−1.2		
			PP	19 02	13.0	7.3		
			eS	19 05	55.6	−1.0		
			LN		Ms=5.0	12.0	1.00	
			LE			13.0	1.43	
GYA	30.8	271	P	19 01	45.0	−1.3		
			S	19 06	46.4	0.2		
			LE		Ms=5.0	15.0	1.50	
QZN	30.9	255	eP	19 01	45.0	−2.0		
			ePcP	19 04	45.0	2.2		
			LE		Ms=5.0	18.0	2.00	
LZH	31.7	290	−P	19 01	54.0	−0.5		
			PMZ			1.5	0.070	
			eS	19 07	09.0	7.2		
			LN		Ms=5.2	14.0	1.40	
			LE			15.0	1.57	
CD2	32.3	280	eP	19 01	58.5	−0.9		
			PP	19 03	10.0	3.6		
			S	19 07	09.0	−0.6		
			LN		Ms=5.4	15.0	3.83	
KMI	34.6	270	eP	19 02	18.0	−1.3		
			eS	19 07	42.0	−4.4		
			LN		Ms=5.0	16.0	1.30	
GTA	34.9	296	+P	19 02	21.0	−1.1		
			ePP	19 03	30.6	−8.9		
			LE		Ms=5.3	15.0	2.89	
LSA	43.2	282	eP	19 03	30.8	−0.7		
WMQ	44.0	303	eP	19 03	38.0	0.5		
			PP	19 05	19.0	−2.3		
			PcS	19 09	13.5	−0.8		
			S	19 10	08.8	2.2		
			LE		Ms=5.3	25.0	2.63	
KSH	53.2	298	+P	19 04	51.5	2.4		
			eS	19 12	26.5	9.0		

		LE	Ms=5.5		12.0	1.60	

1986 4 16
O=19 56 51.6 ± 0.15s
LAT= 5.07 S ± 2.25km
LONG=104.08 E ± 3.91km
DEPTH= 75 km
STATIONS USED = 12, STAND DEV= 2.71s

XAN	39.2	6	eP	20 04 12.6	−1.5		
GTA	44.4	355	P	20 04 56.4	−1.0		
CN2	52.3	19	(P)	20 05 55.6	−2.8		

1986 4 16
O=20 21 23.2 ± 0.09s
LAT=14.87 S ± 1.03km
LONG=167.35 E ± 0.89km
DEPTH=189 km ± 1.33km
STATIONS USED = 16, STAND DEV= 1.42s

MDJ	68.4	332	eP	20 32 04.5	−2.8		
CN2	69.8	329	eP	20 32 15.3	−0.4		
GYA	71.9	305	P	20 32 29.0	0.9		
XAN	73.8	313	P	20 32 40.0	0.3		
GTA	82.8	314	P	20 33 30.4	1.8		

1986 4 17
O=01 42 51.2 ± 0.31s
LAT=22.22 N ± 3.25km
LONG=101.24 E ± 2.34km
DEPTH= 16 km ± 0.44km
STATIONS USED = 23, STAND DEV= 2.65s
Ms=4.4/ 6, M_L=4.3/ 4,

KMI	3.2	25	ePn	01 43 41.5	−0.1		
			Pg	01 43 51.0	3.3		
			Sn	01 44 18.0	−3.1		
			Sg	01 44 28.0	−3.5		
			SMN	M_L=4.3		1.5	0.70
			SME			1.0	1.30
			LE	Ms=4.3		8.0	6.70
GYA	6.5	48	Pn	01 44 26.8	−0.1		
			Pg	01 44 53.8	7.8		
			Sn	01 45 39.0	−3.9		
			Sg	01 46 14.0	−0.9		
			LE	Ms=4.5		5.0	2.30
QZN	8.7	110	eP	01 44 59.4	0.3		
			S	01 46 34.3	−3.0		
			LN	Ms=4.3		8.0	1.30
			LE			8.0	0.70
CD2	8.9	14	(P)	01 45 08.0	5.0		
			LE	Ms=4.8		9.0	4.34
XAN	13.6	28	eP	01 46 03.5	−2.5		
			LN	Ms=4.6		11.0	1.26
			LE			11.0	1.26
GTA	17.2	356	P	01 46 53.8	1.1		
			LE	Ms=4.1		8.0	0.29
WMQ	24.3	336	eP	01 48 12.5	3.2		

1986 4 17
O=03 36 18.0 ± 0.90s
LAT=22.48 N ± 4.10km
LONG=101.37 E ± 2.55km
DEPTH= 9 km ± 5.38km
STATIONS USED = 7, STAND DEV= 3.75s
M_L=3.8/ 3,

GYA	6.2	50	cPn	03 37 48.0	−2.8		
			Pg	03 38 15.8	7.7		
			Sg	03 39 43.0	9.6		
			SMN	M_L=3.8		1.2	0.050
			SME			1.2	0.060

1986 4 17
O=07 25 27.7 ± 0.26s
LAT=20.88 S ± 2.49km
LONG= 68.82 W ± 4.13km
DEPTH=104 km ± 2.04km
STATIONS USED = 19, STAND DEV= 3.85s

KSH	144.7	51	ePKP	07 44 55.0	1.6		
WMQ	149.9	35	PKP	07 45 08.5	6.5		
XAN	166.7	8	ePKP	07 45 16.8	−5.0		

1986 4 17
O=10 05 53.1 ± 0.09s
LAT= 0.92 S ± 1.58km
LONG= 99.85 E ± 1.66km
DEPTH= 83 km ± 0.29km
STATIONS USED = 82, STAND DEV= 1.01s
Ms=4.6/10,

QZN	22.1	26	eP	10 10 41.0	−2.1		
			pP	10 11 00.0	−0.9		
			PP	10 11 14.0	1.3		
			eS	10 14 39.0	2.1		
			SS	10 15 22.0	0.7		
			LE	Ms=4.2		11.0	0.35
KMI	26.0	6	eP	10 11 20.0	−1.0		
GYA	28.0	13	P	10 11 37.6	−1.2		
			pP	10 11 54.8	−2.4		
			S	10 16 14.0	−0.8		
			LN	Ms=5.1		8.0	1.00
			LE			8.0	0.60
LSA	31.6	345	+iP	10 12 10.3	−0.4		
CD2	31.9	6	eP	10 12 11.8	−1.2		

			S	10 17 20.0	4.0			
WHN	34.2	23	eP	10 12 33.0	0.0			
XAN	35.8	13	+iP	10 12 45.0	−1.8			
			eS	10 18 16.8	−1.0			
			sS	10 18 47.0	−4.0			
LZH	37.0	5	P	10 12 56.5	−0.5			
			LN	Ms=4.5		20.0	0.48	
NJ2	37.4	27	−P	10 13 01.0	0.8			
SSE	37.7	31	−P	10 13 04.3	1.3			
			PMZ			1.0	0.080	
			pP	10 13 19.6	−2.8			
			eS	10 18 48.0	0.8			
			LN	Ms=4.7		16.0	0.59	
GTA	40.1	360	+iP	10 13 22.8	−0.2			
			LN	Ms=4.6		11.0	0.29	
TIY	40.2	16	eP	10 13 22.4	−0.8			
			(S)	10 19 19.5	−4.4			
			LN	Ms=4.4		10.0	0.12	
			LE			15.0	0.19	
TIA	40.3	22	eP	10 13 24.0	−0.1			
BTO	42.4	12	−iP	10 13 41.8	0.6			
BJI	43.4	18	eP	10 13 50.0	0.3			
KSH	45.8	334	eP	10 14 09.9	1.3			
			pP	10 14 27.9	−0.2			
WMQ	45.9	348	+iP	10 14 10.1	0.7			
			sP	10 14 39.5	0.7			
			PcP	10 15 43.0	−2.1			
			ScP	10 19 34.5	5.5			
			S	10 20 51.8	6.1			
			SME			2.5	0.080	
SNY	47.7	24	−iP	10 14 23.4	−0.1			
CN2	50.1	24	+iP	10 14 41.0	−1.0			
			epP	10 14 58.5	−3.4			
			PcP	10 16 00.4	0.2			
			eS	10 21 45.0	−0.9			
			esS	10 22 16.0	−4.6			
MDJ	52.5	27	eP	10 15 00.0	−0.4			

1986 4 17
O=12 58 39.5 ± 0.16s
LAT=28.66 N ± 2.38km
LONG=140.91 E ± 2.53km
DEPTH= 32 km ± 0.36km
STATIONS USED = 56, STAND DEV= 2.03s
Ms=4.7/21, m_B=5.6/24

SSE	17.3	283	−iP	13 02 40.0	0.0			
			PMZ	m_B=5.4		8.0	1.42	
			sS	13 05 59.0	−2.4			
			SS	13 06 10.0	−0.6			
			LN	Ms=4.5		10.0	0.62	
			LE			10.0	0.74	
MDJ	18.3	334	eP	13 02 49.5	−3.4			
DL2	19.0	308	P	13 03 02.5	1.4			
			PMZ	m_B=5.6		6.0	1.79	
			sP	13 03 15.5	2.4			
			LN	Ms=4.7		10.0	1.01	
			LE			7.0	0.55	
SNY	19.3	318	−P	13 03 04.6	0.2			
			PMZ	m_B=5.6		5.0	1.59	
			LN	Ms=4.7		10.0	0.89	
			LE			10.0	0.96	
NJ2	19.3	286	−iP	13 03 04.5	−0.5			
			PMZ	m_B=5.9		5.5	3.50	
			sP	13 03 19.0	1.8			
			iS	13 06 44.0	8.0			
			SMN	m_B=5.9		7.5	4.00	
			LN	Ms=4.9		11.0	2.20	
CN2	19.5	325	−P	13 03 07.0	−0.4			
			PMZ	m_B=5.4		4.5	0.80	
			eS	13 06 39.0	−2.1			
			LN	Ms=4.8		10.0	1.50	
TIA	21.4	297	eP	13 03 25.3	−1.7			
			PMZ	m_B=5.6		6.0	1.85	
			sP	13 03 39.0	−0.7			
			eS	13 07 18.5	0.5			
			SMN	m_B=5.7		7.0	0.54	
			SME			7.0	1.84	
			LE	Ms=4.7		11.0	1.00	
WHN	23.2	281	P	13 03 45.0	0.7			
			PMZ	m_B=5.8		5.8	2.52	
			PP	13 04 15.0	0.4			
			S	13 07 54.0	4.9			
			SMN	m_B=5.8		7.0	1.95	
			LN	Ms=4.9		10.0	1.29	
BJI	23.3	306	eP	13 03 44.0	−1.6			
			esP	13 03 59.0	0.6			
			eS	13 08 00.0	7.8			
			SMN	m_B=5.7		7.0	1.50	
			SME			10.0	1.26	
GZH	25.4	264	P	13 04 06.0	0.2			
			PMZ	m_B=5.7		6.0	1.09	
TIY	25.4	298	eP	13 04 06.3	0.2			
			PMZ	m_B=6.1		5.0	2.30	
			PP	13 04 48.5	3.7			
			S	13 08 36.0	8.4			
			LE	Ms=4.4		11.0	0.44	
XAN	27.8	289	P	13 04 26.0	−1.9			
			S	13 09 10.0	3.8			
			LN	Ms=4.6		11.0	0.59	
BTO	27.9	303	P	13 04 29.0	−0.4			

			eS	13 09 09.0	−0.8		
QZN	29.9	258	P	13 04 48.0	1.0		
			S	13 09 45.5	5.2		
			LN	Ms=4.7		10.0	0.41
			LE			10.0	0.33
GYA	30.4	274	P	13 04 52.8	1.5		
			S	13 09 56.0	8.2		
LZH	32.0	293	P	13 05 05.5	−0.4		
			PMZ	m_B=5.3		4.5	0.21
			S	13 10 13.0	−0.6		
			SMN	m_B=5.1		7.0	0.28
			LN	Ms=4.2		13.0	0.23
CD2	32.2	283	eP	13 05 07.1	−0.4		
			S	13 10 22.0	5.3		
			LN	Ms=5.1		8.0	1.04
GTA	35.4	299	P	13 05 34.0	−1.2		
			ePP	13 06 49.3	−5.7		
			S	13 11 06.5	0.0		
			LN	Ms=4.7		10.0	0.45
LSA	43.2	284	eP	13 06 40.0	0.0		
			PMZ	m_B=5.7		5.0	0.60
			PP	13 08 21.5	−0.7		
			eS	13 13 07.0	2.2		
WMQ	44.8	305	eP	13 06 50.8	−1.5		
			ePP	13 08 39.0	1.2		
			S	13 13 29.0	3.2		
			SMN	m_B=5.5		7.0	0.53
KSH	53.8	300	eP	13 08 03.8	1.6		
			LE	Ms=5.8		6.0	1.72

1986 4 17
O=13 15 57.3 ± 0.08s
LAT=24.52 N ± 1.43km
LONG= 94.63 E ± 1.14km
DEPTH= 88 km ± 0.62km
STATIONS USED = 72, STAND DEV= 1.68s
Ms=4.4/ 6, m_B=5.6/ 2

LSA	6.0	330	+P	13 17 26.9	0.8		
			S	13 18 33.3	−0.4		
			LE			2.0	2.30
KMI	7.4	84	+P	13 17 48.0	3.2		
			PMZ			2.0	0.70
			S	13 19 12.5	5.1		
CD2	10.3	50	eP	13 18 24.3	0.3		
GYA	11.0	77	P	13 18 34.4	0.2		
LZH	14.0	32	P	13 19 12.0	−1.2		
QZN	15.1	108	P	13 19 29.0	1.2		
			ePP	13 19 44.0	1.7		
			eS	13 22 13.5	−0.2		
GTA	15.5	15	P	13 19 29.5	−2.7		
			ScP	13 27 55.3	0.0		
			ScS	13 31 32.6	0.1		
			LE	Ms=4.3		10.0	0.66
XAN	15.7	49	eP	13 19 33.8	−0.5		
			sP	13 20 02.6	2.4		
			eS	13 22 20.0	−5.4		
GZH	17.2	91	eP	13 19 53.0	−0.3		
WHN	18.5	67	P	13 20 08.5	−0.4		
			sP	13 20 38.0	2.1		
			eS	13 23 32.0	3.2		
			LE	Ms=4.5		10.0	0.83
WMQ	20.1	345	−iP	13 20 27.5	1.1		
			PMZ			1.5	0.26
			pP	13 20 46.0	2.5		
			sP	13 20 56.5	1.3		
			S	13 24 06.0	4.4		
			sS	13 24 32.0	4.3		
TIY	20.1	45	eP	13 20 22.0	−4.5		
			S	13 23 58.0	−3.8		
			LN	Ms=4.4		11.0	0.38
			LE			7.0	0.29
BTO	20.6	35	eP	13 20 29.5	−2.0		
HHC	21.6	37	P	13 20 39.0	−2.6		
KSH	21.7	318	P	13 20 45.8	3.3		
NJ2	22.6	65	+P	13 20 53.0	1.7		
BJI	23.8	44	P	13 21 03.0	−0.2		
SSE	24.4	68	+P	13 21 09.5	1.1		
			PMZ			1.2	0.070
			pP	13 21 30.0	2.4		

1986 4 17
O=16 05 23.8 ± 0.06s
LAT=42.31 N ± 1.65km
LONG=143.07 E ± 1.30km
DEPTH= 71 km ± 0.77km
STATIONS USED = 57, STAND DEV= 1.83s

MDJ	10.1	288	eP	16 07 48.9	0.9		
CN2	13.0	283	−P	16 08 28.4	1.4		
SNY	14.5	275	eP	16 08 48.8	2.1		
BJI	20.3	273	P	16 09 54.0	−2.9		
SSE	20.7	244	eP	16 10 00.5	−0.6		
TIA	20.9	262	eP	16 10 00.0	−3.2		
NJ2	21.8	250	eP	16 10 12.0	0.6		
TIY	23.8	269	eP	16 10 32.8	1.2		
BTO	24.7	277	eP	16 10 41.3	0.8		
WHN	25.8	252	eP	16 10 51.0	0.8		
XAN	27.9	264	eP	16 11 09.3	−0.7		
LZH	30.8	272	eP	16 11 36.0	0.2		
GTA	32.6	280	P	16 11 50.8	−0.3		
CD2	33.3	263	eP	16 11 56.4	−0.6		

GYA	33.7	254	P	16 12 00.8	0.4	
KMI	37.3	256	eP	16 12 31.5	0.3	
WMQ	39.8	292	+P	16 12 52.5	0.1	

1986 4 18
O=01 23 58.3 ± 0.09s
LAT=42.12 N ± 2.23km
LONG=142.60 E ± 1.45km
DEPTH= 81 km ± 0.94km
STATIONS USED = 54, STAND DEV= 1.83s
Ms=3.7/ 2,

SNY	14.2	275	eP	01 27 17.5	1.1		
DL2	16.3	266	eP	01 27 45.6	2.3		
BJI	20.0	273	eP	01 28 25.0	−2.2		
SSE	20.4	244	eP	01 28 28.5	−2.2		
			eS	01 32 13.0	3.4		
			LE	Ms=3.9		16.0	0.29
NJ2	21.4	250	eP	01 28 41.6	0.5		
WHN	25.4	252	eP	01 29 19.9	−0.3		
XAN	27.6	264	eP	01 29 40.1	−0.2		
LZH	30.5	272	eP	01 30 04.0	−2.3		
GTA	32.3	280	P	01 30 21.6	−0.4		
GYA	33.3	254	P	01 30 31.6	1.0		
WMQ	39.6	292	P	01 31 24.4	0.5		

1986 4 18
O=03 19 39.4 ± 0.29s
LAT=22.77 S ± 3.15km
LONG= 68.74 W ± 4.96km
DEPTH=106 km ± 2.08km
STATIONS USED = 31, STAND DEV= 3.02s

WMQ	151.4	37	PKP	03 39 21.4	5.7
MDJ	153.5	330	ePKP	03 39 25.3	6.7
BJI	162.3	348	ePKP	03 39 30.0	0.9
LZH	165.2	24	ePKP	03 39 34.0	1.7
SSE	167.9	315	ePKP	03 39 35.0	1.0
XAN	168.6	10	ePKP	03 39 35.4	0.9
CD2	169.5	38	PKP	03 39 36.9	1.9

1986 4 18
O=08 08 39.6 ± 0.10s
LAT= 6.00 S ± 1.40km
LONG=131.65 E ± 2.31km
DEPTH= 53 km ± 0.47km
STATIONS USED = 72, STAND DEV= 1.29s
m_B=5.2/ 2

QZN	32.9	320	eP	08 15 16.8	5.8		
			S	08 20 22.0	−0.4		
SSE	38.2	345	eP	08 15 57.5	1.1		
			sP	08 16 15.0	−0.2		
NJ2	39.8	343	+P	08 16 10.5	1.3		
			S	08 22 08.0	0.0		
			SME	m_B=5.3		6.0	0.30
WHN	39.9	336	P	08 16 12.5	1.8		
GYA	40.3	324	−P	08 16 15.0	0.8		
			S	08 22 17.0	0.2		
KMI	41.8	319	eP	08 16 27.0	0.6		
TIA	44.1	343	eP	08 16 44.3	−0.9		
XAN	45.3	333	eP	08 16 53.4	−0.7		
			pP	08 17 10.5	3.2		
			S	08 23 23.0	−5.6		
CD2	45.4	326	eP	08 16 54.0	−1.1		
TIY	47.0	339	eP	08 17 08.3	0.1		
BJI	48.0	344	eP	08 17 14.5	−1.1		
SNY	48.2	352	eP	08 17 16.4	−0.6		
LZH	49.3	330	P	08 17 27.0	0.9		
			PMZ			1.4	0.040
			eS	08 24 19.0	−8.5		
CN2	49.9	354	eP	08 17 29.4	−0.9		
MDJ	50.4	358	eP	08 17 33.6	−0.7		
BTO	50.5	339	eP	08 17 34.6	−0.1		
LSA	52.6	315	P	08 17 50.4	−1.1		
GTA	53.9	330	P	08 17 59.8	−0.9		
WMQ	63.5	326	eP	08 19 06.5	−0.6		
			PMZ			1.2	0.12
			(S)	08 27 32.0	−2.5		

1986 4 18
O=23 52 20.4 ± 0.08s
LAT=28.59 N ± 1.87km
LONG=142.66 E ± 1.82km
DEPTH= 39 km ± 0.57km
STATIONS USED = 52, STAND DEV= 1.48s
Ms=4.5/ 12, m_B=5.1/ 3

SSE	18.8	283	eP	23 56 39.5	0.2		
			eS	23 59 59.0	−4.9		
			sS	24 00 16.0	−1.4		
			LN	Ms=4.0		12.0	0.26
MDJ	19.1	330	eP	23 56 40.0	−2.7		
			S	24 00 00.0	−9.8		
SNY	20.4	315	eP	23 56 56.5	−0.1		
CN2	20.5	322	P	23 56 56.4	−1.7		
			eS	24 00 32.0	−8.5		
			LN	Ms=4.7		15.0	1.60
NJ2	20.8	285	+P	23 57 00.0	−1.4		
TIA	22.8	296	eP	23 57 20.4	−0.9		
			LE	Ms=4.6		13.0	0.84
BJI	24.6	305	eP	23 57 36.0	−2.4		
WHN	24.7	281	eP	23 57 39.0	−0.3		
			eS	24 01 56.0	0.3		

			SME		$m_B = 5.2$	9.0	0.60
			LN		Ms = 4.4	13.0	0.51
TIY	26.8	298	eP	23 57 59.3	0.0		
			(S)	24 02 27.5	−3.4		
			LE		Ms = 4.5	15.0	0.57
XAN	29.2	289	eP	23 58 19.5	−1.9		
BTO	29.3	303	eP	23 58 20.0	−1.5		
GYA	31.9	275	P	23 58 44.8	−0.3		
			S	24 03 49.0	−2.4		
LZH	33.5	293	eP	23 58 56.0	−2.6		
CD2	33.7	284	eP	23 59 00.0	−0.8		
			LN		Ms = 5.0	15.0	1.24
KMI	35.7	274	eP	23 59 18.0	0.4		
			pP	23 59 29.0	1.4		
			eS	24 04 46.0	−4.9		
GTA	36.8	298	+P	23 59 26.3	−0.9		
WMQ	46.1	305	P	24 00 43.0	0.1		

1986 4 19
O = 00 27 18.8 ± 0.23s
LAT = 46.90 N ± 3.32km
LONG = 153.93 E ± 2.65km
DEPTH = 37 km
STATIONS USED = 18, STAND DEV = 2.02s
Ms = 4.2 / 4,

MDJ	17.1	271	eP	00 31 20.5	3.3		
CN2	20.2	272	eP	00 31 51.0	−2.6		
SNY	22.2	268	eP	00 32 13.8	−0.1		
XAN	36.1	266	eP	00 34 19.8	0.2		
CD2	41.5	266	P	00 35 04.9	0.6		
GYA	42.3	258	P	00 35 11.0	−0.3		

1986 4 19
O = 02 18 04.7 ± 0.16s
LAT = 24.73 N ± 1.03km
LONG = 122.78 E ± 2.00km
DEPTH = 16 km
STATIONS USED = 9, STAND DEV = 2.95s
Ms = 4.2 / 4,

QZH	3.8	274	ePn	02 19 02.5	−0.7		
			eSn	02 19 54.0	4.3		
			LN		Ms = 3.8	11.0	2.01
			LE			11.0	1.75
GYA	14.6	280	eP	02 21 38.0	4.4		
			eS	02 24 19.0	2.3		
			LN		Ms = 4.5	8.0	1.00
CN2	19.1	6	+P	02 22 28.5	−1.8		
			LN		Ms = 4.5	13.0	1.00

1986 4 19
O = 14 37 19.2 ± 0.09s
LAT = 19.08 S ± 1.06km
LONG = 169.07 E ± 1.10km
DEPTH = 176 km ± 1.17km
STATIONS USED = 15, STAND DEV = 1.67s

CN2	74.2	329	eP	14 48 36.6	−2.6		
XAN	77.9	313	eP	14 48 58.5	−1.2		
GTA	86.9	313	eP	14 49 46.0	−0.1		

1986 4 19
O = 14 57 25.8 ± 0.10s
LAT = 28.73 N ± 1.60km
LONG = 142.55 E ± 2.00km
DEPTH = 32 km ± 0.37km
STATIONS USED = 66, STAND DEV = 1.47s
Ms = 4.5 / 16,

SSE	18.7	283	eP	15 01 43.5	−0.1		
			esS	15 05 20.0	0.6		
			LN		Ms = 4.3	12.0	0.53
MDJ	18.9	330	−P	15 01 46.1	−0.7		
			S	15 05 11.1	−1.5		
SNY	20.2	315	eP	15 02 00.8	−0.1		
			eS	15 05 42.0	0.6		
			LN		Ms = 4.4	17.0	0.71
			LE			15.0	0.58
CN2	20.3	322	eP	15 02 02.0	−0.4		
			eS	15 05 44.0	−0.2		
			LN		Ms = 4.7	15.0	1.50
NJ2	20.7	285	+P	15 02 05.0	−1.0		
			PMZ			3.0	0.50
			S	15 05 48.5	−1.5		
			LN		Ms = 4.6	13.0	1.20
TIA	22.7	296	eP	15 02 21.3	−4.5		
			LE		Ms = 4.4	14.0	0.69
BJI	24.4	304	eP	15 02 42.5	−0.4		
			eS	15 06 55.5	−2.7		
			LE		Ms = 4.4	15.0	0.56
WHN	24.6	281	eP	15 02 44.5	0.3		
			sP	15 02 56.0	−1.0		
			PP	15 03 22.0	2.1		
			eS	15 07 00.0	−0.4		
			sS	15 07 13.0	−1.7		
			LN		Ms = 4.6	12.0	0.44
			LE			13.0	0.57
TIY	26.6	297	eP	15 03 04.5	0.5		
			LN		Ms = 4.5	14.0	0.65
			LE			15.0	0.19
GZH	26.8	265	eP	15 03 06.0	0.5		
BTO	29.1	303	eP	15 03 26.0	−0.1		
			eS	15 08 14.0	−0.8		
			LN		Ms = 4.8	15.0	0.60

		LE			15.0	0.90
QZN	31.3	259	eP	15 03 46.3	0.4	
			eS	15 08 52.5	2.6	
GYA	31.8	275	+P	15 03 49.8	−0.4	
			S	15 08 57.4	0.9	
LZH	33.3	293	eP	15 04 02.5	−1.0	
CD2	33.6	283	+iP	15 04 05.6	−0.2	
			PMZ		0.7	0.040
			S	15 09 29.3	4.7	
KMI	35.6	274	+P	15 04 23.0	0.3	
GTA	36.7	298	+P	15 04 31.2	−0.8	
			LN	Ms=4.6	13.0	0.39
WMQ	45.9	304	+iP	15 05 48.5	0.7	
			PMZ		1.5	0.090
			S	15 12 31.0	2.5	
KSH	55.0	300	P	15 07 00.3	2.9	

1986 4 19
O=17 56 43.7 ± 0.15s
LAT=53.46 N ± 3.61km
LONG=161.39 E ± 2.30km
DEPTH= 33 km ± 0.09km
STATIONS USED = 61, STAND DEV= 1.81s
Ms=5.0/18,

MDJ	22.5	260	eP	18 01 42.5	0.7	
CN2	25.4	262	+P	18 02 08.3	−1.8	
			eS	18 06 25.0	−7.4	
			LN	Ms=5.1	16.0	2.60
			LE		16.0	1.60
SNY	27.7	261	eP	18 02 32.0	0.9	
			eS	18 07 17.0	7.5	
			LN	Ms=5.0	21.0	1.60
			LE		21.0	1.82
BJI	33.2	265	eP	18 03 20.5	0.7	
			LN	Ms=5.0	15.5	1.18
			LE		15.0	0.56
TIA	35.1	259	eP	18 03 34.0	−2.7	
			LE	Ms=5.0	15.0	1.28
BTO	36.5	271	eP	18 03 47.8	−0.6	
			eS	18 09 26.0	−2.3	
			LN	Ms=5.0	14.0	1.00
			LE		14.0	0.60
SSE	36.5	249	eP	18 03 48.5	0.2	
			cS	18 09 26.0	−2.1	
			sS	18 09 42.0	−1.4	
			LN	Ms=4.5	14.0	0.35
TIY	36.9	265	eP	18 03 51.0	−0.7	
			(S)	18 09 29.0	−5.3	
			LN	Ms=5.0	16.0	1.30
			LE		16.0	0.45
NJ2	37.1	252	−P	18 03 54.3	1.0	
			LN	Ms=5.0	13.0	1.00
LZH	43.1	270	eP	18 04 44.0	0.7	
			LN	Ms=5.1	14.0	1.12
WMQ	47.6	290	eP	18 05 19.0	0.2	
GYA	48.3	258	P	18 05 25.3	0.6	
KMI	51.7	261	+P	18 05 50.0	−0.2	
			eS	18 13 02.0	−6.3	
QZN	52.3	249	eP	18 05 47.5	−7.3	
			eS	18 13 08.0	−8.7	
			LN	Ms=4.9	14.0	0.50

1986 4 19
O=19 53 07.6 ± 0.17s
LAT=28.25 N ± 2.45km
LONG=141.08 E ± 3.33km
DEPTH= 62 km ± 1.25km
STATIONS USED = 32, STAND DEV= 2.38s
Ms=4.2/10, m_B=5.3/ 7

SSE	17.5	284	eP	19 57 11.0	1.7	
			LN	Ms=4.0	8.0	0.21
DL2	19.3	308	eP	19 57 30.0	−0.8	
			PMZ	m_B=5.2	6.0	0.72
NJ2	19.6	287	+P	19 57 33.5	0.1	
			PMZ	m_B=5.4	5.0	1.10
			LN	Ms=4.1	14.0	0.40
SNY	19.7	318	+P	19 57 34.0	−0.4	
			eS	20 01 10.5	3.3	
			LN	Ms=4.5	11.0	0.62
			LE		11.0	0.55
WHN	23.4	282	eP	19 58 12.0	0.3	
			PP	19 58 46.0	1.9	
			eS	20 02 23.0	6.8	
			SMN	m_B=5.3	6.0	0.45
			LN	Ms=4.3	10.0	0.37
BJI	23.6	306	(P)	19 58 23.0	8.7	
GZH	25.5	265	+P	19 58 34.0	2.0	
			eS	20 02 58.0	6.0	
TIY	25.7	299	eP	19 58 32.4	−2.0	
			PMZ	m_B=5.6	5.0	0.80
			LN	Ms=3.9	13.0	0.16
GYA	30.6	275	eP	19 59 15.6	−2.4	
CD2	32.5	284	(P)	19 59 35.0	0.3	
GTA	35.8	299	eP	20 00 00.0	−3.1	
WMQ	45.1	305	e(P)	20 01 20.5	0.4	

1986 4 19
O=19 59 33.4 ± 0.10s
LAT=26.55 N ± 0.81km
LONG= 99.43 E ± 0.96km

DEPTH = 3 km ± 0.47km
STATIONS USED = 8, STAND DEV = 2.87s
M_L = 3.1 / 4,

KMI	3.3	115	ePg	20 00 28.5	−3.5		
			Sg	20 01 14.5	−2.3		
			SME			5.0	0.64
CD2	5.8	40	ePg	20 01 18.9	3.5		

1986 4 19
O = 23 28 11.2 ± 0.70s
LAT = 9.12 S ± 3.55km
LONG = 79.18 W ± 2.70km
DEPTH = 77 km ± 5.96km
STATIONS USED = 57, STAND DEV = 2.85s

MDJ	136.8	330	ePKP	23 47 20.8	−5.2		
CN2	139.3	332	ePKP	23 47 29.0	−1.8		
SNY	141.7	332	ePKP	23 47 30.4	−4.6		
KSH	142.5	32	ePKP	23 47 39.6	3.1		
WMQ	143.6	16	+PKP	23 47 36.3	−2.0		
DL2	145.0	331	+PKP	23 47 40.0	−0.6		
BJI	146.3	339	ePKP	23 47 43.5	0.6		
BTO	147.6	347	ePKP	23 47 45.3	0.1		
TIA	149.2	334	ePKP	23 47 48.5	0.8		
TIY	149.7	342	PKP	23 47 53.6	5.1		
GTA	149.8	2	−iPKP	23 47 49.4	0.6		
NJ2	151.7	326	ePKP	23 47 52.0	0.5		
LZH	153.0	355	ePKP	23 47 54.0	0.5		
XAN	154.1	344	PKP	23 47 55.5	0.7		
WHN	155.2	331	PKP	23 47 57.0	0.7		
CD2	158.1	353	ePKP	23 48 02.3	2.1		
GYA	161.9	343	ePKP	23 48 05.8	1.5		
			PP	23 52 34.0	−1.9		
KMI	164.0	354	ePKP	23 48 07.5	1.0		

1986 4 20
O = 00 03 10.0 ± 0.11s
LAT = 25.16 N ± 1.77km
LONG = 95.22 E ± 1.26km
DEPTH = 112 km ± 0.63km
STATIONS USED = 37, STAND DEV = 2.14s
M_L = 4.6 / 1,

LSA	5.8	322	+P	00 04 36.0	0.5		
			S	00 05 39.1	−1.4		
KMI	6.8	89	eP	00 04 51.0	1.7		
LZH	13.2	32	eP	00 06 12.0	−2.3		
GTA	14.7	14	P	00 06 34.3	0.1		
XAN	14.8	50	P	00 06 32.3	−3.1		
WHN	17.7	68	P	00 07 10.5	−0.9		
WMQ	19.6	344	−iP	00 07 33.0	0.8		

1986 4 20
O = 00 53 52.6 ± 0.18s
LAT = 8.22 S ± 2.04km
LONG = 118.01 E ± 2.78km
DEPTH = 32 km ± 0.71km
STATIONS USED = 12, STAND DEV = 3.53s

CD2	41.2	341	eP	01 01 36.4	−0.3		
XAN	42.9	349	eP	01 01 52.5	2.1		
BJI	48.0	358	eP	01 02 27.0	−4.3		
GTA	50.3	342	eP	01 02 47.4	−1.4		

1986 4 20
O = 02 34 18.7 ± 0.21s
LAT = 24.63 N ± 2.83km
LONG = 123.57 E ± 2.30km
DEPTH = 33 km ± 0.62km
STATIONS USED = 56, STAND DEV = 2.72s
Ms = 4.6 / 19,

QZH	4.5	275	P	02 35 24.8	−2.1		
NJ2	8.5	332	+P	02 36 24.0	1.7		
			S	02 37 56.0	−1.7		
			LN	Ms = 4.4		9.0	2.10
WHN	10.1	308	eP	02 36 44.0	−0.3		
			LG_1	02 39 30.0	−5.2		
			LG_2	02 39 47.0	−4.2		
			LN	Ms = 4.6		11.0	3.19
QZN	13.9	249	eP	02 37 35.5	−0.3		
			eS	02 40 11.0	0.9		
			LN	Ms = 4.3		13.0	0.90
			LE			13.0	0.40
GYA	15.4	280	eP	02 38 02.6	7.5		
			LN	Ms = 4.7		10.0	1.60
XAN	15.8	310	eP	02 38 00.8	−0.2		
			SS	02 41 12.0	−1.7		
			eLG_1	02 42 27.0	−9.0		
			LG_2	02 42 52.0	−9.1		
			LN	Ms = 4.7		12.0	1.80
			LE			12.0	1.00
TIY	16.1	327	eP	02 38 08.0	3.1		
			(S)	02 41 12.0	9.3		
			LG_2	02 43 19.5	8.4		
			LN	Ms = 4.5		10.0	0.47
			LE			10.5	0.85
BJI	16.6	340	eP	02 38 10.5	0.1		
SNY	17.2	0	eP	02 38 19.6	1.9		
			eS	02 41 28.0	2.0		
			LN	Ms = 4.4		11.5	0.90
CD2	18.6	294	eP	02 38 33.6	−2.1		
			eS	02 41 53.0	−6.0		
			LN	Ms = 5.0		9.0	2.10

KMI	18.9	276	eP	02 38 39.5	−0.1		
			pP	02 38 47.0	0.0		
			eS	02 42 04.5	−1.6		
			LE	Ms=4.7		10.0	1.30
CN2	19.2	4	eP	02 38 41.8	−0.8		
			eS	02 42 10.0	−2.0		
			LN	Ms=4.8		13.0	1.70
			LE			13.0	0.90
BTO	19.6	328	eP	02 38 48.0	1.2		
			eS	02 42 20.0	−0.6		
			LN	Ms=4.5		10.0	0.40
			LE			11.0	0.70
LZH	20.5	309	+P	02 38 55.0	−1.5		
			PMZ			2.0	0.20
			eS	02 42 37.0	−2.4		
			LN	Ms=4.6		12.0	1.04
MDJ	20.5	12	eP	02 38 56.5	−0.7		
GTA	24.9	312	−P	02 39 38.0	−2.1		
			eS	02 43 53.5	−5.0		
			LN	Ms=4.6		12.0	0.66

1986 4 20
O=03 14 01.2 ± 0.20s
LAT=24.79 N ± 2.49km
LONG=123.30 E ± 2.54km
DEPTH= 32 km ± 0.57km
STATIONS USED = 56, STAND DEV= 2.88s
Ms=5.1/25, m_B=5.3/ 5

QZH	4.3	273	Pn	03 15 04.0	−0.6		
SSE	6.6	344	ePn	03 15 33.5	−2.3		
			LG_2	03 17 38.0	0.5		
			LN	Ms=4.9		10.0	10.7
			LE			10.0	5.40
NJ2	8.2	333	eP	03 15 54.0	−7.2		
WHN	9.8	308	eP	03 16 24.3	1.4		
			LG_1	03 19 03.0	−5.6		
			LG_2	03 19 18.0	−6.1		
			LN	Ms=5.3		12.0	10.5
			LE			11.0	11.4
TIA	12.6	336	eP	03 17 02.0	1.3		
			eS	03 19 26.0	5.4		
			LN	Ms=4.9		12.0	2.71
			LE			11.0	3.33
QZN	13.7	248	eP	03 17 15.0	−1.2		
			eS	03 19 46.0	−2.9		
			LN	Ms=4.7		11.0	2.30
			LE			11.0	1.00
DL2	14.1	355	eP	03 17 23.0	1.4		
			eS	03 20 00.0	1.5		
			LN	Ms=5.2		14.0	5.85
			LE			12.0	6.35
GYA	15.1	280	P	03 17 36.6	2.4		
			S	03 20 24.0	3.4		
			LN	Ms=5.2		10.0	5.10
TIY	15.9	327	eP	03 17 44.9	0.8		
			LG_2	03 22 54.0	9.3		
			LN	Ms=5.0		14.0	3.15
			LE			11.0	2.51
BJI	16.3	340	eP	03 17 50.5	0.5		
			LN	Ms=4.9		12.0	3.09
SNY	17.0	1	eP	03 17 57.6	−0.6		
			PMZ	m_B=5.1		10.0	1.02
			sS	03 21 14.0	−2.6		
			LN	Ms=5.1		12.0	4.40
			LE			10.0	1.10
CD2	18.3	294	eP	03 18 15.4	0.6		
			LN	Ms=5.5		9.0	8.06
KMI	18.6	275	eP	03 18 20.0	0.9		
			eS	03 21 44.0	1.0		
			LE	Ms=5.2		10.0	3.50
CN2	19.0	5	eP	03 18 22.5	−1.2		
			eS	03 21 48.0	−3.5		
			LN	Ms=5.4		12.0	7.20
BTO	19.3	328	eP	03 18 27.3	0.8		
			S	03 21 56.0	−0.2		
			LN	Ms=5.0		12.0	2.20
			LE			12.0	2.00
LZH	20.2	308	−P	03 18 35.0	−1.1		
			PMZ			2.0	0.23
			S	03 22 10.0	−5.3		
			SMN	m_B=5.3		10.0	1.23
			LN	Ms=5.0		12.0	2.85
MDJ	20.4	13	eP	03 18 36.5	−2.2		
			S	03 22 14.0	−6.6		
GTA	24.6	312	P	03 19 18.0	−1.9		
WMQ	34.7	312	P	03 20 49.0	−1.2		
KSH	42.2	302	eP	03 21 48.8	−4.5		

1986 4 20
O=05 29 59.1 ± 0.26s
LAT=44.25 N ± 2.41km
LONG=114.40 E ± 0.88km
DEPTH= 20 km
STATIONS USED = 7, STAND DEV= 2.74s
M_L=3.3/ 7,

HHC	4.0	213	Pg	05 31 08.3	−1.6		
			Sg	05 31 55.6	−8.7		
			SMN	M_L=3.7		0.8	0.18
			SME			0.8	0.16
BJI	4.4	162	ePg	05 31 17.0	0.0		

			Sg	05 32 09.0	−8.3			
			SMN	M_L=3.3		0.5	0.028	
			SME			0.5	0.067	
BTO	4.9	223	Pg	05 31 28.8	3.2			
			Sg	05 32 22.6	−9.5			
			SMN	M_L=3.3		0.4	0.036	
			SME			0.4	0.039	

1986 4 20
O=07 03 30.4 ± 0.09s
LAT= 2.38 S ± 1.74km
LONG=139.39 E ± 1.83km
DEPTH= 33 km ± 0.11km
STATIONS USED =106, STAND DEV= 1.35s
Ms=6.7/43, m_B=6.8/41

GZH	35.8	316	+iP	07 10 30.0	0.6			
			PMZ	m_B=6.7		10.0	12.7	
			PP	07 11 48.0	−2.6			
			iS	07 16 07.0	2.5			
			LN	Ms=6.8		20.0	83.3	
			LE			18.0	41.2	
QZN	36.0	307	+iP	07 10 30.0	−0.8			
			PMZ	m_B=6.7		10.0	12.9	
			PP	07 11 56.0	3.4			
			PPMZ			9.5	32.6	
			iS	07 16 09.0	2.0			
			SMN	m_B=6.5		9.0	7.90	
			SME			7.0	3.90	
			LN	Ms=6.6		16.0	44.0	
			LE			15.0	26.0	
SSE	37.5	334	+iP	07 10 43.0	−0.6			
			PMZ			1.0	0.090	
			pP	07 10 52.0	−0.8			
			sP	07 10 56.0	−0.7			
			PP	07 12 16.0	4.2			
			PcP	07 12 59.5	−1.7			
			iS	07 16 30.0	−0.3			
			SMN	m_B=6.6		10.0	9.11	
			SME			10.0	7.52	
			sS	07 16 47.0	1.4			
			SS	07 19 06.0	2.2			
			ScS	07 20 46.0	−5.6			
			LN	Ms=6.6		19.0	42.4	
			LE			18.0	32.8	
NJ2	39.4	332	+iP	07 11 00.0	0.9			
			PMZ	m_B=6.9		8.0	15.7	
			S	07 16 56.0	−1.7			
			SME	m_B=6.6		12.0	11.9	
			SS	07 19 54.0	8.9			
			LE	Ms=6.7		18.0	60.4	
WHN	40.5	326	+iP	07 11 10.0	1.5			
			PMZ	m_B=7.0		7.0	17.2	
			sP	07 11 19.0	−2.7			
			iS	07 17 18.0	2.5			
			SMN	m_B=6.9		12.0	23.6	
			SS	07 20 13.0	2.8			
			LE	Ms=6.5		17.0	40.7	
TIA	43.6	334	+P	07 11 34.0	−0.2			
			PMZ	m_B=6.7		9.0	9.78	
			S	07 17 58.0	−2.6			
			SMN	m_B=6.9		11.0	7.78	
			SME			11.0	22.3	
			LN	Ms=6.7		20.0	25.4	
			LE			21.0	60.8	
DL2	44.2	340	+iP	07 11 38.0	−0.7			
			PMZ	m_B=6.8		8.0	10.9	
			sP	07 11 51.5	−0.5			
			S	07 18 09.0	0.1			
			SMN	m_B=7.1		10.0	14.4	
			SME			12.0	30.5	
			LN	Ms=6.6		18.0	18.6	
			LE			17.0	35.7	
KMI	44.8	310	+iP	07 11 45.0	1.2			
			PMZ	m_B=6.8		9.0	13.1	
			sP	07 11 58.5	1.7			
			PcP	07 13 32.0	7.0			
			S	07 18 11.0	−6.5			
			LE	Ms=6.7		18.0	47.7	
XAN	46.2	324	+iP	07 11 54.3	−0.3			
			PMZ	m_B=6.8		8.0	10.1	
			pP	07 12 00.0	−3.8			
			PcP	07 13 29.0	−0.8			
			PP	07 13 48.0	5.4			
			PPMZ			7.0	9.37	
			ScP	07 17 24.0	5.0			
			iS	07 18 39.0	0.7			
			SMN	m_B=7.0		9.0	17.5	
			SME			9.0	13.2	
			SS	07 21 52.0	−3.3			
			LN	Ms=6.5		16.0	24.9	
			LE			16.0	17.8	
SNY	46.3	344	+iP	07 11 55.5	0.3			
			PMZ	m_B=6.8		8.5	12.7	
			PP	07 13 46.0	2.5			
			PPMZ			8.0	4.27	
			PcS	07 17 22.0	−1.3			
			iS	07 18 42.5	3.1			
			SMN	m_B=7.2		10.5	17.5	
			SME			10.5	28.6	
			LN	Ms=6.7		19.5	47.2	

			LE			16.0	19.0
TIY	47.1	331	+iP	07 12 01.0	−0.4		
			PMZ			1.5	0.27
			sP	07 12 12.5	−2.0		
			PP	07 13 50.5	−0.6		
			S	07 18 51.0	1.6		
			SMN	$m_B = 6.7$		10.0	6.94
			SME			13.0	11.1
			SS	07 22 13.5	3.7		
			LN	Ms = 6.8		19.0	52.7
			LE			22.0	50.1
BJI	47.3	336	eP	07 12 02.5	−0.4		
			eS	07 18 53.0	−0.4		
			SMN			13.0	19.2
			SME			12.0	15.0
			LN	Ms = 6.8		19.0	56.6
			LE			22.0	20.9
CD2	47.4	317	+iP	07 12 04.8	0.8		
			PMZ			1.4	1.22
			iS	07 18 58.0	2.7		
			PS	07 19 24.0			
			LN	Ms = 6.8		17.0	54.0
MDJ	47.6	351	−P	07 12 05.5	0.0		
			pP	07 12 11.5	−3.3		
			sP	07 12 15.0	−3.7		
			PcP	07 13 36.5	1.8		
			PP	07 13 54.0	−1.8		
			PcS	07 17 30.0	1.2		
			S	07 18 58.0	0.9		
			SME			14.0	21.4
			ScS	07 21 58.0	4.9		
CN2	47.6	346	+P	07 12 05.0	−0.9		
			PMZ	$m_B = 6.7$		8.5	8.50
			PcP	07 13 34.8	−0.1		
			PP	07 13 56.0	−0.2		
			PPMZ			7.0	3.00
			S	07 19 00.0	2.3		
			SMN	$m_B = 6.9$		11.0	7.30
			SME			13.5	18.9
			ScS	07 21 55.0	1.5		
			SS	07 22 20.0	−0.4		
BTO	50.5	331	+iP	07 12 27.4	−0.5		
			PMZ	$m_B = 6.8$		8.0	11.2
			sP	07 12 38.0	−3.0		
			iS	07 19 38.0	−0.7		
			SMN	$m_B = 6.9$		10.0	9.60
			SME			10.0	12.9
			eScS	07 22 16.0	3.6		
			SS	07 23 10.0	1.5		
			LN	Ms = 6.9		19.0	40.1
			LE			19.0	50.1
LZH	50.6	322	+iP	07 12 30.0	0.9		
			PMZ			1.5	1.33
			sP	07 12 40.0	−2.1		
			PP	07 14 25.0	0.0		
			S	07 19 43.0	3.7		
			SMN	$m_B = 6.8$		9.0	12.7
			LN	Ms = 6.4		13.0	13.7
			LE			14.0	9.38
GTA	55.2	323	+iP	07 13 03.3	0.2		
			PP	07 15 08.5	1.2		
			PcS	07 17 59.0	−2.4		
			iS	07 20 46.0	2.9		
			ScS	07 22 49.5	4.2		
			SMN	$m_B = 6.6$		11.0	9.33
			LN	Ms = 6.6		38.0	65.4
LSA	56.0	309	+iP	07 13 09.0	−0.4		
			iS	07 20 55.0	0.2		
			SME	$m_B = 5.6$		6.0	0.49
			LN	Ms = 6.5		20.0	22.9
WMQ	65.2	321	+iP	07 14 11.4	0.1		
			PcP	07 14 41.0	−1.7		
			PP	07 16 40.0	4.1		
			S	07 22 53.0	3.5		
			SMN	$m_B = 6.9$		8.0	12.0
			ScS	07 24 00.0	0.9		
			LN	Ms = 6.7		40.0	68.6
KSH	71.3	313	+iP	07 14 50.8	1.2		
			pP	07 14 58.8	−0.1		
			PP	07 17 31.8	2.7		
			iS	07 24 11.8	7.3		
			SME	$m_B = 7.0$		9.0	12.9
			LE	Ms = 6.9		17.0	32.3

1986 4 20

O = 09 17 17.8 ± 0.13s
LAT = 10.85 S ± 1.95km
LONG = 161.13 E ± 2.83km
DEPTH = 38 km ± 1.55km
STATIONS USED = 20, STAND DEV = 1.92s

CN2	63.3	332	eP	09 27 45.6	−0.4
GYA	64.6	306	eP	09 27 54.8	0.5
XAN	66.7	314	eP	09 28 08.1	0.4
KMI	67.2	303	eP	09 28 13.0	2.1
CD2	68.9	309	P	09 28 24.0	2.4
LZH	71.3	314	eP	09 28 38.0	1.7
GTA	75.7	315	eP	09 29 02.0	0.0

1986 4 20

O = 16 55 34.5 ± 0.11s

LAT=32.14 N ± 1.46km
LONG= 92.15 E ± 1.27km
DEPTH= 20 km
STATIONS USED = 54, STAND DEV= 2.25s
Ms=4.4/14,

LSA	2.6	200	Pg	16 56 20.8	0.1			
			Sg	16 56 53.5	−1.9			
			Pg	16 56 21.4	1.3			
			LE			4.0	8.84	
GTA	9.6	38	P	16 57 54.3	−0.3			
			eS	16 59 37.0	−5.8			
			LE	Ms=4.3		8.5	1.24	
CD2	10.0	94	eP	16 58 01.8	1.4			
			LN	Ms=4.4		7.0	1.17	
LZH	10.5	65	eP	16 58 06.5	−0.6			
			eLG_2	17 01 15.0	−4.8			
			LE	Ms=4.4		8.0	1.34	
WMQ	12.2	345	eP	16 58 30.5	0.1			
GYA	13.9	110	−P	16 58 51.4	−1.5			
			S	17 01 23.0	−3.8			
			LN	Ms=4.4		9.0	0.80	
			LE			9.0	0.40	
XAN	14.2	78	P	16 58 55.0	−2.0			
KSH	15.0	304	eP	16 59 08.9	1.1			
			LE	Ms=4.7		8.0	1.50	
BTO	16.7	55	eP	16 59 29.0	−0.1			
TIY	17.5	66	+iP	16 59 39.5	−0.4			
			S	17 02 56.5	4.4			
			sS	17 03 05.0	2.8			
			LN	Ms=4.2		10.0	0.35	
			LE			12.0	0.24	
WHN	19.0	89	eP	16 59 57.5	−0.8			
			eS	17 03 28.0	1.4			
			LE	Ms=4.4		9.0	0.60	
QZN	20.6	125	eP	17 00 17.3	2.0			
			eS	17 04 03.0	3.2			
			LN	Ms=4.4		13.0	0.60	
			LE			14.0	0.50	
GZH	20.8	110	−iP	17 00 18.0	0.4			
BJI	20.9	61	eP	17 00 19.5	0.8			
			eS	17 04 10.0	3.7			
			LN	Ms=4.2		10.0	0.35	
NJ2	22.6	83	eP	17 00 42.0	6.3			
			LN	Ms=4.4		10.0	0.50	
SNY	26.8	60	eP	17 01 10.0	−5.6			
CN2	28.5	56	+P	17 01 31.4	−0.1			
			eS	17 06 16.0	−1.2			
MDJ	31.6	56	eP	17 01 57.0	−1.9			

1986 4 21

O=01 11 29.3 ± 0.08s
LAT=15.06 S ± 1.28km
LONG=173.28 W ± 1.27km
DEPTH= 35 km ± 0.19km
STATIONS USED = 24, STAND DEV= 0.88s

MDJ	78.8	322	eP	01 23 30.0	−1.2
CN2	80.9	320	−P	01 23 42.0	−0.4
BJI	85.3	313	eP	01 24 05.0	0.1
XAN	88.5	306	eP	01 24 21.3	0.7
BTO	89.9	312	eP	01 24 28.0	0.9

1986 4 21
O=10 59 07.4 ± 0.14s
LAT=36.68 N ± 1.31km
LONG=105.50 E ± 1.33km
DEPTH= 8 km ± 0.20km
STATIONS USED = 9, STAND DEV= 4.30s
M_L=3.1/ 9,

LZH	1.5	247	Pg	10 59 33.8	0.3		
			Sg	10 59 53.0	−0.2		
			SMN	M_L=3.5		0.5	0.70
			SME			0.5	0.69
XAN	3.8	132	ePn	11 00 12.8	5.5		
			Pg	11 00 18.6	3.3		
			Sg	11 01 02.9	−4.9		
			SMN	M_L=2.6		0.5	0.020
			SME			0.5	0.010
GTA	5.2	303	Pn	11 00 29.8	3.1		
			Pg	11 00 43.1	3.0		
			Sg	11 01 51.3	−0.5		
			SMN	M_L=3.0		0.8	0.014
			SME			0.6	0.016

1986 4 21
O=12 00 23.7 ± 0.21s
LAT=24.49 N ± 2.29km
LONG=123.30 E ± 2.62km
DEPTH= 36 km ± 0.59km
STATIONS USED = 40, STAND DEV= 2.89s
Ms=4.4/14, M_L=4.0/ 6,

QZH	4.3	277	P	12 01 26.0	−2.6		
SSE	6.8	345	eP	12 02 11.5	7.2		
			LG_1	12 03 57.0	−1.5		
			eLG_2	12 04 10.0	0.6		
			LE	Ms=4.1		17.0	2.86
NJ2	8.5	334	eP	12 02 27.5	0.2		
			LN	Ms=4.5		7.5	2.10
WHN	10.0	309	eP	12 02 44.9	−2.9		
			LG_2	12 05 50.0	−2.7		
			LN	Ms=4.4		11.0	1.99

QZN	13.6	249	eP	12 03 35.0	−2.1		
			eS	12 06 04.0	−4.2		
			LN	Ms=4.1		15.0	0.70
GYA	15.2	281	P	12 04 02.3	5.1		
XAN	15.7	310	eP	12 04 02.4	−2.2		
			LN	Ms=4.3		11.0	0.68
			LE			11.0	0.36
TIY	16.1	327	eP	12 04 13.4	3.9		
			(S)	12 07 04.0	−2.8		
			LN	Ms=4.2		15.0	0.66
			LE			15.0	0.38
BJI	16.6	341	eP	12 04 16.5	0.7		
			(S)	12 07 28.0	9.6		
			LN	Ms=4.0		12.0	0.34
SNY	17.3	1	+P	12 04 26.0	1.8		
			eS	12 07 41.0	7.3		
			LN	Ms=4.4		9.0	0.64
CD2	18.4	295	eP	12 04 38.8	0.3		
			LE	Ms=4.5		9.0	0.77
CN2	19.3	5	+P	12 04 48.5	−0.6		
			ePP	12 05 07.0	0.7		
			eS	12 08 21.0	1.1		
			LN	Ms=4.5		13.0	1.00
BTO	19.5	328	eP	12 04 50.5	−0.9		
			eS	12 08 22.0	−2.8		
LZH	20.3	309	−P	12 04 59.5	−0.7		
MDJ	20.7	13	eP	12 05 01.8	−2.0		
GTA	24.8	313	P	12 05 41.6	−2.4		

1986 4 21
O=15 14 42.2 ± 0.21s
LAT=24.55 N ± 2.34km
LONG=123.20 E ± 2.41km
DEPTH= 36 km ± 0.44km
STATIONS USED = 37, STAND DEV= 2.70s
Ms=4.3/14,

QZH	4.2	276	P	15 15 43.5	−2.2		
SSE	6.8	345	eP	15 16 30.0	8.3		
			eLG_2	15 18 25.5	0.2		
			LE	Ms=3.9		17.0	2.00
WHN	9.9	309	eP	15 17 08.0	3.3		
			LG_2	15 20 08.0	0.4		
			LN	Ms=4.3		10.0	1.29
GYA	15.1	281	eP	15 18 18.8	4.5		
			S	15 21 07.0	7.2		
			LN	Ms=4.6		9.0	1.10
			LE			9.0	0.50
XAN	15.6	310	eP	15 18 19.4	−2.2		
			eLG_1	15 22 57.0	4.0		
			LN	Ms=4.2		11.0	0.45
			LE			10.0	0.38
TIY	16.0	328	P	15 18 31.3	4.5		
			LN	Ms=4.0		11.0	0.38
BJI	16.5	341	eP	15 18 34.0	0.8		
			eS	15 21 36.0	1.1		
			LN	Ms=3.8		12.0	0.21
SNY	17.2	1	+P	15 18 43.0	1.0		
			eS	15 21 52.0	1.1		
			LN	Ms=4.3		9.0	0.56
CD2	18.3	295	eP	15 18 55.8	0.2		
			LN	Ms=4.6		7.0	0.75
CN2	19.3	5	+P	15 19 05.0	−2.0		
			eS	15 22 35.0	−2.3		
			LN	Ms=4.4		11.0	0.70
BTO	19.4	329	eP	15 19 07.0	−1.8		
LZH	20.2	309	eP	15 19 16.5	−1.0		
			PMZ			1.8	0.080
MDJ	20.7	13	eP	15 19 24.5	2.6		
GTA	24.7	313	P	15 19 59.6	−1.8		

1986 4 21
O=15 33 58.6 ± 0.03s
LAT= 6.40 N ± 0.68km
LONG=126.35 E ± 1.83km
DEPTH= 50 km ± 0.03km
STATIONS USED = 9, STAND DEV= 0.86s

XAN	31.9	332	+P	15 40 20.8	−1.0		
BJI	34.7	346	eP	15 40 46.0	−0.2		
GTA	40.6	328	P	15 41 36.5	0.5		

1986 4 21
O=18 31 20.8 ± 0.13s
LAT=19.59 S ± 2.46km
LONG=172.89 W ± 2.59km
DEPTH= 31 km ± 0.24km
STATIONS USED = 31, STAND DEV= 1.77s

MDJ	82.6	323	eP	18 43 43.8	0.5		
CN2	84.6	320	eP	18 43 53.4	0.1		
WHN	85.8	304	eP	18 44 03.0	3.6		
BJI	88.7	313	eP	18 44 11.0	−2.2		
GYA	90.4	298	P	18 44 25.8	4.3		
XAN	91.5	306	eP	18 44 27.4	1.1		

1986 4 21
O=23 36 16.8 ± 0.08s
LAT= 1.94 N ± 1.41km
LONG=126.48 E ± 1.81km
DEPTH= 33 km ± 0.04km
STATIONS USED = 90, STAND DEV= 1.55s
Ms=5.2/29, m_B=5.7/14

QZN	23.5	317	−iP	23 41 26.0	0.8		
			PP	23 42 02.0	4.8		
			iS	23 45 33.0	−0.7		
			SMN	m_B = 5.8		12.0	2.40
			SME			11.0	2.10
			LN	Ms = 5.2		17.0	3.40
			LE			19.0	3.70
GZH	24.6	330	+iP	23 41 36.0	0.7		
			PMZ			3.0	2.66
			S	23 45 48.0	−3.0		
			SMN	m_B = 5.9		8.5	2.90
			SME			10.0	1.25
			LN	Ms = 5.2		18.0	3.39
			LE			14.0	2.04
SSE	29.4	351	+P	23 42 21.3	1.5		
			PMZ			0.8	0.12
			iS	23 47 13.0	2.4		
			sS	23 47 21.0	−4.8		
			LN	Ms = 4.9		12.0	1.21
WHN	30.7	339	eP	23 42 31.0	0.0		
			PMZ	m_B = 6.4		4.0	2.58
			pP	23 42 43.0	2.9		
			sP	23 42 48.0	3.9		
			PcP	23 45 29.5	1.4		
			eS	23 47 28.0	−2.5		
			SMN	m_B = 5.3		10.0	0.74
			ScS	23 53 04.0	2.1		
			LE	Ms = 5.2		20.0	3.15
NJ2	30.8	347	+P	23 42 32.0	−0.1		
			iS	23 47 33.0	0.7		
			SMN	m_B = 5.6		12.0	1.80
GYA	30.9	324	P	23 42 33.4	0.0		
			sP	23 42 44.0	−2.3		
			PcP	23 45 30.0	1.2		
			S	23 47 31.0	−2.5		
			ScS	23 53 05.6	2.5		
			LN	Ms = 5.0		12.0	1.30
KMI	32.5	317	−iP	23 42 48.0	0.9		
			PP	23 43 54.0	−1.1		
			S	23 47 52.0	−5.9		
			LN	Ms = 5.1		14.0	1.54
TIA	35.2	347	−P	23 43 09.8	−0.4		
			eS	23 48 32.0	−8.7		
			LN	Ms = 5.1		11.0	0.67
			LE			14.0	1.38
XAN	35.9	335	−P	23 43 15.0	−1.3		
			pP	23 43 22.0	−3.5		
			PP	23 44 43.0	5.3		
			S	23 48 46.0	−4.9		
			SS	23 51 13.0	−0.8		
			ScS	23 53 27.0	−1.9		
			LN	Ms = 5.0		10.0	0.42
			LE			14.0	1.00
CD2	36.0	326	−iP	23 43 16.6	−0.1		
			PP	23 44 40.0	1.8		
			S	23 48 48.0	−3.6		
			LN	Ms = 5.3		26.0	4.17
DL2	37.1	354	P	23 43 26.0	0.0		
			S	23 49 07.0	−1.6		
			LN	Ms = 5.5		14.0	2.70
			LE			14.0	1.82
TIY	37.9	342	eP	23 43 33.0	0.1		
			PMZ			1.0	0.080
			PP	23 44 54.5	−7.8		
			S	23 49 16.5	−4.4		
			SS	23 52 07.0	9.0		
			ScS	23 53 44.0	4.1		
			LN	Ms = 5.2		20.0	2.23
			LE			22.0	1.15
BJI	39.1	347	eP	23 43 41.5	−1.2		
			eS	23 49 38.0	−2.0		
			eScS	23 53 51.0	4.2		
			LN	Ms = 5.0		14.0	0.91
SNY	39.8	357	+iP	23 43 49.4	0.6		
			sP	23 44 05.0	2.9		
			iS	23 49 51.0	0.0		
			SMN	m_B = 5.9		11.0	1.42
			SME			7.0	1.57
			SS	23 52 31.0	−9.3		
			LN	Ms = 5.5		26.0	4.38
			LE			24.0	2.87
LZH	39.9	331	P	23 43 50.0	−0.1		
			PMZ			2.0	0.050
			sP	23 44 03.5	0.4		
			PcP	23 45 57.5	2.4		
			S	23 49 45.0	−7.0		
			ScS	23 53 56.0	4.2		
			LN	Ms = 5.3		22.0	1.23
			LE			24.0	2.80
BTO	41.3	341	eP	23 44 00.5	−0.7		
			esP	23 44 11.0	−3.3		
			ePP	23 45 38.0	−1.5		
			eS	23 50 10.0	−3.2		
CN2	41.7	359	+P	23 44 04.3	−0.2		
			PMZ	m_B = 5.7		5.0	0.60
			esP	23 44 15.0	−2.7		
			PP	23 45 41.0	−3.4		
			eS	23 50 18.0	−1.3		
			ScP	23 49 49.6	2.5		
			eS	23 50 18.0	−1.3		

			ScS	23 54 02.0	−0.3		
			LE	Ms = 5.1		13.0	1.10
MDJ	42.6	3	+P	23 44 12.5	0.7		
			pP	23 44 18.5	−2.6		
			PP	23 45 52.0	−1.4		
			PcS	23 49 56.0	1.4		
			S	23 50 31.5	0.1		
			SMN	m_B = 5.5		7.0	0.50
LSA	43.4	313	−iP	23 44 19.4	0.1		
			S	23 50 44.9	0.9		
			SMN	m_B = 5.8		5.0	0.75
WMQ	54.0	326	P	23 45 40.5	−0.5		
			PMZ			1.0	0.13
			PcP	23 46 45.0	0.2		
			S	23 53 14.5	2.0		
			ScS	23 55 26.0	2.6		
KSH	59.1	316	+P	23 46 18.8	1.7		
			ePP	23 48 28.8	0.1		
			eS	23 54 18.8	−2.1		
			ScS	23 56 03.8	3.9		
			LE	Ms = 6.4		40.0	33.3

1986 4 22
O = 00 27 25.7 ± 0.10s
LAT = 32.71 N ± 0.94km
LONG = 104.24 E ± 0.92km
DEPTH = 11 km ± 0.31km
STATIONS USED = 8, STAND DEV = 4.10s
M_L = 3.5 / 4,

CD2	1.8	193	ePg	00 27 59.0	0.6		
			Sg	00 28 25.3	1.8		
			SMN	M_L = 3.2		0.6	0.26
			SME			0.7	0.21
LZH	3.4	355	ePg	00 28 24.5	−1.2		
			eSg	00 29 10.0	−1.7		
			SMN	M_L = 3.4		0.8	0.060
			SME			0.8	0.17
XAN	4.1	70	ePn	00 28 29.0	−0.2		
			Pg	00 28 41.6	3.0		
			Sg	00 29 35.0	−0.2		
			SMN	M_L = 3.7		0.6	0.13
			SME			0.8	0.14

1986 4 22
O = 04 50 32.5 ± 0.15s
LAT = 24.60 N ± 1.90km
LONG = 122.77 E ± 1.89km
DEPTH = 30 km ± 0.45km
STATIONS USED = 57, STAND DEV = 2.14s
Ms = 4.9 / 22, M_L = 4.2 / 5,

QZH	3.8	276	Pn	04 51 28.5	−1.1		
SSE	6.6	348	cPn	04 52 08.0	−0.2		
			Sn	04 53 22.8	−1.8		
			LG_2	04 54 09.6	−1.4		
			LE	Ms = 4.6		16.0	8.88
NJ2	8.2	336	+P	04 52 29.0	−3.2		
			S	04 53 57.0	−7.4		
			LN	Ms = 5.0		10.0	9.30
WHN	9.5	310	eP	04 52 50.5	−0.3		
			LG_1	04 55 37.0	5.2		
			LE	Ms = 4.8		8.0	3.97
QZN	13.2	248	eP	04 53 41.0	0.1		
			eS	04 56 09.0	1.1		
			LN	Ms = 4.4		11.0	1.10
			LE			11.0	0.70
GYA	14.7	281	P	04 54 00.8	0.9		
			sP	04 54 10.0	−1.2		
			S	04 56 45.0	3.3		
			LN	Ms = 5.1		8.0	3.40
			LE			8.0	2.20
XAN	15.3	311	eP	04 54 07.4	−0.8		
			LG_1	04 58 31.0	−1.9		
			LG_2	04 58 54.0	−3.1		
			LN	Ms = 4.9		8.0	1.77
			LE			10.0	1.35
TIY	15.8	328	eP	04 54 21.5	7.2		
			LG_1	04 58 51.5	3.7		
			LG_2	04 59 08.0	−4.7		
			LN	Ms = 4.9		12.5	2.22
			LE			12.0	2.38
BJI	16.4	342	eP	04 54 23.0	1.2		
			eS	04 57 27.5	5.4		
			LE	Ms = 4.5		14.0	1.51
SNY	17.2	2	eP	04 54 33.0	0.7		
			pP	04 54 41.5	2.0		
			eS	04 57 32.0	−9.2		
			SS	04 57 52.5	−9.4		
			LE	Ms = 4.8		14.0	2.36
CD2	18.0	295	eP	04 54 43.0	1.2		
			eS	04 58 06.5	8.0		
			LN	Ms = 5.1		9.0	2.72
KMI	18.2	276	eP	04 54 46.0	1.1		
			eS	04 58 07.0	2.9		
			sS	04 58 20.0	4.8		
			LE	Ms = 5.1		11.0	3.54
BTO	19.2	329	eP	04 54 57.0	0.0		
			pP	04 55 02.0	−2.1		
			eS	04 58 27.0	0.3		
			LN	Ms = 4.9		11.0	1.70
			LE			11.0	1.50

CN2	19.3	6	+P	04 54 49.6	−8.2		
			PMZ			3.0	0.30
			pP	04 55 04.0	−1.1		
			eS	04 58 34.0	5.7		
			LN	Ms=4.8		10.0	1.40
LZH	19.9	310	eP	04 55 05.0	0.1		
			PMZ			1.5	0.070
			LN	Ms=4.8		10.0	1.17
			LE			9.0	0.68
MDJ	20.7	14	eP	04 55 15.3	2.0		
			pP	04 55 20.6	−0.9		
			sP	04 55 24.1	−1.5		
			PP	04 55 37.1	2.1		
			S	04 59 04.0	6.2		
			sS	04 59 16.0	4.8		
GTA	24.3	313	P	04 55 49.5	0.3		
			eS	05 00 01.0	−3.2		
			LN	Ms=4.7		20.0	1.45

1986 4 22
O=05 25 36.4 ± 0.10s
LAT= 1.96 N ± 1.45km
LONG=126.50 E ± 2.48km
DEPTH= 33 km ± 0.23km
STATIONS USED = 64, STAND DEV= 1.58s

QZN	23.5	317	P	05 30 46.0	1.3		
SSE	29.4	351	eP	05 31 40.5	1.3		
			pP	05 31 48.5	0.1		
WHN	30.7	339	eP	05 31 50.0	−0.4		
NJ2	30.8	347	eP	05 31 55.0	3.6		
GYA	30.9	324	P	05 31 52.3	−0.5		
KMI	32.5	317	+P	05 32 07.0	0.4		
TIA	35.2	347	eP	05 32 23.8	−5.7		
XAN	35.9	335	+P	05 32 35.0	−0.7		
CD2	35.9	326	eP	05 32 35.8	−0.4		
TIY	37.9	342	eP	05 32 52.5	0.2		
SNY	39.8	357	+P	05 33 09.6	1.5		
LZH	39.9	331	+iP	05 33 10.5	1.0		
			PMZ			1.0	0.060
BTO	41.3	341	eP	05 33 21.0	0.5		
CN2	41.7	359	eP	05 33 26.0	2.2		
MDJ	42.6	3	eP	05 33 32.6	1.4		
LSA	43.4	313	P	05 33 38.0	−0.9		
WMQ	54.0	326	−iP	05 35 01.0	0.6		

1986 4 22
O=09 29 51.1 ± 0.11s
LAT=31.89 N ± 1.45km
LONG= 76.84 E ± 1.39km
DEPTH= 32 km ± 0.17km

STATIONS USED = 30, STAND DEV= 2.16s

KSH	7.6	355	ePn	09 31 48.0	8.1		
			Sn	09 33 09.0	2.5		
			LG_2	09 33 57.0	−4.1		
WMQ	14.7	33	eP	09 33 17.0	−1.2		
			eS	09 35 55.0	−5.7		
			LN			1.0	0.020
GTA	20.1	62	P	09 34 23.4	−1.7		
LZH	22.7	72	eP	09 34 52.5	0.4		
CD2	23.0	85	eP	09 34 52.6	−1.7		
KMI	23.7	100	eP	09 35 02.0	0.5		
GYA	26.6	94	eP	09 35 29.0	0.6		
XAN	26.9	77	eP	09 35 31.0	−1.0		
BTO	28.0	63	eP	09 35 43.0	1.3		
CN2	39.7	58	eP	09 37 21.6	−0.5		
MDJ	42.6	57	eP	09 37 46.5	−0.1		

1986 4 22
O=15 06 20.5 ± 0.15s
LAT=24.93 N ± 1.88km
LONG=122.25 E ± 1.86km
DEPTH= 8 km ± 0.59km
STATIONS USED = 20, STAND DEV= 2.27s
Ms=3.6/ 2,

SSE	6.2	352	+Pn	15 07 53.3	0.4		
			LG_2	15 09 46.0	0.4		
			LE	Ms=3.2		10.0	0.25
NJ2	7.7	338	ePn	15 08 13.4	0.1		
			LN	Ms=4.0		9.0	0.90
XAN	14.7	311	eP	15 09 49.4	−1.9		
TIY	15.2	329	eP	15 10 05.0	6.9		
CD2	17.4	294	eP	15 10 27.3	1.8		
BTO	18.7	330	eP	15 10 42.0	0.5		
CN2	19.0	7	eP	15 10 47.0	1.5		
MDJ	20.5	15	eP	15 11 03.0	0.7		
GTA	23.8	313	P	15 11 34.0	−0.8		

1986 4 22
O=18 35 39.0 ± 0.22s
LAT=29.07 S ± 2.18km
LONG=177.37 W ± 3.48km
DEPTH= 56 km ± 0.96km
STATIONS USED = 45, STAND DEV= 2.00s

GZH	84.4	300	eP	18 48 08.5	0.7
QZN	84.9	295	eP	18 48 10.8	0.6
MDJ	87.8	325	eP	18 48 23.5	−1.0
WHN	88.0	307	eP	18 48 25.5	0.4
SNY	89.1	320	eP	18 48 30.6	0.1
CN2	89.4	323	+P	18 48 31.0	−0.9
TIA	89.5	313	eP	18 48 33.6	1.4

GYA	91.4	300	P	18 48 42.8	1.6		
BJI	92.4	315	eP	18 48 43.0	−2.6		
TIY	93.4	312	eP	18 48 52.0	1.5		
KMI	93.7	297	+P	18 48 54.0	2.0		
XAN	93.7	307	eP	18 48 52.3	0.3		
CD2	95.8	302	eP	18 49 04.1	2.5		

1986 4 22
O = 20 29 21.0 ± 0.19s
LAT = 28.44 N ± 2.82km
LONG = 141.17 E ± 3.53km
DEPTH = 36 km ± 0.73km
STATIONS USED = 32, STAND DEV = 2.78s
Ms = 4.4 / 11, m_B = 5.2 / 7

SSE	17.6	284	P	20 33 25.0	0.2		
			eS	20 36 40.0	2.9		
			sS	20 36 48.0	−1.7		
			LN	Ms = 4.0		10.0	0.27
MDJ	18.6	333	eP	20 33 36.5	−1.3		
			S	20 37 02.0	1.8		
DL2	19.3	308	eP	20 33 46.0	0.1		
			eS	20 37 25.0	8.8		
			SMN	m_B = 5.3		7.0	0.38
			SME			7.0	0.66
SNY	19.6	318	+P	20 33 49.5	0.4		
			eS	20 37 28.5	5.6		
			LN	Ms = 4.4		11.0	0.47
			LE			10.5	0.37
NJ2	19.6	286	+P	20 33 50.0	0.6		
			PMZ	m_B = 5.3		6.0	0.90
			sP	20 34 02.5	−0.1		
			S	20 37 30.5	7.7		
			SMN	m_B = 5.2		9.0	0.90
			LN	Ms = 4.3		10.0	0.50
CN2	19.9	325	eP	20 33 55.0	2.9		
			eS	20 37 32.0	3.2		
			LN	Ms = 4.3		11.0	0.50
TIA	21.7	297	eP	20 34 08.5	−2.8		
			eS	20 38 06.0	1.4		
			SME	m_B = 5.2		6.0	0.49
			LE	Ms = 4.5		11.0	0.60
WHN	23.4	282	eP	20 34 24.5	−3.6		
			eS	20 38 34.0	−1.4		
			SMN	m_B = 5.4		6.0	0.72
			LN	Ms = 4.5		10.0	0.56
BJI	23.6	306	eP	20 34 27.0	−2.9		
			eS	20 38 42.0	3.4		
			SMN	m_B = 5.1		7.0	0.39
			SME			9.0	0.29
TIY	25.7	298	eP	20 34 50.6	0.4		
			S	20 39 22.5	9.0		
			LN	Ms = 4.5		12.0	0.42
			LE			14.0	0.32
XAN	28.1	290	eP	20 35 10.0	−1.8		
			eS	20 39 57.0	4.3		
BTO	28.2	304	eP	20 35 10.0	−3.4		
			eS	20 39 53.0	−2.6		
GYA	30.6	275	eP	20 35 33.0	−1.7		
CD2	32.5	284	eP	20 35 48.4	−2.7		
			(S)	20 40 57.0	−5.9		
GTA	35.7	299	P	20 36 17.8	−1.3		
			LN	Ms = 4.4		10.0	0.22

1986 4 22
O = 21 25 12.1 ± 0.12s
LAT = 6.27 S ± 1.58km
LONG = 104.66 E ± 2.10km
DEPTH = 32 km ± 0.07km
STATIONS USED = 34, STAND DEV = 1.10s

GYA	32.6	3	P	21 31 44.6	1.3	
CD2	37.0	359	eP	21 32 20.4	−0.3	
XAN	40.3	5	eP	21 32 47.6	−0.8	
BTO	46.9	6	eP	21 33 42.0	0.1	
BJI	47.3	12	eP	21 33 45.0	0.2	
WMQ	52.2	344	−iP	21 34 22.5	0.2	
KSH	52.7	332	eP	21 34 26.0	−0.1	
CN2	53.3	19	+P	21 34 29.6	−0.9	
MDJ	55.4	21	eP	21 34 45.5	−0.6	

1986 4 23
O = 09 11 51.6 ± 0.06s
LAT = 30.68 N ± 1.15km
LONG = 141.91 E ± 1.09km
DEPTH = 11 km ± 0.18km
STATIONS USED = 95, STAND DEV = 1.06s
Ms = 5.7 / 37, m_B = 5.6 / 16

MDJ	17.0	329	+P	09 15 50.4	−0.4	
			PMZ		3.0	0.73
			pP	09 15 58.0	2.6	
			PP	09 16 05.0	0.6	
			S	09 18 57.0	−0.8	
			sS	09 19 08.0	1.9	
			SS	09 19 20.0	1.8	
SSE	17.8	277	+P	09 16 02.0	0.8	
			PMZ		1.4	8.43
			pP	09 16 09.0	3.1	
			sP	09 16 13.0	3.5	
			PP	09 16 15.0	−0.2	
			PPMZ		1.5	0.17
			S	09 19 11.0	−5.8	

			SMN				17.0	7.58
			sS	09	19	26.0	0.9	
			SS	09	19	42.0	3.0	
			PcP	09	20	40.0	1.3	
			LN		Ms = 5.6		12.0	4.74
			LE				14.0	13.1
SNY	18.5	312	+P	09	16	09.0	−0.4	
			PMZ		m_B = 5.5		12.0	2.48
			sP	09	16	22.0	4.3	
			LN		Ms = 5.7		14.0	16.7
			LE				16.0	9.80
CN2	18.5	320	+P	09	16	09.0	−0.7	
			PMZ		m_B = 5.6		4.0	1.10
			pP	09	16	16.0	1.6	
			PP	09	16	25.0	0.4	
			eS	09	19	30.0	−3.1	
			SMN		m_B = 5.5		9.0	2.30
			sS	09	19	44.0	3.2	
			SS	09	20	04.0	7.7	
			LN		Ms = 5.7		14.0	17.1
DL2	18.5	302	eP	09	16	10.0	−0.4	
			eS	09	19	30.0	−4.4	
			LN		Ms = 5.8		14.0	12.9
			LE				15.0	20.5
NJ2	19.7	280	+iP	09	16	24.5	0.1	
TIA	21.4	292	eP	09	16	39.0	−2.7	
			PMZ		m_B = 5.5		7.0	1.32
			eS	09	20	26.0	−8.2	
			SME		m_B = 5.4		6.0	1.03
			LN		Ms = 6.0		15.0	7.99
			LE				16.0	29.8
BJI	22.9	301	eP	09	16	56.0	−0.9	
			ePP	09	17	28.0	2.4	
			eS	09	21	00.0	−2.2	
			SMN		m_B = 5.7		12.0	1.92
			SME				11.0	2.64
			eSS	09	21	50.0	5.1	
			LN		Ms = 5.6		18.0	11.8
WHN	23.7	277	+iP	09	17	05.0	0.4	
			PMZ		m_B = 5.9		4.0	1.94
			pP	09	17	14.0	4.0	
			sP	09	17	18.0	4.9	
			PP	09	17	38.0	1.2	
			eS	09	21	14.5	−1.7	
			sS	09	21	30.0	4.9	
			LN		Ms = 5.8		16.0	15.1
TIY	25.3	294	+iP	09	17	20.0	−0.1	
			PMZ				1.5	0.040
			S	09	21	47.0	4.3	
			SMN		m_B = 5.6		11.5	1.32
			SME				9.0	1.49
			PcS	09	24	39.0	6.7	
			LN		Ms = 5.9		15.0	8.11
			LE				15.0	14.9
GZH	26.5	260	+P	09	17	30.5	−0.9	
			S	09	22	09.0	6.0	
			SMN				14.0	3.90
			SME				14.0	11.0
XAN	28.0	286	+P	09	17	44.0	−1.0	
			eS	09	22	27.0	−0.8	
			LN		Ms = 5.6		12.0	5.74
			LE				13.0	2.00
GYA	31.2	271	P	09	18	11.6	−1.7	
			PP	09	19	12.0	−3.1	
			PcS	09	24	49.0	−1.5	
			SS	09	24	58.0	−4.0	
			LE		Ms = 5.5		12.0	3.60
QZN	31.2	256	P	09	18	14.0	0.4	
			PP	09	19	10.0	−5.8	
			S	09	23	24.0	6.1	
			SMN		m_B = 5.7		10.0	0.95
			SME				11.0	1.13
			LN		Ms = 5.5		13.0	3.60
			LE				13.0	1.70
LZH	32.1	290	P	09	18	20.5	−1.1	
			PMZ				1.5	0.16
			eS	09	23	30.0	−3.0	
			SME		m_B = 5.6		11.0	1.36
			LN		Ms = 5.8		13.0	6.00
			LE				15.0	7.20
CD2	32.7	280	eP	09	18	25.0	−1.4	
			PP	09	19	30.0	−4.8	
			S	09	23	42.0	1.4	
			LE		Ms = 5.9		15.0	11.0
KMI	34.9	271	eP	09	18	45.0	−1.2	
			pP	09	18	56.0	4.4	
			PP	09	20	05.0	1.8	
			eS	09	24	12.0	−5.1	
			LN		Ms = 5.6		13.0	4.40
GTA	35.3	296	+iP	09	18	48.1	−1.0	
			PP	09	20	08.0	0.3	
			S	09	24	21.0	−0.2	
			LE		Ms = 6.0		16.0	13.1
WMQ	44.4	303	P	09	20	05.0	0.7	
			PMZ				1.5	0.59
			sP	09	20	17.5	4.8	
			S	09	26	43.0	5.8	
			LN		Ms = 5.7		12.0	3.92
KSH	53.6	299	+iP	09	21	17.9	2.1	
			iS	09	28	55.9	7.9	

	ScS	09 31 05.9		5.0			
	LN		Ms=6.3		16.0	12.6	

1986 4 23
O=10 08 58.4 ± 0.05s
LAT=56.11 N ± 1.85km
LONG=160.65 E ± 0.91km
DEPTH=163 km ± 0.14km
STATIONS USED = 33, STAND DEV= 0.93s

MDJ	22.7	253	eP	10 13 45.5	−1.5		
CN2	25.5	256	−P	10 14 12.8	−0.5		
SNY	27.8	255	eP	10 14 33.8	−1.0		
BJI	33.1	260	eP	10 15 21.5	0.3		
GTA	42.7	274	+iP	10 16 41.5	0.4		
			LE			12.0	0.65
WMQ	46.3	287	P	10 17 10.5	0.2		
KSH	55.6	291	eP	10 18 20.0	−0.2		

1986 4 23
O=12 13 03.3 ± 0.11s
LAT= 3.11 N ± 1.51km
LONG=127.81 E ± 2.29km
DEPTH=117 km ± 0.42km
STATIONS USED = 57, STAND DEV= 1.23s

QZN	23.6	313	eP	12 18 04.8	−0.2		
GZH	24.3	326	−iP	12 18 11.5	0.2		
NJ2	30.0	345	+P	12 19 03.0	−0.3		
WHN	30.1	336	P	12 19 05.5	1.2		
			PMZ			1.0	0.070
GYA	30.8	321	P	12 19 10.0	−0.8		
TIA	34.4	345	eP	12 19 41.3	−0.2		
XAN	35.5	332	+P	12 19 50.0	−0.6		
CD2	35.8	323	eP	12 19 53.3	0.0		
TIY	37.2	340	−iP	12 20 05.8	0.4		
BJI	38.2	346	eP	12 20 14.0	0.1		
			epP	12 20 44.0	3.9		
SNY	38.7	355	+P	12 20 18.1	0.1		
LZH	39.6	329	+iP	12 20 26.5	1.3		
CN2	40.6	357	eP	12 20 32.4	−0.8		
BTO	40.6	339	eP	12 20 33.3	−0.5		
MDJ	41.4	2	eP	12 20 39.1	−0.6		
			pP	12 21 12.6	6.6		
GTA	44.2	329	+iP	12 21 02.9	0.2		
WMQ	53.8	325	P	12 22 17.0	0.0		
KSH	59.2	315	eP	12 22 56.0	0.9		

1986 4 23
O=12 28 30.1 ± 0.12s
LAT= 0.34 N ± 1.86km
LONG= 98.89 E ± 1.35km
DEPTH= 84 km ± 1.71km
STATIONS USED = 13, STAND DEV= 2.08s

GYA	27.0	15	eP	12 34 06.3	−0.4
XAN	34.8	15	eP	12 35 14.0	−1.1
GTA	38.9	1	eP	12 35 51.0	1.6
BJI	42.5	20	eP	12 36 19.0	−0.3
WMQ	44.4	348	eP	12 36 37.5	2.7
CN2	49.3	25	+P	12 37 11.0	−2.1

1986 4 23
O=15 17 06.8 ± 0.13s
LAT=47.51 N ± 1.69km
LONG= 89.40 E ± 1.60km
DEPTH= 17 km ± 0.59km
STATIONS USED = 79, STAND DEV= 2.35s
Ms=4.9/28,

WMQ	3.9	199	−iPn	15 18 09.0	2.8		
			Pg	15 18 19.5	4.3		
			Sn	15 18 58.0	4.9		
			Sg	15 19 11.0	2.7		
			SMN			2.0	13.2
GTA	11.1	133	P	15 19 42.9	−5.0		
			LN	Ms=4.9		6.0	2.79
KSH	12.6	235	eP	15 20 07.8	−1.1		
			eS	15 22 32.8	2.5		
			LG_2	15 23 53.8	−9.6		
			LE	Ms=5.2		6.0	4.30
LZH	15.7	132	eP	15 20 47.5	−1.3		
			LG_1	15 25 11.0	−7.7		
			LN	Ms=5.0		9.0	2.26
			LE			10.0	1.76
BTO	16.3	107	eP	15 20 57.5	0.2		
			pP	15 21 05.0	2.4		
			eS	15 23 58.0	0.0		
			LG_1	15 25 32.5	−7.1		
			LG_2	15 25 58.0	−7.5		
			LN	Ms=4.6		11.0	1.10
			LE			12.0	1.10
LSA	17.8	175	P	15 21 17.4	0.8		
			S	15 24 40.0	8.4		
			LE	Ms=4.5		16.0	1.22
TIY	19.5	112	eP	15 21 35.0	−1.4		
			S	15 25 08.5	−1.2		
			SS	15 25 33.5	−2.6		
			LG_1	15 27 20.0	0.3		
			LN	Ms=4.8		10.5	1.10
			LE			12.0	1.03
CD2	19.9	141	eP	15 21 42.3	1.5		
			(S)	15 25 28.0	9.0		
			LE	Ms=4.9		10.0	1.73

XAN	19.9	125	eP	15 21 38.4	−2.5		
			LG_1	15 27 24.0	−8.4		
			LG_2	15 27 56.0	−7.9		
			LN	Ms=4.9		12.0	1.50
			LE			11.0	1.53
BJI	20.7	101	eP	15 21 47.0	−1.6		
			(S)	15 25 34.0	0.0		
			LG_1	15 27 49.0	−6.6		
			LN	Ms=4.8		12.0	0.89
			LE			11.0	1.29
TIA	23.4	109	eP	15 22 19.6	3.5		
KMI	24.7	150	+P	15 22 31.5	2.4		
			eS	15 26 47.0	−0.9		
			LE	Ms=4.7		10.0	0.83
SNY	24.8	91	eP	15 22 28.0	−1.9		
			eS	15 26 49.0	−0.2		
			LN	Ms=5.1		15.0	2.40
			LE			15.0	1.00
GYA	25.0	141	P	15 22 31.3	−0.6		
			pP	15 22 40.4	2.2		
			S	15 26 50.0	−1.8		
			LE	Ms=4.9		13.0	1.60
CN2	25.3	85	eP	15 22 33.0	−1.6		
WHN	25.6	123	eP	15 22 38.5	1.6		
			eS	15 27 03.0	1.3		
			LN	Ms=4.9		12.0	1.33
NJ2	27.2	114	+P	15 22 54.8	2.9		
			LN	Ms=4.8		10.0	0.90
MDJ	27.8	81	eP	15 23 01.0	3.3		
			eS	15 27 40.0	1.5		
			LE	Ms=4.8		9.0	0.78
SSE	29.3	113	eP	15 23 20.0	9.2		
			LN	Ms=4.7		16.0	0.58
			LE			16.0	0.68
QZN	32.9	143	eP	15 23 45.0	1.9		
			eS	15 29 01.0	1.5		
			LN	Ms=5.1		13.0	0.55
			LE			14.0	1.50

1986 4 23
O=17 10 58.0 ± 0.21s
LAT=25.11 N ± 2.58km
LONG=122.61 E ± 2.60km
DEPTH= 23 km ± 0.59km
STATIONS USED = 13, STAND DEV= 3.92s
Ms=4.3/ 6,

QZH	3.7	268	ePn	17 11 51.3	−2.3		
			eSn	17 12 43.0	5.2		
			LN	Ms=3.6		11.0	1.40
			LE			11.0	0.84
GYA	14.4	279	eP	17 14 29.4	6.1		
			eS	17 17 10.0	6.3		
			LN	Ms=4.3		10.0	0.66
			LE			10.0	0.45
XAN	14.9	310	eP	17 14 33.6	4.9		
			LN	Ms=4.3		9.0	0.61
			LE			10.0	0.34
CD2	17.6	293	(P)	17 15 03.6	−0.3		
			LN	Ms=4.5		8.0	0.76
CN2	18.8	6	eP	17 15 15.5	−2.9		
			LE	Ms=4.0		18.0	0.40
MDJ	20.3	15	eP	17 15 32.0	−2.9		
			S	17 19 23.0	7.2		
GTA	23.9	312	eP	17 16 06.0	−5.3		
			LN	Ms=4.3		11.5	0.36

1986 4 23
O=20 27 12.4 ± 0.30s
LAT= 3.65 S ± 5.62km
LONG= 80.91 W ± 6.80km
DEPTH= 42 km ± 2.83km
STATIONS USED = 68, STAND DEV= 2.56s

MDJ	131.2	331	ePKP	20 46 20.1	−1.0
WMQ	138.7	13	PKP	20 46 36.0	0.7
BJI	140.6	339	ePKP	20 46 32.0	−6.5
BTO	141.9	346	ePKP	20 46 36.5	−4.4
TIA	143.6	335	ePKP	20 46 40.6	−3.0
TIY	144.0	342	−iPKP	20 46 43.0	−1.4
GTA	144.4	359	+iPKP	20 46 43.6	−1.6
SSE	145.7	325	+PKP	20 46 47.0	−0.2
NJ2	146.2	329	−PKP	20 46 48.8	0.7
LZH	147.4	353	+iPKP	20 46 51.5	1.1
XAN	148.4	344	+PKP	20 46 52.5	0.6
WHN	149.6	333	+PKP	20 46 59.0	5.3
CD2	152.5	351	ePKP	20 47 00.1	1.9
LSA	153.0	15	PKP	20 47 00.0	0.7
GYA	156.2	343	PKP	20 47 03.8	0.6
KMI	158.4	351	ePKP	20 47 04.5	−1.7

1986 4 23
O=23 52 50.5 ± 0.12s
LAT= 5.13 N ± 2.18km
LONG= 94.05 E ± 1.64km
DEPTH= 32 km ± 0.22km
STATIONS USED = 14, STAND DEV= 1.87s

QZN	20.7	47	eP	23 57 31.6	1.0
KMI	21.6	22	eP	23 57 40.5	0.8
GYA	24.4	28	P	23 58 09.3	1.9
LSA	24.6	354	eP	23 58 08.8	−0.9
XAN	31.9	24	eP	23 59 14.0	−1.7

WMQ	38.9	353	P	24 00 11.3	−4.3		
			1986 4 24				
			O=00 22 14.6	± 0.09s			
			LAT=47.50 N	± 1.18km			
			LONG= 89.58 E	± 1.08km			
			DEPTH= 22 km	± 0.44km			
			STATIONS USED = 78, STAND DEV= 1.71s				
			Ms=5.1/27,				
WMQ	3.9	200	Pn	00 23 17.0	3.0		
			Pg	00 23 27.0	3.3		
			Sn	00 24 08.0	7.0		
			Sg	00 24 23.0	5.8		
			SMN			2.0	15.7
			SME			2.0	13.9
GTA	11.0	134	P	00 24 50.3	−3.6		
			LG_1	00 27 51.0	−8.4		
			LE	Ms=5.3		6.0	6.52
KSH	12.7	236	eP	00 25 16.5	−1.0		
			eS	00 27 39.0	−0.6		
			LG_1	00 29 00.0	5.8		
			LE	Ms=5.2		6.0	4.30
LZH	15.6	132	eP	00 25 54.0	−0.9		
			eS	00 28 41.5	−5.9		
			LG_1	00 30 18.0	−5.6		
			LN	Ms=5.2		8.0	3.64
			LE			5.0	1.72
BTO	16.2	108	eP	00 26 02.3	−0.8		
			eS	00 28 59.0	−3.2		
			LN	Ms=4.8		9.0	1.60
			LE			10.0	1.00
LSA	17.8	176	eP	00 26 25.6	2.0		
			S	00 29 41.3	3.1		
			LE	Ms=4.8		17.0	2.66
TIY	19.4	112	−iP	00 26 42.1	−0.2		
			PMZ			1.3	0.14
			S	00 30 12.5	−1.3		
			sS	00 30 24.5	0.1		
			SS	00 30 39.0	−1.1		
			LN	Ms=4.8		9.0	1.25
			LE			11.0	0.77
XAN	19.8	126	eP	00 26 45.0	−1.9		
			sS	00 30 30.0	−3.6		
			LG_2	00 33 00.0	−8.4		
			LN	Ms=5.1		9.0	2.03
			LE			9.0	1.83
CD2	19.8	142	eP	00 26 49.4	2.4		
			eS	00 30 27.0	2.7		
			LE	Ms=5.2		11.0	3.86
BJI	20.5	102	eP	00 26 54.5	0.0		
			eLG_1	00 32 58.0	−1.6		
			eLG_2	00 33 28.0	−4.2		
			LN	Ms=4.9		6.0	0.73
			LE			10.0	1.08
TIA	23.3	109	eP	00 27 23.3	1.2		
			LE	Ms=4.9		9.0	1.15
KMI	24.7	150	eP	00 27 35.0	−0.6		
			pP	00 27 45.0	2.5		
			S	00 31 51.0	−1.3		
			LE	Ms=5.0		10.0	1.73
SNY	24.7	91	−iP	00 27 36.6	0.8		
			eS	00 32 00.0	6.0		
			LN	Ms=5.2		13.0	3.11
			LE			11.0	0.95
GYA	24.9	141	P	00 27 38.6	0.3		
			pP	00 27 44.0	−1.3		
			S	00 31 58.6	1.4		
			ScS	00 38 36.0	−0.9		
			LE	Ms=5.2		14.0	3.30
CN2	25.2	85	+P	00 27 40.6	0.0		
			sP	00 27 49.8	−1.4		
			eS	00 31 58.0	−4.4		
WHN	25.5	123	eP	00 27 42.5	−0.6		
			sP	00 27 56.5	2.8		
			LN	Ms=5.1		9.0	1.61
NJ2	27.1	114	eP	00 27 56.5	−1.5		
			LN	Ms=4.9		9.0	0.90
MDJ	27.7	81	eP	00 28 04.3	0.6		
			S	00 32 41.8	−0.7		
SSE	29.2	113	e(P)	00 28 15.0	−1.9		
			esP	00 28 27.5	−0.1		
			eS	00 33 02.0	−4.9		
			sS	00 33 17.0	−2.2		
			LN	Ms=4.9		13.0	1.08
QZN	32.9	143	eP	00 28 46.5	−3.0		
			eS	00 34 03.0	−2.0		
			LN	Ms=5.4		14.0	2.20
			LE			14.0	2.90
			1986 4 24				
			O=02 05 47.3	± 0.12s			
			LAT=32.50 N	± 0.62km			
			LONG=121.87 E	± 1.13km			
			DEPTH= 16 km				
			STATIONS USED = 6, STAND DEV= 1.54s				
			M_L=3.4/ 6,				
SSE	1.5	203	Pn	02 06 15.5	1.1		
			Pg	02 06 16.3	2.0		
			Sg	02 06 35.5	0.4		
			SMN	M_L=3.4		0.4	0.42

			SME			0.4	0.55
NJ2	2.6	261	+iPg	02 06 33.4	0.1		
			iSg	02 07 05.9	−2.9		
			SMN	M_L=3.8		0.6	0.49
			SME			0.6	0.58

1986 4 24
O=02 36 46.6 ± 0.06s
LAT=30.75 N ± 1.69km
LONG=141.62 E ± 1.81km
DEPTH= 57 km ± 1.75km
STATIONS USED = 33, STAND DEV= 1.53s
Ms=4.4/11,

MDJ	16.8	329	eP	02 40 40.4	1.1		
SSE	17.5	276	eP	02 40 48.0	−0.8		
			(S)	02 44 00.0	0.6		
			LE	Ms=4.3		15.0	0.74
SNY	18.2	312	eP	02 40 58.0	0.7		
			LN	Ms=4.5		14.0	0.88
			LE			16.0	0.87
CN2	18.3	320	+P	02 40 56.8	−1.0		
			eS	02 44 18.0	2.2		
BJI	22.7	301	eP	02 41 45.0	0.9		
			LE	Ms=4.4		16.0	0.66
WHN	23.4	277	eP	02 41 52.0	0.2		
			eS	02 46 02.0	4.8		
			SS	02 46 48.0	1.6		
			LE	Ms=4.3		16.0	0.57
TIY	25.0	294	eP	02 42 07.3	−0.1		
			(S)	02 46 26.0	1.3		
			LE	Ms=4.3		16.0	0.45
BTO	27.4	300	eP	02 42 29.0	0.1		
			eS	02 47 07.0	4.2		
			LN	Ms=4.9		17.0	0.80
			LE			17.0	1.50
XAN	27.7	285	eP	02 42 31.5	−0.8		
WMQ	44.1	303	P	02 44 53.5	1.9		

1986 4 24
O=12 39 56.0 ± 0.14s
LAT=43.34 N ± 2.13km
LONG=105.64 E ± 1.34km
DEPTH= 12 km ± 1.02km
STATIONS USED = 12, STAND DEV= 3.36s
M_L=3.7/ 7,

BTO	4.3	129	Pn	12 41 02.0	0.8		
			Pg	12 41 11.3	0.1		
			Sg	12 42 05.8	−3.8		
			SMN	M_L=3.5		0.4	0.12
			SME			0.4	0.050
HHC	5.1	117	Pn	12 41 11.6	−0.6		
			Pg	12 41 27.0	1.6		
			Sn	12 42 03.8	−8.8		
			Sg	12 42 28.0	−6.6		
			SMN	M_L=4.0		0.6	0.19
			SME			0.6	0.19
GTA	5.9	230	Pn	12 41 23.3	−0.2		
			Pg	12 41 42.3	2.5		
			Sn	12 42 28.3	−4.6		
			Sg	12 42 54.5	−5.8		
			SMN	M_L=3.3		0.8	0.022
			SME			0.7	0.022
LZH	7.4	191	ePg	12 42 06.5	0.0		
XAN	9.6	163	eP	12 42 22.0	4.2		

1986 4 24
O=16 28 36.9 ± 0.09s
LAT=28.30 N ± 1.49km
LONG=140.71 E ± 1.95km
DEPTH= 33 km ± 0.53km
STATIONS USED = 37, STAND DEV= 1.45s
Ms=4.3/12, m_B=5.2/10

SSE	17.2	284	P	16 32 36.0	−0.3		
			esS	16 36 00.0	3.1		
			LN	Ms=3.9		10.0	0.22
MDJ	18.5	334	eP	16 32 56.0	2.8		
DL2	19.1	309	eP	16 32 58.0	−1.4		
			S	16 36 27.0	0.4		
			LN	Ms=4.2		10.0	0.39
NJ2	19.3	287	+P	16 33 02.5	0.9		
			PMZ	m_B=5.6		5.0	1.40
			sS	16 36 50.0	6.2		
			LN	Ms=4.5		9.5	0.70
SNY	19.4	319	eP	16 33 02.3	−1.0		
			eS	16 36 33.0	−2.2		
			LE	Ms=4.2		14.0	0.47
CN2	19.7	326	+P	16 33 06.0	−0.9		
			PMZ	m_B=4.8		4.5	0.20
			eS	16 36 40.0	−2.6		
			LE	Ms=4.2		15.0	0.50
TIA	21.4	298	eP	16 33 22.4	−2.0		
			LE	Ms=4.4		10.0	0.50
WHN	23.1	282	P	16 33 42.0	1.4		
			PMZ	m_B=5.3		5.0	0.70
			eS	16 37 52.0	6.7		
			LE	Ms=4.4		12.0	0.50
BJI	23.4	306	eP	16 33 42.5	−1.1		
			eS	16 37 56.0	5.4		
			SMN	m_B=5.2		7.0	0.39
			SME			8.0	0.43

TIY	25.4	299	eP	16 34 03.5	−0.1		
			PMZ	m_B = 5.5		6.0	0.68
			S	16 38 33.5	8.3		
			sS	16 38 44.5	3.9		
			LE	Ms = 4.2		15.0	0.38
XAN	27.7	290	eP	16 34 21.6	−3.2		
			eS	16 39 03.0	−0.7		
BTO	28.0	304	eP	16 34 26.5	−0.7		
			eS	16 39 11.0	3.1		
GYA	30.2	275	P	16 34 47.0	−0.3		
CD2	32.1	284	P	16 35 03.3	−0.8		
GTA	35.5	299	P	16 35 31.5	−1.2		
			PP	16 36 55.0	2.4		
			LN	Ms = 4.4		11.0	0.21
WMQ	44.8	305	eP	16 36 49.5	−0.6		

1986 4 24
O = 22 13 27.2 ± 0.24s
LAT = 24.56 N ± 3.47km
LONG = 121.59 E ± 2.92km
DEPTH = 15 km ± 1.81km
STATIONS USED = 21, STAND DEV = 1.96s
Ms = 3.7 / 2, M_L = 3.8 / 3,

QZH	2.8	279	ePn	22 14 10.5	−0.7		
			Pg	22 14 21.3	5.4		
			Sn	22 14 51.0	4.9		
			LN			9.0	0.55
			LE			8.0	0.45
GZH	7.7	261	ePn	22 15 20.0	0.9		
			Sn	22 16 46.0	−2.4		
NJ2	7.8	343	ePn	22 15 20.5	−0.7		
			Sn	22 16 48.6	−3.6		
			LN	Ms = 3.7		8.0	0.40
WHN	8.8	314	eP	22 15 36.0	−0.5		
			LG_2	22 18 12.0	−4.4		
			LN	Ms = 3.7		8.0	0.35
GYA	13.6	281	eP	22 16 42.4	−0.2		
XAN	14.5	313	eP	22 16 58.8	4.2		
CD2	17.0	296	(P)	22 17 28.8	2.4		
CN2	19.5	8	eP	22 17 54.8	−1.5		
GTA	23.6	314	eP	22 18 39.1	0.4		

1986 4 25
O = 16 12 32.8 ± 0.11s
LAT = 40.10 N ± 1.51km
LONG = 77.24 E ± 1.22km
DEPTH = 19 km ± 0.24km
STATIONS USED = 83, STAND DEV = 1.59s
Ms = 5.4 / 33, M_L = 5.3 / 2, m_B = 5.7 / 8

KSH	1.2	237	−iPg	16 12 57.0	3.2		
WMQ	8.6	61	+P	16 14 40.0	0.0		
			S	16 16 20.0	2.6		
			LG_1	16 17 01.0	−2.9		
			LN	Ms = 5.5		8.0	22.3
LSA	15.4	128	P	16 16 12.3	0.7		
			S	16 19 07.0	5.6		
			sS	16 19 09.0	−2.0		
			SMN	m_B = 4.9		10.0	0.87
GTA	17.4	85	P	16 16 33.3	−2.9		
			pP	16 16 38.8	−3.1		
			iSS	16 20 00.5	−7.7		
			LG_2	16 22 14.5	8.6		
			LN	Ms = 5.3		9.0	5.37
LZH	21.3	92	+iP	16 17 21.3	0.3		
			PMZ			2.0	0.35
			pP	16 17 27.0	−0.4		
			S	16 21 18.0	6.9		
			SME	m_B = 5.8		8.0	2.90
			PcS	16 25 04.0	2.4		
			LN	Ms = 5.5		12.0	6.19
			LE			8.0	2.00
CD2	23.4	105	eP	16 17 44.0	2.3		
			LE	Ms = 5.5		8.0	4.18
BTO	24.9	78	P	16 17 58.0	1.4		
			PMZ	m_B = 5.8		4.0	1.40
			pP	16 18 06.0	2.9		
			ePP	16 18 36.0	3.1		
			eS	16 22 17.0	0.5		
			sS	16 22 32.0	4.7		
			LN	Ms = 5.4		12.0	3.80
			LE			11.0	3.10
XAN	25.9	93	+P	16 18 06.0	0.1		
			sP	16 18 20.0	4.2		
			S	16 22 38.0	6.0		
			LN	Ms = 5.5		13.0	3.43
			LE			13.0	4.29
KMI	26.0	117	+P	16 18 07.5	0.2		
			eS	16 22 35.0	−0.5		
			LN	Ms = 5.2		13.0	2.60
TIY	27.4	84	−iP	16 18 21.0	1.5		
			S	16 23 04.0	7.8		
			LN	Ms = 5.4		11.0	3.40
			LE			11.0	2.06
GYA	28.0	110	P	16 18 25.0	0.2		
			pP	16 18 34.8	3.3		
			S	16 23 03.5	−2.0		
			SS	16 24 27.0	−0.1		
			LN	Ms = 5.2		11.0	1.40
			LE			11.0	1.60
BJI	29.6	77	eP	16 18 40.0	0.4		

			eS	16 23 32.0	−1.1		
			esS	16 23 47.0	2.4		
			LN	Ms = 5.2		8.0	1.47
TIA	31.4	84	eP	16 18 57.0	1.5		
			S	16 24 09.0	8.7		
			LN	Ms = 5.3		14.0	0.61
			LE			13.0	2.79
WHN	31.6	96	eP	16 18 57.5	0.9		
			PMZ	m_B = 5.8		4.0	0.65
			sP	16 19 11.0	4.3		
			eS	16 24 04.0	0.7		
			LN	Ms = 5.4		10.0	2.40
DL2	34.0	77	eP	16 19 19.0	1.0		
			eS	16 24 42.0	0.5		
			LN	Ms = 5.0		13.0	1.15
SNY	34.7	72	+P	16 19 24.0	0.0		
			sP	16 19 37.5	3.4		
			S	16 24 55.0	3.5		
			LN	Ms = 5.4		16.0	3.70
GZH	34.8	108	+P	16 19 25.0	−0.1		
			eS	16 25 00.0	5.7		
			LN	Ms = 5.4		11.0	1.80
			LE			10.0	1.60
QZN	35.0	117	P	16 19 27.5	1.0		
			ePP	16 20 47.5	3.3		
			S	16 25 00.0	4.1		
			LN	Ms = 5.3		15.0	1.86
			LE			16.0	2.27
CN2	35.6	68	−P	16 19 31.5	−0.5		
			PMZ			3.0	0.30
			epP	16 19 43.0	4.1		
			eS	16 25 05.0	−1.9		
			LN	Ms = 5.6		10.0	2.70
			LE			10.0	1.40
SSE	36.5	90	eP	16 19 38.0	−1.5		
			eS	16 25 18.0	−2.6		
			LN	Ms = 5.4		14.0	1.40
			LE			14.0	2.34
MDJ	38.4	66	eP	16 19 55.0	−0.2		
			pP	16 20 05.0	2.8		
			PP	16 21 27.0	0.8		
			S	16 25 47.5	−0.6		

1986 4 25
O = 16 47 49.2 ± 0.13s
LAT = 17.30 S ± 2.47km
LONG = 173.79 W ± 2.01km
DEPTH = 139 km ± 0.64km
STATIONS USED = 52, STAND DEV = 1.35s

MDJ	80.3	323	eP	16 59 46.5	−0.4	
NJ2	81.0	307	+P	16 59 50.5	−0.2	
CN2	82.3	320	+P	16 59 57.0	−0.4	
SNY	82.4	318	+iP	16 59 58.0	0.0	
WHN	83.8	304	eP	17 00 05.5	0.3	
TIA	84.1	311	eP	17 00 07.0	0.3	
BJI	86.5	314	eP	17 00 18.5	0.2	
TIY	88.2	310	P	17 00 27.5	1.0	
GYA	88.6	298	+P	17 00 29.5	1.0	
XAN	89.4	306	+P	17 00 32.5	0.2	
KMI	91.5	296	+P	17 00 44.0	1.8	
CD2	92.5	301	(P)	17 00 47.0	0.5	
LZH	94.0	306	P	17 00 54.5	0.8	
GTA	98.1	309	P	17 01 12.0	0.0	

1986 4 25
O = 18 07 08.2 ± 0.06s
LAT = 11.46 N ± 0.80km
LONG = 142.38 E ± 0.83km
DEPTH = 32 km ± 0.08km
STATIONS USED = 19, STAND DEV = 0.93s

BJI	36.7	325	eP	18 14 14.0	−0.5		
TIY	37.4	319	eP	18 14 22.0	1.2		
XAN	37.9	312	eP	18 14 24.5	−0.1		
CD2	40.6	304	eP	18 14 47.5	0.4		
GTA	46.8	314	P	18 15 37.0	−0.5		

1986 4 25
O = 19 24 55.8 ± 0.57s
LAT = 36.42 N ± 3.03km
LONG = 125.52 E ± 4.03km
DEPTH = 16 km
STATIONS USED = 9, STAND DEV = 2.50s
M_L = 4.1 / 6,

DL2	4.0	310	Pg	19 26 06.0	0.3		
			Sg	19 26 52.0	−7.8		
			SMN	M_L = 4.3		1.0	0.54
			SME			1.0	0.65
SNY	5.6	345	+iPg	19 26 33.5	−1.3		
			Sg	19 27 44.3	−7.1		
			SMN	M_L = 4.2		0.6	0.13
			SME			1.0	0.28
TIA	6.8	271	ePg	19 26 56.3	0.7		
			eSg	19 28 23.5	−4.7		
			SMN	M_L = 3.8		0.6	0.050
			SME			1.2	0.040
CN2	7.4	360	Pg	19 27 05.8	−0.2		
			SMN	M_L = 4.3		1.0	0.080
			SME			1.0	0.14
GTA	20.5	286	eP	19 29 33.5	−2.6		

1986 4 25
O = 20 44 43.0 ± 0.06s
LAT = 8.94 S ± 1.43km
LONG = 158.44 E ± 1.56km
DEPTH = 49 km ± 0.75km
STATIONS USED = 16, STAND DEV = 1.45s

MDJ	59.3	336	eP	20 54 43.0	0.0	
CN2	60.4	333	−P	20 54 50.0	−0.5	
XAN	63.5	315	eP	20 55 10.0	−0.9	
			pP	20 55 16.8	−6.8	
GTA	72.5	316	P	20 56 07.5	0.2	

1986 4 25
O = 23 11 27.4 ± 0.11s
LAT = 36.49 N ± 1.62km
LONG = 71.28 E ± 1.49km
DEPTH = 36 km ± 0.39km
STATIONS USED = 13, STAND DEV = 2.57s
M_L = 4.4 / 1,

KSH	4.7	50	eP	23 12 44.8	6.0		
			S	23 13 37.8	5.0		
			SMN	M_L = 4.4		0.2	0.46
			SME			0.2	0.56
WMQ	14.5	55	eP	23 14 51.0	−1.6		
GTA	22.6	74	P	23 16 27.0	−0.1		

1986 4 26
O = 00 25 59.2 ± 0.07s
LAT = 22.86 N ± 1.36km
LONG = 94.42 E ± 1.14km
DEPTH = 117 km ± 0.73km
STATIONS USED = 77, STAND DEV = 1.60s
m_B = 5.3 / 4

LSA	7.4	337	P	00 27 46.0	−0.9		
			S	00 29 10.0	0.7		
			LN			3.0	0.88
KMI	7.9	72	+iP	00 27 57.0	3.4		
			PMZ			1.5	0.15
			sP	00 28 23.0	0.1		
			S	00 29 26.0	4.2		
CD2	11.6	44	eP	00 28 42.0	0.1		
			eS	00 30 52.0	2.9		
			LN			7.0	1.51
GYA	11.7	70	P	00 28 44.3	0.6		
			sP	00 29 11.5	−3.4		
			PcP	00 34 25.0	1.0		
			S	00 30 54.0	2.1		
			LN			9.0	1.80
			LE			9.0	1.30
QZN	14.9	102	eP	00 29 25.0	−0.2		
			eS	00 32 05.0	−2.6		
			LE			9.0	0.38
LZH	15.5	30	eP	00 29 31.0	−2.1		
			PMZ			2.0	0.14
XAN	16.9	46	+P	00 29 49.0	−1.3		
			S	00 32 57.0	4.4		
			LN			8.0	0.60
			LE			8.0	0.32
GTA	17.1	14	P	00 29 50.3	−2.7		
			eS	00 32 55.5	−2.8		
			SMN	m_B = 5.5		3.5	0.61
			sS	00 33 21.0	4.6		
GZH	17.4	86	+iP	00 29 57.0	0.5		
			LN			8.0	1.15
WHN	19.4	62	eP	00 30 18.0	−0.2		
			eS	00 33 47.0	0.8		
			SMN	m_B = 5.5		6.0	0.72
			LN			9.0	0.71
TIY	21.4	42	−P	00 30 38.5	−0.8		
			PMZ			0.8	0.040
			S	00 34 29.5	5.3		
			LN			8.0	0.40
WMQ	21.6	347	P	00 30 43.0	1.5		
			PMZ			1.0	0.030
			pP	00 31 02.5	−2.3		
			S	00 34 36.0	7.9		
			LE			6.0	0.92
BTO	22.0	33	eP	00 30 45.5	−0.1		
			pP	00 31 09.0	−0.1		
			eS	00 34 38.0	1.5		
			LN			10.0	0.30
			LE			10.0	0.50
KSH	22.8	321	−P	00 30 57.0	4.2		
			LE			7.0	1.23
BJI	25.1	42	eP	00 31 15.0	−0.3		
			pP	00 31 36.5	−3.3		
			eS	00 35 33.0	3.8		
			SMN	m_B = 5.0		5.0	0.28
SSE	25.2	65	+P	00 31 14.8	−0.8		
			PMZ			0.8	0.11
			sP	00 31 51.0	−3.4		
			LN			10.0	0.31
CN2	33.0	43	eP	00 32 23.3	−2.2		

1986 4 26
O = 07 35 15.3 ± 0.08s
LAT = 32.21 N ± 1.44km
LONG = 76.41 E ± 1.30km
DEPTH = 29 km ± 0.21km
STATIONS USED = 100, STAND DEV = 1.39s

Ms = 5.6 / 40,			m_B = 5.7 / 13				
KSH	7.2	357	+iPn	07 37 05.0	5.2		
			iSn	07 38 29.0	6.1		
			SME			2.0	47.9
LSA	12.9	97	+P	07 38 16.5	−3.5		
			iS	07 40 38.5	−5.5		
			SME			1.2	0.070
			LN	Ms = 5.3		9.0	8.37
WMQ	14.6	34	P	07 38 40.0	−2.0		
			S	07 41 24.0	0.8		
			LG_1	07 43 00.0	6.2		
			LG_2	07 43 11.0	−5.9		
			LN	Ms = 5.6		11.0	15.9
GTA	20.3	63	+iP	07 39 51.5	−0.1		
			PMZ	m_B = 5.6		5.0	1.45
			pP	07 39 58.8	−0.5		
			S	07 43 38.5	6.6		
			LE	Ms = 5.5		13.0	7.89
LZH	23.0	73	+iP	07 40 20.0	0.8		
			S	07 44 31.5	8.7		
			LN	Ms = 5.6		10.0	4.39
			LE			12.0	5.43
CD2	23.3	86	eP	07 40 23.0	0.8		
			eS	07 44 36.0	6.7		
			LN	Ms = 5.9		9.0	3.49
			LE			12.0	13.5
KMI	24.1	100	+iP	07 40 31.0	0.9		
			PMZ	m_B = 5.8		4.0	1.50
			sP	07 40 44.5	2.5		
			LN	Ms = 5.4		13.0	4.84
GYA	26.9	94	+P	07 40 56.5	−0.1		
			PMZ			1.0	0.11
			pP	07 41 05.5	0.7		
			PP	07 41 46.0	4.2		
			S	07 45 32.0	2.8		
			sS	07 45 45.0	1.0		
			ScP	07 47 49.0	−5.4		
			LN	Ms = 5.6		12.0	5.10
			LE			12.0	3.10
XAN	27.2	77	+P	07 40 58.5	−0.7		
			eS	07 45 37.0	2.1		
			sS	07 45 50.0	1.2		
			LN	Ms = 5.7		10.0	3.15
			LE			11.0	5.85
BTO	28.2	63	−iP	07 41 09.5	1.6		
			pP	07 41 19.0	2.8		
			cPP	07 42 01.5	3.5		
			S	07 45 57.0	7.7		
			LN	Ms = 5.5		12.0	2.90
			LE			14.0	4.70
HHC	29.4	63	−P	07 41 18.5	−0.1		
			S	07 46 09.0	0.7		
			LN	Ms = 5.6		10.0	2.00
			LE			14.0	5.10
TIY	29.9	69	+iP	07 41 23.0	−0.2		
			S	07 46 21.0	4.3		
			SMN	m_B = 5.7		6.0	0.96
			SME			6.0	0.35
			LN	Ms = 5.9		12.0	3.36
			LE			12.0	9.45
WHN	32.3	83	eP	07 41 44.0	−0.5		
			sP	07 41 57.0	0.2		
			S	07 46 58.0	3.3		
			SMN	m_B = 5.2		10.0	0.55
			ScP	07 48 09.0	−2.7		
			ScS	07 52 01.0	−8.5		
			LN	Ms = 5.8		10.0	5.91
QZN	32.7	105	P	07 41 49.0	0.9		
			S	07 47 03.0	1.9		
			SS	07 48 57.5	−2.2		
			ScS	07 52 16.0	4.4		
			LN	Ms = 5.5		9.5	1.87
			LE			9.5	1.95
BJI	32.8	65	eP	07 41 50.0	1.0		
			cScP	07 48 15.5	1.9		
			eS	07 47 01.0	−2.6		
			esS	07 47 17.0	−0.9		
			eScS	07 52 15.5	3.4		
			LN	Ms = 5.3		10.0	2.14
TIA	33.7	72	eP	07 41 56.0	−0.7		
			S	07 47 09.0	−7.6		
			ScS	07 52 10.5	−6.2		
			LN	Ms = 5.9		12.5	1.50
			LE			12.5	9.23
GZH	33.8	96	−iP	07 41 57.5	0.1		
			S	07 47 19.0	1.1		
			LE	Ms = 5.6		10.0	3.75
NJ2	35.8	79	+P	07 42 14.0	−0.1		
			S	07 47 51.5	3.4		
			SS	07 50 18.0	8.1		
			LN	Ms = 5.8		10.0	5.50
DL2	37.1	67	eP	07 42 26.0	0.7		
			eS	07 48 10.0	0.7		
			LN	Ms = 5.5		13.0	1.23
			LE			12.0	2.71
QZH	37.6	90	eP	07 42 29.3	0.1		
			eS	07 48 09.0	−7.4		
			LN	Ms = 5.5		10.0	1.53
			LE			12.0	2.63
SSE	37.9	79	+P	07 42 32.0	−0.3		

			PP	07 44 04.0	2.2		
			LN	Ms=5.8		16.0	7.76
SNY	38.5	62	-iP	07 42 37.0	0.4		
			PP	07 44 14.0	5.9		
			LN	Ms=5.5		10.0	1.10
			LE			15.0	3.10
CN2	39.8	59	+P	07 42 47.5	-0.4		
			PMZ			3.0	0.50
			pP	07 42 58.5	1.9		
			ePP	07 44 25.0	1.4		
			eS	07 48 52.0	1.5		
			sS	07 49 07.0	2.2		
			eSS	07 51 45.0	5.4		
			LN	Ms=5.6		12.0	3.10
MDJ	42.8	57	+P	07 43 12.5	0.1		
			PcP	07 45 05.0	1.6		
			ScP	07 48 50.0	-0.8		
			S	07 49 33.0	-0.4		
			ScS	07 53 01.0	-7.2		

1986 4 26

O=14 15 07.1 ± 0.08s

LAT=36.55 N ± 1.88km

LONG= 71.04 E ± 1.45km

DEPTH=186 km ± 0.44km

STATIONS USED =101, STAND DEV= 1.50s

m_B=5.8 / 28

KSH	4.9	52	+iP	14 16 22.0	1.5		
			S	14 17 12.0	-4.7		
			LE			5.0	46.8
WMQ	14.6	55	-iP	14 18 25.0	-1.9		
			LN			4.0	13.4
LSA	18.2	106	-P	14 19 08.5	-0.3		
			PMZ	m_B=5.9		6.5	2.69
			S	14 22 13.0	-8.3		
			LN			10.0	2.94
GTA	22.8	74	-iP	14 19 56.8	1.6		
			pP	14 20 32.0	1.7		
			sP	14 20 49.0	-3.8		
			iS	14 23 55.0	7.6		
			SME	m_B=5.9		11.5	6.18
LZH	26.4	81	-iP	14 20 19.0	-9.5		
			PMZ			2.0	0.35
			pP	14 21 08.0	2.7		
			sP	14 21 29.0	1.8		
			sS	14 25 56.0	4.3		
			LN			7.0	4.70
CD2	27.7	92	eP	14 20 41.0	0.5		
			PMZ	m_B=5.8		4.0	0.84
			LN			8.0	3.92
			LE			8.0	3.43
KMI	29.4	104	eP	14 20 55.0	-0.6		
			PMZ	m_B=5.9		4.0	1.00
			pP	14 21 36.0	3.0		
			sP	14 21 55.5	0.7		
BTO	30.6	70	+P	14 21 06.0	0.0		
			pP	14 21 45.5	1.7		
			S	14 25 54.0	1.8		
			sS	14 27 04.0	3.8		
			LN			11.0	1.40
			LE			12.0	3.60
XAN	30.9	83	-P	14 21 08.0	-0.7		
			pP	14 21 47.0	0.3		
			sP	14 22 08.0	-0.3		
			PP	14 22 15.5	-1.8		
			S	14 25 55.0	-2.2		
			SMN	m_B=5.4		7.0	1.21
			SME			8.0	1.41
			PcS	14 27 44.0	1.2		
			LN			11.0	2.03
			LE			10.0	1.89
GYA	31.8	98	-P	14 21 16.8	-0.3		
			pP	14 21 58.0	2.9		
			sP	14 22 21.0	4.4		
			S	14 26 15.0	3.0		
			SME	m_B=5.7		6.0	2.60
			ScP	14 27 32.0	5.1		
			PcS	14 27 42.0	-3.9		
			SS	14 28 27.0	8.8		
TIY	32.8	75	-iP	14 21 25.5	-0.1		
			PMZ			3.0	0.72
			pP	14 22 05.0	1.1		
			S	14 26 28.0	0.5		
BJI	35.3	70	eP	14 21 48.0	1.5		
			epP	14 22 27.0	1.5		
			eS	14 27 08.0	1.5		
			sS	14 28 12.0	-2.5		
			SMN	m_B=5.4		9.0	0.56
			SME			7.0	0.93
			LN			9.0	1.84
WHN	36.4	87	-iP	14 21 56.0	0.7		
			PMZ	m_B=5.7		4.0	0.77
			pP	14 22 37.0	2.5		
			sP	14 22 58.0	2.3		
			iS	14 27 24.0	1.5		
			SME	m_B=5.7		10.0	2.50
			SS	14 30 06.0	9.0		
			LN			10.0	1.48
TIA	36.8	76	eP	14 22 00.0	0.7		
			pP	14 22 40.0	1.5		

			PP	14 23 32.0	3.7		
			S	14 27 26.0	−2.7		
			SME	$m_B = 5.8$		8.0	2.56
			LE			11.0	1.60
QZN	38.2	107	−P	14 22 11.0	0.2		
			pP	14 22 51.0	0.9		
			sP	14 23 11.0	−0.3		
			PP	14 23 47.0	2.7		
			PPMZ			7.0	1.30
			PcP	14 24 28.0	6.7		
			S	14 27 48.0	−1.5		
			SMN	$m_B = 5.8$		8.0	1.00
			SME			10.0	2.00
			sS	14 28 55.5	−3.9		
			ScS	14 32 03.0	4.2		
			LE			10.0	0.85
GZH	38.8	98	−iP	14 22 16.3	0.8		
			PMZ	$m_B = 5.9$		4.0	1.50
			pP	14 22 56.0	1.0		
			sP	14 23 16.0	−0.1		
			PP	14 23 51.0	0.0		
			iS	14 27 59.0	0.0		
			SMN	$m_B = 5.8$		8.0	1.20
			SME			11.0	2.40
			LN			12.0	2.20
			LE			9.0	1.59
NJ2	39.4	82	+P	14 22 21.0	0.0		
			pP	14 23 00.0	−0.5		
			sP	14 23 21.0	−0.6		
			S	14 28 08.5	0.5		
			SME	$m_B = 5.6$		12.0	1.70
			sS	14 29 18.5	0.4		
DL2	39.7	71	P	14 22 24.0	1.1		
			pP	14 23 04.0	1.6		
			sP	14 23 27.0	3.4		
			S	14 28 14.0	2.6		
			SMN	$m_B = 5.8$		7.0	1.14
			SME			9.0	1.37
			sS	14 29 25.0	3.4		
			LN			12.0	1.14
SNY	40.5	66	eP	14 22 29.8	−0.2		
			pP	14 23 10.0	0.3		
			ScP	14 27 58.0	−0.8		
			S	14 28 24.0	−0.3		
			ScS	14 32 12.0	−0.5		
			LN			7.0	1.27
			LE			7.0	0.96
CN2	41.6	63	+P	14 22 39.0	0.6		
			pP	14 23 18.5	0.4		
			PcP	14 24 30.0	−2.1		
			eS	14 28 40.0	−0.3		
			SMN	$m_B = 5.4$		8.0	0.70
			ScS	14 32 21.0	2.4		
SSE	41.6	82	−P	14 22 39.0	0.0		
			PMZ			1.5	0.19
			pP	14 23 19.0	0.2		
			sP	14 23 39.0	−0.9		
			iS	14 28 40.0	−1.4		
			SME			16.0	4.01
			sS	14 29 52.0	1.0		
			ScS	14 32 20.0	0.9		
			LN			14.0	1.40
MDJ	44.4	61	eP	14 23 00.5	−0.4		
			pP	14 23 40.0	−1.0		
			sP	14 24 00.0	−2.0		
			S	14 29 13.0	−6.8		
			ScS	14 32 34.0	−1.9		

1986 4 26

O = 17 19 48.9 ± 0.23s
LAT = 20.95 N ± 5.59km
LONG = 155.18 W ± 2.49km
DEPTH = 26 km ± 0.26km
STATIONS USED = 23, STAND DEV = 2.56s

MDJ	65.2	310	eP	17 30 31.0	−0.1		
CN2	68.3	310	eP	17 30 49.5	−1.0		
BJI	75.8	308	eP	17 31 39.5	4.1		
BTO	80.2	310	eP	17 32 01.8	2.3		
XAN	83.2	304	eP	17 32 19.8	4.5		

1986 4 27

O = 00 04 32.4 ± 0.20s
LAT = 45.45 N ± 3.12km
LONG = 27.03 E ± 2.37km
DEPTH = 29 km ± 0.27km
STATIONS USED = 59, STAND DEV = 0.90s

WMQ	42.3	70	P	00 12 26.5	0.8		
LSA	51.9	84	eP	00 13 40.8	−0.5		
GTA	52.4	69	+iP	00 13 44.8	0.1		
			PcP	00 14 55.5	0.8		
LZH	56.9	70	+P	00 14 18.0	0.4		
			PMZ			1.0	0.060
BTO	58.3	63	eP	00 14 27.8	0.3		
CD2	59.9	75	eP	00 14 38.8	0.3		
XAN	61.4	69	+P	00 14 48.5	−0.6		
TIY	61.5	64	−P	00 14 49.8	0.3		
BJI	62.4	60	eP	00 14 55.0	−0.5		
GYA	64.6	77	+P	00 15 10.0	−0.4		
CN2	65.5	52	+iP	00 15 15.0	−0.6		
SNY	65.7	55	−iP	00 15 16.3	−0.6		

MDJ	67.2	49	eP	00 15 25.5	−1.0	
WHN	67.2	69	P	00 15 26.0	−0.5	
NJ2	69.1	65	+P	00 15 38.0	−0.7	
SSE	71.3	65	e(P)	00 15 51.0	−0.6	
QZN	71.7	81	P	00 15 55.3	0.9	

1986 4 27
O = 03 10 24.6 ± 0.11s
LAT = 0.06 S ± 1.70km
LONG = 123.02 E ± 2.41km
DEPTH = 160 km ± 0.37km
STATIONS USED = 52, STAND DEV = 1.66s

QZN	23.0	326	P	03 15 17.0	1.1		
			S	03 19 19.0	8.9		
GZH	24.9	338	−P	03 15 35.8	1.8		
GYA	30.7	330	−P	03 16 27.5	0.4		
			PcP	03 19 20.5	0.2		
WHN	31.5	346	eP	03 16 35.0	0.9		
KMI	31.8	323	−P	03 16 38.5	1.8		
CD2	35.8	331	eP	03 17 12.3	1.5		
XAN	36.4	340	P	03 17 15.5	−0.2		
TIY	38.8	347	+P	03 17 36.8	0.7		
BJI	40.4	352	eP	03 17 49.0	0.2		
GTA	44.7	334	−iP	03 18 23.5	0.0		
MDJ	44.9	7	eP	03 18 23.5	−1.5		

1986 4 27
O = 03 24 05.7 ± 0.07s
LAT = 31.10 S ± 3.60km
LONG = 13.37 W ± 2.34km
DEPTH = 10 km ± 0.20km
STATIONS USED = 57, STAND DEV = 1.56s
Ms = 6.2 / 22, m_B = 6.1 / 3

KMI	124.0	79	ePKP	03 43 06.5	0.7		
			PP	03 44 53.0	−0.1		
			PPMZ	m_B = 6.4		10.0	1.10
			LN	Ms = 6.2		20.0	3.27
GTA	125.9	62	PKP	03 43 10.0	0.6		
			PP	03 45 08.3	2.8		
			SKKS	03 52 06.0			
			LE	Ms = 6.0		18.0	1.82
CD2	126.8	73	ePKP	03 43 11.8	0.8		
QZN	127.7	89	ePKP	03 43 13.0	0.4		
			PP	03 45 21.0	4.3		
			SKKS	03 52 12.0			
			LE	Ms = 6.1		20.0	2.69
GYA	127.8	79	PKP	03 43 14.3	1.3		
			PP	03 45 23.0	5.5		
			SKKS	03 52 15.0			
			LE	Ms = 5.8		20.0	1.40
LZH	128.3	67	cPKP	03 43 15.0	1.0		
			cPP	03 45 22.0	1.2		
			LN	Ms = 6.0		20.0	1.43
			LE			22.0	1.68
XAN	131.8	70	PKP	03 43 21.3	0.7		
			PP	03 45 41.8	−2.2		
			LE	Ms = 6.1		20.0	2.52
BTO	133.8	62	PKP	03 43 25.5	1.0		
			cPP	03 46 03.0	6.0		
			eSKKS	03 52 53.0			
			LN	Ms = 6.2		20.0	2.70
			LE			20.0	1.80
TIY	135.3	66	+PKP	03 43 28.5	1.3		
			cPP	03 46 05.5	−0.5		
			PPMZ	m_B = 6.1		7.0	0.56
			SKS	03 50 41.0	7.0		
			LN	Ms = 6.4		20.0	2.48
			LE			20.0	3.44
WHN	135.5	77	cPKP	03 43 29.0	1.7		
			LN	Ms = 6.1		20.0	2.42
BJI	138.5	63	ePKP	03 43 34.0	1.1		
			cPP	03 46 29.0	3.0		
			eSKKS	03 53 16.0			
			LN	Ms = 6.2		18.0	2.68
			LE			19.0	0.86
TIA	138.8	69	PKP	03 43 34.0	0.4		
			LN	Ms = 6.1		18.0	1.01
			LE			18.0	1.97
NJ2	139.6	76	+PKP	03 43 34.0	−0.8		
			PP	03 46 34.0	1.7		
SSE	141.3	78	ePKP	03 43 37.0	−1.0		
			LE	Ms = 6.2		22.0	3.25
DL2	142.6	65	ePKP	03 43 38.0	−2.2		
			LN	Ms = 6.3		18.0	0.89
			LE			22.0	3.30
SNY	144.1	60	−PKP	03 43 39.0	−3.7		
			ePP	03 47 00.0	0.4		
			SKKS	03 53 52.0			
			LN	Ms = 6.1		24.0	1.30
			LE			21.0	1.82
CN2	145.3	57	PKP	03 43 45.0	0.1		
			PKP_2	03 43 50.0			
			ePP	03 47 15.0	8.2		
			PPMZ	m_B = 6.1		7.0	0.80
			eSKKS	03 54 05.0			
			LN	Ms = 6.2		19.0	2.50
MDJ	148.1	54	ePKP	03 43 49.8	0.3		
			SKS	03 50 56.0	2.1		

1986 4 27

O = 08 19 18.9 ± 0.06s
LAT = 36.48 N ± 1.11km
LONG = 70.56 E ± 0.81km
DEPTH = 221 km ± 0.64km
STATIONS USED = 14, STAND DEV = 1.60s
M_L = 4.7 / 1,

KSH	5.2	54	−iP	08 20 39.0	1.5		
			S	08 21 33.0	−5.0		
			SMN	M_L = 4.7		0.2	0.63
			SME			0.2	0.92
WMQ	15.0	56	P	08 22 42.0	0.2		
			PMZ			0.8	0.040
			S	08 25 25.0	3.3		
GTA	23.2	74	P	08 24 10.8	2.9		

1986 4 27
O = 09 23 43.9 ± 0.14s
LAT = 17.97 S ± 2.23km
LONG = 178.25 W ± 3.21km
DEPTH = 573 km ± 0.70km
STATIONS USED = 69, STAND DEV = 1.34s

SSE	75.9	310	+P	09 34 33.5	−0.7		
			PMZ			1.0	0.030
			eS	09 43 24.0	−7.7		
NJ2	78.1	309	−iP	09 34 46.5	0.5		
GZH	78.3	299	−iP	09 34 48.0	0.9		
MDJ	78.3	325	−P	09 34 47.0	−0.3		
QZN	79.6	294	P	09 34 54.8	0.7		
SNY	80.1	320	eP	09 34 56.3	−0.4		
CN2	80.2	322	−iP	09 34 56.5	−0.4		
WHN	80.8	306	eP	09 35 00.0	0.0		
TIA	81.4	312	eP	09 35 03.5	0.2		
BJI	83.9	315	eP	09 35 15.5	−0.4		
			esP	09 38 20.0	5.3		
GYA	85.2	300	−P	09 35 26.5	4.2		
TIY	85.4	312	−iP	09 35 23.8	0.5		
			PMZ			1.0	3.20
XAN	86.4	307	−P	09 35 28.5	0.5		
KMI	88.0	297	−P	09 35 37.0	1.4		
BTO	88.4	314	eP	09 35 37.0	−0.3		
CD2	89.2	303	P	09 35 42.3	1.1		
LZH	91.0	308	−iP	09 35 50.0	0.3		
			PMZ			1.5	0.090
GTA	95.2	310	−iP	09 36 08.5	0.0		

1986 4 27
O = 09 46 28.2 ± 0.12s
LAT = 6.75 S ± 1.83km
LONG = 154.65 E ± 2.13km
DEPTH = 40 km ± 0.71km

STATIONS USED = 71, STAND DEV = 1.38s
Ms = 5.0 / 12, m_B = 5.6 / 11

SSE	49.4	321	P	09 55 16.0	−0.5		
			S	10 02 23.0	4.5		
			sS	10 02 39.0	1.3		
			LE	Ms = 4.8		20.0	0.58
GZH	50.1	308	−P	09 55 24.0	2.2		
			pP	09 55 35.0	2.4		
			eS	10 02 34.0	4.8		
			SMN	m_B = 5.6		8.0	0.52
			SME			9.0	0.48
QZN	51.0	301	cP	09 55 28.0	−1.0		
			eS	10 02 45.0	2.8		
			LN	Ms = 5.0		9.0	0.39
NJ2	51.5	321	+P	09 55 33.0	0.5		
			PMZ	m_B = 5.9		4.0	0.60
			pP	09 55 46.0	2.7		
WHN	53.5	316	P	09 55 48.0	0.4		
			PMZ			2.0	0.66
			eS	10 03 19.0	2.8		
			SME	m_B = 5.5		9.0	0.60
			LN	Ms = 5.0		14.0	0.59
TIA	55.4	323	eP	09 56 00.0	−1.1		
			eS	10 03 37.0	−4.0		
			LE	Ms = 5.1		15.5	0.88
MDJ	55.9	339	eP	09 56 03.3	−1.5		
CN2	56.8	335	+P	09 56 08.8	−2.8		
GYA	57.0	307	P	09 56 15.0	1.8		
			sP	09 56 26.0	−2.5		
			S	10 04 07.0	5.0		
			LE	Ms = 4.9		18.0	0.50
BJI	58.5	326	eP	09 56 22.0	−1.5		
			eS	10 04 15.0	−7.7		
			SME	m_B = 5.1		10.0	0.29
TIY	59.2	322	eP	09 56 27.0	−1.2		
			pP	09 56 39.5	0.5		
			S	10 04 34.0	3.8		
			SME	m_B = 5.3		9.0	0.40
			LE	Ms = 5.1		16.0	0.68
XAN	59.3	316	P	09 56 28.3	−0.6		
			S	10 04 37.0	5.5		
			SMN	m_B = 5.6		9.0	0.41
			SME			8.0	0.56
KMI	59.6	304	eP	09 56 31.5	0.3		
BTO	62.5	323	P	09 56 50.0	−0.4		
			S	10 05 14.0	2.2		
LZH	63.9	316	P	09 57 00.5	0.5		
			PMZ			1.6	0.17
			eS	10 05 34.0	2.5		
GTA	68.3	317	+iP	09 57 28.8	0.6		

			S	10 06 30.0	6.4		
			SME	m_B=5.5		8.0	0.47
LSA	70.9	304	P	09 57 45.5	1.5		
WMQ	78.4	317	P	09 58 27.3	0.0		
			PMZ			2.0	0.15
			S	10 08 24.0	6.5		
KSH	85.6	310	+iP	09 59 07.0	2.4		
			SMN	m_B=6.0		9.0	1.34

1986 4 27
O=12 30 52.9 ± 0.21s
LAT=28.30 N ± 2.67km
LONG=140.89 E ± 3.80km
DEPTH= 35 km ± 0.92km
STATIONS USED = 37, STAND DEV= 2.51s
Ms=4.5/ 14, m_B=5.4/ 16

SSE	17.3	284	P	12 34 52.0	−2.2		
			sS	12 38 16.0	−0.8		
			LN	Ms=4.2		9.0	0.43
MDJ	18.6	334	eP	12 35 11.0	1.0		
DL2	19.2	308	+iP	12 35 20.0	3.4		
			PMZ	m_B=5.4		6.0	1.07
			S	12 38 55.0	9.9		
			SMN	m_B=5.4		8.0	0.81
			SME			8.0	1.09
			LN	Ms=4.4		12.0	0.67
SNY	19.5	318	eP	12 35 17.0	−3.4		
			eS	12 38 48.0	−5.5		
			LE	Ms=4.3		10.0	0.44
CN2	19.8	325	−P	12 35 20.0	−3.7		
			PMZ	m_B=5.1		4.5	0.40
			eS	12 38 53.0	−7.2		
			LE	Ms=4.5		11.0	0.70
TIA	21.6	297	eP	12 35 38.0	−3.6		
			PMZ	m_B=5.7		4.0	1.39
			S	12 39 41.0	8.1		
			SMN	m_B=5.7		5.0	0.51
			SME			5.0	1.11
			LE	Ms=4.6		11.5	0.88
WHN	23.2	282	eP	12 35 58.0	0.0		
			PMZ	m_B=5.7		5.0	1.58
			eS	12 40 04.0	0.4		
			SMN	m_B=5.5		7.0	1.06
			LN	Ms=4.7		10.0	0.74
			LE			12.0	0.75
BJI	23.5	306	eP	12 36 00.0	−0.6		
			PMZ	m_B=5.3		5.0	0.65
			eS	12 40 13.0	4.5		
			SMN	m_B=5.4		6.0	0.73
			SME			9.0	0.47
			LN	Ms=4.2		10.0	0.29
GZH	25.3	264	P	12 36 19.0	0.6		
TIY	25.6	299	eP	12 36 20.5	−0.3		
			PMZ	m_B=6.0		4.0	1.54
			S	12 40 49.0	6.0		
			SMN	m_B=5.2		7.0	0.45
			LN	Ms=4.4		10.0	0.41
XAN	27.9	290	eP	12 36 38.0	−4.0		
			eS	12 41 15.0	−6.6		
BTO	28.1	304	P	12 36 44.0	−0.2		
			S	12 41 22.0	−2.5		
QZN	29.8	259	eP	12 37 03.0	3.7		
			eS	12 41 57.0	4.4		
GYA	30.4	275	eP	12 37 10.5	6.0		
CD2	32.3	284	eP	12 37 18.3	−2.9		
			LN	Ms=4.9		11.0	0.95
LSA	43.3	284	eP	12 38 54.0	0.3		

1986 4 27
O=17 09 39.1 ± 0.12s
LAT=40.12 N ± 1.46km
LONG= 77.35 E ± 1.07km
DEPTH= 10 km ± 0.25km
STATIONS USED = 22, STAND DEV= 2.13s
M_L=4.4/ 2,

KSH	1.2	238	+Pg	17 10 03.5	2.1		
			Sg	17 10 22.5	4.2		
			SMN	M_L=4.3		0.5	4.08
			SME			0.8	5.07
WMQ	8.5	61	eP	17 11 46.5	0.3		
			S	17 13 27.0	3.7		
			SS	17 13 38.5	2.6		
			LG_2	17 14 19.8	−1.4		
			LN			1.7	0.12
GTA	17.3	85	eP	17 13 40.0	−2.7		
			LG_2	17 19 11.8	2.3		
			LN			1.6	0.030
			LE			1.4	0.020
LZH	21.2	92	eP	17 14 28.5	0.7		
CD2	23.3	105	eP	17 14 51.3	2.7		
XAN	25.8	94	eP	17 15 13.5	0.7		
GYA	27.9	110	eP	17 15 32.0	0.1		

1986 4 27
O=17 43 12.0 ± 0.29s
LAT=24.60 N ± 2.25km
LONG=122.82 E ± 2.84km
DEPTH= 5 km
STATIONS USED = 18, STAND DEV= 3.53s
Ms=4.1/ 7,

QZH	3.9	276	ePn	17 44 12.5	0.2		
			LN	Ms=3.4		11.0	1.03
SSE	6.6	348	ePg	17 45 06.5	−2.6		
			LE	Ms=3.7		13.0	1.00
XAN	15.3	311	eP	17 46 55.0	4.0		
			eLG_2	17 51 40.0	2.3		
			LN	Ms=4.2		9.0	0.41
			LE			10.0	0.25
CD2	18.0	295	eP	17 47 22.5	−2.4		
			LN	Ms=4.5		8.0	0.69
LZH	19.9	309	eP	17 47 44.5	−3.7		
GTA	24.4	313	P	17 48 31.0	−1.6		
			LN	Ms=4.1		11.5	0.25

1986 4 27
O=22 00 30.8 ± 0.06s
LAT=52.75 N ± 1.93km
LONG=168.59 W ± 0.90km
DEPTH= 38 km ± 0.76km
STATIONS USED = 29, STAND DEV= 1.34s

CN2	43.4	286	+P	22 08 31.0	−0.8
BTO	54.3	292	eP	22 09 56.5	0.4
XAN	59.4	287	eP	22 10 32.5	−0.4
GTA	60.7	297	P	22 10 41.0	−0.8
CD2	64.7	288	eP	22 11 08.5	0.5
GYA	66.3	283	P	22 11 18.3	−0.1

1986 4 27
O=22 46 10.7 ± 0.12s
LAT= 8.70 S ± 1.12km
LONG=111.18 E ± 0.93km
DEPTH=111 km ± 1.37km
STATIONS USED = 25, STAND DEV= 1.55s

GYA	35.2	353	eP	22 52 58.3	1.7
CD2	40.0	350	P	22 53 37.3	0.6
XAN	42.6	357	eP	22 53 57.5	0.1
TIY	46.2	1	eP	22 54 21.3	−5.3
BJI	48.7	5	eP	22 54 45.5	−0.7
GTA	49.0	348	P	22 54 49.0	0.3
CN2	53.8	13	+P	22 55 23.3	−1.5

1986 4 27
O=23 36 10.9 ± 0.07s
LAT= 5.07 S ± 1.04km
LONG=145.12 E ± 2.48km
DEPTH= 90 km ± 0.55km
STATIONS USED = 26, STAND DEV= 1.31s

GYA	48.7	312	P	23 44 49.8	1.4
XAN	51.8	321	eP	23 45 11.8	−0.3
BJI	52.2	332	eP	23 45 14.5	−0.6
CD2	53.3	315	eP	23 45 23.5	0.2
GTA	60.8	321	P	23 46 16.5	−0.3
WMQ	70.9	320	P	23 47 20.8	0.0

1986 4 28
O=03 47 35.2 ± 0.13s
LAT=16.46 N ± 1.83km
LONG=120.90 E ± 1.97km
DEPTH= 14 km ± 0.33km
STATIONS USED = 75, STAND DEV= 1.82s
Ms=4.9/29, M_L=4.6/ 2, m_B=5.3/ 5

GZH	9.7	314	eP	03 49 54.0	−3.6		
			S	03 51 40.0	−7.1		
			LN	Ms=4.9		12.0	4.51
			LE			11.0	4.65
QZN	10.8	285	P	03 50 12.0	−1.3		
			S	03 52 10.0	−5.1		
			LN	Ms=4.5		13.0	1.36
			LE			17.0	2.51
SSE	14.6	1	eP	03 51 03.0	−0.2		
			SS	03 54 04.0	2.3		
			LE	Ms=4.6		13.0	1.74
WHN	15.2	338	eP	03 51 17.0	5.0		
			LE	Ms=4.8		14.0	2.83
NJ2	15.6	354	eP	03 51 20.0	3.0		
			LE	Ms=4.7		14.5	2.30
GYA	16.6	309	−P	03 51 30.0	1.0		
			LN	Ms=5.0		12.0	3.00
			LE			12.0	1.20
KMI	19.0	300	eP	03 52 01.0	1.2		
			pP	03 52 05.0	0.3		
			eS	03 55 34.0	5.3		
			LN	Ms=5.1		14.0	4.10
TIA	20.0	351	eP	03 52 09.5	−0.6		
			eS	03 55 48.0	−1.0		
			SME	m_B=5.0		11.0	0.80
			LE	Ms=4.9		15.0	2.68
XAN	20.6	331	+P	03 52 16.0	−0.4		
			S	03 56 04.0	3.7		
			SME	m_B=6.1		12.0	10.0
			SS	03 56 39.0	8.7		
			LN	Ms=5.2		13.0	2.86
			LE			13.0	3.14
CD2	21.2	316	eP	03 52 23.5	−0.1		
			eS	03 56 18.0	3.3		
			LN	Ms=5.4		11.5	3.87
			LE			12.0	5.10
DL2	22.4	1	eP	03 52 36.5	1.8		
			S	03 56 38.0	3.4		
			LN	Ms=4.6		12.0	0.67

			LE			12.0	0.68
TIY	22.4	342	P	03 52 37.0	1.4		
			S	03 56 45.0	8.9		
			SME	$m_B = 5.6$		9.0	2.24
			LN	Ms = 4.7		14.0	0.74
			LE			15.0	1.24
BJI	23.9	351	eP	03 52 49.0	−0.2		
			eS	03 57 06.0	4.3		
			SMN	$m_B = 5.3$		11.0	0.74
			SME			9.0	0.87
			LN	Ms = 4.9		16.0	1.60
			LE			14.0	1.25
LZH	24.7	325	P	03 52 58.5	0.4		
			PMZ			1.5	0.060
SNY	25.4	5	eP	03 53 02.5	−1.5		
			eS	03 57 21.0	−6.7		
			LE	Ms = 5.0		15.0	2.15
BTO	25.8	341	eP	03 53 11.0	2.6		
			S	03 57 42.0	7.6		
			LN	Ms = 4.8		13.0	0.80
			LE			13.0	0.80
CN2	27.5	7	eP	03 53 24.0	0.2		
MDJ	29.0	13	eP	03 53 35.5	−1.7		
GTA	29.4	325	P	03 53 40.0	−0.4		
			LE	Ms = 5.1		13.0	1.69
WMQ	39.2	321	eP	03 55 05.5	0.7		
			LN	Ms = 5.3		20.0	2.75

1986 4 28
O = 08 16 23.5 ± 0.14s
LAT = 29.02 N ± 1.53km
LONG = 104.76 E ± 1.48km
DEPTH = 10 km ± 0.19km
STATIONS USED = 40, STAND DEV = 3.21s
Ms = 4.5 / 9, M_L = 4.4 / 7,

CD2	2.1	336	ePg	08 17 00.5	0.2		
			Sg	08 17 27.3	−1.2		
			SMN	$M_L = 4.6$		1.0	2.93
			SME			1.2	5.39
GYA	3.1	146	−Pn	08 17 16.3	3.8		
			Pg	08 17 25.5	7.9		
			Sg	08 18 09.0	9.6		
			LN	Ms = 4.5		4.0	3.80
			LE			4.0	4.90
KMI	4.3	205	+Pn	08 17 33.0	3.7		
			eS *	08 18 32.0	3.0		
			LN	Ms = 4.0		9.0	2.50
XAN	6.1	34	Pn	08 17 55.5	0.9		
			Pg	08 18 15.8	4.0		
			Sn	08 19 02.8	−4.3		
			Sg	08 19 34.0	−1.7		
			SMN	$M_L = 4.5$		0.8	0.30
			SME			1.0	0.39
			LN	Ms = 4.6		6.0	2.24
			LE			6.0	2.46
WHN	8.5	77	P	08 18 31.0	1.6		
			S	08 20 05.0	−0.8		
			LG_2	08 20 57.0	−6.1		
			LN	Ms = 4.5		6.0	1.80
GZH	9.7	125	P	08 18 45.5	−1.1		
			S	08 20 36.0	−0.7		
			LN	Ms = 4.7		7.0	2.20
			LE			7.0	1.76
TIY	10.8	34	eP	08 19 07.5	6.1		
			LN	Ms = 4.0		10.0	0.59
GTA	11.1	340	eP	08 19 05.8	−0.5		
BTO	12.3	19	eP	08 19 21.5	−0.9		
			eLG_2	08 23 09.0	−1.3		
			LN	Ms = 4.1		9.0	0.40
			LE			9.0	0.40
CN2	22.2	43	eP	08 21 22.8	1.3		

1986 4 28
O = 11 24 51.4 ± 0.09s
LAT = 27.88 N ± 0.86km
LONG = 102.88 E ± 0.95km
DEPTH = 9 km ± 0.02km
STATIONS USED = 7, STAND DEV = 3.31s
M_L = 3.8 / 4,

KMI	2.8	183	ePn	11 25 37.0	0.6		
			Sn	11 26 12.5	1.0		
			SME			2.5	0.32
CD2	3.1	14	ePn	11 25 43.5	2.4		
			Pg	11 25 49.8	3.5		
			Sg	11 26 29.0	0.1		
			SMN	$M_L = 3.8$		0.9	0.28
			SME			0.9	0.38
XAN	8.0	39	Pn	11 26 48.0	−0.7		
			Pg	11 27 20.0	6.8		
			Sn	11 28 16.5	−5.7		
			Sg	11 29 04.0	1.0		
			SMN	$M_L = 3.9$		1.0	0.030
			SME			1.0	0.030

1986 4 28
O = 12 28 12.7 ± 0.17s
LAT = 8.35 S ± 2.18km
LONG = 122.16 E ± 2.79km
DEPTH = 70 km ± 0.76km
STATIONS USED = 55, STAND DEV = 2.37s

GYA	37.7	337	P	12 35 23.8	−0.1
KMI	38.3	331	eP	12 35 30.0	1.5
WHN	39.4	349	eP	12 35 37.0	−0.6
CD2	42.8	336	eP	12 36 05.5	−0.5
XAN	44.0	344	eP	12 36 14.0	−1.4
LSA	48.2	323	P	12 36 47.3	−1.6
BJI	48.5	354	eP	12 36 49.0	−1.6
GTA	51.8	338	+P	12 37 12.5	−4.1
CN2	52.0	3	eP	12 37 20.0	2.5
MDJ	53.1	7	eP	12 37 24.5	−1.7
WMQ	60.6	332	P	12 38 18.0	−1.1
KSH	63.9	322	eP	12 38 48.0	6.5

1986 4 28
O = 13 32 25.3 ± 0.16s
LAT = 40.72 N ± 2.35km
LONG = 139.65 E ± 2.44km
DEPTH = 41 km ± 0.57km
STATIONS USED = 29, STAND DEV = 3.06s

MDJ	8.4	301	eP	13 34 29.3	2.2	
CN2	11.0	291	eP	13 35 04.8	2.0	
SNY	12.1	281	eP	13 35 17.8	−0.9	
BJI	17.9	276	eP	13 36 32.0	−0.9	
TIA	18.2	263	+P	13 36 36.5	−0.1	
NJ2	18.8	249	+P	13 36 43.5	−0.6	
HHC	21.2	280	eP	13 37 10.0	−0.3	
TIY	21.3	271	eP	13 37 11.0	0.4	
XAN	25.2	265	eP	13 37 46.3	−3.0	
GTA	30.3	281	eP	13 38 32.8	−3.0	

1986 4 28
O = 15 53 35.3 ± 0.07s
LAT = 16.29 N ± 0.85km
LONG = 121.28 E ± 1.02km
DEPTH = 22 km ± 0.17km
STATIONS USED = 30, STAND DEV = 0.92s
Ms = 4.2 / 3,

GZH	10.1	313	P	15 56 02.0	0.0		
QZN	11.2	286	eP	15 56 18.5	0.5		
			LN	Ms = 3.8		13.0	0.45
GYA	16.9	309	eP	15 57 33.8	0.8		
XAN	20.9	330	eP	15 58 17.5	−1.4		
			LN	Ms = 4.2		12.0	0.25
			LE			12.0	0.30
CD2	21.6	315	eP	15 58 26.0	−0.4		
TIY	22.7	342	eP	15 58 38.3	1.0		
BJI	24.1	350	eP	15 58 51.0	0.6		
LZH	25.1	325	eP	15 59 00.5	0.0		
			PMZ			1.0	0.020
SNY	25.5	4	eP	15 59 04.3	0.0		
BTO	26.1	340	eP	15 59 10.3	0.3		
CN2	27.6	7	eP	15 59 23.0	−0.9		

1986 4 28
O = 15 54 37.8 ± 0.07s
LAT = 13.57 S ± 1.59km
LONG = 167.16 E ± 2.05km
DEPTH = 37 km ± 0.75km
STATIONS USED = 28, STAND DEV = 1.31s

SSE	62.6	316	+P	16 05 03.0	1.7		
			PMZ			1.0	0.020
NJ2	64.8	315	eP	16 05 15.0	−0.5		
CN2	68.6	329	+P	16 05 39.0	−0.8		
GYA	71.0	304	P	16 05 53.8	−0.6		
BJI	71.3	321	eP	16 05 56.0	−0.2		
TIY	72.3	317	P	16 06 02.5	0.0		
XAN	72.8	312	P	16 06 05.0	−0.4		
KMI	73.6	302	eP	16 06 10.5	0.3		
GTA	81.8	314	+P	16 06 55.5	0.0		

1986 4 28
O = 18 03 47.6 ± 0.22s
LAT = 22.63 N ± 2.51km
LONG = 120.93 E ± 2.50km
DEPTH = 10 km ± 0.72km
STATIONS USED = 32, STAND DEV = 2.60s
M_S = 4.2 / 10, M_L = 4.0 / 5,

QZH	3.1	318	Pn	18 04 39.5	1.9		
GZH	7.0	275	ePn	18 05 30.0	−0.7		
			eSn	18 06 48.5	−4.3		
			LN	Ms = 4.3		4.0	1.10
SSE	8.4	2	eP	18 05 52.5	−0.6		
			LG_1	18 08 04.3	−8.4		
			LE	Ms = 4.1		7.0	0.84
NJ2	9.6	349	+P	18 06 05.0	−3.7		
			LN	Ms = 4.5		9.5	2.30
WHN	9.8	325	(P)	18 06 02.0	−10.2		
			eS	18 08 02.0	−2.0		
			LE	Ms = 4.0		10.0	0.73
QZN	11.0	253	eP	18 06 24.5	−3.4		
			eS	18 08 36.3	4.6		
			LN	Ms = 4.1		14.0	0.53
			LE			14.0	1.02
GYA	13.5	289	P	18 07 04.0	1.4		
XAN	15.5	320	eP	18 07 30.0	1.6		
			LN	Ms = 4.2		12.0	0.50
			LE			9.0	0.33
TIY	16.7	336	eP	18 07 46.3	2.3		
			LG_2	18 12 54.0	−5.3		
			LN	Ms = 4.3		11.0	0.63

		LE			11.0	0.27
CD2	17.4	302	eP	18 07 54.5	2.1	
		LN		Ms=4.6	9.0	1.05
BJI	17.8	348	eP	18 07 57.5	−0.2	
HHC	19.8	339	eP	18 08 21.5	−0.1	
LZH	20.0	316	eP	18 08 29.0	5.2	
BTO	20.2	335	eP	18 08 28.5	3.2	
CN2	21.4	9	eP	18 08 33.0	−5.5	
GTA	24.5	318	P	18 09 09.0	−0.2	

1986 4 28

O=19 20 22.1 ± 0.09s
LAT= 6.25 N ± 1.51km
LONG=125.92 E ± 2.08km
DEPTH= 92 km ± 0.30km
STATIONS USED = 87, STAND DEV= 1.46s

				m_B=5.6/ 6		
QZN	20.2	311	−P	19 24 52.0	0.4	
			pP	19 25 10.0	0.4	
			PP	19 25 21.0	5.6	
			S	19 28 37.0	9.5	
GZH	20.7	325	−P	19 24 57.0	0.2	
			eS	19 28 35.0	−2.7	
			SMN	m_B=5.5	9.0	0.80
			SME		7.0	0.45
SSE	25.1	350	+P	19 25 41.0	0.8	
			PMZ	m_B=5.8	4.0	0.99
			S	19 30 00.0	5.0	
			SME	m_B=5.5	5.0	0.71
			SS	19 31 02.0	−0.3	
WHN	26.5	337	eP	19 25 53.0	−0.1	
			sP	19 26 22.0	−2.7	
			eS	19 30 18.0	−0.7	
			LN		12.0	0.66
NJ2	26.5	346	+P	19 25 53.0	−0.1	
GYA	27.2	320	P	19 26 00.5	0.7	
			pP	19 26 19.0	−1.0	
			PP	19 26 48.0	−1.9	
			PcP	19 29 17.0	−0.3	
			S	19 30 33.0	3.3	
			ScP	19 32 48.5	0.6	
KMI	29.1	313	cP	19 26 17.5	1.0	
			pP	19 26 39.0	2.3	
			cS	19 31 04.0	3.5	
			LN		10.0	0.32
XAN	31.8	333	+P	19 26 39.0	−1.6	
			PcP	19 29 29.0	−0.1	
			S	19 31 38.0	−4.6	
			sS	19 32 20.0	0.4	
			LN		12.0	0.45
CD2	32.2	322	eP	19 26 43.0	−0.6	
			(S)	19 31 46.0	−2.8	
			LE		8.0	1.03
TIY	33.6	340	eP	19 26 55.5	−0.9	
			S	19 32 12.5	1.7	
			LE		10.0	0.21
BJI	34.8	347	eP	19 27 05.5	−0.4	
			eScP	19 33 15.0	2.1	
			eS	19 32 30.0	1.0	
			ScS	19 37 19.0	4.1	
SNY	35.5	357	+iP	19 27 13.0	0.9	
			PMZ		2.5	0.99
			pP	19 27 32.0	−1.3	
			S	19 32 40.0	0.7	
			SME	m_B=5.3	7.0	0.50
			ScS	19 37 23.0	4.1	
LZH	35.9	329	+P	19 27 16.5	0.3	
			PMZ		1.5	0.080
BTO	37.1	340	eP	19 27 25.5	0.1	
			cpP	19 27 46.5	0.0	
			eS	19 33 03.0	−1.3	
CN2	37.4	359	+P	19 27 28.5	0.3	
			pP	19 27 49.0	−0.4	
			cPP	19 28 56.0	−0.9	
			eS	19 33 08.0	−1.4	
			ScP	19 33 26.0	3.5	
			LE		18.0	0.70
LSA	40.2	310	P	19 27 54.3	2.4	
GTA	40.5	328	+iP	19 27 54.0	−0.4	
			PcP	19 29 54.8	−0.2	
			SS	19 37 00.0	5.2	
			LE		10.0	0.31
WMQ	50.2	324	P	19 29 10.3	−1.0	
KSH	55.7	314	eP	19 29 52.8	0.9	
			cPP	19 31 55.0	−3.0	

1986 4 29

O=00 57 01.8 ± 0.08s
LAT=14.90 S ± 1.06km
LONG=167.06 E ± 1.51km
DEPTH=100 km ± 0.37km
STATIONS USED = 28, STAND DEV= 1.37s

MDJ	68.3	332	eP	01 07 54.5	−0.5	
CN2	69.7	329	+P	01 08 02.5	−0.8	
GYA	71.6	305	P	01 08 17.0	1.8	
TIY	73.2	318	eP	01 08 25.0	0.4	
KMI	74.2	302	eP	01 08 32.5	2.0	
WMQ	92.7	315	eP	01 10 05.5	0.8	

1986 4 29

O=01 14 57.1 ± 0.07s
LAT=37.02 N ± 0.70km
LONG=103.83 E ± 0.67km
DEPTH= 13 km ± 0.12km
STATIONS USED = 7, STAND DEV= 2.79s
M_L=3.5/ 6,

LZH	0.9	179	Pg	01 15 13.0	−0.9		
			Sg	01 15 24.5	−2.0		
			SMN	M_L=3.3		0.5	0.85
			SME			0.5	0.73
GTA	4.0	308	Pn	01 15 58.5	0.4		
			Pg	01 16 08.3	1.2		
			Sn	01 16 48.0	1.8		
			Sg	01 17 01.0	−0.2		
			SME	M_L=3.4		0.7	0.090
XAN	5.1	124	Pg	01 16 25.3	−2.1		
			Sg	01 17 27.5	−9.6		
			SMN	M_L=2.9		0.6	0.020
			SME			1.0	0.010
BTO	6.0	52	ePg	01 16 45.5	2.0		
			Sg	01 18 07.5	2.0		

1986 4 29
O=07 28 01.7 ± 0.06s
LAT= 4.56 S ± 0.86km
LONG=133.65 E ± 1.72km
DEPTH= 10 km ± 0.18km
STATIONS USED = 73, STAND DEV= 0.97s
Ms=4.9/ 16,

QZN	33.1	316	eP	07 34 40.3	−0.5		
			eS	07 39 54.0	−5.4		
			LE	Ms=4.7		15.0	0.70
SSE	37.4	342	e(P)	07 35 16.5	−0.5		
			(S)	07 41 01.0	−4.0		
			sS	07 41 13.0	−1.1		
			LE	Ms=4.6		10.0	0.34
NJ2	39.0	340	eP	07 35 32.3	1.5		
			LE	Ms=4.4		11.0	0.20
WHN	39.5	333	eP	07 35 35.0	0.5		
			pP	07 35 40.0	0.0		
			eS	07 41 34.0	−2.7		
			LE	Ms=4.8		12.0	0.50
GYA	40.4	321	−P	07 35 42.5	0.2		
			pP	07 35 48.5	0.8		
			PP	07 37 17.8	−0.8		
			S	07 41 46.0	−3.7		
KMI	42.1	316	cP	07 35 55.0	−1.3		
			cS	07 42 10.0	−6.0		
TIA	43.4	340	eP	07 36 06.5	−0.3		
XAN	44.9	331	P	07 36 18.5	−0.7		
			pP	07 36 25.0	0.4		
			S	07 42 53.0	−2.9		
			LN	Ms=4.9		14.0	0.60
CD2	45.4	323	eP	07 36 22.5	−0.1		
			eS	07 43 01.0	−2.3		
			LE	Ms=5.0		16.0	0.88
TIY	46.5	337	eP	07 36 31.8	0.6		
			(S)	07 43 17.0	−1.8		
			LN	Ms=4.8		14.0	0.37
			LE			15.0	0.38
SNY	47.1	350	eP	07 36 36.3	0.3		
			S	07 43 27.0	0.6		
			sS	07 43 39.0	2.4		
			LE	Ms=5.1		38.0	2.50
BJI	47.2	342	eP	07 36 36.0	−1.0		
			sP	07 36 44.0	−1.3		
CN2	48.7	352	eP	07 36 48.5	−0.3		
			pP	07 36 54.0	−0.2		
LZH	49.1	328	P	07 36 52.5	0.3		
			PMZ			2.0	0.14
			eS	07 43 48.0	−8.8		
BTO	49.9	336	eP	07 37 01.0	3.0		
			esP	07 37 10.0	3.9		
			eS	07 44 10.0	2.7		
LSA	53.1	313	eP	07 37 22.5	−0.1		
GTA	53.7	328	−iP	07 37 27.3	0.3		
			LE	Ms=4.7		11.0	0.24
WMQ	63.4	324	P	07 38 34.5	−0.2		
			PMZ			1.5	0.11
			sP	07 38 42.0	−0.8		
			S	07 47 08.5	3.5		
			SMN			2.5	0.040
			LN	Ms=5.4		28.0	2.18
KSH	68.7	315	eP	07 39 10.0	1.4		
			sP	07 39 18.0	1.4		
			eS	07 48 15.0	4.0		

1986 4 29
O=08 17 57.8 ± 0.08s
LAT=30.86 N ± 1.57km
LONG=141.64 E ± 1.53km
DEPTH= 39 km ± 0.57km
STATIONS USED = 87, STAND DEV= 1.72s
Ms=5.1/30, m_B=5.4/ 6

MDJ	16.7	329	P	08 21 49.5	−1.0		
SSE	17.5	276	+P	08 22 03.0	1.8		
			sP	08 22 14.5	−0.3		
			SS	08 25 37.0	2.3		
			LN	Ms=4.7		14.0	1.89
SNY	18.2	312	eP	08 22 09.0	0.0		

			S	08 25 19.0	−7.6		
			LN	Ms=5.0		14.0	3.20
			LE			15.0	2.20
CN2	18.2	320	eP	08 22 08.8	−0.6		
			eS	08 25 23.5	−4.3		
			eSS	08 25 49.0	−2.0		
			LE	Ms=5.0		13.0	3.40
DL2	18.2	302	eP	08 22 12.0	2.0		
			eS	08 25 28.0	−1.0		
			LN	Ms=5.1		16.0	4.94
			LE			10.0	0.57
NJ2	19.5	279	−P	08 22 23.8	−0.5		
			LN	Ms=5.0		12.0	2.50
TIA	21.1	291	−P	08 22 41.0	−0.5		
			LN	Ms=5.3		12.0	1.05
			LE			14.0	5.81
BJI	22.6	301	eP	08 22 56.5	−0.1		
			eS	08 27 02.0	5.0		
			SMN	m_B=5.2		7.0	0.42
			SME			9.0	0.35
			LN	Ms=5.1		15.5	1.18
			LE			16.0	3.63
WHN	23.4	276	eP	08 23 04.0	−0.8		
			eS	08 27 12.0	0.1		
			LN	Ms=5.3		15.0	2.83
			LE			16.0	3.77
TIY	25.0	294	−iP	08 23 20.0	−0.1		
			PMZ			1.0	0.080
			(S)	08 27 33.5	−5.4		
HHC	26.2	301	P	08 23 30.5	−0.9		
GZH	26.3	260	eP	08 23 36.5	4.3		
			eS	08 28 03.0	2.7		
			LN	Ms=5.0		14.0	1.74
BTO	27.3	300	P	08 23 41.0	−0.5		
			ePP	08 24 25.0	−3.5		
			eS	08 28 14.0	−2.8		
			LN	Ms=5.6		16.0	3.80
			LE			16.0	6.70
XAN	27.7	285	eP	08 23 43.5	−1.6		
			PP	08 24 32.0	−1.7		
			eS	08 28 22.0	−1.2		
			LN	Ms=5.0		11.0	0.95
			LE			14.0	1.34
GYA	30.9	271	P	08 24 12.0	−1.7		
			S	08 29 13.3	0.3		
			LN	Ms=5.1		17.0	1.50
			LE			17.0	1.90
QZN	31.0	255	eP	08 24 13.0	−1.6		
			eS	08 29 11.0	−4.7		
			LN	Ms=5.1		14.0	1.05
			LE			11.0	1.44
LZH	31.8	290	eP	08 24 20.0	−1.6		
			eS	08 29 24.0	−4.3		
			LN	Ms=5.3		14.0	1.30
			LE			17.0	2.75
CD2	32.4	280	eP	08 24 25.0	−1.7		
			(S)	08 29 40.0	2.7		
			LN	Ms=5.4		15.0	3.96
KMI	34.7	270	eP	08 24 45.0	−1.6		
GTA	35.0	296	+P	08 24 47.5	−1.6		
			S	08 30 08.5	−8.0		
			LE	Ms=5.3		15.5	2.98
WMQ	44.1	303	P	08 26 05.0	0.6		
			eS	08 32 27.5	−6.3		
			LN	Ms=5.4		24.0	3.79
KSH	53.3	298	eP	08 27 17.0	1.1		
			LE	Ms=5.5		10.0	1.30

1986 4 29

O=13 59 20.4 ± 0.11s
LAT= 4.52 N ± 1.85km
LONG= 94.98 E ± 1.83km
DEPTH= 36 km ± 0.33km
STATIONS USED = 90, STAND DEV= 1.35s
Ms=5.3/33, m_B=5.4/ 3

QZN	20.5	44	P	14 03 58.5	0.8		
			S	14 07 40.0	0.5		
			SS	14 08 00.0	−9.9		
			LN	Ms=5.2		15.0	4.70
			LE			15.0	2.20
KMI	21.8	19	−P	14 04 13.5	1.9		
			pP	14 04 17.5	−3.2		
			eS	14 08 06.0	0.2		
			LN	Ms=5.4		14.0	7.40
GYA	24.5	26	−P	14 04 39.0	0.9		
			pP	14 04 45.5	−2.0		
			sP	14 04 50.0	−1.7		
			S	14 08 58.0	5.4		
			ScP	14 11 54.0	3.3		
			LN	Ms=5.2		14.0	3.00
			LE			14.0	1.60
LSA	25.3	352	eP	14 04 45.5	−0.5		
			iS	14 09 11.0	3.4		
			SME			3.0	0.81
GZH	25.6	42	eP	14 04 49.3	0.9		
			eS	14 09 15.0	3.4		
			LN	Ms=5.2		14.0	1.30
			LE			14.0	3.14
CD2	27.5	16	eP	14 05 05.3	−0.8		
			S	14 09 42.5	0.3		

		LN	Ms=5.5	14.0	2.25
		LE		13.5	4.84
WHN	31.7	33	eP	14 05 43.5	0.4	
			pP	14 05 48.0	−4.8	
			eS	14 10 43.0	−6.0	
			LE	Ms=5.3	14.0	2.60
XAN	32.1	22	−P	14 05 45.5	−1.4	
			PP	14 06 50.0	−3.4	
			eS	14 10 49.0	−6.7	
			LN	Ms=5.4	14.0	3.34
			LE		14.0	2.01
GTA	35.0	7	−iP	14 06 11.0	−1.1	
			S	14 11 38.0	−1.8	
			LN	Ms=5.0	12.0	1.09
NJ2	35.4	36	−P	14 06 15.0	0.1	
			S	14 11 48.0	2.6	
			LN	Ms=5.2	15.0	2.10
SSE	36.1	40	eP	14 06 20.0	−1.6	
			eS	14 11 55.0	−3.2	
			sS	14 12 15.0	0.2	
			LE	Ms=5.2	13.0	1.80
TIY	36.7	23	P	14 06 26.3	0.1	
			S	14 12 06.5	0.8	
			LN	Ms=5.5	13.0	2.06
			LE		12.0	2.30
TIA	37.5	30	eP	14 06 32.5	−0.9	
			LE	Ms=5.3	18.0	2.50
BTO	38.4	19	eP	14 06 40.0	−0.5	
			eS	14 12 31.5	−1.2	
			LN	Ms=5.9	13.0	5.60
			LE		13.0	4.90
KSH	38.8	336	−P	14 06 46.0	2.0	
			iS	14 12 43.0	3.9	
			ScS	14 16 53.0	5.0	
			LE	Ms=5.3	12.0	1.60
WMQ	39.7	352	P	14 06 51.0	−0.1	
			PMZ		1.7	0.11
			PcP	14 08 56.5	−0.9	
			ScP	14 12 45.5	3.7	
			S	14 12 54.0	3.1	
			sS	14 13 09.5	1.1	
			ScS	14 16 58.0	5.0	
			LE	Ms=3.6	22.0	0.060
BJI	40.2	25	eP	14 06 57.0	1.6	
			pP	14 07 07.0	1.6	
			eS	14 13 03.0	3.1	
			SMN	m_B=5.2	9.0	0.39
			LN	Ms=4.9	13.0	0.78
DL2	41.9	32	−P	14 07 10.0	0.5	
			S	14 13 27.0	2.7	
			LN	Ms=5.2	15.0	0.75
			LE		14.0	1.09
SNY	45.1	30	+iP	14 07 35.0	−0.2	
			eS	14 14 09.0	−2.3	
			LN	Ms=5.4	18.0	2.00
			LE		20.0	1.80
CN2	47.5	30	−P	14 07 53.0	−1.0	
			PMZ		3.0	0.30
			PP	14 09 46.0	1.7	
			eS	14 14 43.0	−2.2	

1986 4 29
O=15 23 11.1 ± 0.14s
LAT=31.34 N ± 1.70km
LONG= 88.27 E ± 1.54km
DEPTH= 31 km ± 0.54km
STATIONS USED = 21, STAND DEV= 2.62s

LSA	3.0	123	+iPn	15 23 59.5	2.3	
			Sn	15 24 39.5	6.7	
			LN		3.0	0.76
GTA	12.4	46	eP	15 26 07.0	−1.5	
CD2	13.3	88	eP	15 26 18.3	−2.0	
GYA	16.8	102	P	15 27 05.5	−0.8	
XAN	17.6	76	eP	15 27 16.0	0.1	
TIY	20.9	66	eP	15 27 51.0	−2.4	
WHN	22.4	85	e(P)	15 28 10.0	1.7	
CN2	31.7	56	eP	15 29 33.0	−1.8	

1986 4 29
O=22 07 54.3 ± 0.12s
LAT=38.06 N ± 2.43km
LONG= 48.91 E ± 1.41km
DEPTH= 33 km ± 0.01km
STATIONS USED = 27, STAND DEV= 1.20s

KSH	21.1	78	eP	22 12 39.0	−0.1
WMQ	29.7	66	P	22 13 59.5	−0.1
LSA	35.8	91	eP	22 14 52.5	−0.9
GTA	39.3	72	−P	22 15 22.8	0.4
LZH	43.3	75	eP	22 15 56.5	0.8
KMI	47.0	90	−P	22 16 25.0	−0.3
XAN	48.0	76	P	22 16 31.8	−0.6
TIY	49.2	70	eP	22 16 42.3	0.1
GYA	49.5	86	−P	22 16 43.5	−0.7
CN2	56.2	58	eP	22 17 32.0	−1.9

1986 4 29
O=23 12 20.6 ± 0.13s
LAT=24.18 N ± 3.09km
LONG=121.95 E ± 2.39km
DEPTH= 25 km ± 1.99km

STATIONS USED = 36, STAND DEV= 2.45s
Ms=4.2/ 8, M_L=4.2/ 5,

SSE	6.9	355	Pn	23 14 02.5	1.5			
			eLG_2	23 16 05.0	−4.0			
			LE	Ms=3.8		16.0	1.20	
GZH	8.0	264	eP	23 14 19.0	1.3			
			S	23 15 40.0	−7.7			
			LE	Ms=4.1		11.0	1.34	
NJ2	8.3	341	eP	23 14 19.0	−3.5			
			LN	Ms=4.1		12.0	1.40	
GYA	14.0	283	P	23 15 39.0	−1.1			
			S	23 18 15.5	0.3			
			LN	Ms=4.5		8.0	1.10	
XAN	15.0	314	eP	23 15 52.5	−0.8			
			LG_1	23 20 22.0	9.5			
			LE	Ms=4.2		11.0	0.63	
BJI	16.5	344	(P)	23 16 18.0	5.2			
CD2	17.5	297	eP	23 16 26.8	2.4			
			LN	Ms=4.6		8.0	0.89	
KMI	17.5	277	eP	23 16 26.5	1.6			
LZH	19.6	311	eP	23 16 50.0	−0.4			
CN2	19.8	8	eP	23 16 56.0	3.9			
GTA	24.1	314	P	23 17 36.5	0.9			
			LE	Ms=4.3		11.0	0.34	

1986 4 30
O=01 29 24.1 ± 0.11s
LAT=28.13 N ± 1.54km
LONG=140.63 E ± 1.95km
DEPTH= 40 km ± 0.42km
STATIONS USED = 34, STAND DEV= 1.68s
Ms=4.4/ 14, m_B=5.4/ 10

SSE	17.2	285	+P	01 33 23.0	0.3			
			S	01 36 29.0	−1.0			
			SS	01 36 51.0	−0.5			
			LN	Ms=4.2		11.0	0.48	
DL2	19.1	309	eP	01 33 47.0	0.4			
			PMZ	m_B=5.5		5.0	1.09	
			eS	01 37 14.0	−0.4			
			SME	m_B=5.3		7.0	0.87	
			LN	Ms=4.1		11.0	0.36	
NJ2	19.2	287	+P	01 33 48.0	0.0			
			LN	Ms=4.5		11.0	0.90	
SNY	19.5	319	eP	01 33 49.0	−1.8			
			S	01 37 30.0	7.6			
			LE	Ms=4.5		12.0	0.78	
CN2	19.8	326	eP	01 33 54.5	−0.1			
TIA	21.4	298	eP	01 34 09.3	−1.8			
WHN	23.0	282	eP	01 34 28.5	1.7			
			PMZ	m_B=5.6		5.0	1.42	
			S	01 38 34.0	4.3			
			LN	Ms=4.5		10.0	0.55	
BJI	23.4	307	eP	01 34 30.0	−0.5			
			eS	01 38 45.0	7.8			
			SMN	m_B=5.3		5.0	0.17	
			SME			5.5	0.44	
			LN	Ms=4.8		6.5	0.67	
			LE			9.0	0.47	
TIY	25.4	299	+P	01 34 51.0	0.7			
			PMZ	m_B=5.9		4.5	1.41	
			eS	01 39 18.5	6.3			
			LE	Ms=4.3		14.0	0.40	
XAN	27.7	290	eP	01 35 10.0	−1.3			
BTO	28.0	304	P	01 35 13.5	−0.6			
			eS	01 39 52.0	−2.2			
QZN	29.6	259	eP	01 35 28.0	0.3			
			eS	01 40 16.0	−2.7			
GYA	30.2	275	eP	01 35 35.0	1.7			
			S	01 40 30.0	2.5			
CD2	32.1	284	eP	01 35 51.0	0.7			
			LN	Ms=4.6		17.0	0.68	
GTA	35.5	299	P	01 36 19.0	−0.4			
			PP	01 37 45.0	5.7			
			LN	Ms=4.4		10.0	0.22	
LSA	43.1	284	eP	01 37 22.5	−0.4			
WMQ	44.9	305	P	01 37 38.0	1.1			
KSH	53.9	300	eP	01 38 48.0	1.7			

1986 4 30
O=02 16 12.5 ± 0.12s
LAT= 4.56 N ± 1.78km
LONG= 95.04 E ± 1.63km
DEPTH= 48 km ± 0.23km
STATIONS USED = 71, STAND DEV= 1.31s
Ms=4.8/ 9,

QZN	20.4	44	eP	02 20 47.5	−0.5			
			eS	02 24 33.0	4.2			
			LN	Ms=4.6		14.0	1.16	
KMI	21.7	19	−P	02 21 03.5	1.4			
			pP	02 21 15.0	1.9			
			eS	02 24 57.0	2.5			
			LN	Ms=4.7		14.0	1.50	
GYA	24.4	26	+P	02 21 29.5	1.1			
			S	02 25 50.0	8.7			
LSA	25.3	352	eP	02 21 35.8	−0.9			
			eS	02 25 57.0	0.2			
			SME			3.0	0.30	
CD2	27.5	16	P	02 21 55.8	−0.7			
XAN	32.0	22	−iP	02 22 35.8	−1.5			
			S	02 27 47.0	3.5			

		LN	Ms=4.6	12.0	0.50	
LZH	32.4	13	+P	02 22 39.5	−1.0	
GTA	35.0	6	−iP	02 23 01.3	−1.2	
NJ2	35.3	36	+P	02 23 05.5	0.3	
TIY	36.6	23	P	02 23 16.5	−0.1	
			eS	02 29 04.0	8.5	
			LN	Ms=5.0	16.0	1.04
			LE		15.0	0.57
BTO	38.3	18	eP	02 23 30.5	−0.4	
			eS	02 29 25.5	4.0	
			LN	Ms=5.1	13.0	1.20
			LE		13.0	0.50
KSH	38.8	336	eP	02 23 37.0	2.3	
WMQ	39.6	352	P	02 23 42.0	0.3	
			PMZ		1.5	0.060
			ScP	02 29 37.0	6.2	
			S	02 29 44.5	4.5	
			ScS	02 33 47.0	5.0	
BJI	40.1	25	eP	02 23 47.0	1.2	
DL2	41.8	32	eP	02 24 01.3	1.5	
SNY	45.0	30	−P	02 24 25.3	−0.2	
CN2	47.4	30	+P	02 24 43.5	−0.8	

1986 4 30
O=04 24 48.3 ± 0.07s
LAT=35.25 N ± 1.12km
LONG=131.70 E ± 1.16km
DEPTH= 38 km ± 0.37km
STATIONS USED = 80, STAND DEV= 1.32s
Ms=5.1/29,

DL2	8.8	297	eP	04 27 00.0	3.4	
SNY	9.1	318	eP	04 27 01.8	1.0	
			S	04 28 38.0	−4.9	
			SMN		1.0	0.42
			SME		1.0	0.22
			LN	Ms=5.1	10.0	7.44
			LE		10.0	6.02
SSE	9.7	248	eP	04 27 07.0	−2.0	
			eLG_1	04 29 48.8	−5.2	
			eLG_2	04 30 10.0	0.5	
			LN	Ms=4.8	9.0	1.93
			LE		10.0	3.44
CN2	9.8	332	+P	04 27 10.8	0.8	
			eS	04 29 03.0	3.3	
			LN	Ms=4.8	11.0	5.30
NJ2	11.2	257	eP	04 27 28.5	−0.1	
			LN	Ms=4.8	10.0	3.40
TIA	11.9	279	eP	04 27 38.5	0.1	
BJI	13.2	296	eP	04 27 54.0	−1.8	
			eLG_1	04 31 40.5	−2.2	
			LN	Ms=4.9	11.0	2.48
			LE		11.0	3.22
WHN	15.3	257	eP	04 28 23.3	−0.1	
			pP	04 28 28.5	−2.8	
			sP	04 28 33.0	−3.5	
			eS	04 31 13.0	1.0	
			LE	Ms=4.8	12.0	2.74
TIY	15.7	285	P	04 28 31.0	2.5	
			LG_1	04 33 05.0	3.9	
			LG_2	04 33 28.0	2.0	
			LN	Ms=5.1	11.0	2.52
			LE		12.0	3.76
BTO	17.9	294	−iP	04 28 56.8	0.4	
			eS	04 32 11.0	−1.0	
			LN	Ms=5.2	13.0	1.80
			LE		12.0	4.90
XAN	18.8	273	P	04 29 06.0	−1.0	
			S	04 32 24.0	−6.9	
			LN	Ms=5.2	12.0	2.25
			LE		12.0	4.25
GZH	20.1	238	−P	04 29 21.8	0.6	
			LN	Ms=5.1	12.0	2.74
			LE		13.0	2.02
LZH	22.6	280	+iP	04 29 46.5	−0.9	
			PMZ		1.5	0.17
			eS	04 33 49.0	0.9	
GYA	23.2	255	−P	04 29 52.5	−0.2	
			S	04 34 03.5	6.8	
			LN	Ms=5.0	12.0	1.80
			LE		12.0	1.30
CD2	23.8	267	eP	04 29 57.0	−1.5	
			eS	04 34 03.0	−5.3	
			LE	Ms=5.3	11.0	3.87
QZN	25.2	236	P	04 30 14.5	2.3	
			eS	04 34 35.0	2.6	
			LN	Ms=5.1	11.0	1.40
			LE		12.0	1.80
GTA	25.6	289	+iP	04 30 15.5	−0.8	
			SME		17.0	1.03
			LE	Ms=5.0	13.0	1.91
KMI	26.9	256	eP	04 30 27.0	−1.3	
			pP	04 30 34.0	−4.0	
			eS	04 34 57.0	−3.9	
			LN	Ms=5.1	11.0	1.74
WMQ	34.7	298	P	04 31 35.5	−1.2	

1986 4 30
O=07 07 17.1 ± 0.13s
LAT=18.77 N ± 3.04km
LONG=102.62 W ± 4.81km

DEPTH = 11 km ± 1.07km
STATIONS USED = 59, STAND DEV = 1.95s
Ms = 7.3 / 24, m_B = 6.7 / 8

CN2	103.8	326	eP	07 21 20.0	−1.5			
			PP	07 25 36.0	−3.5			
			eSKS	07 31 51.0	−7.7			
			eS	07 32 58.0	−9.6			
			LN	Ms = 7.3		17.0	50.1	
BJI	111.2	329	PKP	07 25 54.0	−2.2			
			PP	07 26 35.0	0.2			
			SKKS	07 33 01.0				
			eSS	07 42 00.0	−4.1			
			PPMZ			15.5	8.04	
			LN	Ms = 7.3		17.0	44.0	
WMQ	117.0	352	PKP	07 26 08.0	4.8			
			PP	07 27 08.0	−8.3			
			PPMZ			22.0	7.61	
			LN	Ms = 7.6		18.0	87.6	
GTA	118.4	340	PKP	07 26 06.0	−0.1			
			iPP	07 27 25.0	−1.3			
			PPMZ			19.0	11.9	
			SKS	07 33 14.0	−0.5			
			SS	07 43 40.0	1.0			
			LN	Ms = 7.5		18.0	64.2	
WHN	119.4	323	ePKP	07 26 08.3	0.4			
			SKS	07 33 15.0	−1.4			
			LN	Ms = 7.4		16.0	42.4	
XAN	119.5	330	PKP	07 26 08.0	−0.1			
			PP	07 27 24.0	−9.4			
			SKS	07 33 17.0	0.5			
			LN	Ms = 7.6		17.0	77.5	
			LE			16.0	30.5	
KSH	122.1	1	PKP	07 26 15.0	1.9			
			LN	Ms = 7.8		19.0	139	
GYA	126.8	327	PKP	07 26 21.0	−1.3			
			PP	07 28 15.0	−7.0			
			SKKS	07 35 12.0				
			LN	Ms = 7.3		22.0	30.2	
			LE			22.0	38.6	
KMI	129.9	330	PKP	07 26 26.0	−2.3			
			PP	07 28 39.0	−3.4			
			PPMZ	m_B = 6.7		12.0	3.50	
			SKKS	07 35 26.0				
			SS	07 46 11.0	7.3			
			LN	Ms = 7.4		16.0	38.7	
LSA	130.0	344	ePKP	07 26 28.5	−0.3			
			LE	Ms = 7.3		35.0	61.6	

1986 4 30
O = 14 09 39.8 ± 0.10s
LAT = 17.82 S ± 2.92km
LONG = 69.54 W ± 3.63km
DEPTH = 98 km ± 1.02km
STATIONS USED = 65, STAND DEV = 1.29s

KSH	143.2	47	ePKP	14 28 59.0	−4.6
			ePP	14 32 15.0	−2.4
WMQ	147.7	32	PKP	14 29 14.0	2.7
CN2	151.2	337	−PKP	14 29 15.5	−1.1
SNY	153.6	338	ePKP	14 29 19.5	−0.5
GTA	156.6	21	−PKP	14 29 24.5	0.3
DL2	156.9	337	ePKP	14 29 24.5	0.1
BJI	157.3	349	ePKP	14 29 25.5	0.5
LSA	158.8	53	ePKP	14 29 26.0	−1.3
TIY	160.1	355	PKP	14 29 29.3	0.9
LZH	160.9	17	ePKP	14 29 30.0	0.7
SSE	163.6	326	PKP	14 29 32.5	0.8
			PKP_2	14 31 22.0	
XAN	163.8	5	−PKP	14 29 32.5	0.5
NJ2	163.9	333	+PKP	14 29 32.5	0.4
CD2	165.6	24	ePKP	14 29 35.0	1.2
WHN	166.9	345	ePKP	14 29 35.0	0.3
KMI	169.8	43	ePKP	14 29 37.0	0.3
GYA	170.7	22	+PKP	14 29 37.8	0.6

1986 4 30
O = 17 47 51.4 ± 0.24s
LAT = 47.37 S ± 4.03km
LONG = 99.83 E ± 4.20km
DEPTH = 12 km ± 0.68km
STATIONS USED = 43, STAND DEV = 2.56s
Ms = 5.8 / 15, m_B = 5.7 / 3

QZN	66.7	10	eP	17 58 46.0	0.9		
			eS	18 07 33.0	−2.6		
			LN	Ms = 5.8		21.0	3.50
			LE			20.0	1.60
GZH	71.2	13	e(P)	17 59 12.0	−0.8		
			eS	18 08 34.0	5.3		
			LN	Ms = 5.6		24.0	2.30
KMI	72.2	3	eP	17 59 18.0	−1.2		
			eS	18 08 36.0	−5.0		
			LN	Ms = 5.7		16.0	2.20
GYA	73.7	6	P	17 59 27.0	−1.2		
			S	18 08 47.0	−9.6		
			LN	Ms = 5.9		18.0	2.30
			LE			18.0	2.40
LSA	77.1	352	eP	17 59 46.0	−1.8		
CD2	78.0	3	eP	17 59 50.8	−1.5		
			eS	18 09 40.0	−5.0		
			LN	Ms = 6.0		20.0	4.42
XAN	81.4	8	P	18 00 09.8	−1.1		

			eS	18 10 20.0	−1.3		
			SMN	$m_B = 5.8$		9.0	0.61
			SME			9.0	0.41
			LN	Ms = 6.0		20.0	3.59
			LE			18.0	1.31
LZH	83.2	3	eP	18 00 18.5	−1.4		
			S	18 10 31.0	−6.0		
TIY	85.4	10	eP	18 00 30.0	−1.3		
			eS	18 10 55.5	−6.1		
			LN	Ms = 5.8		18.0	2.36
GTA	86.4	360	eP	18 00 34.0	−2.0		
			S	18 11 00.0	−8.8		
			LN	Ms = 5.8		19.0	2.26
BTO	88.0	8	eP	18 00 43.0	−1.0		
			eSKS	18 11 09.0	0.3		
			eS	18 11 21.0	−5.4		
			LN	Ms = 6.1		23.0	4.50
			LE			23.0	2.30
BJI	88.2	12	eP	18 00 43.5	−1.3		
			eSKS	18 11 12.0	2.1		
			eS	18 11 30.0	2.1		
			SMN	$m_B = 5.7$		10.0	0.58
			SME			11.0	0.45
			LN	Ms = 5.5		20.0	1.22
KSH	89.0	342	eP	18 00 49.8	1.1		
			LE	Ms = 5.9		14.0	2.13
WMQ	91.4	351	(P)	18 00 59.0	−0.9		
CN2	93.6	18	eP	18 01 18.5	8.9		

1986 4 30
O = 23 14 42.9 ± 0.06s
LAT = 28.70 N ± 1.08km
LONG = 130.17 E ± 1.03km
DEPTH = 47 km ± 0.43km
STATIONS USED = 97, STAND DEV = 1.34s
Ms = 5.3 / 42, m_B = 5.9 / 15

SSE	8.2	289	+iP	23 16 42.0	0.4		
			PMZ			1.0	0.48
			sP	23 16 56.0	−0.1		
			LN	Ms = 5.2		16.0	11.7
			LE			16.0	18.8
NJ2	10.3	292	+iP	23 17 12.0	0.5		
			S	23 19 10.0	4.1		
			LN	Ms = 5.4		10.0	12.2
			LE			12.0	10.9
QZH	11.0	253	P	23 17 19.0	−1.6		
DL2	12.4	327	+iP	23 17 40.0	0.4		
			PMZ	$m_B = 6.4$		5.0	3.11
			eS	23 20 00.0	3.4		
			LN	Ms = 5.5		14.0	19.4
TIA	13.3	308	P	23 17 53.5	1.9		
WHN	13.9	281	eP	23 17 58.0	−1.1		
			PMZ	$m_B = 6.2$		5.0	2.22
			sP	23 18 13.0	−0.9		
			eS	23 20 31.0	−1.1		
			LE	Ms = 4.9		13.0	4.43
SNY	14.1	339	+iP	23 18 04.0	1.4		
			PMZ	$m_B = 6.1$		6.0	1.97
			sP	23 18 17.5	0.1		
			S	23 20 44.0	6.0		
			LN	Ms = 5.2		10.0	4.16
			LE			9.0	3.79
CN2	15.5	347	+iP	23 18 21.5	0.9		
			PMZ	$m_B = 5.8$		4.5	2.10
			pP	23 18 32.0	2.6		
			eS	23 21 12.0	1.0		
			LN	Ms = 5.2		13.0	7.60
MDJ	15.9	358	P	23 18 25.8	0.6		
GZH	16.1	254	−P	23 18 32.0	3.7		
			LN	Ms = 5.4		15.0	11.3
			LE			13.0	2.02
BJI	16.1	318	+P	23 18 29.5	1.1		
			PMZ	$m_B = 5.3$		7.0	0.94
			LN	Ms = 5.2		20.0	9.28
			LE			17.0	4.68
TIY	17.3	306	+P	23 18 44.5	1.2		
			PMZ	$m_B = 6.0$		6.5	4.97
			LN	Ms = 5.4		14.0	6.85
			LE			15.0	7.33
XAN	18.9	292	+iP	23 19 01.3	−1.2		
			PMZ	$m_B = 5.6$		7.0	2.29
			pP	23 19 13.0	1.2		
			sP	23 19 18.0	0.3		
			S	23 22 24.0	−3.0		
			SS	23 22 45.0	−7.8		
			LN	Ms = 5.1		10.0	2.10
			LE			10.0	2.52
HHC	19.5	313	P	23 19 07.0	−1.8		
BTO	20.3	311	−P	23 19 17.0	−1.2		
			pP	23 19 28.0	−0.7		
			eS	23 22 56.0	−2.8		
			sS	23 23 12.0	−2.4		
			SS	23 23 29.0	0.6		
			LN	Ms = 5.2		13.0	3.20
			LE			13.0	2.70
QZN	20.9	247	−P	23 19 24.8	0.7		
			pP	23 19 37.0	2.1		
			sP	23 19 43.0	2.8		
			S	23 23 11.0	2.5		
			sS	23 23 27.0	0.2		

			LN			Ms = 5.3		17.0	6.00
			LE					16.0	3.10
GYA	20.9	269	+P	23	19	25.0	0.4		
			sP	23	19	45.0	4.3		
			S	23	23	15.0	5.7		
			SS	23	23	40.0	−3.0		
			LN			Ms = 5.4		12.0	5.50
			LE					12.0	3.20
CD2	23.0	282	eP	23	19	43.5	−1.5		
			eS	23	23	50.0	2.1		
			LE			Ms = 5.3		12.0	4.36
LZH	23.4	295	+iP	23	19	48.5	−0.2		
			PMZ			m_B = 5.6		3.5	0.89
KMI	24.7	268	+P	23	20	01.5	−0.1		
			pP	23	20	13.5	1.0		
			LE			Ms = 5.3		16.0	4.60
GTA	27.2	301	P	23	20	22.3	−2.6		
			eS	23	24	54.0	−4.6		
			LE			Ms = 5.5		16.0	6.85
LSA	34.0	281	eP	23	21	24.0	−1.0		
			SS	23	28	51.8	−1.4		
			LE			Ms = 5.3		21.0	3.44
WMQ	37.0	306	P	23	21	49.3	−1.0		
			eS	23	27	28.0	−4.0		
			LN			Ms = 5.7		20.0	4.08
			LE					20.0	6.16
KSH	45.5	298	eP	23	23	00.8	0.2		
			cPP	23	24	48.8	1.7		
			eS	23	29	40.8	2.1		
			LE			Ms = 6.0		18.0	10.3