Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
				1987 2 1			
				O=02 59 25.7 ± 0.08s			
				LAT= 2.51 S ± 1.38km			
				LONG=138.88 E ± 1.41km			
				DEPTH= 60 km ± 0.36km			
				STATIONS USED = 62, STAND DEV= 1.02s			
				Ms=4.7/ 2,			
QZN	35.7	308	P	03 06 19.8	−0.8		
SSE	37.4	335	eP	03 06 38.0	2.8		
			eS	03 12 16.0	−2.5		
			LN	Ms=4.7	16.0		0.58
NJ2	39.3	333	eP	03 06 51.0	0.4		
WHN	40.3	326	eP	03 07 01.0	1.5		
GYA	42.4	315	P	03 07 17.4	0.9		
XAN	46.0	325	+P	03 07 45.0	−0.5		
SNY	46.3	344	+P	03 07 47.7	0.2		
TIY	46.9	331	+P	03 07 53.8	1.0		
CD2	47.1	318	P	03 07 54.3	−0.2		
BJI	47.2	336	eP	03 07 54.5	−0.1		
MDJ	47.6	351	eP	03 07 58.5	0.2		
CN2	47.7	347	−P	03 07 58.0	−0.4		
HHC	49.8	333	eP	03 08 15.4	0.0		
LZH	50.4	323	+P	03 08 20.0	0.1		
			PMZ		1.5		0.090
GTA	55.0	323	+P	03 08 53.6	−0.4		
WMQ	64.9	321	+P	03 10 01.5	−0.6		
KSH	71.0	313	P	03 10 41.5	1.4		
				1987 2 1			
				O=04 05 14.3 ± 0.11s			
				LAT=44.33 N ± 0.89km			
				LONG= 81.49 E ± 0.93km			
				DEPTH= 12 km ± 0.22km			
				STATIONS USED = 7, STAND DEV= 2.52s			
				M_L=3.0/ 6,			
WMQ	4.5	94	ePg	04 06 34.0	−0.1		
			Sg	04 07 36.4	0.9		
			SMN	M_L=2.6	0.4		0.010
				1987 2 1			
				O=04 11 39.1 ± 0.07s			
				LAT=53.09 N ± 1.91km			
				LONG=158.64 E ± 1.06km			
				DEPTH=158 km ± 0.09km			
				STATIONS USED = 39, STAND DEV= 0.99s			
MDJ	20.8	258	eP	04 16 08.5	−0.9		
			pP	04 16 33.0	−5.4		
CN2	23.7	260	+P	04 16 36.0	−1.8		
BJI	31.5	263	eP	04 17 48.5	0.0		
GTA	41.7	275	P	04 19 14.9	0.2		
CD2	45.1	263	eP	04 19 42.5	0.9		
WMQ	46.1	288	eP	04 19 49.2	−0.7		
GYA	46.6	256	P	04 19 55.0	1.1		
				1987 2 1			
				O=06 27 45.2 ± 0.08s			
				LAT=41.58 N ± 0.65km			
				LONG=119.97 E ± 0.79km			
				DEPTH= 15 km			
				STATIONS USED = 8, STAND DEV= 3.93s			
				M_L=2.8/ 8,			
SNY	2.7	84	ePg	06 28 35.4	2.2		
			Sg	06 29 08.2	−2.0		
			SMN	M_L=2.6	0.6		0.040
			SME		0.6		0.020
BJI	3.3	243	ePn	06 28 42.0	5.6		
			eSg	06 29 25.5	−2.2		
			SMN	M_L=2.5	0.5		0.020
			SME		0.5		0.010
				1987 2 1			
				O=09 08 13.3 ± 0.11s			
				LAT=24.08 N ± 1.40km			
				LONG=122.54 E ± 1.47km			
				DEPTH= 31 km ± 0.31km			
				STATIONS USED = 97, STAND DEV= 1.60s			
				Ms=5.1/37, M_L=4.7/ 5, m_B=5.2/ 6			
QZH	3.7	284	+Pn	09 09 09.5	0.7		
			Sn	09 09 49.5	−3.5		
			SMN	M_L=5.0	1.2		4.93
			SME		1.2		3.32
SSE	7.1	351	+P	09 09 57.5	−0.2		
			LN	Ms=4.6	11.0		5.39
			LE		11.0		2.50
GZH	8.5	265	eP	09 10 16.5	−0.7		
			LN	Ms=5.2	6.0		9.62
NJ2	8.6	339	−P	09 10 17.0	−1.5		
			S	09 11 51.0	−4.1		
			LN	Ms=5.2	11.0		14.0
WHN	9.7	313	eP	09 10 33.0	−1.2		
			pP	09 10 36.5	−4.5		
			S	09 12 21.0	−2.3		
			LN	Ms=5.3	4.0		7.92

			LE			10.0	4.40
TIA	13.0	340	eP	09 11 21.2	2.9		
			sP	09 11 27.6	−2.2		
			PP	09 11 32.2	3.5		
			eS	09 13 48.0	5.4		
			SMN	m_B=4.8		6.0	0.40
			LN	Ms=5.1		11.5	5.68
			LE			11.0	2.63
GYA	14.6	283	P	09 11 40.0	0.6		
			sP	09 11 47.0	−3.8		
			S	09 14 21.6	1.5		
			LN	Ms=5.5		6.0	6.40
			LE			6.0	2.40
DL2	14.8	357	P	09 11 46.0	3.6		
			sP	09 11 54.0	0.0		
			eS	09 14 33.0	6.7		
			LN	Ms=4.9		13.0	3.80
			LE			13.0	1.60
XAN	15.5	313	eP	09 11 51.5	0.1		
			pP	09 11 56.5	−1.8		
			LN	Ms=4.9		10.0	2.59
			LE			12.0	1.52
TIY	16.1	330	+P	09 12 01.8	2.4		
			PMZ	m_B=5.5		5.5	1.14
			S	09 14 56.0	−0.2		
			LN	Ms=5.2		14.0	6.67
			LE			12.0	2.42
BJI	16.8	343	eP	09 12 10.0	2.1		
			PMZ	m_B=5.1		6.0	0.51
			LN	Ms=4.9		13.0	3.11
			LE			8.0	0.57
SNY	17.7	3	+iP	09 12 21.0	1.4		
			PMZ	m_B=5.3		7.0	1.01
			sP	09 12 28.0	−3.4		
			PP	09 12 33.5	−0.3		
			eS	09 15 34.0	0.1		
			SME			15.0	1.16
			LN	Ms=5.0		14.0	2.95
			LE			16.0	1.97
CD2	18.0	296	+P	09 12 23.0	0.0		
			pP	09 12 25.6	−4.7		
			eS	09 15 40.0	−0.1		
			LN	Ms=5.5		5.0	4.17
KMI	18.0	277	+P	09 12 24.0	0.2		
			pP	09 12 29.0	−1.9		
			eS	09 15 40.0	−1.6		
HHC	19.1	334	+P	09 12 37.0	0.5		
			pP	09 12 41.0	−2.7		
			sP	09 12 44.0	−4.2		
			S	09 16 03.0	−1.0		
			LN	Ms=5.1		13.0	3.81
			LE			13.0	1.33
BTO	19.5	330	+iP	09 12 41.6	0.1		
			sP	09 12 50.0	−3.5		
			S	09 16 12.0	−2.4		
			LN	Ms=4.8		15.0	1.80
			LE			15.0	1.60
CN2	19.8	6	+P	09 12 43.0	−1.4		
			eS	09 16 18.0	−3.0		
LZH	20.1	311	+P	09 12 48.5	1.0		
			PMZ			1.5	0.26
			sP	09 12 55.0	−4.7		
			eS	09 16 26.0	−1.0		
			SMN	m_B=5.1		9.0	0.74
			LE	Ms=4.9		13.0	2.21
MDJ	21.3	14	eP	09 12 58.5	−1.1		
			PP	09 13 20.0	−3.1		
			S	09 16 46.5	−2.4		
GTA	24.5	314	+iP	09 13 31.9	0.0		
			PMZ	m_B=5.3		5.0	0.56
			PcP	09 17 10.6	0.4		
			ScP	09 20 45.5	0.4		
			eS	09 17 49.0	0.7		
			SME			16.0	0.97
			LE	Ms=4.9		13.0	1.68
LSA	28.5	288	+P	09 14 08.4	−0.4		
WMQ	34.6	313	+P	09 15 01.7	−0.5		
KSH	42.0	303	+iP	09 16 07.0	3.2		
			sP	09 16 14.0	−2.5		
			LE	Ms=5.3		14.0	1.70

1987 2 1
O=11 43 46.3 ± 0.05s
LAT=28.08 N ± 0.32km
LONG=104.80 E ± 0.40km
DEPTH= 10 km ± 0.18km
STATIONS USED = 8, STAND DEV= 1.56s

				M_L=3.0 / 7,			
GYA	2.3	134	Pg	11 44 26.0	−1.4		
			Sg	11 44 54.2	−4.7		
			SMN	M_L=2.8		0.8	0.060
			SME			0.8	0.060
CD2	3.0	342	Pn	11 44 34.5	0.7		
			Pg	11 44 43.0	4.5		
			Sn	11 45 11.0	−0.2		
			Sg	11 45 22.9	3.9		
			SMN	M_L=3.0		0.7	0.050
			SME			0.7	0.070

1987 2 1

O = 20 21 48.7 ± 0.10s
LAT = 19.31 N ± 1.75km
LONG = 121.09 E ± 1.64km
DEPTH = 22 km ± 1.12km
STATIONS USED = 84, STAND DEV = 1.92s
Ms = 4.5 / 28, M_L = 4.3 / 7, m_B = 5.1 / 7

QZH	6.1	338	ePn	20 23 17.2	−0.4		
			Sn	20 24 24.5	−4.0		
			SME	M_L = 4.4		1.0	0.29
			LE	Ms = 3.9		13.0	1.62
GZH	8.1	299	+P	20 23 45.0	−3.7		
			LE	Ms = 4.4		13.0	3.24
QZN	10.6	270	eP	20 24 18.8	−4.3		
			LN	Ms = 4.4		16.0	2.00
			LE			18.0	2.20
SSE	11.7	0	eP	20 24 37.5	−0.7		
			LN	Ms = 4.3		24.0	2.24
			LE			15.0	0.86
WHN	12.7	333	eP	20 24 49.5	−2.2		
			cS	20 27 08.0	−5.9		
			LN	Ms = 4.4		16.0	1.68
NJ2	12.8	351	eP	20 24 54.0	0.9		
			LN	Ms = 4.4		14.0	1.60
GYA	15.1	301	P	20 25 22.2	−0.3		
			sP	20 25 30.0	−2.3		
			S	20 28 10.0	1.1		
			LN	Ms = 4.6		13.0	1.30
			LE			13.0	1.50
TIA	17.2	349	cP	20 25 50.5	1.0		
			esP	20 25 58.0	−1.5		
			eS	20 29 04.0	5.1		
			SME	m_B = 5.1		5.5	0.53
			LN	Ms = 4.4		15.0	1.05
KMI	17.9	292	+P	20 26 00.0	0.9		
			sP	20 26 09.0	0.1		
			eS	20 29 18.0	1.7		
			sS	20 29 25.0	−0.7		
			LN	Ms = 4.8		15.0	1.60
			LE			16.0	1.90
XAN	18.2	326	+P	20 26 03.4	0.9		
			PMZ	m_B = 5.2		6.0	0.64
			PP	20 26 19.0	2.0		
			S	20 29 24.0	2.2		
			SMN	m_B = 4.9		12.0	0.71
			LN	Ms = 4.6		15.0	1.60
CD2	19.5	310	cP	20 26 16.3	−0.7		
			cS	20 29 45.0	−5.0		
			LE	Ms = 4.7		12.0	1.28
TIY	19.8	339	cP	20 26 21.6	0.3		
			S	20 30 04.5	6.8		
			LN	Ms = 4.5		16.0	1.04
			LE			14.0	0.48
BJI	21.1	349	eP	20 26 34.0	−0.4		
			pP	20 26 39.0	−2.3		
			eS	20 30 27.0	3.7		
			SMN	m_B = 5.4		6.0	0.65
			SME			5.5	0.46
			LN	Ms = 4.3		12.0	0.46
SNY	22.5	5	−P	20 26 48.2	−0.7		
			S	20 30 50.5	0.8		
			LN	Ms = 4.4		26.0	0.81
			LE			26.0	0.86
LZH	22.6	321	eP	20 26 49.5	0.1		
			PMZ			1.5	0.060
			eS	20 30 50.0	−1.3		
			SMN	m_B = 4.6		10.0	0.21
			LN	Ms = 4.5		12.0	0.61
HHC	23.0	341	eP	20 26 58.0	4.8		
			LE	Ms = 4.6		16.0	1.19
BTO	23.2	338	eP	20 26 54.8	−1.1		
			sP	20 27 05.0	−1.3		
			ePP	20 27 25.0	−1.1		
			S	20 31 03.0	0.9		
			sS	20 31 14.0	−0.5		
			LN	Ms = 4.6		16.0	1.00
			LE			16.0	0.60
CN2	24.7	8	eP	20 27 08.0	−1.9		
			eS	20 31 26.0	−1.9		
MDJ	26.2	14	eP	20 27 22.7	−1.5		
GTA	27.2	322	P	20 27 33.4	0.2		
			eS	20 32 12.0	2.8		
			LN	Ms = 4.6		18.0	0.65
			LE			15.0	0.59
LSA	29.1	297	P	20 27 50.0	−0.6		
WMQ	37.1	319	P	20 29 01.6	1.7		
KSH	43.6	307	eP	20 29 56.5	2.7		

1987 2 2
O = 06 29 56.3 ± 0.13s
LAT = 5.63 S ± 1.21km
LONG = 154.23 E ± 2.04km
DEPTH = 42 km ± 0.83km
STATIONS USED = 39, STAND DEV = 1.59s

WHN	52.4	316	cP	06 39 08.0	0.5
CN2	55.6	335	cP	06 39 30.0	−1.0
GYA	56.0	307	P	06 39 34.0	0.1
BJI	57.4	326	eP	06 39 42.0	−1.4
TIY	58.1	321	eP	06 39 47.7	−0.6
XAN	58.2	316	+iP	06 39 48.2	−1.1
CD2	60.4	310	+iP	06 40 03.9	−0.3

			PMZ			1.1	0.13
LZH	62.8	315	eP	06 40 20.0	−0.9		
			PMZ			1.5	0.070
GTA	67.2	317	+iP	06 40 49.3	0.0		
LSA	69.9	304	−P	06 41 05.2	−0.9		
WMQ	77.3	317	P	06 41 48.4	−0.8		
KSH	84.5	310	P	06 42 26.0	−1.4		

1987 2 2
O = 06 55 58.6 ± 0.08s
LAT = 41.26 N ± 1.45km
LONG = 142.20 E ± 1.04km
DEPTH = 55 km ± 0.77km
STATIONS USED = 22, STAND DEV = 1.56s

MDJ	9.8	294	eP	06 58 20.5	0.3		
CN2	12.6	287	eP	06 59 01.0	3.2		
BJI	19.8	275	eP	07 00 24.0	−3.1		
WMQ	39.6	292	P	07 03 27.0	−0.1		
LSA	42.6	271	−P	07 03 51.0	−0.9		

1987 2 2
O = 18 12 56.1 ± 0.21s
LAT = 38.71 N ± 2.05km
LONG = 75.57 E ± 2.08km
DEPTH = 25 km
STATIONS USED = 13, STAND DEV = 3.51s
M_L = 3.9 / 4,

KSH	0.8	23	Pg	18 13 17.0	5.8		
			SMN	M_L = 3.9		0.5	3.60
WMQ	10.5	57	P	18 15 27.6	−0.4		
			SMN			1.0	0.010
GTA	18.8	80	eP	18 17 17.1	0.0		

1987 2 2
O = 19 22 02.9 ± 0.12s
LAT = 16.36 N ± 1.97km
LONG = 99.24 W ± 3.63km
DEPTH = 33 km
STATIONS USED = 11, STAND DEV = 2.10s

NJ2	119.6	323	cPKP	19 40 50.0	−0.6
GYA	130.6	329	PKP	19 41 08.6	−3.2

1987 2 2
O = 19 32 21.6 ± 0.32s
LAT = 54.26 N ± 5.59km
LONG = 162.66 E ± 4.81km
DEPTH = 33 km ± 0.22km
STATIONS USED = 24, STAND DEV = 2.59s

NJ2	38.1	252	eP	19 39 38.6	−0.7
GTA	44.0	277	P	19 40 26.9	−1.3
CD2	47.6	265	eP	19 40 56.2	−0.5
WMQ	48.0	290	eP	19 41 05.0	4.9
GYA	49.2	259	P	19 41 08.6	−0.9
KMI	52.5	261	−P	19 41 34.0	−0.5
LSA	55.9	275	iP	19 41 58.2	−1.1

1987 2 2
O = 20 18 42.1 ± 0.20s
LAT = 4.21 S ± 2.27km
LONG = 151.80 E ± 2.10km
DEPTH = 11 km ± 0.87km
STATIONS USED = 30, STAND DEV = 2.64s

GYA	53.2	308	eP	20 28 05.2	1.6
BJI	54.9	327	eP	20 28 20.5	5.2
XAN	55.5	317	eP	20 28 19.5	−0.6
CD2	57.6	311	eP	20 28 34.3	−0.7
BTO	58.7	324	eP	20 28 44.0	1.0
LZH	60.1	316	eP	20 28 51.0	−1.7
GTA	64.5	317	P	20 29 21.5	−0.7
LSA	67.1	305	P	20 29 42.0	3.2
WMQ	74.6	318	eP	20 30 23.5	−0.5

1987 2 2
O = 22 17 15.2 ± 0.11s
LAT = 35.03 N ± 1.48km
LONG = 75.60 E ± 1.30km
DEPTH = 81 km ± 0.46km
STATIONS USED = 17, STAND DEV = 2.26s
Ms = 3.9 / 1,

KSH	4.4	4	eP	22 18 26.0	4.2		
			LN	Ms = 3.9		5.0	1.10
WMQ	12.8	43	P	22 20 15.0	−0.9		
			S	22 22 34.0	−2.6		
			LE			2.0	0.040
GTA	19.8	70	P	22 21 42.1	0.6		

1987 2 3
O = 00 22 13.0 ± 0.46s
LAT = 12.98 N ± 4.10km
LONG = 88.37 W ± 2.71km
DEPTH = 56 km ± 4.38km
STATIONS USED = 42, STAND DEV = 2.83s

BJI	122.5	338	cPKP	00 41 04.0	0.9
HHC	123.4	342	cPKP	00 41 06.0	1.1
WMQ	123.4	3	PKP	00 41 05.0	0.1
KSH	125.8	15	PKP	00 41 12.5	2.9
TIY	125.9	340	cPKP	00 41 11.0	1.2
GTA	127.3	352	+PKP	00 41 13.2	0.6
NJ2	128.2	330	−PKP	00 41 15.5	1.4
XAN	130.4	341	PKP	00 41 20.3	1.9

WHN	131.5	334	ePKP	00 41 22.0	1.6
CD2	134.8	345	PKP	00 41 29.2	2.5
LSA	137.6	1	ePKP	00 41 30.2	−2.0
GYA	138.2	340	PKP	00 41 34.0	1.1

1987 2 3
O = 06 29 09.1 ± 0.10s
LAT = 6.84 S ± 1.54km
LONG = 124.82 E ± 2.93km
DEPTH = 562 km ± 0.62km
STATIONS USED = 44, STAND DEV = 1.68s

GYA	37.5	333	P	06 35 38.4	1.0
WHN	38.5	345	eP	06 35 46.8	1.4
NJ2	39.1	352	+P	06 35 50.8	0.7
CD2	42.6	333	eP	06 36 18.7	0.3
XAN	43.4	341	−iP	06 36 23.7	−0.5
TIY	45.8	346	P	06 36 42.8	−0.4
BJI	47.3	351	eP	06 36 54.0	−0.6
SNY	48.4	359	+iP	06 37 02.6	−0.5
CN2	50.4	1	+P	06 37 17.0	−0.6
MDJ	51.4	4	eP	06 37 25.0	0.1
GTA	51.5	335	−iP	06 37 26.0	0.2
WMQ	60.6	330	eP	06 38 27.5	−0.5

1987 2 3
O = 06 44 39.0 ± 0.09s
LAT = 46.65 N ± 3.00km
LONG = 153.38 E ± 1.98km
DEPTH = 32 km ± 0.58km
STATIONS USED = 62, STAND DEV = 1.32s

MDJ	16.7	272	eP	06 48 33.0	0.1		
CN2	19.8	272	eP	06 49 07.0	−3.1		
SNY	21.8	268	+iP	06 49 31.0	0.5		
BJI	27.7	270	eP	06 50 26.0	−0.3		
HHC	30.5	274	−P	06 50 52.0	0.3		
TIY	31.3	268	−iP	06 51 00.0	0.9		
WHN	34.1	256	eP	06 51 22.5	−0.5		
XAN	35.7	265	+P	06 51 36.0	−0.8		
LZH	38.1	272	+P	06 51 58.0	1.0		
GTA	39.2	279	+P	06 52 06.4	0.4		
			PcP	06 54 15.7	0.7		
CD2	41.1	265	P	06 52 21.7	0.1		
GYA	41.9	258	+P	06 52 28.0	−0.4		
WMQ	45.1	291	P	06 52 54.1	−0.7		
LSA	50.5	273	+P	06 53 36.8	0.0		

1987 2 3
O = 10 14 25.7 ± 0.16s
LAT = 17.26 S ± 2.54km
LONG = 89.90 E ± 3.06km
DEPTH = 10 km ± 0.27km
STATIONS USED = 43, STAND DEV = 0.84s
Ms = 5.1 / 3, m_B = 5.5 / 1

KMI	43.9	17	+P	10 22 38.0	2.6		
GYA	46.4	21	+P	10 22 56.0	1.0		
LSA	46.7	1	P	10 22 57.4	−0.2		
CD2	49.7	16	P	10 23 20.2	−0.4		
WHN	53.0	27	P	10 23 46.5	0.8		
XAN	54.1	20	+iP	10 23 53.0	−0.9		
NJ2	56.3	30	+P	10 24 10.0	0.1		
GTA	57.1	9	+iP	10 24 15.0	−0.7		
KSH	57.9	347	eP	10 24 22.0	0.9		
TIY	58.6	21	eP	10 24 26.0	−0.2		
			LN	Ms = 5.0		9.0	0.34
BTO	60.5	18	eP	10 24 38.8	−0.4		
WMQ	60.8	358	P	10 24 41.0	−0.1		
HHC	61.2	19	eP	10 24 43.8	−0.1		
BJI	62.0	23	eP	10 24 49.0	−0.4		

1987 2 3
O = 16 42 41.1 ± 0.11s
LAT = 37.64 S ± 1.83km
LONG = 73.18 W ± 2.59km
DEPTH = 33 km ± 0.72km
STATIONS USED = 58, STAND DEV = 1.08s
Ms = 5.7 / 6, m_B = 5.9 / 1

KSH	155.9	76	PKP	17 02 34.0	1.2		
			pPKP	17 02 44.0	1.8		
MDJ	161.5	299	ePKP	17 02 38.0	−1.3		
WMQ	164.3	61	PKP	17 02 42.4	0.2		
			pPKP	17 02 53.0	1.3		
			PKP_2	17 03 37.0			
			PP	17 07 21.2	−3.3		
			LE	Ms = 5.7		32.0	1.66
LSA	164.8	117	+iPKP	17 02 42.4	−0.7		
KMI	167.0	163	+PKP	17 02 45.5	0.8		
			pPKP	17 02 56.6	2.6		
GYA	168.9	179	PKP	17 02 46.2	0.5		
			pPKP	17 02 56.4	1.3		
			PKP_2	17 03 56.0			
			PP	17 07 53.0	5.7		
TIA	171.6	263	−PKP	17 02 47.4	0.1		
BJI	172.3	291	ePKP	17 02 47.0	−0.6		
			pPKP	17 02 57.0	−0.1		
			ePP	17 08 09.0	4.3		
			LN	Ms = 5.7		18.0	0.90
			LE			20.0	1.02
CD2	172.8	158	PKP	17 02 48.4	0.5		
GTA	174.2	70	+iPKP	17 02 48.4	−0.1		
			pPKP	17 02 59.3	1.4		

			PKP_2	17 04 21.0			
			PP	17 08 12.7	−1.5		
			SKKS	17 14 55.0			
			LE	Ms = 5.7		20.0	1.62
HHC	175.1	312	cPKP	17 02 49.2	0.5		
			PP	17 08 22.0	3.3		
			LN	Ms = 5.7		24.0	1.24
			LE			24.0	1.38
TIY	175.5	273	PKP	17 02 48.7	−0.1		
			PKP_2	17 04 33.0			
			PP	17 08 27.0	6.1		
			PPMZ	m_B = 5.9		7.0	0.90
			eSS	17 29 39.0	−1.0		
			LE	Ms = 5.7		20.0	1.94
XAN	176.0	206	ePKP	17 02 48.8	−0.1		
			pPKP	17 02 59.5	1.1		
			PKP_2	17 04 28.0			
BTO	176.1	321	ePKP	17 02 48.5	−0.5		
LZH	177.2	122	+PKP	17 02 49.0	−0.3		

1987 2 3
O = 19 21 11.5 ± 0.21s
LAT = 41.67 N ± 2.53km
LONG = 79.72 E ± 2.12km
DEPTH = 22 km ± 0.36km
STATIONS USED = 8, STAND DEV = 3.30s
Ms = 3.8 / 1, M_L = 3.5 / 5,

KSH	3.6	233	cPn	19 22 06.0	−0.8		
			Sn	19 22 50.0	−0.4		
			LE	Ms = 3.8		6.0	1.40
WMQ	6.3	67	Pn	19 22 45.5	2.4		
			Sn	19 23 58.2	2.3		
			Sg	19 24 26.0	−1.5		
			SMN	M_L = 3.6		0.8	0.040
GTA	15.4	92	eP	19 24 48.5	−1.6		

1987 2 3
O = 20 12 00.8 ± 0.22s
LAT = 41.56 N ± 2.32km
LONG = 79.79 E ± 1.98km
DEPTH = 25 km
STATIONS USED = 12, STAND DEV = 2.61s
Ms = 4.3 / 2, M_L = 4.0 / 4,

KSH	3.6	235	Pn	20 12 54.0	−1.6		
			Sn	20 13 40.0	1.2		
			LE	Ms = 4.2		6.0	3.30
WMQ	6.3	66	cPn	20 13 35.8	3.6		
			Sn	20 14 49.7	4.8		
			Sg	20 15 22.4	5.5		
			SMN	M_L = 4.0		1.0	0.090
LSA	15.0	139	eP	20 15 35.2		i 4	
GTA	15.4	91	eP	20 15 36.5	−2.0		
			SMN			1.1	0.010
			SME			1.2	0.010

1987 2 3
O = 22 52 04.7 ± 0.07s
LAT = 5.32 S ± 1.11km
LONG = 152.20 E ± 0.97km
DEPTH = 34 km ± 0.21km
STATIONS USED = 20, STAND DEV = 1.03s

XAN	56.6	317	eP	23 01 46.0	−1.1
CD2	58.6	311	eP	23 02 00.4	−1.0
GTA	65.6	318	+P	23 02 48.1	−0.3
WMQ	75.7	318	P	23 03 49.5	0.2
KSH	82.8	311	eP	23 04 30.0	2.2

1987 2 4
O = 01 42 36.4 ± 0.44s
LAT = 9.07 N ± 5.09km
LONG = 125.92 E ± 2.27km
DEPTH = 140 km
STATIONS USED = 12, STAND DEV = 0.99s

QZN	18.5	304	eP	01 46 45.1	1.1		
SSE	22.4	349	+P	01 47 24.1	0.5		
			PMZ			1.0	0.060
			epP	01 47 52.5	1.6		
NJ2	23.8	345	+P	01 47 38.1	0.6		
XAN	29.4	330	eP	01 48 26.6	−2.1		
BJI	32.0	346	eP	01 48 52.0	−0.2		
			epP	01 49 22.0	0.2		
GTA	38.2	327	eP	01 49 45.0	0.5		

1987 2 4
O = 02 22 32.7 ± 0.23s
LAT = 20.27 N ± 7.53km
LONG = 156.58 W ± 2.73km
DEPTH = 2 km ± 0.48km
STATIONS USED = 56, STAND DEV = 2.08s
Ms = 5.5 / 3,

MDJ	64.7	311	eP	02 33 15.5	0.6
CN2	67.7	310	eP	02 33 33.0	−1.4
			pP	02 33 42.0	3.3
			eS	02 42 28.0	−3.8
SNY	69.4	308	eP	02 33 44.4	−0.2
SSE	73.4	298	eP	02 34 06.3	−2.5
			eS	02 43 32.0	−6.0
			esS	02 43 44.0	−1.0
			ScS	02 44 10.0	−4.1
			eSS	02 48 22.0	1.0

			LE	Ms=5.5		24.0	1.81
BJI	75.2	308	eP	02 34 19.0	−0.3		
TIA	75.4	303	eP	02 34 20.0	−0.6		
HHC	78.4	309	−P	02 34 37.4	0.1		
TIY	78.6	306	eP	02 34 39.0	0.3		
WHN	79.2	299	eP	02 34 42.0	0.4		
BTO	79.6	309	eP	02 34 43.0	−0.8		
XAN	82.5	303	eP	02 34 57.5	−1.6		
LZH	85.7	307	eP	02 35 14.5	−0.8		
GYA	86.9	297	P	02 35 21.4	−0.1		
GTA	87.3	311	P	02 35 23.5	0.1		
CD2	87.7	302	eP	02 35 29.4	4.4		
KMI	90.7	297	+P	02 35 41.0	1.5		

1987 2 4

O=03 29 13.3 ± 0.18s
LAT=41.69 N ± 1.90km
LONG= 79.52 E ± 1.60km
DEPTH= 23 km ± 0.31km
STATIONS USED = 10, STAND DEV= 3.55s
Ms=3.9/ 1, M_L=3.8/ 6,

KSH	3.5	231	ePn	03 30 06.7	−0.3		
			Sn	03 30 50.0	0.6		
			LE	Ms=3.9		7.0	2.30
WMQ	6.4	68	Pn	03 30 50.9	4.2		
			Sn	03 32 00.8	−0.1		
			SMN	M_L=3.9		1.2	0.080
			SME			0.8	0.050
GTA	15.6	92	eP	03 32 52.6	−1.2		

1987 2 4

O=04 41 13.7 ± 0.25s
LAT=15.05 S ± 2.38km
LONG=173.07 W ± 1.39km
DEPTH= 40 km ± 1.17km
STATIONS USED = 20, STAND DEV= 1.66s
Ms=5.6/ 2,

CN2	81.0	320	eP	04 53 25.5	−1.4		
TIA	83.2	310	eP	04 53 40.2	2.0		
BJI	85.5	313	eP	04 53 48.0	−1.4		
			eS	05 04 14.0	−2.6		
TIY	87.3	310	−P	04 53 58.5	0.2		
			LN	Ms=5.6		11.0	0.63
			LE			12.0	0.48
XAN	88.7	306	eP	04 54 07.0	1.9		
BTO	90.0	312	eP	04 54 12.0	0.4		
			LN	Ms=5.7		11.0	0.40
			LE			11.0	1.00

1987 2 4

O=06 12 34.3 ± 0.30s
LAT= 5.32 S ± 3.29km
LONG=152.15 E ± 3.20km
DEPTH= 30 km ± 0.85km
STATIONS USED = 43, STAND DEV= 1.69s

WHN	50.8	317	eP	06 21 35.5	1.3
GYA	54.2	308	P	06 22 00.6	0.7
BJI	56.0	327	eP	06 22 12.0	−0.6
TIY	56.5	323	+P	06 22 17.0	0.2
XAN	56.6	317	P	06 22 16.0	−0.9
CD2	58.6	311	eP	06 22 31.0	−0.2
HHC	59.1	325	−P	06 22 35.2	0.4
BTO	59.8	324	eP	06 22 39.0	−0.9
LZH	61.2	316	eP	06 22 48.5	−0.5
GTA	65.6	318	P	06 23 18.0	−0.2
LSA	68.0	305	P	06 23 32.8	−0.9
WMQ	75.7	318	P	06 24 19.7	0.5
KSH	82.8	311	eP	06 25 00.5	2.8

1987 2 4

O=07 08 04.0 ± 0.04s
LAT=34.34 N ± 0.35km
LONG=103.46 E ± 0.33km
DEPTH= 16 km ± 0.14km
STATIONS USED = 6, STAND DEV= 1.30s
M_L=3.0/ 5,

LZH	1.8	10	ePg	07 08 36.0	0.4		
			Sg	07 09 00.0	0.3		
			SMN	M_L=3.0		1.0	0.090
			SME			1.0	0.19
CD2	3.4	176	ePg	07 09 05.0	0.3		
XAN	4.5	92	ePn	07 09 12.6	0.0		
			Pg	07 09 25.2	1.1		
			Sn	07 10 06.0	−1.0		
			Sg	07 10 26.0	−0.1		
			SMN	M_L=3.8		1.0	0.030
			SME			1.0	0.27

1987 2 4

O=10 22 52.7 ± 0.18s
LAT=19.36 N ± 2.44km
LONG=120.86 E ± 2.32km
DEPTH= 31 km ± 1.17km
STATIONS USED = 61, STAND DEV= 2.69s
Ms=4.2/ 7, M_L=3.9/ 7,

QZH	5.9	340	ePn	10 24 17.8	−1.3		
			Sn	10 25 24.5	−3.5		
			SMN	M_L=3.9		0.7	0.070
			SME			0.8	0.10
			LN	Ms=3.7		16.0	1.42

GZH	7.9	299	+P	10 24 46.0	−2.8		
			S	10 26 14.0	−4.3		
			LE	Ms=4.0		12.0	1.18
QZN	10.4	270	+P	10 25 20.6	−2.6		
			S	10 27 14.1	−5.7		
			LE	Ms=4.2		16.0	1.60
WHN	12.6	333	eP	10 25 50.0	−2.8		
			LN	Ms=4.0		14.0	0.61
GYA	14.9	301	P	10 26 23.0	0.2		
KMI	17.7	292	eP	10 27 02.0	2.7		
			eS	10 30 16.0	2.2		
			LE	Ms=4.4		14.0	1.00
XAN	18.1	326	eP	10 27 03.6	0.1		
CD2	19.3	310	P	10 27 18.4	0.6		
TIY	19.7	340	+P	10 27 23.6	0.8		
			LN	Ms=4.6		16.0	1.30
BJI	21.0	350	eP	10 27 37.0	0.7		
LZH	22.4	322	eP	10 27 51.5	1.0		
SNY	22.5	5	eP	10 27 50.4	−1.0		
HHC	22.9	342	eP	10 27 56.2	1.4		
BTO	23.1	339	eP	10 27 57.8	0.3		
LSA	28.9	297	eP	10 28 51.4	0.0		

1987 2 4

O=12 15 17.3 ± 0.11s

LAT=24.41 N ± 1.65km

LONG=122.01 E ± 1.57km

DEPTH= 21 km ± 0.53km

STATIONS USED = 92, STAND DEV= 1.93s

Ms=4.6/ 23, M_L=4.4/ 2, m_B=4.8/ 3

QZH	3.2	280	−iPn	12 16 08.3	2.0		
			Sn	12 16 40.0	−5.2		
			SMN	M_L=4.6		0.3	2.49
			SME			0.3	1.86
			LE	Ms=4.1		8.0	4.93
SSE	6.7	354	−P	12 16 58.0	0.8		
			pP	12 17 01.5	−1.5		
			LN	Ms=4.8		6.0	2.12
			LE			6.0	4.46
GZH	8.0	262	−P	12 17 16.6	0.5		
			LN	Ms=4.9		6.0	4.49
			LE			6.0	1.25
NJ2	8.1	341	+P	12 17 16.4	−0.4		
			pP	12 17 21.6	−1.2		
			iS	12 18 41.9	−6.7		
			LE	Ms=5.1		5.0	6.00
WHN	9.1	314	P	12 17 29.5	−1.7		
			pP	12 17 33.5	−3.8		
			sP	12 17 36.5	−4.3		
			SME			1.0	0.70
TIA	12.5	341	eP	12 18 16.2	−0.9		
			LE	Ms=4.6		7.0	1.47
QZN	12.5	247	eP	12 18 20.9	3.6		
			eS	12 20 41.0	3.8		
			LN	Ms=4.4		8.0	0.90
GYA	14.0	282	P	12 18 37.4	0.0		
			pP	12 18 44.8	1.8		
			S	12 21 07.4	−5.4		
			LN	Ms=5.1		6.0	2.50
			LE			6.0	1.00
XAN	14.9	313	+P	12 18 48.5	−0.5		
			pP	12 18 55.2	0.5		
			LN	Ms=4.8		6.0	1.05
			LE			6.0	0.74
TIY	15.6	331	−iP	12 18 59.4	1.7		
			S	12 21 51.0	1.4		
			LN	Ms=4.5		8.5	0.62
			LE			8.0	0.49
BJI	16.3	344	eP	12 19 09.5	2.1		
			S	12 22 10.0	2.7		
			SMN	m_B=4.9		5.0	0.22
			SME			6.0	0.35
CD2	17.4	296	eP	12 19 20.0	−0.9		
			PMZ			1.0	0.30
			pP	12 19 23.5	−3.3		
			LN	Ms=5.0		5.0	1.39
SNY	17.4	4	+P	12 19 25.2	4.2		
			S	12 22 39.0	6.9		
			LE	Ms=4.3		20.0	1.08
HHC	18.6	334	−P	12 19 37.0	1.5		
BTO	19.0	331	eP	12 19 37.0	−3.9		
			LN	Ms=4.6		8.0	0.50
			LE			8.0	0.60
LZH	19.5	311	eP	12 19 45.5	−0.9		
			PMZ			1.5	0.19
			pP	12 19 49.0	−3.4		
			S	12 23 17.0	−2.0		
			LN	Ms=4.7		5.0	0.60
CN2	19.5	7	eP	12 19 46.3	−0.4		
			pP	12 19 50.0	−3.0		
			LE	Ms=4.1		20.0	0.60
MDJ	21.1	15	eP	12 20 03.3	0.3		
GTA	24.0	314	−iP	12 20 31.1	−0.6		
			PcP	12 24 12.8	−1.8		
			S	12 24 49.0	5.5		
			SME	m_B=4.8		10.5	0.30
			LE	Ms=4.3		10.5	0.33
LSA	27.9	288	P	12 21 07.6	−1.6		
WMQ	34.0	313	P	12 22 01.8	−0.8		
KSH	41.4	303	eP	12 23 04.0	−0.5		

			eS	12 29 16.0	−2.5		

1987 2 4
O = 18 53 33.1 ± 0.05s
LAT = 24.18 N ± 0.44km
LONG = 102.69 E ± 0.74km
DEPTH = 14 km ± 0.89km
STATIONS USED = 5, STAND DEV = 3.98s
M_L = 3.2 / 2,

KMI	0.9	3	−Pg	18 53 49.5	−0.6		
			Sg	18 53 56.0	−6.7		
GYA	4.2	57	Pn	18 54 38.4	0.5		
			Pg	18 54 51.6	3.5		
			Sg	18 55 46.0	−0.2		
			SMN	M_L = 3.3		1.0	0.060
			SME			1.0	0.050
CD2	6.8	8	ePn	18 55 13.2	0.7		
			SME	M_L = 3.1		0.7	0.010

1987 2 4
O = 20 14 18.5 ± 0.16s
LAT = 22.44 S ± 4.08km
LONG = 173.32 E ± 3.60km
DEPTH = 34 km ± 1.28km
STATIONS USED = 27, STAND DEV = 2.98s
Ms = 4.9 / 1,

MDJ	77.8	330	eP	20 26 13.5	−1.2		
			pP	20 26 19.5	−5.0		
CN2	79.2	327	eP	20 26 20.0	−2.5		
BJI	81.8	319	eP	20 26 34.0	−2.5		
			eS	20 36 48.0	1.4		
			LN	Ms = 4.9		32.0	0.60
XAN	83.1	311	eP	20 26 42.4	−0.6		
GTA	92.1	312	eP	20 27 25.0	−1.7		

1987 2 4
O = 20 47 28.2 ± 0.01s
LAT = 39.60 N ± 0.11km
LONG = 114.43 E ± 0.12km
DEPTH = 9 km ± 0.00km
STATIONS USED = 5, STAND DEV = 0.72s
M_L = 2.7 / 4,

BJI	1.4	71	Pg	20 47 53.0	−0.3		
			Sg	20 48 14.5	1.9		
			SMN	M_L = 2.3		0.5	0.050
			SME			0.5	0.030
TIY	2.4	220	+iPg	20 48 11.0	−0.6		
			Sg	20 48 42.6	−2.3		
			SMN	M_L = 2.7		0.6	0.030
			SME			0.5	0.060
BTO	3.5	288	ePg	20 48 30.6	−0.2		
			Sg	20 49 14.2	−4.6		

1987 2 5
O = 02 38 59.8 ± 0.23s
LAT = 48.59 N ± 2.36km
LONG = 85.88 E ± 0.73km
DEPTH = 13 km
STATIONS USED = 5, STAND DEV = 4.37s
M_L = 3.7 / 4,

WMQ	4.9	165	Pn	02 40 16.8	2.4		
			Sn	02 41 16.8	3.3		
			Sg	02 41 38.6	3.9		
			SMN	M_L = 3.6		1.0	0.060
			SME			1.0	0.080

1987 2 5
O = 11 04 28.2 ± 0.20s
LAT = 22.91 N ± 1.52km
LONG = 121.15 E ± 1.96km
DEPTH = 32 km ± 0.09km
STATIONS USED = 28, STAND DEV = 1.88s
Ms = 4.1 / 3, M_L = 3.9 / 10,

QZH	3.1	311	ePn	11 05 15.4	0.2		
			Sn	11 05 53.1	0.6		
			SMN	M_L = 3.9		0.9	0.36
			SME			0.9	0.45
GZH	7.2	273	eP	11 06 14.6	0.8		
SSE	8.1	0	eP	11 06 26.5	−0.6		
			LN	Ms = 4.1		7.0	0.77
WHN	9.7	323	eP	11 06 43.5	−5.5		
			LN	Ms = 3.7		9.0	0.34
GYA	13.6	288	P	11 07 42.8	0.9		
			S	11 10 12.0	−0.7		
XAN	15.4	319	eP	11 08 07.0	1.7		
CD2	17.4	301	eP	11 08 31.9	1.3		
BJI	17.6	347	eP	11 08 33.0	0.4		
BTO	20.0	335	eP	11 09 02.8	1.8		
			eS	11 12 40.0	0.7		
			LN	Ms = 4.5		12.0	0.70
			LE			12.0	0.40
GTA	24.5	317	eP	11 09 46.0	0.1		

1987 2 5
O = 14 43 29.5 ± 0.12s
LAT = 4.73 S ± 1.64km
LONG = 103.12 E ± 1.86km
DEPTH = 66 km ± 0.20km
STATIONS USED = 37, STAND DEV = 1.01s

CD2	35.4	1	−iP	14 50 21.5	−0.3

LSA	36.1	342	−P	14 50 27.2	−0.6		
XAN	38.9	8	−iP	14 50 51.4	0.3		
TIY	43.1	11	eP	14 51 26.4	1.0		
GTA	44.0	356	P	14 51 32.8	−0.2		
			PcP	14 53 17.6	0.4		
BJI	46.1	14	eP	14 51 50.0	0.3		
WMQ	50.3	346	P	14 52 21.5	−0.4		
KSH	50.6	333	P	14 52 25.0	0.7		
CN2	52.3	20	+P	14 52 35.6	−1.7		
			PcP	14 53 46.4	−0.6		
MDJ	54.6	23	eP	14 52 52.5	−1.3		

1987 2 5
O = 17 04 53.2 ± 0.13s
LAT = 4.78 S ± 1.44km
LONG = 153.63 E ± 1.16km
DEPTH = 107 km ± 1.51km
STATIONS USED = 46, STAND DEV = 1.51s

GYA	55.0	307	P	17 14 17.4	0.7		
XAN	57.2	316	eP	17 14 31.3	−0.6		
CD2	59.4	310	eP	17 14 47.2	0.2		
			PMZ			0.6	0.020
BTO	60.3	323	eP	17 14 50.5	−2.9		
LZH	61.8	315	+P	17 15 04.0	0.3		
GTA	66.2	317	+iP	17 15 32.8	0.3		
LSA	68.9	304	P	17 15 49.4	−0.3		
WMQ	76.3	317	+P	17 16 33.0	0.3		
			pP	17 17 01.0	1.7		
KSH	83.5	310	eP	17 17 14.0	2.5		
			pP	17 17 40.0	1.6		
			eS	17 27 24.0	0.3		

1987 2 6
O = 01 56 23.5 ± 0.09s
LAT = 9.65 S ± 1.11km
LONG = 112.73 E ± 1.70km
DEPTH = 35 km ± 0.23km
STATIONS USED = 15, STAND DEV = 1.54s

CD2	41.2	348	eP	02 04 08.0	0.7		
XAN	43.6	355	eP	02 04 24.5	−2.2		
LSA	44.3	333	P	02 04 33.2	0.5		
BJI	49.5	3	eP	02 05 13.0	−0.4		

1987 2 6
O = 06 22 21.4 ± 0.08s
LAT = 11.67 N ± 1.57km
LONG = 143.28 E ± 1.24km
DEPTH = 30 km ± 0.20km
STATIONS USED = 32, STAND DEV = 1.10s

SSE	28.1	317	eP	06 28 14.0	0.8		
			eSS	06 34 20.0	2.3		
BJI	37.0	325	eP	06 29 30.0	−0.7		
GYA	37.4	298	P	06 29 35.8	1.5		
TIY	37.9	319	eP	06 29 38.0	0.2		
XAN	38.4	311	eP	06 29 41.0	−1.4		
CD2	41.2	304	P	06 30 06.0	0.4		
GTA	47.3	314	eP	06 30 54.6	−0.2		
LSA	51.5	299	P	06 31 27.2	−0.2		
WMQ	57.3	315	+P	06 32 09.2	−0.5		

1987 2 6
O = 10 27 38.8 ± 0.10s
LAT = 34.13 N ± 2.13km
LONG = 141.14 E ± 2.32km
DEPTH = 69 km ± 1.22km
STATIONS USED = 30, STAND DEV = 2.11s

MDJ	13.7	323	eP	10 30 57.0	4.8		
NJ2	18.8	270	eP	10 31 55.5	0.2		
BJI	20.7	294	eP	10 32 18.0	1.8		
WHN	22.9	268	eP	10 32 37.5	−0.1		
TIY	23.5	287	+P	10 32 46.6	3.2		
XAN	26.6	279	eP	10 33 12.4	−0.8		
GYA	30.6	265	P	10 33 48.0	−1.2		
CD2	31.6	275	P	10 33 56.2	−1.2		
			PMZ			0.6	0.020
GTA	33.3	291	−P	10 34 12.4	−0.2		
WMQ	42.0	300	+P	10 35 27.5	2.0		

1987 2 6
O = 10 48 10.2 ± 0.15s
LAT = 41.96 N ± 0.44km
LONG = 84.20 E ± 0.77km
DEPTH = 17 km ± 1.62km
STATIONS USED = 5, STAND DEV = 4.58s
M_L = 3.0 / 5,

WMQ	3.2	53	Pn	10 49 00.9	0.8		
			Sn	10 49 40.2	0.8		
			Sg	10 49 47.9	−2.0		
			SME	M_L = 3.0		0.8	0.050

1987 2 6
O = 12 02 16.5 ± 0.24s
LAT = 44.94 N ± 2.14km
LONG = 81.78 E ± 1.82km
DEPTH = 13 km ± 0.79km
STATIONS USED = 6, STAND DEV = 4.91s
M_L = 3.8 / 5,

WMQ	4.4	103	ePn	12 03 24.9	1.4		
			Pg	12 03 33.8	−0.3		
			Sn	12 04 15.5	−1.0		

			Sg	12 04 37.2	3.0		
			SME	M_L = 3.8	1.0	0.15	

1987 2 6
O = 12 23 45.8 ± 0.08s
LAT = 37.01 N ± 1.62km
LONG = 141.63 E ± 1.54km
DEPTH = 28 km ± 0.76km
STATIONS USED = 113, STAND DEV = 1.55s
Ms = 6.4 / 40, m_B = 6.4 / 38

MDJ	11.9	314	+P	12 26 38.0	1.6		
			PMZ	m_B = 6.3	8.0	4.90	
			pP	12 26 45.0	2.2		
			sP	12 26 50.0	2.8		
			iS	12 28 53.0	4.0		
			sS	12 29 03.0	3.4		
			SS	12 29 06.0	3.1		
			ScP	12 35 52.0	0.4		
			ScS	12 39 28.0	1.9		
CN2	14.1	304	+iP	12 27 06.8	1.2		
			PMZ	m_B = 7.0	5.0	14.6	
			sP	12 27 18.0	1.4		
			eS	12 29 43.0	1.1		
			SMN	m_B = 6.4	10.0	23.0	
SNY	14.8	295	+iP	12 27 16.5	1.8		
			PMZ.		18.0	30.8	
			PP	12 27 29.0	2.6		
			SMN	m_B = 6.2	8.0	11.4	
			SME		7.0	4.82	
			LE	Ms = 6.4	20.0	164	
DL2	15.9	283	+iP	12 27 32.0	2.6		
			PMZ	m_B = 6.3	7.0	10.7	
			iS	12 30 28.0	3.1		
			LN	Ms = 6.4	14.0	44.8	
			LE		18.0	128	
SSE	17.9	257	+iP	12 27 54.0	−1.0		
			PMZ	m_B = 6.0	8.0	6.42	
			epP	12 28 03.0	1.1		
			sP	12 28 06.0	−0.2		
			S	12 31 16.0	5.1		
			sS	12 31 24.0	1.5		
			SS	12 31 35.0	1.3		
			ScS	12 39 38.0	−3.6		
			LN	Ms = 6.1	13.0	19.5	
			LE		13.0	43.3	
NJ2	19.4	262	+iP	12 28 12.0	−0.6		
			sP	12 28 25.0	1.1		
			S	12 31 46.0	2.2		
			LE	Ms = 6.4	16.0	85.9	
TIA	19.7	275	eP	12 28 14.0	−1.9		
			PP	12 28 31.0	−2.8		
			eS	12 31 50.0	−1.2		
			LN	Ms = 6.4	14.0	36.8	
			LE		14.5	71.4	
BJI	20.1	286	+P	12 28 18.0	−2.7		
			ePP	12 28 35.0	−5.0		
			eS	12 31 57.0	−3.6		
			SMN	m_B = 6.2	10.0	3.89	
			SME		11.0	8.93	
			LN	Ms = 6.2	13.0	41.9	
QZH	23.1	245	+P	12 28 49.0	−1.3		
			iS	12 32 52.0	−3.4		
			SMN	m_B = 6.2	5.0	1.99	
			SME		6.0	4.33	
			sS	12 33 04.0	−4.6		
			LN	Ms = 6.2	14.0	30.9	
			LE		13.0	17.8	
TIY	23.2	281	+iP	12 28 51.0	−0.6		
			PMZ		1.2	0.66	
			PP	12 29 26.0	4.3		
			S	12 32 57.0	0.1		
			SME	m_B = 6.5	8.0	12.4	
			LE	Ms = 6.3	14.5	44.4	
WHN	23.5	262	+P	12 28 54.0	−0.9		
			PMZ	m_B = 6.4	7.0	10.0	
			sP	12 29 08.0	1.4		
			S	12 33 04.0	1.0		
			SME		14.0	10.2	
			LN	Ms = 6.6	15.0	85.7	
			LE		16.0	59.4	
HHC	23.6	289	+P	12 28 55.0	−1.2		
			S	12 33 02.0	−3.0		
			SME	m_B = 6.5	8.0	13.5	
			LN	Ms = 6.3	12.0	44.0	
BTO	24.8	288	+iP	12 29 06.0	−1.6		
			sP	12 29 20.0	0.8		
			PP	12 29 45.0	1.1		
			S	12 33 22.0	−3.2		
			sS	12 33 35.0	−4.2		
			SS	12 34 18.5	−4.6		
			LN	Ms = 6.2	13.0	13.2	
			LE		13.0	31.3	
XAN	26.7	273	+P	12 29 24.0	−1.2		
			PMZ	m_B = 6.5	7.5	7.69	
			pP	12 29 35.0	1.7		
			PP	12 30 09.5	0.1		
			S	12 33 58.0	1.5		
			SMN	m_B = 6.5	10.0	4.50	
			SME		12.0	14.9	
			LN	Ms = 6.4	13.0	8.10	

			LE			14.0	41.2
GZH	28.0	248	+P	12 29 39.0	2.0		
			PMZ	m_B=6.4		6.0	5.25
			pP	12 29 49.0	3.9		
			PP	12 30 32.0	5.5		
			S	12 34 17.2	−0.3		
			SMN	m_B=6.3		9.0	3.99
			SME			10.0	6.76
			LN	Ms=6.3		12.0	9.80
			LE			13.0	31.0
LZH	30.2	280	P	12 29 56.5	−0.6		
			PMZ			1.5	0.85
			pP	12 30 07.5	2.3		
			sP	12 30 11.0	2.2		
			PP	12 30 51.0	−4.5		
			S	12 34 53.0	0.0		
			sS	12 35 07.0	−0.5		
			SS	12 36 35.0	2.8		
			LN	Ms=6.7		15.0	27.5
			LE			14.0	73.9
GYA	31.4	261	P	12 30 05.6	−1.6		
			PMZ	m_B=6.6		4.0	3.80
			pP	12 30 17.0	1.8		
			S	12 35 10.0	−0.9		
			SMN	m_B=6.3		7.0	3.70
			SME			7.0	3.20
			sS	12 35 28.0	2.4		
			LN	Ms=6.5		15.0	23.0
			LE			15.0	41.7
CD2	31.8	270	eP	12 30 09.2	−2.0		
			PP	12 31 20.0	3.7		
			S	12 35 20.0	1.9		
			sS	12 35 28.5	−4.3		
			LE	Ms=6.7		18.0	82.8
GTA	32.7	287	+iP	12 30 19.0	0.0		
			PMZ	m_B=6.2		8.0	3.41
			PP	12 31 24.0	−4.0		
			S	12 35 29.0	−3.0		
			SME			28.0	24.8
			LN	Ms=6.5		15.0	29.3
			LE			17.0	35.4
QZN	33.1	246	P	12 30 23.5	1.7		
			PMZ	m_B=6.0		9.0	2.40
			S	12 35 42.0	4.7		
			SMN	m_B=6.2		8.0	1.50
			SME			10.0	3.90
			sS	12 35 58.0	6.1		
			LN	Ms=6.2		16.0	18.6
			LE			16.0	19.3
KMI	35.1	262	+iP	12 30 40.5	0.8		
			PMZ	m_B=6.4		6.0	3.70
			pP	12 30 51.0	3.2		
			sP	12 30 54.0	2.6		
			PP	12 31 58.0	−0.1		
			S	12 36 09.0	−0.1		
			SMN	m_B=6.1		8.0	2.90
			sS	12 36 26.0	2.2		
			SS	12 38 28.0	2.2		
			LN	Ms=6.6		16.0	25.8
			LE			18.0	52.9
WMQ	41.0	297	+iP	12 31 30.0	1.3		
			PMZ	m_B=6.9		5.0	9.03
			sP	12 31 44.0	3.3		
			PP	12 33 12.0	5.6		
			PcP	12 33 23.0	−5.4		
			ScP	12 37 08.0	−6.7		
			PcS	12 37 18.0	−0.1		
			S	12 37 43.0	4.7		
			SME	m_B=5.7		10.0	1.34
			sS	12 37 55.0	1.9		
			LN	Ms=6.7		13.0	22.8
			LE			16.0	46.5
LSA	42.4	275	+P	12 31 40.0	−0.5		
			PMZ	m_B=6.4		6.0	3.85
			S	12 37 52.0	−6.7		
			LE	Ms=6.2		16.0	14.9
KSH	50.6	294	+iP	12 32 47.0	2.1		
			ScP	12 37 57.0	2.7		
			S	12 40 02.0	6.6		
			SME	m_B=7.1		7.0	16.3
			LE	Ms=7.0		16.0	79.2

1987 2 6

O=13 16 15.9 ± 0.10s
LAT=37.04 N ± 1.42km
LONG=141.63 E ± 1.67km
DEPTH= 42 km ± 0.95km
STATIONS USED =110, STAND DEV= 1.64s
Ms=6.8/50, m_B=6.7/29

MDJ	11.8	313	+P	13 19 06.5	1.2		
			PMZ	m_B=6.6		10.0	12.1
			pP	13 19 12.0	−1.1		
			sP	13 19 17.0	−1.9		
			SS	13 21 38.0	7.0		
			ScS	13 31 56.0	3.6		
			LN	Ms=6.9		14.0	526
CN2	14.0	304	+iP	13 19 35.0	0.5		
			sP	13 19 47.5	−0.8		
			eS	13 22 11.0	1.4		
			SMN	m_B=6.9		10.0	73.0

			sS	13 22 16.0	−6.8			
			LE	Ms=6.4		15.0	150	
SNY	14.7	294	+iP	13 19 44.8	1.2			
			PP	13 19 58.0	2.6			
			SMN	m_B=6.6		9.0	35.9	
DL2	15.9	283	+P	13 20 00.0	1.6			
			S	13 22 57.0	4.9			
			SMN			15.0	237	
			LE	Ms=6.3		18.0	128	
SSE	17.9	257	+iP	13 20 23.0	−1.0			
			PMZ	m_B=6.1		6.0	5.19	
			pP	13 20 31.0	−1.8			
			sP	13 20 36.0	−2.2			
			PP	13 20 39.0	0.5			
			S	13 23 45.0	6.1			
			sS	13 23 51.0	−2.8			
			SS	13 24 03.0	0.8			
			ePcP	13 24 55.0	−3.5			
			ScS	13 32 10.0	2.1			
			LN	Ms=6.8		19.0	110	
			LE			19.0	328	
NJ2	19.4	262	+P	13 20 40.5	−0.9			
			LE	Ms=7.3		16.0	707	
TIA	19.7	275	+P	13 20 42.8	−1.7			
			PMZ			18.0	49.6	
			eS	13 24 25.0	6.2			
			LN	Ms=6.9		14.0	109	
			LE			15.0	271	
BJI	20.1	286	+P	13 20 47.0	−2.2			
			eS	13 24 29.0	1.0			
			SME	m_B=6.6		12.0	26.1	
			LN	Ms=7.0		13.0	268	
QZH	23.1	245	+P	13 21 16.5	−2.4			
			pP	13 21 25.0	−4.3			
			iS	13 25 26.0	3.2			
			SMN	m_B=6.8		4.0	7.64	
			SME			4.0	7.85	
			sS	13 25 44.0	3.8			
			LN	Ms=6.6		14.5	99.3	
			LE			13.0	41.1	
TIY	23.2	281	+iP	13 21 19.0	−1.1			
			PMZ			1.2	1.07	
			PP	13 21 55.5	5.0			
			SME	m_B=6.9		10.0	34.2	
			LN	Ms=6.7		15.0	131	
WHN	23.5	262	+iP	13 21 23.0	−0.4			
			PMZ	m_B=6.5		8.0	17.0	
			sP	13 21 36.0	−2.6			
			iS	13 25 36.0	5.1			
			SMN	m_B=6.8		9.0	24.5	
			LN	Ms=7.0		16.0	227	
HHC	23.6	289	+P	13 21 24.0	−0.6			
			pP	13 21 30.0	−4.9			
			PP	13 22 04.0	6.9			
			LN	Ms=6.5		16.0	14.8	
			LE			17.0	96.6	
BTO	24.8	288	+P	13 21 35.0	−1.0			
			PP	13 22 14.0	1.4			
			S	13 25 57.0	4.8			
			sS	13 26 12.0	1.5			
			LN	Ms=6.6		13.0	53.4	
			LE			13.0	64.7	
XAN	26.7	273	+iP	13 21 53.5	−0.2			
			PMZ	m_B=6.9		5.0	14.1	
			sP	13 22 06.5	−2.4			
			S	13 26 27.0	3.5			
			SMN	m_B=6.5		12.0	9.40	
			SME			14.0	15.9	
			LN	Ms=6.8		13.0	26.7	
			LE			14.0	121	
GZH	28.0	248	+P	13 22 06.5	0.9			
			pP	13 22 17.0	0.8			
			iS	13 26 44.0	−1.4			
			LN	Ms=6.7		14.0	60.9	
			LE			13.0	70.9	
LZH	30.2	280	+iP	13 22 25.5	0.0			
			PMZ			1.5	1.33	
			pP	13 22 36.0	−0.1			
			SME			2.0	2.49	
			LE	Ms=6.0		15.0	16.1	
GYA	31.4	261	+P	13 22 35.0	−0.7			
			PMZ			1.4	0.90	
			pP	13 22 45.0	−1.2			
			sP	13 22 51.0	0.1			
			PP	13 23 42.0	2.8			
			S	13 27 42.0	4.1			
			SMN	m_B=6.9		7.0	11.7	
			SME			7.0	13.1	
			sS	13 27 58.0	0.8			
			SS	13 29 33.0	6.1			
			LN	Ms=7.0		18.0	141	
			LE			18.0	134	
CD2	31.9	270	+iP	13 22 39.0	−0.6			
			S	13 27 52.0	6.9			
			LN	Ms=7.0		12.0	109	
			LE			15.0	103	
GTA	32.7	287	+iP	13 22 47.1	−0.3			
			PP	13 23 58.0	1.4			
			S	13 28 04.5	5.6			
			SME	m_B=6.6		12.0	15.0	

			LN		Ms=7.0	15.0	101
			LE			16.0	130
QZN	33.1	246	+iP	13 22 52.0	1.7		
			pP	13 23 02.0	0.9		
			sP	13 23 06.0	0.3		
			S	13 28 06.0	1.6		
			SMN		m_B=6.7	9.5	5.10
			SME			16.0	24.5
			LN		Ms=6.7	14.0	48.7
			LE			13.0	47.2
KMI	35.1	261	+iP	13 23 08.0	−0.2		
			PMZ		m_B=6.5	4.0	3.60
			pP	13 23 18.0	−0.8		
			sP	13 23 22.0	−1.4		
			PP	13 24 31.0	4.3		
			S	13 28 39.0	2.9		
			SME		m_B=6.6	9.0	12.2
			LN		Ms=7.1	16.0	107
			LE			17.0	161
WMQ	41.0	297	iP	13 23 59.0	2.0		
			sP	13 24 12.0	−0.6		
			PcP	13 25 53.0	−3.3		
			iS	13 30 12.0	5.9		
LSA	42.4	275	+P	13 24 10.0	1.2		
			sP	13 24 25.0	1.0		
			PcP	13 25 56.0	−4.9		
			PcS	13 29 55.0	3.5		
			S	13 30 30.0	4.5		
			SMN		m_B=6.8	6.0	8.76
			ScS	13 34 00.0	−3.2		
			LE		Ms=7.4	10.0	146
KSH	50.6	294	+iP	13 25 16.0	2.8		
			sP	13 25 30.0	1.3		
			iS	13 32 30.0	6.5		
			LE		Ms=7.0	12.0	61.3

1987 2 6
O=14 51 34.7 ± 0.16s
LAT=29.28 N ± 1.44km
LONG=102.39 E ± 1.26km
DEPTH= 10 km
STATIONS USED = 7, STAND DEV= 4.51s
M_L=2.8/ 5,

CD2	2.0	36	Pn	14 52 11.4	2.3		
			Pg	14 52 12.8	2.6		
			Sg	14 52 39.6	1.9		
			SMN		M_L=3.1	0.6	0.13
			SME			0.5	0.15
GYA	4.7	126	cPn	14 52 50.6	4.3		

1987 2 6
O=15 31 29.5 ± 0.27s
LAT=48.76 N ± 2.62km
LONG= 89.44 E ± 0.98km
DEPTH= 15 km
STATIONS USED = 9, STAND DEV= 2.76s
M_L=3.9/ 6,

WMQ	5.1	194	Pn	15 32 47.8	1.9		
			Pg	15 33 03.2	3.8		
			Sn	15 33 44.8	−1.7		
			Sg	15 34 09.3	0.3		
			SMN		M_L=3.9	0.7	0.14
			SME			0.8	0.13
GTA	11.9	138	cP	15 34 26.3	3.5		
			SMN			1.1	0.020
			SME			1.1	0.010
GYA	26.0	143	cP	15 37 02.8	−1.3		

1987 2 6
O=17 41 20.8 ± 0.13s
LAT=24.08 N ± 1.57km
LONG=121.83 E ± 1.83km
DEPTH= 32 km ± 0.41km
STATIONS USED = 41, STAND DEV= 2.12s
Ms=4.1/ 3, M_L=4.0/ 13, m_B=4.5/ 1

QZH	3.1	287	cPn	17 42 07.8	0.3		
			SMN		M_L=3.8	0.2	0.45
			SME			0.3	0.34
			LN		Ms=4.1	4.0	2.48
SSE	7.0	356	eP	17 43 02.0	−2.0		
			SME		m_B=4.5	6.0	0.50
GZH	7.8	264	eP	17 43 13.5	−2.0		
			SMN		M_L=4.5	1.2	0.22
			SME			1.0	0.090
NJ2	8.4	342	−P	17 43 21.6	−1.2		
			eS	17 44 53.0	−4.2		
			SMN		M_L=4.4	1.0	0.080
WHN	9.3	316	P	17 43 35.5	0.4		
			S	17 45 13.0	−6.1		
			LE		Ms=3.6	8.0	0.27
QZN	12.2	248	eP	17 44 16.3	0.6		
			eS	17 46 30.0	−2.0		
GYA	13.9	283	P	17 44 40.0	1.6		
			S	17 47 08.4	−3.9		
			LN			1.6	0.10
XAN	15.0	314	eP	17 44 56.0	3.4		
CD2	17.4	297	eP	17 45 25.6	2.6		
CN2	19.9	8	eP	17 45 52.0	−0.7		
GTA	24.1	315	eP	17 46 36.6	1.9		
LSA	27.9	288	−P	17 47 10.4	−0.2		

1987 2 6
O=19 12 28.3 ± 0.16s
LAT=40.21 N ± 1.31km
LONG= 77.81 E ± 1.05km
DEPTH= 21 km ± 0.86km
STATIONS USED = 11, STAND DEV= 2.97s
M_L=4.1/ 6,

KSH	1.6	242	cPg	19 12 56.0	−1.0		
			Sg	19 13 18.0	−0.8		
			SMN	M_L=4.0		0.2	1.60
			SME			0.2	2.00
WMQ	8.2	61	eP	19 14 32.0	2.8		
			S	19 16 04.9	3.1		
			SMN	M_L=4.2		1.0	0.060
GTA	16.9	86	eP	19 16 26.8	0.9		

1987 2 6
O=21 22 13.8 ± 0.13s
LAT=37.02 N ± 1.91km
LONG= 69.48 E ± 1.92km
DEPTH= 27 km ± 0.46km
STATIONS USED = 21, STAND DEV= 2.95s
Ms=4.3/ 2, M_L=4.7/ 1,

KSH	5.7	63	ePn	21 23 42.0	5.2		
			eSn	21 24 47.0	4.3		
			LN	Ms=4.3		8.0	2.70
WMQ	15.4	58	eP	21 25 58.5	6.8		
LSA	19.5	106	P	21 26 41.0	−1.3		
GTA	23.9	75	eP	21 27 28.8	2.1		
GYA	33.1	98	P	21 28 53.6	3.1		

1987 2 7
O=00 39 23.0 ± 0.17s
LAT=58.16 S ± 4.21km
LONG= 24.65 W ± 3.90km
DEPTH= 30 km ± 1.25km
STATIONS USED = 15, STAND DEV= 2.74s

NJ2	144.1	121	cPKP	00 58 55.4	−1.4
SSE	144.3	124	cPKP	00 58 56.0	−1.2
TIY	145.5	107	+PKP	00 58 59.6	0.1
BTO	146.5	102	cPKP	00 59 03.0	1.9
BJI	149.2	109	cPKP	00 59 10.0	4.6

1987 2 7
O=03 12 18.1 ± 0.17s
LAT=47.23 N ± 5.85km
LONG=154.59 E ± 2.54km
DEPTH= 60 km ± 2.73km
STATIONS USED = 9, STAND DEV= 2.36s

MDJ	17.6	271	eP	03 16 18.0	−2.6		
CN2	20.7	271	eP	03 16 52.0	−3.5		
XAN	36.6	266	eP	03 19 19.8	−0.7		
CD2	41.9	266	eP	03 20 05.0	0.0		
GYA	42.8	258	P	03 20 11.2	−1.1		

1987 2 7
O=04 39 37.2 ± 0.15s
LAT=23.59 N ± 1.93km
LONG= 94.41 E ± 1.70km
DEPTH= 92 km ± 0.91km
STATIONS USED = 22, STAND DEV= 2.35s

LSA	6.8	335	−P	04 41 17.9	1.9		
KMI	7.7	77	−P	04 41 30.5	1.1		
GYA	11.5	73	P	04 42 22.0	2.4		
QZN	15.1	105	eP	04 43 10.2	3.6		
XAN	16.4	47	eP	04 43 21.5	−2.0		
WHN	19.0	64	P	04 43 51.0	−3.8		
			LE			15.0	0.60
WMQ	20.9	346	eP	04 44 14.8	0.3		
SSE	24.9	67	eP	04 44 51.5	−1.6		
			PMZ			1.0	0.010

1987 2 7
O=05 04 04.1 ± 0.25s
LAT=35.13 N ± 2.03km
LONG= 82.25 E ± 0.87km
DEPTH= 10 km
STATIONS USED = 5, STAND DEV= 4.62s
M_L=4.2/ 4,

KSH	6.6	313	ePn	05 05 44.0	2.2

1987 2 7
O=06 48 02.4 ± 0.21s
LAT=20.54 N ± 3.01km
LONG=145.74 E ± 4.28km
DEPTH= 30 km ± 0.65km
STATIONS USED = 39, STAND DEV= 2.09s
Ms=4.2/ 1,

SSE	24.4	300	eP	06 53 18.5	−1.4		
			LE	Ms=4.2		26.0	0.62
MDJ	27.5	335	+P	06 53 48.5	−0.1		
DL2	27.7	317	eP	06 53 51.5	1.2		
SNY	28.3	324	eP	06 53 53.1	−2.8		
CN2	28.7	328	eP	06 54 01.0	1.4		
XAN	35.2	300	eP	06 54 55.7	−0.6		
GYA	36.2	287	P	06 55 08.6	3.4		
BTO	36.3	311	eP	06 55 05.0	−1.2		
GTA	43.5	306	eP	06 56 04.8	−0.6		
LSA	49.9	292	P	06 56 55.4	−0.8		

WMQ	53.1	310	P	06 57 19.6	−0.8		

1987 2 7
O = 07 30 04.4 ± 0.15s
LAT = 35.63 N ± 1.48km
LONG = 80.57 E ± 2.51km
DEPTH = 9 km ± 2.68km
STATIONS USED = 12, STAND DEV = 4.02s
M_L = 4.4 / 2,

KSH	5.3	318	ePn	07 31 28.0	4.0		
			Sn	07 32 33.0	5.9		
			Sg	07 32 52.0	2.1		
			LN			3.0	1.70
WMQ	9.8	32	eP	07 32 33.9	4.4		
			SME			1.1	0.050
GTA	15.7	70	eP	07 33 53.0	4.8		

1987 2 7
O = 11 31 33.8 ± 0.08s
LAT = 1.62 N ± 1.16km
LONG = 126.63 E ± 1.65km
DEPTH = 32 km ± 0.27km
STATIONS USED = 57, STAND DEV = 1.06s

QZN	23.9	318	eP	11 36 45.9	0.4		
			eS	11 41 00.0	3.3		
QZH	24.4	342	eP	11 36 49.7	−1.5		
GZH	24.9	330	eP	11 36 55.5	−0.3		
WHN	31.0	339	eP	11 37 50.0	−1.2		
NJ2	31.1	347	eP	11 37 53.0	0.8		
GYA	31.3	324	P	11 37 52.8	−0.7		
KMI	32.8	317	+P	11 38 07.5	0.3		
XAN	36.3	335	+P	11 38 35.4	−1.0		
CD2	36.3	326	eP	11 38 36.4	−0.3		
DL2	37.4	354	eP	11 38 47.5	1.6		
TIY	38.2	342	eP	11 38 53.0	0.1		
BJI	39.4	347	+P	11 39 03.0	0.3		
			PcP	11 41 11.0	0.4		
SNY	40.1	356	+iP	11 39 09.3	0.7		
HHC	41.4	343	eP	11 39 19.4	0.4		
BTO	41.6	341	eP	11 39 22.9	1.8		
CN2	42.0	359	eP	11 39 24.0	−0.2		
MDJ	42.9	3	eP	11 39 32.5	1.0		
			sP	11 39 39.5	−5.0		
LSA	43.8	313	P	11 39 37.7	−1.4		
GTA	44.9	330	eP	11 39 45.6	−1.9		
			PcP	11 41 30.4	1.8		

1987 2 7
O = 11 57 34.3 ± 0.14s
LAT = 5.72 S ± 1.77km
LONG = 147.67 E ± 3.35km
DEPTH = 27 km ± 0.72km
STATIONS USED = 99, STAND DEV = 1.64s
Ms = 6.1 / 48, m_B = 6.0 / 12

QZH	41.6	318	+P	12 05 22.0	0.0		
			pP	12 05 29.0	−1.2		
			S	12 11 36.0	0.4		
			SMN	m_B = 6.1		8.0	1.75
			SME			10.0	2.50
			SS	12 14 38.0	1.8		
			LN	Ms = 5.9		16.0	4.96
			LE			16.0	6.04
GZH	44.1	312	eP	12 05 43.5	1.0		
			S	12 12 17.0	4.7		
			sS	12 12 31.0	3.9		
			LN	Ms = 6.1		11.0	5.60
			LE			11.0	6.40
SSE	44.5	327	eP	12 05 44.0	−1.8		
			pP	12 05 51.0	−3.1		
			sP	12 05 54.5	−3.1		
			eS	12 12 20.0	0.8		
			sS	12 12 30.0	−3.0		
			ScS	12 15 36.0	−2.7		
			LN	Ms = 5.8		16.0	3.26
			LE			18.0	5.15
QZN	44.6	304	eP	12 05 46.0	−0.9		
			PP	12 07 31.0	−1.1		
			S	12 12 18.0	−2.2		
			SS	12 15 30.0	−3.1		
			LN	Ms = 5.9		14.0	5.30
			LE			15.0	4.00
NJ2	46.5	326	+P	12 06 01.5	−0.3		
			sP	12 06 10.5	−3.2		
			S	12 12 53.5	6.5		
			LN	Ms = 6.3		14.0	14.7
WHN	48.1	320	eP	12 06 16.0	1.5		
			pP	12 06 21.0	−1.8		
			PP	12 08 08.0	2.5		
			S	12 13 08.0	−2.0		
			SMN	m_B = 6.1		12.0	2.90
			LE	Ms = 6.0		14.0	6.60
DL2	50.5	334	eP	12 06 31.0	−1.9		
			S	12 13 40.0	−3.3		
			LN	Ms = 6.2		15.0	10.6
			LE			15.0	5.50
TIA	50.6	328	eP	12 06 32.7	−0.7		
			PMZ	m_B = 6.3		4.0	1.54
			pP	12 06 43.5	1.9		
			ePP	12 08 35.4	6.1		
			eS	12 13 46.6	1.4		

			SMN		$m_B = 5.8$	8.0	0.93
			SME			7.0	0.43
			LN		Ms = 6.3	14.0	6.94
			LE			15.5	13.9
GYA	51.0	311	P	12 06 38.0	1.4		
			sP	12 06 48.0	−0.3		
			PP	12 08 39.0	6.0		
			S	12 13 52.0	2.2		
			sS	12 14 09.0	4.2		
			LN		Ms = 6.0	16.0	6.60
			LE			16.0	4.60
SNY	52.2	337	+P	12 06 44.5	−0.9		
			PMZ		$m_B = 6.7$	3.5	3.24
			LN		Ms = 6.4	25.0	23.6
			LE			21.0	12.8
MDJ	52.7	344	+P	12 06 48.0	−1.1		
			pP	12 06 54.0	−3.4		
CN2	53.2	340	+P	12 06 52.0	−1.2		
			PMZ		$m_B = 6.2$	5.0	1.60
			pP	12 06 59.0	−2.5		
			eS	12 14 20.0	−1.3		
			SMN			28.0	6.80
KMI	53.4	307	eP	12 06 57.0	2.6		
			sS	12 14 43.0	5.9		
XAN	53.9	320	eP	12 06 56.7	−1.5		
			pP	12 07 03.0	−3.5		
			S	12 14 30.0	0.7		
			LN		Ms = 6.1	14.0	6.80
BJI	54.0	330	eP	12 06 57.0	−1.8		
			cpP	12 07 03.0	−4.2		
			S	12 14 34.0	3.4		
			SMN		$m_B = 5.7$	8.0	0.80
			LN		Ms = 6.2	18.0	8.62
			LE			18.0	7.33
TIY	54.2	326	+P	12 07 01.0	0.2		
			S	12 14 33.0	−1.1		
			SMN			22.0	1.45
			SME			16.0	1.20
			LE		Ms = 6.1	16.0	8.01
CD2	55.6	314	P	12 07 09.2	−1.1		
			S	12 14 54.0	2.3		
			sS	12 15 05.0	−1.7		
			LE		Ms = 6.1	13.0	6.41
HHC	56.9	328	+P	12 07 20.0	−0.4		
			pP	12 07 26.0	−2.7		
			cS	12 15 18.0	6.5		
			LN		Ms = 6.2	17.0	7.98
			LE			16.0	6.10
BTO	57.6	327	P	12 07 24.0	−1.0		
			pP	12 07 30.0	−3.3		
			PP	12 09 33.0	−0.5		
			S	12 15 16.0	−2.7		
			sS	12 15 28.0	−5.8		
			SS	12 19 05.0	−5.3		
			LN		Ms = 6.6	23.0	28.7
			LE			24.0	25.5
LZH	58.4	319	eP	12 07 31.0	0.1		
			PMZ			2.5	0.29
			S	12 15 34.0	4.4		
			sS	12 15 47.0	2.3		
			LN		Ms = 6.1	26.0	3.35
			LE			17.0	8.17
GTA	63.0	320	P	12 08 00.0	−1.6		
			eS	12 16 29.0	0.1		
			LE		Ms = 6.1	24.0	8.86
LSA	64.6	307	P	12 08 13.0	0.2		
			pP	12 08 21.0	0.2		
			LN		Ms = 5.4	11.0	0.90
WMQ	73.0	319	eP	12 09 04.0	−0.4		
			S	12 18 28.0	0.6		
			sS	12 18 40.0	−2.8		
			ScS	12 19 06.0	0.2		
			LN		Ms = 6.0	30.0	7.84
KSH	79.7	312	eP	12 09 47.0	4.9		
			PP	12 12 50.0	6.7		
			S	12 19 47.0	7.0		
			LE		Ms = 6.3	16.0	7.40

1987 2 7
O = 12 29 03.0 ± 0.32s
LAT = 52.76 N ± 2.47km
LONG = 168.44 W ± 1.13km
DEPTH = 43 km ± 1.33km
STATIONS USED = 17, STAND DEV = 0.97s
Ms = 5.0 / 1,

CN2	43.5	286	eP	12 37 03.0	−1.1
GTA	60.8	297	P	12 39 12.7	−1.2
WMQ	63.7	308	eP	12 39 33.0	−0.4
GYA	66.4	283	eP	12 39 50.4	−0.2
LSA	72.8	296	P	12 40 30.0	−0.1

1987 2 7
O = 12 35 49.9 ± 0.06s
LAT = 39.55 N ± 0.61km
LONG = 123.14 E ± 0.52km
DEPTH = 6 km ± 0.05km
STATIONS USED = 8, STAND DEV = 1.95s
M_L = 2.8 / 7,

DL2	1.3	242	Pg	12 36 12.8	−0.7
			Sg	12 36 31.5	−0.3

			SMN	$M_L = 2.8$		0.3	0.16
			SME			0.3	0.12
SNY	2.3	8	cPg	12 36 30.0	−0.6		
			Sg	12 36 57.0	−5.0		
			SMN	$M_L = 3.0$		0.4	0.10
			SME			0.4	0.080
CN2	4.6	21	cPn	12 37 03.0	3.0		
			cSg	12 38 10.0	−3.6		
			SMN	$M_L = 2.9$		0.6	0.020
			SME			0.6	0.020
BJI	5.4	277	cPg	12 37 26.5	1.4		

1987 2 7
O = 12 39 41.2 ± 0.21s
LAT = 5.84 S ± 1.67km
LONG = 147.81 E ± 2.86km
DEPTH = 12 km ± 0.52km
STATIONS USED = 55, STAND DEV = 1.80s
Ms = 5.2 / 2,

QZH	41.8	318	cP	12 47 32.8	0.2
QZN	44.8	304	cP	12 48 01.4	3.9
NJ2	46.7	326	cP	12 48 13.0	0.7
WHN	48.3	320	P	12 48 29.5	4.4
DL2	50.7	334	cP	12 48 43.0	−0.3
SNY	52.3	337	−P	12 48 55.6	−0.2
MDJ	52.8	344	cP	12 48 59.0	−0.4
CN2	53.4	340	cP	12 49 03.0	−0.5
KMI	53.5	307	cP	12 49 05.5	0.6
XAN	54.1	320	cP	12 49 07.2	−1.5
BJI	54.2	330	cP	12 49 07.5	−1.7
TIY	54.4	326	cP	12 49 11.2	−0.1
			LN	Ms = 5.3	17.0 0.92
			LE		13.0 0.76
CD2	55.7	314	cP	12 49 21.0	0.1
BTO	57.8	327	cP	12 49 34.0	−1.5
LZH	58.6	319	cP	12 49 40.5	−0.9
GTA	63.1	320	P	12 50 10.5	−1.5
LSA	64.8	307	cP	12 50 20.6	−2.6
WMQ	73.2	319	cP	12 51 14.0	−0.7

1987 2 7
O = 13 07 56.2 ± 0.23s
LAT = 11.74 N ± 3.10km
LONG = 143.39 E ± 2.85km
DEPTH = 19 km ± 0.14km
STATIONS USED = 44, STAND DEV = 1.96s
Ms = 4.9 / 2,

DL2	33.3	328	cP	13 14 34.2	−0.8
MDJ	34.8	343	+P	13 14 50.7	2.1
BJI	37.0	324	cP	13 15 06.5	−0.8
GYA	37.5	298	P	13 15 12.0	0.7
TIY	37.9	318	eP	13 15 14.0	−0.5
			S	13 21 02.5	−1.4
			LN	Ms = 5.0	14.0 0.74
			LE		16.0 1.02
XAN	38.5	311	eP	13 15 18.3	−0.9
KMI	40.6	29[illegible]	eP	13 15 39.0	1.5
BTO	41.1	320	eP	13 15 40.9	−0.1
CD2	41.3	304	P	13 15 42.0	−0.5
LZH	43.1	311	eP	13 15 57.5	−0.1
GTA	47.4	313	−P	13 16 31.1	−0.5
LSA	51.6	299	P	13 17 03.6	−0.8
WMQ	57.4	315	P	13 17 46.0	−0.5
KSH	65.2	308	eP	13 18 41.0	1.5

1987 2 7
O = 14 11 55.2 ± 0.11s
LAT = 5.76 S ± 0.75km
LONG = 147.85 E ± 1.26km
DEPTH = 37 km ± 0.63km
STATIONS USED = 35, STAND DEV = 1.10s
Ms = 4.7 / 1,

QZH	41.7	318	cP	14 19 44.0	1.2
SSE	44.6	327	P	14 20 06.7	0.3
			LE	Ms = 4.7	20.0 0.58
NJ2	46.7	326	cP	14 20 23.0	0.6
GYA	51.2	311	cP	14 20 57.4	0.0
SNY	52.3	337	cP	14 21 05.6	−0.1
MDJ	52.8	344	cP	14 21 09.5	0.2
XAN	54.0	320	cP	14 21 18.0	−0.8
BJI	54.1	330	cP	14 21 18.0	−1.2
GTA	63.1	320	cP	14 22 21.1	−1.0
LSA	64.8	307	cP	14 22 32.7	−0.6
WMQ	73.2	319	cP	14 23 28.4	3.7

1987 2 7
O = 15 24 21.4 ± 0.16s
LAT = 4.96 S ± 3.15km
LONG = 103.17 E ± 2.54km
DEPTH = 60 km ± 0.62km
STATIONS USED = 93, STAND DEV = 1.39s
Ms = 4.8 / 13,

QZN	24.7	15	cP	15 29 40.0	1.2
			LN	Ms = 4.7	15.0 1.10
GZH	29.6	19	cP	15 30 23.5	0.2
KMI	29.9	359	+P	15 30 27.0	0.7
			pP	15 30 43.0	3.0
			LN	Ms = 4.9	10.0 0.90
QZH	33.3	26	cP	15 30 55.0	−0.8
CD2	35.7	1	cP	15 31 15.8	−0.4

			PMZ			1.0	0.15
			PP	15 32 37.0	0.2		
			S	15 36 47.0	0.7		
			LN	Ms = 5.4		18.0	3.46
LSA	36.3	342	+iP	15 31 20.9	−1.4		
WHN	36.9	16	P	15 31 27.0	0.6		
			LN	Ms = 4.8		13.0	0.71
XAN	39.2	8	+P	15 31 45.3	−0.2		
			eS	15 37 40.0	−0.7		
			LN	Ms = 4.8		12.0	0.51
NJ2	39.7	21	+P	15 31 51.0	1.0		
			sP	15 32 13.0	2.2		
			S	15 37 50.0	2.1		
SSE	39.8	25	+P	15 31 51.0	0.6		
			PMZ			1.0	0.090
			sP	15 32 12.0	0.8		
			LN	Ms = 4.9		22.0	0.86
			LE			22.0	0.71
LZH	40.8	1	eP	15 32 00.5	1.1		
			PMZ			1.2	0.15
			S	15 38 06.0	1.5		
			ScS	15 41 58.0	2.8		
TIA	43.0	17	eP	15 32 16.5	−0.4		
			PcP	15 34 07.6	1.6		
TIY	43.3	11	+P	15 32 20.0	0.3		
			PMZ			1.0	0.12
			S	15 38 46.5	5.5		
			LN	Ms = 5.3		19.0	2.12
			LE			18.0	1.26
GTA	44.3	356	+iP	15 32 27.4	0.1		
			sP	15 32 43.1	−4.9		
			PcP	15 34 11.1	0.8		
			ScS	15 42 16.6	0.5		
BTO	45.8	7	+P	15 32 39.5	0.1		
			cpP	15 32 55.0	1.3		
			eS	15 39 22.0	4.4		
HHC	46.2	9	+P	15 32 43.8	0.8		
BJI	46.3	14	eP	15 32 43.5	−0.3		
DL2	46.9	20	eP	15 32 47.7	−0.2		
SNY	50.1	20	+P	15 33 12.0	−1.3		
			PcP	15 34 31.0	−0.2		
WMQ	50.5	346	+iP	15 33 15.6	−0.6		
			PMZ			2.0	0.19
			pP	15 33 29.2	−1.4		
			PcP	15 34 32.6	0.1		
			PP	15 35 10.0	−2.1		
			S	15 40 25.0	2.0		
			sS	15 40 45.5	−3.9		
KSH	50.8	333	+iP	15 33 19.0	0.4		
			pP	15 33 38.0	5.0		
			cPP	15 35 20.0	5.2		
			S	15 40 32.0	4.8		
			LN	Ms = 5.2		7.0	0.50
CN2	52.5	20	+iP	15 33 30.0	−1.3		
			PMZ			2.0	0.30
			pP	15 33 46.0	0.0		
			PcP	15 34 40.0	0.0		
			cS	15 40 50.0	−1.8		
MDJ	54.7	23	+P	15 33 47.0	−0.7		

1987 2 7

O = 15 38 00.8 ± 0.10s
LAT = 5.82 S ± 1.11km
LONG = 147.85 E ± 1.84km
DEPTH = 31 km ± 0.26km
STATIONS USED = 19, STAND DEV = 1.95s

QZH	41.8	318	eP	15 45 50.0	0.5	
SSE	44.7	327	eP	15 46 13.8	0.7	
GTA	63.1	320	P	15 48 28.5	−0.3	
LSA	64.8	307	eP	15 48 38.8	−1.2	

1987 2 7

O = 18 08 33.1 ± 0.06s
LAT = 46.61 N ± 1.74km
LONG = 149.86 E ± 1.36km
DEPTH = 152 km ± 0.65km
STATIONS USED = 88, STAND DEV = 0.95s
m_B = 5.1 / 3

MDJ	14.3	269	−P	18 11 51.9	1.7		
			PMZ			1.0	0.22
			S	18 14 30.0	4.8		
CN2	17.4	270	−P	18 12 25.5	−2.8		
			csP	18 13 06.0	−4.4		
SNY	19.4	265	−iP	18 12 49.4	−0.4		
DL2	22.0	260	eP	18 13 16.5	0.3		
BJI	25.2	267	eP	18 13 46.5	−0.4		
			cpP	18 14 23.0	5.5		
TIA	26.5	259	P	18 13 58.2	−0.2		
SSE	27.0	245	+P	18 14 03.0	0.1		
			PMZ			1.0	0.070
			epP	18 14 37.5	3.4		
			eS	18 18 22.0	−5.6		
			esS	18 19 24.0	1.5		
NJ2	27.8	250	+P	18 14 10.8	0.1		
HHC	28.1	272	−iP	18 14 13.0	0.0		
TIY	28.9	266	−iP	18 14 21.0	0.6		
			PMZ			1.0	0.080
			S	18 19 02.5	4.8		
BTO	29.2	273	P	18 14 23.0	−0.4		
WHN	31.7	252	−P	18 14 45.0	−0.3		

QZH	33.0	240	−P	18 14 56.0	−0.1		
XAN	33.3	263	−P	18 14 58.4	−0.2		
LZH	35.7	270	−iP	18 15 19.0	0.1		
			PMZ			1.0	0.19
GTA	36.8	277	−iP	18 15 28.8	0.5		
			PMZ			1.1	0.090
			PcP	18 17 47.1	0.1		
			S	18 21 01.9	2.2		
			PcS	18 21 36.1	2.4		
			ScS	18 25 25.4	1.3		
GZH	37.6	244	−iP	18 15 35.1	0.4		
CD2	38.6	263	−iP	18 15 44.0	0.2		
			PMZ			1.0	0.17
GYA	39.5	255	P	18 15 51.0	0.0		
			PMZ			1.2	0.20
			pP	18 16 28.4	4.6		
			sP	18 16 45.4	.1		
			PP	18 17 28.0	0.4		
			PcP	18 17 56.0	0.5		
			S	18 21 39.0	−1.9		
QZN	42.8	244	cP	18 16 18.4	0.9		
WMQ	42.9	290	−P	18 16 18.5	−0.1		
KMI	43.0	257	−P	18 16 20.0	0.1		
KSH	52.7	291	cP	18 17 35.0	0.5		

1987 2 7

O = 19 21 60.0 ± 0.14s
LAT = 8.77 S ± 2.40km
LONG = 118.57 E ± 2.73km
DEPTH = 97 km ± 0.51km
STATIONS USED = 42, STAND DEV = 1.91s

GYA	36.9	342	P	19 29 02.0	0.7		
WHN	39.3	354	cP	19 29 23.5	2.3		
CD2	41.9	341	P	19 29 43.3	0.3		
XAN	43.5	348	P	19 29 55.6	−0.6		
LSA	46.5	326	−P	19 30 19.4	−0.6		
TIY	46.6	353	cP	19 30 21.6	1.1		
LZH	46.7	344	cP	19 30 22.5	0.9		
BJI	48.6	358	cP	19 30 35.0	−1.1		
BTO	49.8	351	cP	19 30 46.0	0.9		
GTA	51.0	341	+P	19 30 54.4	−0.2		
MDJ	54.1	10	−P	19 31 15.9	−1.3		
WMQ	59.4	334	P	19 31 53.5	−1.4		
KSH	62.1	324	cP	19 32 13.0	−0.7		

1987 2 7

O = 20 29 08.6 ± 0.14s
LAT = 10.02 S ± 2.47km
LONG = 161.15 E ± 1.18km
DEPTH = 84 km ± 1.40km

STATIONS USED = 35, STAND DEV = 1.75s

MDJ	61.4	335	eP	20 39 19.7	0.8		
CN2	62.6	332	+P	20 39 26.0	−1.0		
XAN	66.1	314	P	20 39 49.2	−0.7		
CD2	68.4	309	P	20 40 04.8	0.6		
BTO	69.0	321	eP	20 40 08.0	0.2		
LZH	70.8	314	eP	20 40 20.0	1.4		
GTA	75.1	315	−P	20 40 44.9	0.6		

1987 2 8

O = 00 44 00.4 ± 0.07s
LAT = 7.46 S ± 1.16km
LONG = 128.39 E ± 1.69km
DEPTH = 126 km ± 0.16km
STATIONS USED = 54, STAND DEV = 0.89s

GZH	33.7	335	cP	00 50 32.5	0.4		
SSE	38.9	350	P	00 51 16.5	0.5		
			PMZ			0.8	0.010
GYA	39.8	329	P	00 51 23.6	0.7		
			PcP	00 53 27.0	0.3		
WHN	40.1	341	cP	00 51 26.5	0.9		
NJ2	40.3	347	−P	00 51 28.0	0.6		
TIA	44.7	347	P	00 52 02.5	−0.5		
CD2	44.9	329	P	00 52 04.5	0.2		
XAN	45.2	337	+P	00 52 06.4	−0.6		
TIY	47.3	343	−iP	00 52 23.5	−0.4		
BJI	48.6	347	cP	00 52 33.0	−0.4		
LZH	49.1	334	+iP	00 52 38.0	0.6		
CN2	51.1	357	cP	00 52 50.5	−2.0		
LSA	51.4	318	P	00 52 55.0	−0.7		
MDJ	51.8	1	cP	00 52 59.5	1.3		
GTA	53.6	333	+iP	00 53 11.4	−0.1		
WMQ	62.9	328	P	00 54 16.0	−0.2		
KSH	67.3	318	cP	00 54 45.5	1.3		

1987 2 8

O = 03 29 18.8 ± 0.11s
LAT = 34.61 N ± 1.29km
LONG = 81.08 E ± 1.48km
DEPTH = 33 km ± 0.07km
STATIONS USED = 15, STAND DEV = 2.83s
Ms = 4.4 / 1, M_L = 3.9 / 1,

KSH	6.3	321	ePn	03 30 55.0	4.6		
			LE	Ms = 4.4		6.0	2.20
LSA	9.8	117	eP	03 31 41.0	−0.6		
WMQ	10.5	27	P	03 31 50.6	−0.2		
			LE			1.8	0.040
GTA	15.7	67	eP	03 33 03.1	3.4		

1987 2 8

O=17 48 48.2 ± 0.09s
LAT= 1.55 N ± 1.44km
LONG=126.42 E ± 1.98km
DEPTH= 17 km ± 0.11km
STATIONS USED = 96, STAND DEV= 1.09s
Ms=5.7/46, m_B=5.9/17

QZN	23.8	318	−P	17 54 02.0	0.8			
			sP	17 54 09.0	−1.7			
			S	17 58 10.5	−1.7			
			sS	17 58 22.5	−0.7			
			SS	17 58 58.0	−3.3			
			LN	Ms=5.8		16.0	13.9	
			LE			14.0	9.30	
QZH	24.5	343	−P	17 54 07.5	−0.2			
			S	17 58 17.0	−6.8			
			SMN			24.0	7.43	
			LN	Ms=5.8		25.0	23.3	
GZH	24.9	330	+P	17 54 12.0	0.1			
			pP	17 54 18.0	−0.2			
			S	17 58 31.0	−0.1			
			sS	17 58 41.0	−1.2			
			LN	Ms=5.5		13.0	2.24	
			LE			14.0	5.50	
SSE	29.8	351	eP	17 54 57.0	0.1			
			PMZ			1.2	0.070	
			pP	17 55 02.0	−1.4			
			sP	17 55 03.0	−3.5			
			SMN			14.0	5.38	
			sS	18 00 00.0	−2.5			
			SS	18 01 30.0	3.9			
			PcS	18 01 41.0	−0.7			
			LN	Ms=5.9		24.0	16.0	
			LE			24.0	11.1	
WHN	31.0	340	P	17 55 08.0	0.3			
			S	18 00 08.0	−2.2			
			LE	Ms=5.4		19.0	5.20	
NJ2	31.2	348	−P	17 55 09.5	0.5			
			sP	17 55 16.5	−2.0			
			S	18 00 10.0	−2.4			
			SMN	m_B=6.0		12.0	3.50	
			LN	Ms=5.5		11.0	4.00	
GYA	31.2	324	P	17 55 09.4	−0.1			
			sP	17 55 15.6	−3.3			
			PP	17 56 13.0	1.4			
			PcP	17 58 06.0	2.6			
			S	18 00 10.0	−3.0			
			ScP	18 01 46.0	1.7			
			ScS	18 05 42.0	1.9			
			LN	Ms=5.5		16.0	3.30	
			LE			16.0	4.00	
KMI	32.7	318	−P	17 55 24.0	1.1			
			iS	18 00 35.5	−2.7			
			LN	Ms=5.9		17.0	12.0	
TIA	35.5	347	eP	17 55 46.0	−1.0			
			PMZ	m_B=5.8		10.0	1.58	
			epP	17 55 50.5	−3.0			
			ePP	17 57 03.0	−3.5			
			SMN	m_B=6.1		11.0	3.70	
			SME			11.0	1.46	
			LN	Ms=5.5		12.0	2.10	
			LE			14.0	2.45	
XAN	36.2	335	+P	17 55 51.4	−1.4			
			PcP	17 58 19.5	2.0			
			LN	Ms=5.7		19.0	5.61	
			LE			19.0	5.46	
CD2	36.2	326	P	17 55 52.4	−0.5			
			S	18 01 30.0	−1.1			
			LN	Ms=6.0		13.0	5.44	
			LE			24.0	15.2	
DL2	37.4	354	P	17 56 04.0	1.1			
			pP	17 56 08.0	−1.4			
			eS	18 01 49.0	−1.4			
			LN	Ms=5.9		20.0	4.80	
			LE			20.0	11.9	
TIY	38.2	342	+iP	17 56 09.3	−0.3			
			PMZ			1.0	0.070	
			S	18 01 55.0	−6.4			
			SMN			26.0	2.92	
			SME			20.0	1.39	
			LN	Ms=5.7		19.0	5.94	
			LE			21.0	3.48	
BJI	39.4	348	eP	17 56 19.0	−0.5			
			eS	18 02 15.0	−5.6			
			SMN	m_B=5.8		10.0	1.78	
			eScS	18 06 27.0	2.4			
			LN	Ms=5.3		16.0	1.60	
			LE			16.0	1.71	
SNY	40.2	357	+iP	17 56 25.8	0.0			
			pP	17 56 30.0	−2.3			
			sP	17 56 32.5	−2.9			
			PP	17 58 05.0	3.1			
			S	18 02 30.0	−1.0			
			SME	m_B=6.1		12.0	3.66	
			sS	18 02 39.0	−3.8			
			SS	18 05 20.0	−2.9			
			LN	Ms=5.8		28.0	9.15	
			LE			21.0	5.45	
LZH	40.2	331	eP	17 56 26.5	0.1			
			PMZ			1.5	0.65	
			pP	17 56 31.0	−1.8			

			sP	17 56 35.0	−0.8		
			S	18 02 33.0	1.2		
			SME	m_B = 5.7		8.0	1.03
			sS	18 02 39.0	−4.6		
			LN	Ms = 5.9		28.0	5.44
			LE			28.0	13.0
HHC	41.4	343	eP	17 56 35.8	0.1		
			S	18 02 50.0	1.3		
			LN	Ms = 5.4		16.0	2.64
			LE			15.0	1.03
BTO	41.6	341	P	17 56 37.0	−0.7		
			sP	17 56 44.0	−3.2		
			cPP	17 58 16.0	−0.9		
			S	18 02 49.0	−3.3		
			eSS	18 05 47.0	−5.5		
			LN	Ms = 5.9		25.0	12.8
			LE			20.0	3.70
CN2	42.1	359	eP	17 56 40.8	−0.6		
			PMZ	m_B = 6.0		5.0	1.30
			pP	17 56 46.0	−1.9		
			SME			16.0	2.30
MDJ	43.0	3	eP	17 56 49.0	0.2		
			PMZ			3.0	0.77
			pP	17 56 53.0	−2.4		
			ScP	18 02 31.0	3.0		
			S	18 03 08.0	−4.3		
LSA	43.7	313	P	17 56 54.8	−0.1		
			iS	18 03 22.0	−2.3		
			SMN	m_B = 5.9		10.0	1.92
			LE	Ms = 5.1		15.0	1.21
GTA	44.8	331	eP	17 57 03.0	−0.8		
			PcP	17 58 48.0	2.8		
			ScS	18 06 58.9	1.7		
WMQ	54.3	326	P	17 58 17.5	0.7		
			PMZ			1.0	0.17
			PcP	17 59 23.0	3.3		
			ScP	18 03 17.0	1.3		
			S	18 05 50.0	−1.5		
			ScS	18 08 04.0	3.0		
			LN	Ms = 6.1		24.0	14.1
KSH	59.3	316	+P	17 58 54.0	1.4		
			PP	18 01 08.0	3.5		
			iS	18 07 02.0	2.7		
			SME	m_B = 6.2		8.0	2.20
			LN	Ms = 6.0		18.0	5.90

1987 2 8 .

O = 18 33 55.8 ± 0.14s

LAT = 5.89 S ± 1.76km

LONG = 147.75 E ± 2.87km

DEPTH = 38 km ± 0.41km

STATIONS USED = 103, STAND DEV = 1.86s

Ms = 7.3 / 51, m_B = 7.0 / 18

QZH	41.8	318	+P	18 41 43.0	−0.6		
			pP	18 41 53.0	−0.8		
			sP	18 41 57.4	−0.8		
			PP	18 43 26.0	2.4		
			S	18 48 04.0	6.8		
			SMN	m_B = 6.8		9.0	8.66
			SME			9.0	13.6
			sS	18 48 20.0	4.8		
			LN	Ms = 7.0		15.0	48.0
			LE			16.0	92.9
GZH	44.3	312	eP	18 42 05.0	1.0		
			pP	18 42 12.5	−1.8		
			S	18 48 37.0	3.2		
			LN	Ms = 7.4		17.0	244
SSE	44.7	327	P	18 42 06.0	−1.4		
			PMZ			1.5	0.37
			pP	18 42 16.0	−1.6		
			sP	18 42 20.0	−1.9		
			PP	18 43 53.0	0.2		
			S	18 48 44.0	4.1		
			sS	18 48 55.0	−3.1		
			ScS	18 51 58.0	−0.5		
			LN	Ms = 7.3		18.0	149
			LE			18.0	171
QZN	44.8	304	+P	18 42 07.0	−1.3		
			pP	18 42 20.0	1.4		
			PcP	18 43 49.0	−0.6		
			PP	18 43 54.1	0.2		
			PcS	18 47 45.0	3.2		
			S	18 48 40.0	−1.5		
			sS	18 48 59.0	−0.7		
			LN	Ms = 7.2		16.0	103
			LE			21.0	159
NJ2	46.7	326	+P	18 42 23.5	0.1		
			PP	18 44 11.0	−1.6		
			S	18 49 05.5	−3.1		
			LE	Ms = 7.0		11.0	53.2
WHN	48.3	321	P	18 42 36.5	0.5		
			PMZ	m_B = 7.0		6.0	13.0
			isP	18 42 50.0	−0.6		
			S	18 49 32.0	0.5		
			SME			20.0	108
			LN	Ms = 7.3		14.0	155
DL2	50.7	334	+P	18 42 57.0	2.6		
			pP	18 43 09.0	4.3		
			sP	18 43 14.0	5.1		
			PcS	18 48 05.0	−1.6		

			S	18 50 09.0	4.2		
			LE	Ms=7.4		17.0	180
TIA	50.8	328	eP	18 42 53.2	−1.7		
			PMZ	m_B=6.9		9.0	13.7
			pP	18 43 03.2	−1.9		
			ePP	18 44 49.5	−1.6		
			S	18 50 00.0	−5.6		
			SMN			12.5	7.88
			SME			8.0	5.93
			LN	Ms=6.6		17.0	34.3
GYA	51.2	311	P	18 43 00.6	2.6		
			pP	18 43 10.0	1.9		
			PP	18 44 55.0	0.3		
			LN	Ms=7.2		10.0	42.8
			LE			10.0	51.8
SNY	52.4	337	+iP	18 43 05.4	−1.4		
			sP	18 43 20.0	−1.5		
			S	18 50 32.0	4.5		
			LE	Ms=7.3		17.0	140
MDJ	52.9	344	+P	18 43 10.0	−0.6		
			PMZ			30.0	11.8
			pP	18 43 20.0	−0.9		
			PP	18 45 12.0	1.3		
			ScP	18 48 10.0	−1.4		
			PcS	18 48 13.0	−2.9		
			S	18 50 40.0	5.8		
			SS	18 54 19.0	6.9		
			LN	Ms=7.6		25.0	441
CN2	53.4	340	+P	18 43 12.5	−2.1		
			eS	18 50 45.0	2.2		
KMI	53.5	307	eP	18 43 16.0	0.3		
			pP	18 43 25.5	−0.4		
			sP	18 43 29.0	−1.2		
			S	18 50 50.0	6.8		
			LN	Ms=7.3		18.0	144
XAN	54.1	320	eP	18 43 17.5	−2.1		
			sP	18 43 34.0	−0.3		
			LN	Ms=7.4		17.0	191
			LE			16.0	53.8
BJI	54.2	330	eP	18 43 18.0	−2.2		
			epP	18 43 28.0	−2.7		
			esP	18 43 34.0	−1.0		
			S	18 50 58.0	6.0		
			sS	18 51 16.0	5.4		
			LN	Ms=7.5		20.0	297
TIY	54.4	326	+P	18 43 21.0	−1.3		
			PMZ	m_B=6.5		5.0	2.99
			sP	18 43 36.5	−0.4		
			ScP	18 48 13.0	−5.2		
			SME	m_B=6.8		8.0	9.41
			LE	Ms=7.2		15.0	103
CD2	55.7	314	P	18 43 29.6	−2.1		
			sP	18 43 43.0	−3.3		
			S	18 51 12.0	−0.9		
HHC	57.1	328	+P	18 43 41.5	−0.3		
			sP	18 43 54.0	−2.3		
			SMN			18.0	18.9
			SME			10.0	20.4
			LN	Ms=7.7		18.0	315
			LE			19.0	130
BTO	57.8	327	+P	18 43 45.0	−1.4		
			sP	18 43 59.0	−1.9		
			PP	18 45 54.0	−1.2		
			S	18 51 36.0	−4.0		
			SS	18 55 27.0	−5.3		
			LN	Ms=7.3		15.0	90.1
			LE			15.0	78.5
LZH	58.6	319	P	18 43 52.5	0.3		
			PMZ			2.5	2.45
			PP	18 46 04.0	1.3		
			S	18 51 54.0	3.1		
			SME			15.0	72.6
			sS	18 52 09.0	−0.5		
			LE	Ms=7.5		24.0	306
GTA	63.1	320	−iP	18 44 21.6	−1.3		
			PP	18 46 46.0	3.7		
			S	18 52 45.5	−3.0		
			SME	m_B=7.0		12.0	22.8
			LE	Ms=7.5		24.0	221
LSA	64.8	307	eP	18 44 34.0	0.1		
			pP	18 44 43.0	−1.0		
			S	18 53 02.0	−6.8		
			LE	Ms=7.3		24.0	148
WMQ	73.2	319	P	18 45 25.0	−0.5		
			sP	18 45 40.0	−0.2		
			S	18 54 52.5	4.3		
			SKS	18 55 26.0	3.6		
			LN	Ms=7.3		15.0	83.6
KSH	79.8	312	eP	18 46 04.0	1.0		
			pP	18 46 13.0	−0.4		
			ePP	18 49 10.0	5.2		
			eS	18 56 04.0	1.4		
			LN	Ms=7.6		16.0	145

1987 2 8

O=20 30 25.0 ± 0.06s

LAT= 5.98 S ± 0.67km

LONG=147.55 E ± 1.97km

DEPTH= 33 km ± 0.15km

STATIONS USED = 13, STAND DEV= 1.29s

GTA	63.1	320	eP	20 40 53.4	1.2
LSA	64.7	307	eP	20 41 01.0	−1.9

1987 2 8
O = 20 53 22.0 ± 0.07s
LAT = 6.10 S ± 0.83km
LONG = 151.16 E ± 1.00km
DEPTH = 33 km ± 0.17km
STATIONS USED = 29, STAND DEV = 0.90s

BJI	56.1	328	eP	21 03 03.0	2.2
XAN	56.5	318	eP	21 03 03.2	−0.4
LZH	61.0	317	eP	21 03 35.5	−0.1
WMQ	75.6	318	P	21 05 04.8	−1.3

1987 2 8
O = 22 51 18.6 ± 0.16s
LAT = 6.10 S ± 1.53km
LONG = 147.70 E ± 2.30km
DEPTH = 38 km ± 0.50km
STATIONS USED = 28, STAND DEV = 2.07s

XAN	54.2	320	eP	23 00 41.4	−1.9
BJI	54.3	330	eP	23 00 42.0	−2.1
LZH	58.7	319	eP	23 01 15.5	−0.3
GTA	63.3	320	+P	23 01 45.8	−0.7
WMQ	73.3	319	eP	23 02 48.0	−0.9

1987 2 9
O = 01 32 56.0 ± 0.11s
LAT = 6.06 S ± 0.97km
LONG = 147.81 E ± 1.58km
DEPTH = 16 km ± 0.32km
STATIONS USED = 63, STAND DEV = 0.99s
Ms = 4.9 / 3,

SSE	44.9	327	+P	01 41 13.0	1.1		
			PMZ			1.0	0.030
			LN	Ms = 4.9		20.0	0.60
			LE			20.0	0.58
QZN	44.9	305	eP	01 41 11.3	−1.3		
			eS	01 47 50.0	0.1		
NJ2	46.9	326	+P	01 41 29.0	1.1		
WHN	48.5	321	eP	01 41 42.0	1.5		
TIA	51.0	328	+P	01 41 58.6	−0.8		
SNY	52.5	337	+P	01 42 11.5	0.1		
MDJ	53.0	344	−P	01 42 16.1	0.9		
CN2	53.6	340	eP	01 42 19.0	−0.2		
XAN	54.2	320	−P	01 42 23.7	−0.3		
BJI	54.3	330	eP	01 42 24.0	−0.7		
TIY	54.6	326	+P	01 42 26.0	−0.7		
			eS	01 50 05.0	0.5		
			LE	Ms = 4.6		18.0	0.31

CD2	55.9	314	eP	01 42 35.0	−1.1
HHC	57.3	328	eP	01 42 45.5	−0.8
BTO	58.0	327	eP	01 42 49.5	−1.4
LZH	58.8	319	eP	01 42 57.5	0.9
GTA	63.3	320	eP	01 43 26.8	−0.5
WMQ	73.4	319	P	01 44 29.0	−0.8
KSH	80.0	312	P	01 45 10.0	2.8

1987 2 9
O = 01 44 59.3 ± 0.10s
LAT = 6.05 S ± 1.00km
LONG = 147.61 E ± 1.78km
DEPTH = 31 km ± 0.28km
STATIONS USED = 32, STAND DEV = 1.46s

SSE	44.7	327	eP	01 53 12.4	0.4
NJ2	46.8	326	eP	01 53 28.6	0.6
XAN	54.1	320	eP	01 54 22.5	−1.5
BJI	54.2	330	eP	01 54 24.0	−0.9
CD2	55.7	314	P	01 54 36.9	1.0
GTA	63.2	320	eP	01 55 24.2	−3.1

1987 2 9
O = 02 11 10.3 ± 0.25s
LAT = 5.97 S ± 2.74km
LONG = 147.71 E ± 3.33km
DEPTH = 33 km ± 0.50km
STATIONS USED = 74, STAND DEV = 1.92s
Ms = 5.4 / 28, m_B = 5.4 / 6

QZH	41.8	318	eP	02 19 00.0	1.3		
			sP	02 19 09.0	−3.1		
			S	02 25 13.0	−0.2		
			SMN	m_B = 5.5		10.0	0.40
			SME			10.0	0.80
			LN	Ms = 5.0		14.0	0.92
GZH	44.3	312	eP	02 19 22.0	2.9		
			eS	02 25 50.0	−0.6		
			LN	Ms = 5.6		19.0	4.00
			LE			18.0	2.30
SSE	44.7	327	eP	02 19 23.0	0.4		
			PMZ			1.2	0.030
			pP	02 19 29.0	−3.0		
			sP	02 19 31.7	−4.3		
			eS	02 25 58.0	1.1		
			sS	02 26 08.0	−4.5		
			ScS	02 29 17.0	2.6		
			LN	Ms = 5.5		20.0	1.50
			LE			20.0	3.17
QZN	44.8	305	eP	02 19 25.0	1.7		
			pP	02 19 31.5	−1.2		
			eS	02 26 00.0	1.8		

			LN	Ms = 5.1	15.0	1.10
NJ2	46.7	326	−P	02 19 38.6	0.0		
			sP	02 19 48.0	−3.9		
			iS	02 26 27.0	1.3		
			LE	Ms = 5.4	14.0	1.90
WHN	48.4	321	eP	02 19 51.5	0.3		
			eS	02 26 52.0	3.5		
			SME	m_B = 5.1	10.0	0.27
			LN	Ms = 5.3	14.0	1.39
TIA	50.8	328	eP	02 20 10.2	0.0		
			esP	02 20 19.0	−4.4		
			S	02 27 19.0	−2.7		
			LN	Ms = 5.6	14.0	1.92
			LE		14.0	1.80
GYA	51.2	311	P	02 20 16.0	2.9		
			sP	02 20 25.6	−0.6		
			S	02 27 30.0	3.2		
			LE	Ms = 5.0	16.0	0.80
SNY	52.4	337	eP	02 20 22.5	0.3		
			LN	Ms = 5.7	40.0	5.66
			LE		40.0	7.08
MDJ	52.9	344	P	02 20 27.0	1.0		
			S	02 27 52.0	1.4		
CN2	53.5	340	eP	02 20 29.5	−0.5		
KMI	53.5	307	eP	02 20 29.5	−1.2		
			sP	02 20 42.0	−1.9		
			eS	02 28 06.0	5.5		
			LE	Ms = 5.2	18.0	1.10
XAN	54.1	320	eP	02 20 32.8	−2.0		
			S	02 28 03.0	−3.6		
			SME	m_B = 5.3	10.0	0.42
			LN	Ms = 5.2	13.0	0.87
BJI	54.2	330	eP	02 20 34.5	−1.0		
			eS	02 28 08.0	−1.3		
			SMN	m_B = 5.4	7.0	0.27
			SME		8.0	0.28
			LN	Ms = 5.1	14.0	0.44
			LE		14.0	0.61
TIY	54.5	326	+P	02 20 37.0	−0.5		
			S	02 28 13.0	1.5		
			LN	Ms = 5.4	18.0	1.81
			LE		15.0	0.76
CD2	55.8	314	eP	02 20 47.4	0.6		
			S	02 28 30.0	1.2		
			LE	Ms = 5.4	20.0	1.87
HHC	57.2	328	eP	02 20 55.2	−1.8		
			S	02 28 54.0	6.5		
			LN	Ms = 5.6	20.0	1.25
			LE		20.0	2.46
BTO	57.8	327	P	02 21 01.0	−0.6		
			csP	02 21 10.0	−4.9		
			S	02 28 57.0	0.9		
			LN	Ms = 5.6	19.0	2.00
			LE		18.0	2.10
LZH	58.6	319	eP	02 21 06.5	−0.9		
GTA	63.2	320	P	02 21 36.3	−1.8		
			S	02 30 05.0	0.6		
			SME		14.0	0.29
			LN	Ms = 5,4	40.0	2.70
			LE		15.0	0.46
LSA	64.8	307	P	02 21 48.2	−0.7		
WMQ	73.2	319	P	02 22 40.6	0.0		
			PcP	02 23 00.5	4.2		
			cS	02 32 05.0	−0.8		
			sS	02 32 18.0	−3.5		

1987 2 9
O = 02 15 26.2 ± 0.30s
LAT = 6.12 S ± 4.47km
LONG = 147.75 E ± 4.93km
DEPTH = 31 km ± 0.70km
STATIONS USED = 45, STAND DEV = 4.31s
Ms = 5.1 / 3,

QZH	41.9	319	eP	02 23 21.5	5.3	
SSE	44.9	327	eP	02 23 37.0	−3.1	
			pP	02 23 45.5	−3.6	
QZN	44.9	305	eP	02 23 44.0	3.5	
NJ2	46.9	326	eP	02 23 51.0	−5.0	
			sP	02 24 05.0	−3.8	
DL2	50.9	334	eP	02 24 33.0	5.8	
			LE	Ms = 5.4	15.0	1.63
SNY	52.6	337	−P	02 24 44.2	4.6	
MDJ	53.1	344	−P	02 24 46.0	2.6	
CN2	53.6	340	eP	02 24 50.0	2.6	
XAN	54.2	320	eP	02 24 47.0	−5.1	
BJI	54.4	330	eP	02 24 50.0	−2.9	
TIY	54.6	326	P	02 25 00.6	5.8	
			LN	Ms = 5.1	15.0	0.55
			LE		15.0	0.48
GTA	63.3	320	P	02 25 50.8	−4.5	

1987 2 9
O = 05 10 52.0 ± 0.13s
LAT = 34.26 N ± 1.12km
LONG = 103.27 E ± 1.48km
DEPTH = 11 km ± 0.23km
STATIONS USED = 17, STAND DEV = 2.61s
M_L = 3.8 / 10,

LZH	1.9	14	ePn	05 11 26.0	1.2	
			Sn	05 11 51.0	0.8	

			SMN	$M_L=3.8$	1.0	0.82
			SME		1.0	0.91
CD2	3.4	173	ePg	05 11 56.4	4.8		
			Sg	05 12 43.9	6.4		
			SMN	$M_L=3.2$	1.2	0.080
			SME		1.2	0.060
XAN	4.7	91	ePn	05 12 03.2	−0.1		
			Pg	05 12 18.0	3.1		
			Sn	05 12 55.8	−4.0		
			Sg	05 13 18.4	−0.6		
			SMN	$M_L=3.8$	1.0	0.15
			SME		1.0	0.14
GTA	5.8	333	ePn	05 12 19.9	0.7		
GYA	8.3	158	P	05 12 53.8	−1.9		

1987 2 9
O=06 47 59.1 ± 0.20s
LAT= 6.06 S ± 2.49km
LONG=147.82 E ± 3.34km
DEPTH= 32 km ± 0.42km
STATIONS USED = 82, STAND DEV= 1.84s
Ms=5.3/28, m_B=5.5/ 7

QZH	41.9	318	P	06 55 49.5	0.5		
			S	07 02 08.0	3.5		
			SME	$m_B=5.5$		6.0	0.48
			LN	Ms=5.2		18.0	1.27
			LE			18.0	1.08
GZH	44.4	312	eP	06 56 08.0	−1.3		
			S	07 02 41.0	0.1		
SSE	44.9	327	+P	06 56 12.0	−0.8		
			PMZ			1.0	0.070
			eS	07 02 44.0	−4.1		
			sS	07 03 04.0	0.7		
			SS	07 06 08.0	6.9		
			LN	Ms=5.4		16.0	1.45
			LE			16.0	1.72
QZN	45.0	305	eP	06 56 12.0	−1.5		
			pP	06 56 18.0	−4.6		
			S	07 02 51.0	2.6		
			LN	Ms=5.1		17.0	1.30
NJ2	46.9	326	+iP	06 56 30.0	1.3		
			pP	06 56 36.0	−1.9		
			iS	07 03 22.0	5.1		
			SME	$m_B=5.7$		7.0	0.80
			LN	Ms=5.3		13.0	1.50
WHN	48.5	321	+iP	06 56 43.0	1.6		
			eS	07 03 36.0	−3.7		
			LN	Ms=5.2		13.0	1.00
DL2	50.9	334	P	06 57 00.0	0.2		
			LN	Ms=5.0		12.0	0.50
TIA	51.0	328	eP	06 56 59.9	−0.4		
			esP	06 57 09.0	−4.2		
			S	07 04 13.0	0.2		
			LN	Ms=5.4		17.0	1.59
			LE			17.0	1.19
GYA	51.3	311	P	06 57 05.0	1.8		
			pP	06 57 11.0	−1.2		
			S	07 04 23.0	5.0		
			LE	Ms=5.0		18.0	0.80
SNY	52.5	337	+iP	06 57 12.0	−0.2		
			PMZ	$m_B=6.0$		4.0	0.81
			sP	06 57 21.0	−4.2		
			eS	07 04 41.0	5.2		
			LN	Ms=5.5		28.0	2.25
			LE			30.0	3.33
MDJ	53.0	344	−P	06 57 17.0	1.1		
			S	07 04 44.0	2.6		
			sS	07 04 54.0	−3.8		
CN2	53.6	340	+P	06 57 19.0	−1.0		
			PMZ	$m_B=5.7$		5.0	0.50
			esP	06 57 28.0	−5.0		
			cS	07 04 50.0	0.0		
KMI	53.7	307	eP	06 57 21.0	0.1		
			sP	06 57 30.0	−3.7		
			S	07 04 55.0	4.9		
			LN	Ms=5.4		18.0	2.00
XAN	54.2	320	+P	06 57 24.0	−0.9		
			PcP	06 58 30.0	1.9		
			S	07 05 00.0	2.2		
			LN	Ms=4.9		13.0	0.41
BJI	54.4	330	eP	06 57 25.0	−0.6		
			eS	07 05 02.0	1.7		
			SMN	$m_B=5.4$		7.0	0.24
			SME			7.0	0.25
			ScS	07 07 12.0	3.8		
			LN	Ms=5.3		15.0	1.04
			LE			16.0	0.72
TIY	54.6	326	+P	06 57 27.0	−0.6		
			S	07 05 04.0	1.4		
			LN	Ms=5.4		20.0	1.98
			LE			16.0	0.90
CD2	55.9	314	eP	06 57 36.2	−0.7		
			S	07 05 22.0	2.1		
			LE	Ms=5.3		16.0	1.30
HHC	57.3	328	eP	06 57 47.0	−0.1		
			LN	Ms=5.4		22.0	1.18
			LE			22.0	1.87
BTO	58.0	327	+iP	06 57 51.0	−0.7		
			epP	06 57 57.0	−3.8		
			eS	07 05 49.5	1.0		

			LN	Ms=5.3	16.0	0.90
			LE		16.0	0.90
LZH	58.8	319	P	06 57 57.0	−0.4	
			PMZ		1.5	0.12
			eS	07 06 03.0	3.6	
			LE	Ms=5.2	15.0	0.87
GTA	63.3	320	P	06 58 27.9	−0.1	
			S	07 07 00.0	4.6	
			SME	m_B=5.2	12.0	0.39
			SS	07 11 09.0	4.9	
			LE	Ms=5.0	16.5	0.54
LSA	64.9	307	eP	06 58 39.4	0.5	
WMQ	73.4	319	P	06 59 30.7	0.2	
			PMZ		1.5	0.080
			sP	06 59 39.7	−3.9	
			PcP	06 59 47.0	1.0	
			PP	07 02 20.6	5.4	
			S	07 09 00.0	5.0	
			SKS	07 09 28.0	−0.5	
KSH	80.0	312	eP	07 00 09.0	1.0	
			pP	07 00 15.0	−2.1	
			eS	07 10 14.0	4.9	

1987 2 9
O=12 28 25.4 ± 0.13s
LAT=35.33 N ± 2.63km
LONG= 26.04 E ± 2.10km
DEPTH= 31 km ± 0.49km
STATIONS USED = 31, STAND DEV= 2.42s

WMQ	47.3	60	P	12 37 00.0	1.4	
			PMZ		1.2	0.030
			S	12 43 54.3	5.9	
GTA	57.2	62	eP	12 38 12.4	−0.7	
CD2	63.7	70	eP	12 38 56.8	0.1	
BTO	64.0	57	eP	12 39 00.0	1.1	
HHC	64.9	57	eP	12 39 05.6	0.5	
XAN	66.1	64	eP	12 39 13.0	0.4	
TIY	67.0	59	eP	12 39 17.2	−0.7	

1987 2 9
O=13 40 08.1 ± 0.07s
LAT=34.29 N ± 0.48km
LONG=103.30 E ± 0.66km
DEPTH= 11 km ± 0.18km
STATIONS USED = 6, STAND DEV= 1.67s
M_L=3.1/ 5,

LZH	1.8	14	Pg	13 40 41.5	0.5	
			Sg	13 41 05.5	−0.5	
			SMN	M_L=3.0	1.0	0.13
			SME		1.0	0.17
XAN	4.7	92	cPn	13 41 20.0	1.0	
			Pg	13 41 34.6	4.1	
			Sn	13 42 13.8	−1.5	
			Sg	13 42 34.5	0.1	
			SMN	M_L=3.1	1.0	0.020
			SME		1.0	0.030
GTA	5.8	332	cPn	13 41 34.8	−0.2	

1987 2 9
O=14 25 30.8 ± 0.23s
LAT= 6.11 S ± 1.97km
LONG=147.86 E ± 3.47km
DEPTH= 49 km ± 1.04km
STATIONS USED = 64, STAND DEV= 2.23s
Ms=5.1/ 15,

QZH	42.0	318	eP	14 33 24.0	4.7	
			eS	14 39 35.0	0.7	
			LN	Ms=5.3	18.0	1.38
			LE		22.0	1.95
GZH	44.5	312	eP	14 33 40.5	0.9	
SSE	44.9	327	eP	14 33 42.5	−0.6	
			LN	Ms=4.7	13.0	0.41
QZN	45.0	305	eP	14 33 47.5	3.7	
NJ2	46.9	326	+P	14 33 59.0	0.0	
			iS	14 40 49.0	3.4	
WHN	48.6	321	eP	14 34 14.5	2.9	
TIA	51.0	328	eP	14 34 28.2	−2.3	
			S	14 41 47.0	5.5	
			LN	Ms=5.1	14.6	0.83
SNY	52.6	337	eP	14 34 47.2	4.7	
			LN	Ms=5.4	28.0	1.83
			LE		30.0	2.89
MDJ	53.1	344	eP	14 34 46.0	−0.1	
			S	14 42 11.0	1.0	
CN2	53.7	340	eP	14 34 51.0	0.8	
			eS	14 42 20.0	1.4	
XAN	54.3	320	eP	14 34 53.4	−1.7	
BJI	54.4	330	eP	14 34 53.5	−2.3	
TIY	54.7	326	eP	14 34 53.8	−4.0	
			S	14 42 26.0	−5.2	
			LE	Ms=4.8	16.0	0.45
CD2	56.0	314	eP	14 35 06.0	−1.1	
			LE	Ms=5.2	18.0	1.24
HHC	57.4	328	eP	14 35 15.6	−1.6	
BTO	58.0	327	eP	14 35 20.2	−1.6	
			eS	14 43 15.0	−2.1	
			LN	Ms=5.0	14.0	0.30
			LE		14.0	0.40
LZH	58.9	319	eP	14 35 27.0	−0.6	
GTA	63.4	320	P	14 35 57.0	−1.2	

			LE	Ms=4.9	39.0		1.08
WMQ	73.4	319	eP	14 37 03.5	3.0		

1987 2 9
O=17 07 04.0 ± 0.07s
LAT= 5.54 S ± 0.84km
LONG=148.10 E ± 2.30km
DEPTH= 42 km ± 0.60km
STATIONS USED = 45, STAND DEV= 1.06s

GZH	44.3	311	eP	17 15 12.5	0.5		
SSE	44.6	326	eP	17 15 14.5	0.2		
QZN	44.9	304	eP	17 15 16.6	−0.2		
NJ2	46.6	325	eP	17 15 30.0	−0.4		
WHN	48.3	320	eP	17 15 44.0	0.6		
GYA	51.2	310	P	17 16 06.0	0.0		
KMI	53.6	307	−P	17 16 24.5	0.5		
XAN	54.0	320	eP	17 16 25.6	−1.4		
BJI	54.0	330	eP	17 16 26.5	−0.5		
CD2	55.8	313	P	17 16 38.4	−1.1		
LZH	58.6	319	eP	17 16 59.5	−0.2		
GTA	63.1	320	+iP	17 17 29.7	−0.7		
LSA	64.9	306	P	17 17 40.8	−1.3		
WMQ	73.2	319	P	17 18 33.0	0.0		

1987 2 9
O=18 17 28.5 ± 0.20s
LAT= 5.98 S ± 2.14km
LONG=147.96 E ± 3.32km
DEPTH= 31 km ± 0.43km
STATIONS USED = 91, STAND DEV= 1.73s
Ms=5.7/37, m_B=5.7/12

QZH	42.0	318	eP	18 25 18.5	−0.2		
			pP	18 25 24.0	−3.6		
			S	18 31 32.0	−2.5		
			LN	Ms=5.9		22.0	5.68
			LE			22.0	8.33
GZH	44.5	312	eP	18 25 42.3	3.1		
			sP	18 25 48.0	−3.9		
			S	18 32 12.5	1.4		
			SMN			14.0	2.20
			SME			9.0	0.72
			LN	Ms=6.1		20.0	11.6
			LE			21.0	7.20
SSE	44.9	327	P	18 25 41.0	−1.3		
			pP	18 25 46.2	−5.1		
			cPP	18 27 32.0	3.9		
			S	18 32 18.0	1.2		
			SME	m_B=5.6		8.0	0.71
			sS	18 32 31.0	−1.7		
			eScS	18 35 32.0	−2.2		
			SS	18 35 37.0	6.2		
			LN	Ms=5.5		13.0	1.18
			LE			18.0	2.57
QZN	45.0	304	eP	18 25 44.7	1.2		
			cPP	18 27 30.0	0.7		
			eS	18 32 26.0	6.0		
			sS	18 32 37.5	2.7		
			LN	Ms=5.5		17.0	3.00
			LE			17.0	1.50
NJ2	46.9	326	eP	18 25 57.0	−1.3		
			iS	18 32 49.5	2.9		
			LE	Ms=5.8		14.0	4.30
WHN	48.5	320	P	18 26 13.0	2.0		
			sP	18 26 21.0	−2.8		
			S	18 33 08.0	−0.6		
			SME	m_B=6.3		9.0	3.50
			LN	Ms=5.4		14.0	1.80
DL2	50.9	334	eP	18 26 31.0	1.8		
			eS	18 33 44.0	1.5		
TIA	51.0	328	eP	18 26 29.0	−0.8		
			S	18 33 45.0	2.6		
			LN	Ms=6.3		15.0	9.61
			LE			15.0	9.36
GYA	51.4	311	P	18 26 34.4	1.3		
			pP	18 26 40.0	−1.9		
			sP	18 26 44.0	−1.7		
			S	18 33 50.0	1.7		
			LN	Ms=5.7		18.0	2.30
			LE			18.0	3.20
SNY	52.5	337	+P	18 26 41.6	0.1		
			iS	18 34 05.0	−0.1		
			SMN			22.0	2.00
			SME			28.0	3.18
			LN	Ms=5.4		28.0	1.83
			LE			30.0	2.89
MDJ	53.0	344	eP	18 26 45.5	0.4		
			sP	18 26 54.0	−3.9		
			S	18 34 14.0	3.6		
CN2	53.6	340	+P	18 26 49.0	−0.2		
			PMZ	m_B=5.8		5.0	0.70
			sP	18 26 57.0	−5.1		
			S	18 34 17.0	−1.0		
			SME			20.0	2.40
			sS	18 34 29.0	−5.2		
			eSS	18 37 56.0	−1.6		
KMI	53.7	307	+P	18 26 55.5	4.7		
			pP	18 27 02.0	2.3		
			eS	18 34 28.0	5.9		
			LN	Ms=5.5		20.0	3.00
XAN	54.3	320	+P	18 26 52.9	−1.6		

			PcP	18 28 02.0	4.3		
			SME	$m_B = 5.6$		10.0	0.85
			LN	Ms = 5.6		14.0	2.50
BJI	54.3	330	eP	18 26 54.0	−1.0		
			eS	18 34 28.0	−1.8		
			SMN	$m_B = 5.6$		8.0	0.27
			SME			8.0	0.57
			LN	Ms = 5.7		18.0	3.10
			LE			17.0	1.55
TIY	54.6	326	eP	18 26 57.2	0.1		
			sP	18 27 07.0	−2.9		
			S	18 34 34.5	2.2		
			SME	$m_B = 5.6$		6.0	0.50
			sS	18 34 47.0	−1.4		
			LN	Ms = 5.8		19.0	4.03
			LE			19.0	3.51
CD2	55.9	314	eP	18 27 05.4	−1.3		
			S	18 34 50.0	0.0		
			LN	Ms = 6.0		18.0	5.41
			LE			22.0	4.48
HHC	57.3	328	eP	18 27 15.6	−1.0		
			S	18 35 12.0	3.8		
			LN	Ms = 5.7		15.0	2.01
			LE			15.0	2.19
BTO	58.0	326	eP	18 27 18.4	−2.8		
			pP	18 27 25.0	−5.1		
			ePP	18 29 27.0	−3.5		
			S	18 35 12.0	−4.8		
			LN	Ms = 5.7		18.0	2.90
			LE			15.0	1.40
LZH	58.8	319	P	18 27 28.0	0.9		
			S	18 35 30.0	2.2		
			SME	$m_B = 5.7$		10.0	0.94
			LN	Ms = 5.7		16.0	2.81
GTA	63.3	320	P	18 27 56.5	−1.2		
			iS	18 36 28.0	1.2		
			SME			22.0	1.57
			LN	Ms = 5.8		42.0	7.22
			LE			18.0	1.18
WMQ	73.4	319	P	18 28 59.0	−1.2		
			pP	18 29 04.0	−5.1		
			sP	18 29 08.0	−5.0		
			PP	18 31 44.2	−0.7		
			S	18 38 28.0	3.1		
			SS	18 43 12.0	2.2		
KSH	80.1	312	eP	18 29 40.0	2.3		
			eS	18 39 46.0	6.8		
			SME	$m_B = 6.0$		6.0	0.70
			LE	Ms = 6.0		10.0	2.10

1987 2 9
O = 19 30 17.1 ± 0.09s
LAT = 35.27 N ± 0.85km
LONG = 110.99 E ± 0.74km
DEPTH = 12 km ± 0.09km
STATIONS USED = 9, STAND DEV = 3.68s
M_L = 2.9 / 8,

XAN	2.1	235	Pg	19 30 53.5	−0.8		
			Sg	19 31 20.5	−2.5		
			SMN	$M_L = 2.4$		0.8	0.040
			SME			0.6	0.020
TIY	2.7	25	ePg	19 31 06.2	1.3		
			Sg	19 31 41.7	0.0		
			SMN	$M_L = 2.7$		0.4	0.030
			SME			0.4	0.040

1987 2 9
O = 20 30 20.9 ± 0.19s
LAT = 6.47 S ± 1.77km
LONG = 147.96 E ± 2.67km
DEPTH = 46 km ± 1.03km
STATIONS USED = 52, STAND DEV = 1.94s
Ms = 5.1 / 6,

SSE	45.3	327	eP	20 38 39.0	2.6		
			PMZ			1.2	0.020
			epP	20 38 45.5	−2.7		
			LN	Ms = 5.1		18.0	1.17
NJ2	47.3	326	eP	20 38 52.0	−0.3		
WHN	48.9	321	eP	20 39 07.0	2.3		
SNY	53.0	337	eP	20 39 34.0	−1.7		
			eS	20 46 55.0	−5.3		
			LN	Ms = 5.2		26.0	1.21
			LE			28.0	1.24
MDJ	53.5	344	eP	20 39 40.5	1.1		
CN2	54.0	340	eP	20 39 44.0	0.6		
			eS	20 47 14.0	−0.5		
KMI	54.0	307	eP	20 39 46.0	2.2		
XAN	54.7	320	eP	20 39 46.5	−1.5		
BJI	54.8	330	eP	20 39 47.0	−1.9		
TIY	55.0	326	−P	20 39 52.0	1.2		
			S	20 47 31.5	4.7		
			LN	Ms = 4.9		18.0	0.54
CD2	56.3	314	eP	20 40 00.8	0.9		
LZH	59.2	319	eP	20 40 24.0	3.6		
GTA	63.7	320	P	20 40 48.6	−2.2		
WMQ	73.8	319	eP	20 41 53.3	0.3		

1987 2 9
O = 22 42 58.5 ± 0.11s
LAT = 12.90 N ± 1.83km

LONG = 144.26 E ± 2.27km
DEPTH = 107 km ± 0.31km
STATIONS USED = 78, STAND DEV = 1.28s
m_B = 5.2 / 8

QZH	27.0	300	eP	22 48 35.0	2.2		
			eS	22 53 00.0	−0.9		
			SME	m_B = 5.2		5.0	0.45
			sS	22 53 38.0	−3.4		
SSE	27.9	314	eP	22 48 44.5	3.5		
			PP	22 49 31.0	−3.6		
			eS	22 53 15.0	−0.6		
			LN			10.0	0.44
			LE			10.0	0.62
NJ2	30.1	313	eP	22 49 01.5	1.0		
			S	22 53 50.0	0.6		
			LN			10.0	0.80
WHN	32.7	307	P	22 49 24.0	0.7		
			eS	22 54 30.0	−1.1		
			SME	m_B = 4.9		8.0	0.30
			sS	22 55 12.0	−0.5		
			LN			10.0	0.54
DL2	32.8	326	eP	22 49 22.7	−0.9		
			eS	22 54 25.0	−6.7		
QZN	33.6	285	eP	22 49 31.0	0.1		
			pP	22 49 53.5	−1.2		
			sP	22 50 05.0	−2.6		
			eS	22 54 44.0	−0.9		
			sS	22 55 24.0	−2.3		
			eSS	22 56 56.0	0.5		
TIA	33.7	318	eP	22 49 31.3	−0.2		
			eS	22 54 44.0	−1.9		
			SMN	m_B = 5.3		8.5	0.45
			SME			8.5	0.52
			esS	22 55 25.0	−2.3		
			LN			14.0	0.89
MDJ	34.0	341	eP	22 49 35.0	0.6		
			PcP	22 52 10.5	0.9		
			S	22 54 48.0	−2.2		
			ScP	22 55 46.0	2.7		
CN2	34.8	336	eP	22 49 40.0	−1.0		
			epP	22 50 04.0	−1.0		
			eS	22 54 58.0	−5.1		
BJI	36.6	323	eP	22 49 56.0	−0.5		
			esP	22 50 29.0	−4.5		
			eS	22 55 28.0	−3.2		
			SMN	m_B = 5.2		8.0	0.27
			SME			6.0	0.29
TIY	37.6	317	eP	22 50 05.5	0.6		
			S	22 55 45.5	0.1		
			LN			14.0	0.74
			LE			13.0	0.49
GYA	37.7	297	P	22 50 07.0	1.0		
			pP	22 50 30.0	0.0		
			PcP	22 52 22.4	1.7		
			S	22 55 50.0	2.8		
			SME	m_B = 5.4		8.0	0.70
			ScP	22 55 59.2	2.4		
			sS	22 56 31.0	0.8		
			ScS	23 00 08.0	3.5		
XAN	38.4	309	eP	22 50 11.0	−0.1		
			pP	22 50 33.5	−1.8		
			PcP	22 52 23.8	1.1		
			S	22 55 53.0	−3.7		
			SME	m_B = 5.1		10.0	0.42
			sS	22 56 33.0	−6.8		
			ScS	23 00 09.0	0.9		
HHC	39.9	320	eP	22 50 24.8	0.7		
			S	22 56 17.5	−2.5		
			LN			12.0	0.29
BTO	40.7	319	+P	22 50 31.2	0.3		
			pP	22 50 55.5	0.4		
			eS	22 56 32.0	−1.6		
			LN			14.0	0.40
			LE			14.0	0.40
KMI	40.9	293	eP	22 50 34.0	1.4		
			pP	22 50 57.0	0.4		
			eS	22 56 38.0	1.4		
			sS	22 57 16.0	−2.5		
			LN			16.0	0.70
CD2	41.4	302	P	22 50 34.0	−1.8		
			pP	22 50 59.0	−1.1		
			S	22 56 39.0	−2.4		
			LN			11.0	1.01
LZH	43.0	310	+iP	22 50 50.5	1.1		
			PMZ			1.5	0.070
GTA	47.2	312	+P	22 51 22.6	−0.2		
			pP	22 51 46.0	−1.4		
			PcP	22 52 53.7	1.5		
			ScP	22 56 35.9	1.3		
			S	22 58 03.9	−1.7		
			SME	m_B = 5.2		7.0	0.24
			ScS	23 01 04.0	1.7		
			LN			26.0	1.09
			LE			12.0	0.27
LSA	51.8	298	eP	22 51 56.0	−2.3		
WMQ	57.2	314	−P	22 52 37.2	0.0		
			PMZ			1.2	0.050
			pP	22 53 01.0	−1.6		
			sP	22 53 10.2	−4.7		
			S	23 00 25.0	3.5		

			ScS	23 02 12.5	1.1			
KSH	65.2	308	P	22 53 33.0	1.8			
			pP	22 53 56.0	−1.1			
			sP	22 54 07.0	−2.3			
			S	23 02 06.0	2.9			

1987 2 10
O = 00 59 29.8 ± 0.11s
LAT = 19.37 S ± 1.98km
LONG = 177.38 W ± 1.03km
DEPTH = 406 km ± 1.34km
STATIONS USED = 90, STAND DEV = 0.79s
m_B = 6.4 / 57

QZH	76.3	303	−iP	01 10 37.5	0.1			
			PMZ	m_B = 6.7		4.0	7.24	
			pP	01 12 07.0	−0.3			
			sP	01 12 48.0	−0.8			
			PP	01 13 33.0	−3.2			
			iS	01 19 48.5	0.1			
			SMN	m_B = 5.6		8.0	1.79	
			ScS	01 20 12.5	1.3			
SSE	77.4	309	+iP	01 10 43.0	−0.6			
			PMZ			1.0	0.54	
			pP	01 12 12.0	−1.7			
			sP	01 12 53.0	−2.3			
			PP	01 13 45.0	−0.4			
			iS	01 20 00.0	−0.4			
			SMN	m_B = 5.5		8.0	1.26	
			eSKS	01 20 14.0	1.7			
			ScS	01 20 19.0	−1.3			
			eSS	01 25 10.0	−0.8			
NJ2	79.6	309	−iP	01 10 55.5	0.2			
			PMZ	m_B = 6.9		4.5	10.1	
			pP	01 12 24.0	−1.9			
			sP	01 13 05.0	−2.4			
			iS	01 20 23.5	0.1			
			SMN	m_B = 6.2		7.5	6.30	
			sS	01 23 03.0	1.0			
GZH	79.7	299	−iP	01 10 56.8	1.2			
			PMZ	m_B = 6.8		5.0	10.0	
			pP	01 12 27.0	0.7			
			sP	01 13 07.0	−0.8			
			PP	01 14 00.0	−3.9			
			SMN	m_B = 6.0		6.0	1.48	
			SME			7.0	3.00	
			sS	01 23 05.0	2.2			
MDJ	79.9	325	−iP	01 10 57.0	0.0			
			PMZ	m_B = 6.8		4.0	8.46	
			pP	01 12 31.0	3.3			
			sP	01 13 12.5	3.4			
			iS	01 20 32.0	5.2			
			SMN	m_B = 6.7			6.0	15.3
QZN	80.9	294	−iP	01 11 02.5	0.3			
			PMZ	m_B = 6.5			6.0	5.40
			pP	01 12 34.0	0.9			
			sP	01 13 16.0	1.5			
			PP	01 14 15.0	0.1			
			S	01 20 38.5	3.2			
			SMN	m_B = 5.8			7.0	1.00
			SME				7.0	1.90
DL2	81.3	316	−iP	01 11 04.0	−0.2			
			PMZ	m_B = 6.1			5.0	1.90
			PP	01 14 14.0	−4.0			
			iS	01 20 42.0	1.2			
			SMN	m_B = 6.1			8.0	3.50
			SME				8.0	3.50
			SS	01 26 08.0	−0.6			
SNY	81.7	320	−iP	01 11 06.0	−0.3			
			PMZ	m_B = 6.7			5.0	6.70
			sP	01 13 18.0	−0.7			
			iS	01 20 41.5	−3.4			
			SMN	m_B = 6.3			8.5	7.15
			SME				10.0	2.57
CN2	81.8	322	−iP	01 11 06.0	−0.5			
			PMZ	m_B = 6.8			5.0	8.50
			pP	01 12 38.0	0.4			
			sP	01 13 18.0	−0.9			
			S	01 20 43.0	−0.6			
			SMN	m_B = 6.4			7.0	7.70
			sS	01 23 29.0	4.2			
WHN	82.3	306	−iP	01 11 09.5	0.6			
			PMZ				1.5	4.13
			pP	01 12 36.0	−4.2			
			sP	01 13 21.0	−0.4			
			PP	01 14 24.0	−1.3			
			S	01 20 50.0	1.5			
			SMN	m_B = 6.0			9.0	3.90
			sS	01 23 36.0	6.1			
			SS	01 26 25.0	2.4			
TIA	83.0	312	−P	01 11 12.3	−0.2			
			pP	01 12 45.0	1.2			
			sP	01 13 23.0	−2.1			
			S	01 20 55.0	−0.5			
			SMN	m_B = 6.2			9.0	5.03
			SME				8.0	3.74
			sS	01 23 38.0	0.8			
BJI	85.5	315	−iP	01 11 25.0	−0.1			
			epP	01 12 54.0	−3.0			
			esP	01 13 34.0	−4.1			
			eSKS	01 21 09.0	0.9			

			eS	01 21 26.0	4.1		
			SMN	m_B=6.0		7.0	2.93
GYA	86.6	299	−P	01 11 31.0	0.5		
			PMZ			3.0	6.60
			pP	01 13 05.0	2.5		
			sP	01 13 47.0	3.4		
			PP	01 14 57.0	−3.4		
			SKS	01 21 19.0	3.7		
			S	01 21 31.0	0.5		
			SMN	m_B=6.4		7.0	2.80
			SME			7.0	6.00
			ScS	01 21 36.0	0.3		
TIY	87.0	312	−iP	01 11 32.0	−0.2		
			PMZ			1.4	1.67
			pP	01 13 05.5	1.2		
			sP	01 13 44.5	−0.9		
			SKS	01 21 20.5	2.9		
			S	01 21 40.5	6.7		
			SMN	m_B=6.1		8.0	3.28
			SME			10.0	1.13
			sS	01 24 21.0	3.5		
XAN	87.9	307	−iP	01 11 37.1	0.4		
			PMZ	m_B=6.7		5.0	7.11
			pP	01 13 10.0	0.9		
			sP	01 13 50.0	0.0		
			PP	01 15 10.0	−1.1		
			SKS	01 21 25.0	1.4		
			SMN	m_B=6.4		8.0	5.68
			SME			7.0	3.43
HHC	89.0	314	−iP	01 11 42.0	0.2		
			PMZ			2.0	2.05
			pP	01 13 17.0	2.7		
			SKS	01 21 33.0	2.9		
			S	01 21 59.0	6.6		
			SMN	m_B=6.6		7.0	6.24
			SME			6.0	5.50
KMI	89.4	297	−iP	01 11 45.0	1.4		
			PMZ	m_B=6.7		4.0	5.30
			pP	01 13 18.0	1.9		
			sP	01 14 00.0	3.0		
			iSKS	01 21 35.0	2.6		
			SMN	m_B=5.9		7.0	1.38
			SME			7.0	0.91
BTO	89.9	313	−iP	01 11 46.0	−0.1		
			PMZ	m_B=6.5		5.0	4.00
			pP	01 13 21.0	2.1		
			sP	01 13 58.0	−1.7		
			ePP	01 15 32.0	5.0		
			SKS	01 21 36.5	0.7		
			iS	01 22 06.0	3.3		
CD2	90.7	303	−iP	01 11 50.0	0.5		
			PMZ	m_B=6.5		5.0	3.94
			sP	01 14 06.0	2.8		
			SKS	01 21 40.0	−0.1		
			S	01 22 14.0	6.7		
			SMN	m_B=6.6		9.0	8.79
			SME			10.0	4.83
LZH	92.6	307	−iP	01 11 59.5	1.1		
			PMZ			2.0	0.95
			pP	01 13 31.0	−0.1		
			sP	01 14 12.0	0.0		
			SKS	01 21 46.6	−4.0		
			SMN	m_B=6.4		9.0	6.06
GTA	96.7	309	−iP	01 12 16.8	−0.5		
			PMZ			2.5	1.14
			pP	01 13 52.8	2.6		
			sP	01 14 29.0	−2.0		
			PP	01 16 19.2	−0.4		
			SKS	01 22 12.1	−0.4		
			SKKS	01 22 39.5			
			S	01 23 05.5	6.5		
			SMN	m_B=5.6		7.0	1.04
LSA	100.6	298	P	01 12 34.0	−1.0		
			iSKS	01 22 32.0	0.0		
			LE			6.0	3.32
WMQ	106.6	311	P	01 13 00.0	−1.2		
KSH	114.7	305	−PKP	01 17 25.0	1.1		
			PP	01 18 29.0	−3.1		

1987 2 10

O = 02 09 17.4 ± 0.37s
LAT = 27.96 S ± 6.29km
LONG = 176.54 W ± 2.94km
DEPTH = 49 km ± 1.20km
STATIONS USED = 38, STAND DEV = 1.16s
Ms = 5.4 / 1,

NJ2	85.7	310	eP	02 21 52.5	−0.4	
MDJ	87.4	325	eP	02 22 02.0	0.7	
DL2	88.0	317	eP	02 22 05.6	1.1	
SNY	88.7	320	+P	02 22 08.0	0.1	
CN2	89.0	322	+P	02 22 08.8	−0.3	
TIA	89.3	312	+P	02 22 10.8	0.4	
			LN	Ms = 5.4	11.0	0.30
			LE		11.0	0.39
GYA	91.5	299	P	02 22 21.8	1.0	
BJI	92.1	315	eP	02 22 23.0	−0.6	
TIY	93.2	311	eP	02 22 29.7	0.9	
XAN	93.7	307	eP	02 22 31.0	0.2	
KMI	93.9	296	eP	02 22 33.5	1.6	
CD2	95.9	302	eP	02 22 41.4	0.5	

1987 2 10
O=02 48 57.5 ± 0.10s
LAT= 3.12 N ± 2.40km
LONG= 79.29 W ± 1.79km
DEPTH= 28 km ± 0.65km
STATIONS USED = 28, STAND DEV= 1.69s

GTA	137.7	1	PKP	03 08 21.0	0.4		
XAN	142.2	349	ePKP	03 08 28.7	0.1		
CD2	146.0	355	ePKP	03 08 36.0	0.8		
GYA	150.0	349	+PKP	03 08 47.4	5.6		

1987 2 10
O=05 55 18.9 ± 0.11s
LAT=42.83 N ± 2.79km
LONG=147.72 E ± 1.87km
DEPTH= 10 km ± 1.48km
STATIONS USED = 79, STAND DEV= 2.07s
Ms=4.3/ 9, m_B=5.3/ 2

MDJ	13.2	284	−P	05 58 30.0	0.2		
			pP	05 58 39.5	5.2		
			S	06 00 56.0	−1.7		
			LN	Ms=4.2	16.0	1.0	4.04
CN2	16.2	281	−P	05 59 05.5	−3.5		
SNY	17.9	275	−P	05 59 27.8	−1.8		
			S	06 02 40.0	−6.0		
			LN	Ms=4.3	30.0	1.4	7
DL2	20.1	268	P	05 59 54.0	−1.8		
			S	06 03 35.0	−0.6		
BJI	23.7	274	eP	06 00 31.5	−1.0		
			eS	06 04 42.0	−2.5		
SSE	24.1	250	eP	06 00 36.0	−0.1		
			sP	06 00 47.0	2.5		
			eS	06 04 50.0	−0.9		
			sS	06 05 00.0	0.2		
			LE	Ms=4.6	20.0	1.1	5
TIA	24.4	265	eP	06 00 38.0	−1.1		
			esP	06 00 48.0	0.6		
			S	06 05 01.5	6.1		
			LN	Ms=4.2	14.0	0.3	7
NJ2	25.2	254	+P	06 00 47.6	1.0		
			S	06 05 05.0	−3.6		
			LN	Ms=4.9	18.0	2.1	0
HHC	26.9	278	eP	06 01 03.0	0.6		
TIY	27.3	271	eP	06 01 05.5	−0.4		
			S	06 05 38.5	−4.2		
			SMN	m_B=5.3	9.0	0.4	6
			SME		6.0	0.3	0
BTO	28.1	278	P	06 01 12.0	−1.3		
			pP	06 01 19.5	0.9		
			PP	06 02 02.0	−0.5		
			eS	06 05 53.0	−3.7		
WHN	29.2	256	eP	06 01 28.5	4.9		
XAN	31.4	267	eP	06 01 40.2	−2.6		
			pP	06 01 47.5	−0.8		
LZH	34.2	274	−iP	06 02 06.5	−1.1		
			PMZ			1.0	0.10
GTA	35.9	281	P	06 02 19.8	−1.8		
			sP	06 02 30.4	0.7		
CD2	36.7	266	eP	06 02 26.3	−2.5		
GYA	37.1	257	eP	06 02 29.4	−2.6		
WMQ	42.8	293	−P	06 03 18.5	−0.8		
KSH	52.6	292	eP	06 04 35.0	−0.9		
			eS	06 11 57.0	−5.0		

1987 2 10
O=08 25 11.7 ± 0.11s
LAT= 9.27 N ± 1.81km
LONG=126.36 E ± 2.31km
DEPTH= 33 km ± 0.20km
STATIONS USED = 50, STAND DEV= 1.60s

GZH	18.5	319	−P	08 29 29.5	1.5		
QZN	18.7	303	eP	08 29 30.6	0.7		
			eS	08 32 57.5	3.3		
			sS	08 33 08.0	1.9		
SSE	22.2	348	P	08 30 07.5	0.1		
			PMZ			1.0	0.02
			esP	08 30 22.0	1.7		
			S	08 34 08.1	3.3		
NJ2	23.7	344	+P	08 30 23.0	1.2		
			S	08 34 36.0	5.0		
WHN	23.9	334	eP	08 30 25.0	0.9		
GYA	25.3	315	eP	08 30 37.6	0.3		
TIA	28.1	344	eP	08 31 00.0	−3.0		
XAN	29.4	330	eP	08 31 12.2	−2.4		
BJI	32.0	345	eP	08 31 36.0	−1.2		
SNY	32.5	356	−P	08 31 42.3	0.2		
CN2	34.4	359	eP	08 31 56.0	−2.4		
			epP	08 32 06.0	−1.6		
MDJ	35.3	4	eP	08 32 09.0	2.7		
GTA	38.2	326	P	08 32 29.6	−1.4		
			PcP	08 34 44.9	0.2		
			ScP	08 38 26.8	−1.8		
LSA	38.7	307	−P	08 32 33.8	−1.1		
WMQ	48.0	323	P	08 33 50.0	−0.5		

1987 2 10
O=12 21 58.8 ± 0.38s
LAT= 5.99 S ± 2.61km
LONG=147.95 E ± 5.09km

DEPTH = 38 km ± 1.75km
STATIONS USED = 62, STAND DEV = 3.25s
Ms = 4.9 / 5,

SSE	44.9	327	eP	12 30 13.5	1.7			
			eS	12 36 49.0	2.5			
			eSS	12 40 00.0	0.2			
			eScS	12 40 08.0	5.4			
			LE	Ms = 4.7		12.0	0.33	
NJ2	46.9	326	eP	12 30 27.5	−0.3			
			LE	Ms = 4.9		15.0	0.70	
WHN	48.5	320	eP	12 30 40.5	0.0			
			LE	Ms = 4.7		12.0	0.33	
DL2	50.9	334	eP	12 30 59.0	0.3			
TIA	51.0	328	eP	12 30 56.9	−2.4			
			eS	12 38 06.0	−6.2			
			LN	Ms = 5.2		15.0	0.88	
			LE			15.0	0.85	
GYA	51.4	311	P	12 31 06.0	3.4			
MDJ	53.0	344	eP	12 31 14.5	−0.1			
			S	12 38 40.0	0.9			
CN2	53.6	340	+P	12 31 17.0	−1.7			
XAN	54.3	320	eP	12 31 21.4	−2.6			
BJI	54.4	330	eP	12 31 21.0	−3.5			
TIY	54.6	326	eP	12 31 27.0	0.4			
			LN	Ms = 5.1		18.0	0.72	
			LE			15.0	0.38	
CD2	55.9	314	eP	12 31 39.8	3.7			
BTO	58.0	326	eP	12 31 48.0	−2.6			
LZH	58.8	319	eP	12 31 54.5	−2.1			
GTA	63.3	320	P	12 32 25.0	−2.1			
LSA	65.0	307	P	12 32 35.8	−2.4			
WMQ	73.4	319	eP	12 33 28.5	−1.1			

1987 2 10
O = 12 28 14.4 ± 0.10s
LAT = 54.31 S ± 4.92km
LONG = 119.80 W ± 3.60km
DEPTH = 10 km
STATIONS USED = 16, STAND DEV = 2.01s

LZH	145.0	257	ePKP	12 47 51.5	−1.7			
GTA	149.6	257	ePKP	12 48 03.5	2.7			

1987 2 10
O = 16 23 49.1 ± 0.08s
LAT = 35.73 N ± 1.99km
LONG = 142.93 E ± 1.93km
DEPTH = 22 km ± 0.72km
STATIONS USED = 81, STAND DEV = 1.47s
Ms = 4.7 / 22, m_B = 5.4 / 4

MDJ	13.5	315	eP	16 27 03.0	0.7			
			S	16 29 34.0	1.7			
CN2	15.7	306	eP	16 27 30.0	−0.4			
			sP	16 27 37.0	−3.4			
			eS	16 30 24.0	0.4			
SNY	16.3	298	+P	16 27 37.0	−1.1			
			eS	16 30 40.0	2.3			
			LN	Ms = 4.7		14.0	1.65	
			LE			16.0	1.97	
DL2	17.2	287	P	16 27 49.0	−1.4			
			S	16 31 06.0	6.4			
			LE	Ms = 4.7		14.0	1.84	
SSE	18.7	262	eP	16 28 06.5	−2.3			
			eS	16 31 33.0	−0.8			
			esS	16 31 38.0	−5.8			
			SS	16 31 57.0	−0.8			
			LN	Ms = 4.6		16.0	1.16	
			LE			11.0	0.50	
NJ2	20.3	267	+P	16 28 25.4	−1.2			
			LN	Ms = 4.7		11.0	1.20	
TIA	20.9	279	−P	16 28 30.9	−1.7			
			esP	16 28 38.0	−5.1			
			eS	16 32 22.0	2.3			
			LN	Ms = 4.7		16.0	1.66	
BJI	21.5	290	eP	16 28 37.5	−1.6			
			eS	16 32 30.0	−1.8			
			SME	m_B = 5.3		7.0	0.86	
WHN	24.4	266	P	16 29 08.5	0.7			
			pP	16 29 12.5	−2.5			
			eS	16 33 24.0	0.0			
			sS	16 33 30.0	−5.7			
			LN	Ms = 4.8		15.0	1.43	
TIY	24.5	284	eP	16 29 08.5	0.2			
			pP	16 29 12.0	−3.3			
			sP	16 29 15.5	−3.2			
			PP	16 29 38.0	−5.4			
			S	16 33 27.0	3.1			
			SMN	m_B = 5.6		7.0	0.56	
			SME			8.0	1.37	
			LN	Ms = 4.7		15.0	0.77	
			LE			16.0	0.90	
HHC	25.1	291	eP	16 29 14.2	0.2			
			LN	Ms = 4.6		13.0	0.30	
			LE			14.0	0.80	
BTO	26.2	291	eP	16 29 25.0	0.0			
			eS	16 33 55.0	0.8			
			LN	Ms = 4.7		14.0	0.50	
			LE			15.0	0.80	
XAN	27.9	277	eP	16 29 40.8	0.9			
			sP	16 29 48.5	−1.9			
			eS	16 34 22.0	1.4			

			LE	Ms=4.4		14.0	0.47
LZH	31.5	282	eP	16 30 13.0	0.5		
GYA	32.3	264	P	16 30 18.4	−0.4		
			S	16 35 31.0	2.0		
CD2	32.9	273	eP	16 30 25.2	0.5		
QZN	33.6	249	eP	16 30 31.8	1.8		
GTA	34.1	289	+P	16 30 36.0	0.8		
KMI	36.0	264	eP	16 30 51.0	−0.3		
WMQ	42.5	298	eP	16 31 48.0	2.7		
LSA	43.6	277	P	16 31 55.4	1.2		
KSH	52.1	295	P	16 33 02.0	1.7		

1987 2 10
O=17 22 43.5 ± 0.14s
LAT=27.40 N ± 1.72km
LONG=126.59 E ± 2.01km
DEPTH= 22 km ± 0.46km
STATIONS USED = 87, STAND DEV= 2.12s
Ms=5.2/ 38, M_L=5.1/ 2, m_B=5.2/ 5

SSE	6.0	309	eP	17 24 12.0	−1.3		
QZH	7.6	253	eP	17 24 34.0	−1.9		
			eS	17 26 00.0	−2.0		
			LN	Ms=5.0		11.0	8.64
			LE			9.0	7.69
NJ2	8.2	306	eP	17 24 39.5	−4.4		
			LN	Ms=5.4		11.0	24.4
WHN	11.2	289	eP	17 25 24.5	−0.8		
			LN	Ms=5.3		7.0	7.76
			LE			6.0	2.92
TIA	11.9	320	eP	17 25 33.6	−1.8		
			LN	Ms=5.2		12.0	7.54
			LE			12.0	5.08
DL2	12.2	341	eP	17 25 38.0	−1.3		
			eS	17 27 50.0	−5.8		
			LN	Ms=5.0		14.0	5.40
			LE			14.0	3.70
GZH	12.7	253	eP	17 25 47.0	0.6		
			eS	17 28 08.5	−0.1		
			LN	Ms=5.2		12.0	5.62
			LE			11.0	6.42
SNY	14.6	351	+P	17 26 12.0	0.9		
			eS	17 28 54.0	0.6		
			LN	Ms=5.1		16.0	1.65
			LE			16.0	7.55
BJI	15.3	328	eP	17 26 20.0	0.0		
			PMZ	m_B=5.2		4.0	0.42
			eS	17 29 10.0	0.6		
			LN	Ms=4.6		13.0	1.89
TIY	15.7	314	P	17 26 27.5	1.5		
			LN	Ms=5.1		12.0	2.94
			LE			11.0	3.93
CN2	16.4	357	+P	17 26 35.0	0.8		
			sP	17 26 41.0	−3.2		
			eS	17 29 36.0	0.7		
XAN	16.6	298	eP	17 26 38.5	2.0		
			PP	17 26 53.5	3.7		
			LN	Ms=5.3		14.0	7.82
			LE			16.0	3.81
MDJ	17.4	7	eP	17 26 49.5	3.2		
			LE	Ms=5.3		12.0	6.99
QZN	17.5	245	P	17 26 49.0	1.0		
			sP	17 27 03.0	4.9		
			eS	17 29 58.0	−2.5		
			LN	Ms=5.0		13.0	2.60
			LE			13.0	2.20
GYA	17.8	272	P	17 26 57.0	5.0		
			S	17 30 09.0	2.2		
			LN	Ms=5.2		12.0	4.30
			LE			12.0	3.30
HHC	18.3	321	+P	17 26 59.0	1.2		
			S	17 30 13.0	−4.3		
			LN	Ms=5.0		11.0	1.31
			LE			13.0	3.19
BTO	19.0	318	eP	17 27 06.0	−0.7		
			ePP	17 27 22.0	−0.5		
			eS	17 30 29.0	−5.6		
			LN	Ms=5.2		15.0	3.60
			LE			15.0	4.10
CD2	20.2	285	P	17 27 19.3	−1.2		
			S	17 31 06.0	4.9		
			LE	Ms=5.4		11.0	5.36
LZH	21.2	300	+iP	17 27 30.0	−0.1		
			PMZ			2.0	0.20
			PP	17 27 53.0	0.3		
			LN	Ms=5.4		14.0	6.03
			LE			14.0	2.95
KMI	21.5	269	−P	17 27 34.0	0.3		
			cS	17 31 24.0	−2.5		
			LN	Ms=5.3		14.0	5.50
GTA	25.3	305	+P	17 28 08.9	−1.5		
			SME			16.0	0.88
			LN	Ms=5.2		11.5	2.74
LSA	31.1	283	P	17 29 02.3	−1.6		
WMQ	35.2	308	+P	17 29 37.5	−1.6		
KSH	43.4	299	eP	17 30 48.0	1.0		

1987 2 10
O=17 51 45.3 ± 0.11s
LAT=36.04 N ± 2.52km
LONG=139.88 E ± 2.01km

DEPTH= 83 km ± 1.68km
STATIONS USED = 33, STAND DEV= 2.67s

MDJ	11.6	321	eP	17 54 33.0	3.2
CN2	13.5	309	eP	17 54 59.5	4.7
BJI	19.1	289	eP	17 56 05.5	1.5
XAN	25.4	275	eP	17 57 05.3	−1.4
GYA	29.8	261	P	17 57 48.8	1.5
GTA	31.7	288	eP	17 58 01.9	−1.7
WMQ	40.2	298	+P	17 59 16.0	0.5
KSH	49.7	294	P	18 00 35.9	4.4

1987 2 10
O=21 20 14.8 ± 0.05s
LAT=44.36 N ± 0.72km
LONG= 10.25 E ± 0.81km
DEPTH= 24 km ± 0.44km
STATIONS USED = 15, STAND DEV= 0.95s

XAN	72.6	59	eP	21 31 43.4	0.3
CN2	75.0	43	eP	21 31 55.6	−1.0
GYA	76.3	66	P	21 32 04.4	0.1

1987 2 10
O=23 03 00.9 ± 0.29s
LAT=21.89 S ± 4.41km
LONG=175.40 E ± 2.42km
DEPTH= 12 km ± 0.77km
STATIONS USED = 31, STAND DEV= 1.43s

MDJ	78.3	328	eP	23 15 03.0	−0.2
CN2	79.8	326	eP	23 15 10.6	−0.8
BJI	82.7	318	eP	23 15 26.0	−0.5
TIY	83.7	315	eP	23 15 31.0	−1.1
			S	23 25 53.0	0.9
XAN	84.2	310	eP	23 15 34.0	−0.3
HHC	86.0	317	eP	23 15 43.8	0.2
LZH	88.8	310	eP	23 15 57.5	0.4
GTA	93.2	311	P	23 16 16.2	−1.1

1987 2 11
O=00 06 33.4 ± 0.07s
LAT= 4.34 S ± 1.41km
LONG=126.62 E ± 2.19km
DEPTH= 35 km ± 0.18km
STATIONS USED = 18, STAND DEV= 1.24s

GYA	36.2	329	P	00 13 37.0	1.6
XAN	41.7	338	P	00 14 20.9	0.1
BJI	45.2	349	eP	00 14 48.0	−1.3
LSA	48.0	317	+P	00 15 12.2	0.4
MDJ	48.8	3	eP	00 15 18.5	0.8
GTA	50.1	333	eP	00 15 27.2	−0.4

1987 2 11
O=00 58 20.5 ± 0.07s
LAT=62.70 N ± 2.41km
LONG=157.02 E ± 1.48km
DEPTH= 8 km ± 0.09km
STATIONS USED = 34, STAND DEV= 1.13s
Ms=5.1/ 7, m_B=5.0/ 1

MDJ	24.0	234	eP	01 03 38.5	1.5		
			S	01 07 54.0	3.5		
CN2	26.3	239	eP	01 03 58.0	−0.7		
			cS	01 08 24.0	−5.6		
SNY	28.7	239	eP	01 04 19.1	−1.4		
			LE	Ms=4.9		13.0	1.24
BJI	33.2	246	eP	01 05 00.0	−0.6		
SSE	39.0	233	eP	01 05 51.0	1.2		
			cS	01 11 48.0	−1.1		
			LE	Ms=4.8		12.0	0.55
GTA	41.0	263	eP	01 06 06.0	−0.3		
			LE	Ms=5.4		14.0	2.30
XAN	41.4	249	eP	01 06 09.2	−0.2		
			LN	Ms=5.2		12.0	0.56
			LE			11.0	0.91
WMQ	43.1	278	eP	01 06 23.9	0.4		
CD2	46.3	252	eP	01 06 48.6	−0.6		

1987 2 11
O=01 14 40.9 ± 0.14s
LAT= 6.85 S ± 2.62km
LONG=147.18 E ± 2.62km
DEPTH= 25 km
STATIONS USED = 69, STAND DEV= 1.58s
Ms=5.2/ 6, m_B=5.7/ 2

GZH	44.5	313	eP	01 22 55.0	2.5		
			eS	01 29 26.0	−0.1		
QZN	44.9	306	−P	01 22 56.0	0.3		
SSE	45.2	328	eP	01 22 58.3	0.2		
			eS	01 29 33.0	−3.1		
			sS	01 29 50.0	0.7		
			SS	01 32 48.0	−1.6		
			LN	Ms=5.2		16.0	0.97
			LE			16.0	1.15
NJ2	47.2	327	eP	01 23 14.5	0.6		
			S	01 30 03.0	−0.5		
			LE	Ms=5.1		18.0	1.20
WHN	48.7	321	eP	01 23 23.0	−2.8		
TIA	51.3	329	eP	01 23 44.6	−1.0		
			LE	Ms=5.0		15.0	0.77
GYA	51.4	312	P	01 23 48.8	2.5		
			S	01 31 03.0	1.0		
MDJ	53.6	344	eP	01 24 03.5	0.5		

			S	01 31 26.0	−6.7		
CN2	54.1	341	eP	01 24 05.0	−1.6		
XAN	54.4	321	P	01 24 08.2	−0.9		
BJI	54.7	331	eP	01 24 10.0	−1.1		
TIY	54.9	326	eP	01 24 10.7	−1.8		
			LE	Ms = 5.1		17.0	0.80
CD2	56.0	315	eP	01 24 22.0	1.7		
HHC	57.6	328	eP	01 24 35.0	2.8		
BTO	58.3	327	eP	01 24 35.8	−0.8		
LZH	59.0	320	eP	01 24 39.5	−2.0		
GTA	63.5	320	P	01 25 11.3	−0.8		
LSA	64.9	307	+P	01 25 20.6	−0.9		
WMQ	73.5	319	eP	01 26 15.0	0.6		
			PMZ			1.3	0.030
			S	01 35 42.5	2.1		
KSH	80.0	312	eP	01 26 53.0	1.9		

1987 2 11
O = 03 07 51.8 ± 0.12s
LAT = 5.52 S ± 1.77km
LONG = 148.36 E ± 5.39km
DEPTH = 39 km ± 0.57km
STATIONS USED = 32, STAND DEV = 1.99s

GZH	44.5	311	eP	03 15 57.5	−4.0		
SSE	44.7	326	eP	03 16 04.0	0.6		
MDJ	52.7	343	eP	03 17 01.0	−4.0		
BJI	54.2	330	eP	03 17 20.5	4.5		
XAN	54.2	319	−P	03 17 15.0	−1.2		
CD2	55.9	313	eP	03 17 28.1	−0.7		
LZH	58.7	318	eP	03 17 48.0	−0.9		
GTA	63.3	319	P	03 18 19.7	0.3		
WMQ	73.3	319	P	03 19 24.0	2.0		

1987 2 11
O = 06 12 53.7 ± 0.11s
LAT = 18.91 N ± 1.81km
LONG = 120.95 E ± 2.02km
DEPTH = 26 km ± 0.59km
STATIONS USED = 103, STAND DEV = 1.71s
Ms = 5.9 / 48, M_L = 5.0 / 5, m_B = 6.2 / 24

QZH	6.4	340	cPn	06 14 25.0	−1.7		
			LE	Ms = 5.5		16.0	80.9
GZH	8.2	302	eP	06 14 51.0	−3.5		
			LN	Ms = 5.5		17.0	36.6
			LE			18.0	44.0
QZN	10.5	272	eP	06 15 21.8	−4.2		
			LN	Ms = 5.9		12.5	42.8
			LE			13.0	52.2
SSE	12.1	1	+P	06 15 47.0	−1.1		
			pP	06 15 50.0	−4.3		
			sP	06 15 54.0	−4.6		
			S	06 17 57.0	−6.2		
			sS	06 18 08.0	−6.1		
			SS	06 18 16.0	−1.7		
			LN	Ms = 5.9		14.0	10.4
			LE			15.0	57.9
WHN	13.0	334	−iP	06 16 00.0	−0.2		
			sP	06 16 06.0	−4.8		
			LN	Ms = 5.9		12.0	28.3
			LE			14.0	39.3
NJ2	13.2	352	P	06 16 01.8	−0.8		
			pP	06 16 09.0	0.1		
			LE	Ms = 5.9		12.5	40.0
GYA	15.2	302	P	06 16 27.4	−0.9		
			sP	06 16 34.0	−4.8		
			S	06 19 16.5	1.0		
			SS	06 19 35.0	2.0		
			LN	Ms = 5.8		11.0	21.4
			LE			11.0	15.1
TIA	17.6	350	eP	06 17 01.6	3.0		
			PMZ	m_B = 6.3		6.0	9.45
			esP	06 17 08.5	−0.9		
			SMN	m_B = 6.5		8.0	11.8
			SME			10.0	16.6
			LN	Ms = 5.9		14.0	31.5
			LE			11.0	7.61
KMI	18.0	293	−P	06 17 04.5	0.5		
			PMZ	m_B = 6.2		6.0	6.40
			pP	06 17 08.0	−2.4		
			PP	06 17 19.0	1.0		
			eS	06 20 22.0	0.8		
			LE	Ms = 6.0		12.0	33.1
XAN	18.5	327	−iP	06 17 10.8	0.6		
			PMZ	m_B = 6.2		8.0	9.40
			SMN	m_B = 6.3		8.5	8.30
			SME			9.0	7.52
			LN	Ms = 6.0		12.0	24.4
			LE			14.0	16.9
CD2	19.6	311	−iP	06 17 23.8	0.5		
			PMZ	m_B = 6.4		7.0	12.9
			S	06 21 04.0	6.8		
			LE	Ms = 6.1		11.0	29.1
DL2	19.9	2	−iP	06 17 29.0	2.2		
			PMZ	m_B = 5.8		4.0	2.00
			pP	06 17 33.0	−1.1		
			S	06 21 04.0	−0.1		
			SMN	m_B = 6.3		10.0	9.00
			SME			10.0	9.00
			LN	Ms = 6.2		14.0	23.3
			LE			14.0	41.0

TIY	20.2	340	−iP	06 17 30.0	0.7		
			PMZ			1.0	0.23
			PP	06 17 50.5	2.0		
			S	06 21 15.5	6.8		
			SMN	m_B=6.3		6.0	5.08
			SME			7.0	7.20
			ePcP	06 21 48.0	5.4		
			LN	Ms=6.2		17.0	34.0
			LE			14.5	45.6
BJI	21.5	350	+P	06 17 42.5	0.0		
			eS	06 21 32.5	−1.9		
			LN	Ms=5.9		14.0	14.1
			LE			16.0	15.5
			PMZ			15.0	3.57
LZH	22.8	322	−P	06 17 57.5	1.3		
			PMZ			2.0	1.12
			eS	06 22 00.5	1.0		
			SME	m_B=6.2		7.0	6.28
			sS	06 22 08.0	−3.8		
			LN	Ms=6.0		11.0	18.0
			LE			10.0	10.7
SNY	23.0	5	P	06 17 56.8	−0.6		
			LN	Ms=6.0		12.0	4.76
			LE			13.0	24.1
HHC	23.3	342	+iP	06 18 02.5	1.6		
			sP	06 18 11.0	−1.2		
			SMN	m_B=6.4		8.0	4.87
			SME			7.0	6.65
			LN	Ms=6.0		15.0	23.1
			LE			12.0	11.0
BTO	23.6	339	−iP	06 18 04.8	1.3		
			PMZ	m_B=5.9		7.0	3.40
			sP	06 18 13.0	−1.7		
			cPP	06 18 39.0	3.7		
			iS	06 22 15.0	2.1		
			SMN	m_B=6.2		11.0	5.10
			SME			11.0	6.70
			sS	06 22 24.0	−1.3		
			SS	06 23 02.0	2.0		
			LN	Ms=6.3		13.0	15.0
			LE			15.0	46.2
CN2	25.1	8	+P	06 18 18.0	−0.3		
			PMZ	m_B=6.1		5.0	2.30
			sP	06 18 25.0	−4.6		
			S	06 22 38.0	−0.1		
			SMN			19.0	14.5
			sS	06 22 45.0	−6.7		
MDJ	26.6	14	cP	06 18 32.3	−0.2		
			pP	06 18 37.5	−2.8		
			sP	06 18 40.0	−3.9		
			S	06 23 04.0	0.7		
			SMN	m_B=6.2		10.0	6.76
			SS	06 24 14.0	−0.8		
GTA	27.4	323	−iP	06 18 40.0	0.2		
			S	06 23 18.0	2.1		
			SS	06 24 32.0	−1.4		
			LN	Ms=6.0		26.0	27.8
			LE			13.0	13.9
LSA	29.1	297	−P	06 18 55.0	−0.5		
			iS	06 23 48.0	2.8		
			LN	Ms=6.0		12.0	15.1
WMQ	37.3	319	−P	06 20 07.4	1.3		
			PMZ			3.0	0.62
			PP	06 21 34.2	0.9		
			PcS	06 26 13.5	1.5		
			LN	Ms=6.3		13.0	14.9
			LE			12.0	12.9
KSH	43.7	308	P	06 21 02.0	2.6		
			sP	06 21 09.0	−1.8		
			SME	m_B=6.2		8.0	3.30
			LN	Ms=6.4		16.0	22.0

1987 2 11

O=07 56 17.6 ± 0.14s

LAT=15.99 S ± 1.81km

LONG=167.54 E ± 3.00km

DEPTH= 73 km ± 0.90km

STATIONS USED = 87, STAND DEV= 1.14s

Ms=6.3/38, m_B=6.5/45

QZH	62.7	310	+iP	08 06 37.0	−0.6		
			iS	08 15 03.0	3.7		
			SMN	m_B=6.4		9.0	3.94
			SME			9.0	2.89
			LN	Ms=6.3		20.0	4.48
			LE			19.0	11.9
SSE	64.6	317	+iP	08 06 49.0	−1.1		
			PMZ			1.0	0.060
			pP	08 07 10.0	1.2		
			PcP	08 07 20.0	−2.6		
			cPP	08 09 16.0	1.9		
			PcS	08 11 26.0	0.9		
			iS	08 15 26.0	3.1		
			SMN	m_B=6.2		8.0	0.32
			SME			8.0	3.00
			sS	08 16 00.0	5.0		
			SS	08 19 35.0	−0.4		
			LN	Ms=6.3		18.0	8.35
			LE			20.0	8.96
GZH	65.7	305	+iP	08 06 58.0	0.8		
			iS	08 15 43.0	6.6		

			SMN	$m_B=6.5$	10.0	4.52
			SME		9.0	3.72
			LN	$Ms=6.5$	19.0	5.96
			LE		22.0	22.2
QZN	66.6	299	+P	08 07 03.0	0.2	
			pP	08 07 25.0	3.5	
			PP	08 09 35.0	3.8	
			SMN	$m_B=6.4$	11.0	4.30
			SME		10.0	3.00
			LN	$Ms=6.2$	20.0	5.30
			LE		20.0	6.70
NJ2	66.8	316	+iP	08 07 03.3	−0.6	
			sP	08 07 36.0	4.9	
			PP	08 09 33.0	0.3	
			iS	08 15 51.0	1.8	
			SMN	$m_B=6.6$	10.0	7.50
			LN	$Ms=6.5$	18.0	15.2
WHN	69.0	312	+iP	08 07 18.0	0.3	
			PMZ	$m_B=6.8$	4.0	5.60
			pP	08 07 40.0	3.5	
			S	08 16 20.0	5.5	
			SMN	$m_B=6.3$	10.0	3.80
			LN	$Ms=6.2$	21.0	6.40
			LE		19.0	5.20
DL2	69.5	323	+iP	08 07 20.0	−0.7	
			PMZ	$m_B=6.5$	5.0	3.12
			sP	08 07 53.0	5.1	
			S	08 16 23.0	2.9	
			SMN	$m_B=6.5$	8.0	2.70
			SME		5.0	2.50
			LE	$Ms=6.6$	21.0	20.8
MDJ	69.5	332	+iP	08 07 22.0	1.0	
			pP	08 07 42.0	2.2	
			PP	08 09 55.0	−1.7	
			S	08 16 23.0	2.3	
			SS	08 20 48.0	−3.0	
SNY	70.4	327	+iP	08 07 25.6	−0.8	
			PMZ	$m_B=6.4$	6.0	3.55
			esP	08 07 55.0	1.3	
			iS	08 16 37.0	4.6	
			SMN	$m_B=6.3$	9.0	2.14
			SME		10.0	2.81
			LN	$Ms=6.5$	22.0	16.1
			LE		24.0	12.8
TIA	70.4	319	cP	08 07 25.8	−0.9	
			PMZ	$m_B=6.4$	6.0	3.39
			csP	08 07 56.0	2.0	
			S	08 16 35.0	3.3	
			SMN	$m_B=6.2$	9.5	2.11
			SME		9.5	1.74
CN2	70.9	329	+iP	08 07 28.8	−0.4	
			PMZ	$m_B=6.6$	5.0	4.40
			S	08 16 40.0	3.7	
			SMN		20.0	5.10
			SS	08 21 11.0	−1.2	
GYA	72.6	305	+P	08 07 40.6	0.6	
			PMZ	$m_B=6.6$	4.0	3.80
			sP	08 08 08.0	0.9	
			PP	08 10 28.0	4.4	
			S	08 17 03.0	6.1	
			SMN	$m_B=6.6$	6.0	3.10
			SME		6.0	3.00
			ScS	08 17 36.8	0.8	
			LN	$Ms=6.3$	20.0	3.20
			LE		20.0	9.60
BJI	73.4	321	+iP	08 07 44.0	−0.3	
			PMZ	$m_B=6.5$	5.0	3.62
			csP	08 08 14.0	2.4	
			cS	08 17 10.0	3.2	
			SMN	$m_B=6.4$	8.0	2.92
			SME		8.0	1.76
			SS	08 21 56.0	4.5	
			LN	$Ms=6.4$	23.0	14.4
			LE		23.0	7.63
TIY	74.4	318	+iP	08 07 50.1	0.1	
			PMZ	$m_B=6.6$	5.0	4.90
			SMN	$m_B=6.5$	9.0	3.50
			SME		9.0	2.20
			LE	$Ms=6.3$	19.0	9.40
XAN	74.7	313	+iP	08 07 51.9	−0.2	
			PMZ	$m_B=6.6$	5.0	4.60
			PcP	08 08 01.0	−4.3	
			sP	08 08 22.5	3.1	
			ePP	08 10 41.5	0.1	
			S	08 17 23.0	2.9	
			SMN	$m_B=6.5$	8.0	3.50
			SME		9.0	1.85
			SS	08 22 17.0	5.9	
			LN	$Ms=6.4$	20.0	9.06
			LE		20.0	9.06
KMI	75.2	302	+iP	08 07 55.5	0.6	
			PMZ	$m_B=6.5$	5.0	4.10
			PcP	08 08 08.0	0.8	
			SMN	$m_B=6.8$	6.0	4.60
			sS	08 17 54.0	−5.5	
			LN	$Ms=6.1$	19.0	6.10
HHC	76.7	320	+iP	08 08 04.0	0.6	
			sP	08 08 31.0	0.4	
			SMN	$m_B=7.0$	7.0	7.00
			SME		7.0	5.15

			LN	Ms=6.2	16.0	4.93
			LE		18.0	3.90
CD2	77.0	308	eP	08 08 05.0	0.1	
			PMZ		1.6	1.28
			epP	08 08 27.0	3.2	
			esP	08 08 34.0	1.9	
			iS	08 17 51.0	4.5	
			SME	m_B=6.7	7.0	4.10
			eSKS	08 18 06.0	1.7	
			LE	Ms=6.5	20.0	16.2
BTO	77.5	319	+iP	08 08 08.0	0.0	
			PMZ	m_B=6.3	6.0	3.10
			PcP	08 08 17.5	0.2	
			pP	08 08 29.5	2.6	
			ePP	08 11 07.0	2.2	
			S	08 17 54.0	3.2	
			ScS	08 18 17.0	1.7	
			SS	08 22 59.0	5.1	
			LN	Ms=6.3	22.0	6.30
			LE		20.0	8.20
LZH	79.4	312	+P	08 08 19.0	0.9	
			PMZ		2.5	2.06
			eS	08 18 11.0	−1.2	
			SME	m_B=6.4	8.0	2.68
			ScS	08 18 33.0	2.9	
			LN	Ms=6.4	16.0	6.75
			LE		22.0	7.83
GTA	83.7	314	+iP	08 08 41.6	0.8	
			PMZ	m_B=6.4	6.5	3.30
			PP	08 11 50.3	−5.1	
			SMN		17.0	5.76
			SME		16.0	5.25
			LN	Ms=6.3	20.0	8.16
WMQ	93.8	314	+iP	08 09 29.0	0.4	
			PMZ		2.0	0.73
			pP	08 09 48.0	0.0	
			PP	08 13 20.0	3.8	
			SKS	08 20 00.0	6.1	
			S	08 20 34.0	6.3	
			SS	08 26 50.0	−1.8	
KSH	101.2	308	+P	08 10 04.0	1.8	
			iPP	08 14 12.0	−1.2	
			S	08 21 36.0	6.0	
			SME	m_B=6.6	5.0	1.30
			sS	08 22 12.0	6.3	
			LE	Ms=6.6	20.0	11.2

1987 2 11
O=10 50 25.5 ± 0.20s
LAT=17.83 N ± 2.26km
LONG=119.48 E ± 2.55km
DEPTH= 36 km ± 0.38km
STATIONS USED = 45, STAND DEV= 2.47s
Ms=4.2/ 5, M_L=4.1/ 3,

QZH	7.1	353	eP	10 52 07.0	−3.0	
			SMN	M_L=4.1	0.3	0.090
			SME		0.3	0.080
GZH	7.8	313	P	10 52 16.5	−2.5	
QZN	9.2	279	eP	10 52 35.6	−3.6	
			S	10 54 16.7	−5.8	
			LN	Ms=4.0	14.0	1.20
WHN	13.5	341	eP	10 53 36.5	−0.5	
GYA	14.6	308	P	10 53 51.0	−1.3	
XAN	18.7	332	P	10 54 44.6	1.1	
			eS	10 58 08.0	0.5	
			LE	Ms=4.2	12.0	0.51
CD2	19.3	315	P	10 54 51.6	0.9	
			PMZ		1.0	0.060
TIY	20.7	344	eP	10 55 07.4	1.4	
			S	10 58 54.0	4.0	
			LE	Ms=4.4	15.0	0.76
BJI	22.3	353	eP	10 55 23.0	1.4	
LZH	22.8	326	eP	10 55 29.0	1.9	
			PMZ		1.5	0.050
HHC	23.9	345	eP	10 55 40.4	2.9	
BTO	24.1	342	eP	10 55 40.0	0.7	
			ePP	10 56 12.0	−1.5	
			eS	10 59 50.0	−2.0	
			LN	Ms=4.4	15.0	0.40
			LE		15.0	0.40
SNY	24.2	7	eP	10 55 45.3	5.6	
GTA	27.5	326	eP	10 56 11.5	0.8	
MDJ	28.0	15	eP	10 56 13.0	−2.7	

1987 2 11
O=13 38 44.8 ± 0.12s
LAT= 5.71 N ± 1.85km
LONG=123.68 E ± 2.20km
DEPTH=562 km ± 0.28km
STATIONS USED = 26, STAND DEV= 1.38s

CD2	31.3	326	P	13 44 21.2	0.0
XAN	31.3	336	−P	13 44 21.6	−0.1

TIY	33.5	344	eP	13 44 40.2	0.6		
BJI	34.8	350	eP	13 44 51.5	0.5		
GTA	39.9	331	−iP	13 45 32.5	0.3		
			PcP	13 47 24.2	0.2		
WMQ	49.4	326	eP	13 46 47.0	1.3		

1987 2 11
O = 17 42 50.8 ± 0.06s
LAT = 43.13 N ± 0.92km
LONG = 132.38 E ± 0.67km
DEPTH = 512 km ± 0.85km
STATIONS USED = 100, STAND DEV = 0.96s
$m_B = 5.8 / 36$

MDJ	2.5	307	+iP	17 44 01.8	1.4		
			PMZ			3.0	11.3
			iS	17 44 57.5	2.4		
			SMN			12.0	107
			PcP	17 50 29.0	5.0		
			ScP	17 53 11.5	5.3		
			PcS	17 53 52.0	−2.7		
			ScS	17 56 43.5	6.3		
CN2	5.1	280	−iP	17 44 20.0	−0.2		
			PMZ			3.0	10.4
			S	17 45 30.0	−0.6		
			SMN	$m_B = 5.5$		6.0	25.4
SNY	6.6	262	−iP	17 44 35.4	0.4		
			PMZ			14.0	13.3
			iS	17 45 52.0	−5.3		
			SMN	$m_B = 5.8$		8.0	22.0
			SME			16.0	82.8
			ScS	17 56 45.0	4.3		
BJI	12.5	261	−iP	17 45 35.0	−0.9		
			PMZ			16.0	5.26
			esP	17 47 18.0	−3.3		
			eS	17 47 50.0	1.5		
			SMN	$m_B = 5.3$		10.0	6.73
			SME			10.0	7.28
			ScP	17 53 20.0	4.3		
			ScS	17 56 56.0	5.0		
TIA	13.6	245	−P	17 45 47.8	0.5		
			ScP	17 53 22.3	4.8		
			S	17 48 12.0	3.3		
			SMN	$m_B = 5.9$		11.0	21.0
			SME			8.0	22.1
			ScS	17 56 58.6	5.0		
SSE	14.9	220	−iP	17 46 01.0	0.4		
			PMZ			1.0	0.33
			sP	17 47 52.0	−2.7		
			S	17 48 32.0	−1.4		
			SMN	$m_B = 5.9$		11.0	14.8
			SME			10.0	29.4
NJ2	15.4	229	+iP	17 46 05.0	0.0		
			sP	17 48 00.0	−0.5		
			iS	17 48 45.0	3.1		
			SMN			16.0	21.0
			SME			9.0	24.0
			iScP	17 53 25.0	4.4		
HHC	15.6	269	−iP	17 46 08.0	0.2		
			PMZ	$m_B = 6.3$		5.0	4.83
			S	17 48 50.0	3.9		
			SMN	$m_B = 5.2$		8.0	4.01
			SME			8.0	4.49
TIY	16.1	257	−iP	17 46 13.0	0.6		
			PMZ	$m_B = 6.5$		5.0	7.82
			sP	17 48 11.5	1.1		
			S	17 49 01.0	6.4		
			SMN	$m_B = 5.4$		11.0	10.2
			SME			9.0	4.70
BTO	16.8	269	−iP	17 46 19.8	0.2		
			PMZ			2.0	3.40
			iS	17 49 10.0	1.5		
WHN	19.1	235	−iP	17 46 41.5	0.3		
			PMZ			1.0	11.7
			sP	17 48 51.0	1.6		
			S	17 49 49.5	3.3		
			SME	$m_B = 5.4$		10.0	8.50
			ScS	17 57 14.0	4.9		
XAN	20.4	251	−iP	17 46 53.5	−0.2		
			PMZ			1.6	1.40
			sP	17 49 11.0	4.8		
			S	17 50 07.0	−1.5		
			SMN	$m_B = 5.1$		8.0	2.10
			SME			8.0	2.70
			ScP	17 53 35.5	4.3		
			ScS	17 57 14.0	0.3		
QZH	21.4	216	eP	17 47 04.0	1.3		
			sP	17 49 19.5	1.2		
			iS	17 50 23.5	−1.9		
			SMN	$m_B = 5.7$		8.0	8.60
			SME			8.0	8.80
LZH	23.0	262	−iP	17 47 18.0	0.2		
			sP	17 49 34.0	−3.3		
			PcP	17 50 47.0	−2.0		
			ScP	17 53 43.0	5.3		
GTA	24.7	273	−iP	17 47 32.2	−0.5		
			PMZ	$m_B = 6.1$		5.0	2.71
			sP	17 49 54.5	0.6		
			PcP	17 50 56.2	3.6		
			S	17 51 17.0	−0.7		
			SMN	$m_B = 4.9$		7.0	0.91

			SME			19.0	2.36
			iScP	17 53 46.7	4.5		
			ScS	17 57 35.5	5.3		
GZH	25.5	224	–P	17 47 39.4	–0.1		
			PMZ	m_B = 6.0		4.0	1.65
			S	17 51 26.0	–4.2		
			ScP	17 53 50.5	6.1		
CD2	25.8	251	P	17 47 41.4	–0.9		
			PMZ			3.0	3.44
			S	17 51 32.0	–3.2		
			ScS	17 57 41.0	6.1		
GYA	26.7	240	–P	17 47 49.6	–1.2		
			sP	17 50 19.0	5.0		
			PcP	17 51 01.4	4.1		
			S	17 51 46.0	–4.1		
			ScP	17 53 51.0	2.9		
			PcS	17 54 41.0	4.2		
			ScS	17 57 42.0	2.9		
KMI	30.2	243	–iP	17 48 20.0	–1.0		
			PMZ			2.0	3.00
			S	17 52 43.0	–0.9		
			ScS	17 58 01.0	5.6		
QZN	30.6	225	eP	17 48 25.2	0.6		
			PcP	17 51 11.0	3.7		
			S	17 52 49.0	–1.8		
			SMN	m_B = 5.5		10.0	1.60
			SME			10.0	3.00
			sS	17 55 24.0	6.1		
WMQ	32.1	287	–iP	17 48 36.5	–1.0		
			PMZ			2.0	0.91
			PP	17 50 08.0	–0.8		
			S	17 53 12.9	–1.1		
			SS	17 56 01.0	1.4		
			ScS	17 58 03.0	–2.3		
KSH	41.9	285	P	17 49 58.0	0.5		
			PcP	17 51 47.0	5.6		
			sP	17 52 32.0	5.1		
			iS	17 55 42.0	2.4		
			SMN	m_B = 5.9		5.0	1.70

1987 2 11
O = 20 11 08.1 ± 0.09s
LAT = 34.35 N ± 0.92km
LONG = 103.19 E ± 0.89km
DEPTH = 10 km ± 0.23km
STATIONS USED = 8, STAND DEV = 2.20s
M_L = 3.3 / 3,

LZH	1.8	17	cPg	20 11 42.0	1.5		
			SMN			2.0	0.27
			SME			1.5	0.14
CD2	3.5	172	cPn	20 12 04.8	2.4		
XAN	4.8	92	Pn	20 12 18.6	–1.7		
			Pg	20 12 32.6	0.4		
			Sn	20 13 13.4	–4.2		
			Sg	20 13 38.5	1.2		
			SMN	M_L = 3.3		1.0	0.050
			SME			1.0	0.040
GTA	5.7	333	cPn	20 12 35.0	1.2		

1987 2 11
O = 21 37 29.5 ± 0.06s
LAT = 44.04 N ± 0.62km
LONG = 84.66 E ± 0.46km
DEPTH = 13 km ± 0.29km
STATIONS USED = 8, STAND DEV = 1.07s
M_L = 3.3 / 6,

WMQ	2.2	95	Pn	21 38 07.3	0.8		
			Sg	21 38 37.2	–1.6		
			SMN	M_L = 3.2		0.3	0.18

1987 2 12
O = 06 52 31.0 ± 0.07s
LAT = 54.65 N ± 2.98km
LONG = 162.90 W ± 1.33km
DEPTH = 23 km ± 0.55km
STATIONS USED = 52, STAND DEV = 1.01s

MDJ	43.2	286	eP	07 00 33.5	0.7	
CN2	46.1	287	P	07 00 55.2	–0.3	
DL2	51.5	285	eP	07 01 36.6	–0.7	
BJI	53.7	290	eP	07 01 54.0	0.1	
TIA	55.9	286	eP	07 02 09.2	–0.8	
BTO	56.6	294	eP	07 02 15.3	0.0	
TIY	57.4	290	+P	07 02 21.8	1.0	
NJ2	58.0	281	+P	07 02 24.6	0.0	
XAN	62.0	290	P	07 02 52.3	–0.4	
GTA	62.8	300	–iP	07 02 57.2	–0.4	
LZH	63.2	295	eP	07 03 00.5	–0.1	
WMQ	65.1	311	P	07 03 13.5	1.0	
CD2	67.2	291	P	07 03 26.4	0.0	
			PMZ			1.0 0.060
GZH	67.9	279	eP	07 03 31.0	0.3	
GYA	69.1	286	P	07 03 38.2	0.1	
LSA	74.8	300	P	07 04 12.2	–0.2	

1987 2 12
O = 12 26 24.2 ± 0.17s
LAT = 5.68 N ± 1.76km
LONG = 94.23 E ± 1.55km
DEPTH = 55 km ± 0.41km
STATIONS USED = 37, STAND DEV = 1.26s

QZN	20.2	48	−P	12 30 57.9	0.8		
GYA	23.8	29	−P	12 31 34.8	1.3		
LSA	24.1	353	P	12 31 36.3	0.2		
CD2	26.6	18	P	12 31 59.2	−0.9		
XAN	31.3	24	+P	12 32 40.6	−1.5		
GTA	34.0	8	+P	12 33 04.0	−0.9		
NJ2	34.9	38	−P	12 33 13.6	0.7		
TIA	36.9	32	eP	12 33 30.2	0.0		
WMQ	38.4	352	P	12 33 43.7	1.2		
BJI	39.5	27	eP	12 33 52.5	1.1		
DL2	41.3	33	eP	12 34 07.8	1.2		
SNY	44.5	32	−P	12 34 31.8	−0.4		
CN2	46.8	31	+P	12 34 50.0	−1.0		

1987 2 12

O = 13 23 42.3 ± 0.13s
LAT = 36.34 N ± 2.12km
LONG = 141.01 E ± 2.57km
DEPTH = 52 km ± 1.64km
STATIONS USED = 62, STAND DEV = 2.12s
Ms = 4.5 / 7, m_B = 5.1 / 1

MDJ	12.0	317	eP	13 26 32.0	−1.1		
CN2	14.0	307	eP	13 27 03.0	2.8		
SNY	14.6	297	+P	13 27 09.3	1.8		
NJ2	18.8	263	eP	13 28 00.0	−0.3		
TIA	19.3	277	eP	13 28 04.3	−1.1		
			LN	Ms = 4.3		12.0	0.51
BJI	19.8	288	eP	13 28 10.5	−1.3		
TIY	22.8	282	P	13 28 43.5	1.5		
			LN	Ms = 4.6		15.0	0.44
			LE			15.0	0.95
WHN	22.9	263	eP	13 28 44.0	0.9		
HHC	23.4	290	eP	13 28 50.3	2.7		
BTO	24.6	289	eP	13 28 54.5	−4.5		
			eS	13 33 10.0	−3.3		
			LN	Ms = 4.4		13.0	0.40
			LE			13.0	0.30
XAN	26.3	275	P	13 29 15.1	0.2		
GZH	27.3	249	eP	13 29 25.4	1.0		
GYA	30.8	261	−P	13 29 55.0	−0.7		
CD2	31.4	271	eP	13 30 00.0	−0.6		
GTA	32.5	288	−P	13 30 10.3	−0.1		
			PcP	13 32 55.1	−0.5		
			LE	Ms = 4.5		16.0	0.45
WMQ	40.9	297	+iP	13 31 23.2	2.0		
LSA	42.0	276	+P	13 31 31.2	0.6		

1987 2 12

O = 15 41 22.6 ± 0.05s
LAT = 45.88 N ± 1.31km
LONG = 142.76 E ± 0.77km
DEPTH = 332 km ± 0.71km
STATIONS USED = 64, STAND DEV = 0.89s

MDJ	9.4	267	+P	15 43 34.8	0.7		
CN2	12.5	267	−iP	15 44 12.0	0.4		
SNY	14.4	261	−iP	15 44 33.8	−0.5		
DL2	17.1	253	eP	15 45 02.0	−0.7		
BJI	20.3	263	eP	15 45 34.5	−0.1		
TIA	21.5	252	eP	15 45 47.4	0.4		
NJ2	23.0	242	+P	15 46 02.0	0.8		
HHC	23.1	269	−P	15 46 03.2	0.9		
TIY	23.9	261	P	15 46 10.5	1.0		
BTO	24.3	269	eP	15 46 15.6	2.5		
XAN	28.3	257	P	15 46 48.2	−0.7		
LZH	30.7	265	−P	15 47 10.0	0.1		
GTA	31.9	274	−iP	15 47 20.8	0.2		
CD2	33.7	257	P	15 47 35.0	−0.2		
			PMZ			1.0	0.030
GYA	34.6	248	−P	15 47 42.4	−0.8		
KMI	38.1	251	+P	15 48 13.0	0.6		
WMQ	38.4	287	−P	15 48 15.6	0.4		
LSA	43.1	266	−P	15 48 53.0	−0.4		
KSH	48.2	287	eP	15 49 34.0	0.8		

1987 2 12

O = 16 35 13.8 ± 0.08s
LAT = 39.90 N ± 0.65km
LONG = 77.23 E ± 0.75km
DEPTH = 9 km ± 0.39km
STATIONS USED = 7, STAND DEV = 3.33s
M_L = 3.4 / 5,

KSH	1.1	245	+Pg	16 35 31.8	−1.1		
			iSg	16 35 47.5	0.2		
			SMN	M_L = 3.4		0.2	0.70
			SME			0.5	1.00
WMQ	8.7	60	P	16 37 21.2	−2.4		

1987 2 13

O = 03 36 15.4 ± 0.50s
LAT = 15.70 S ± 1.87km
LONG = 167.55 E ± 4.97km
DEPTH = 153 km ± 2.91km
STATIONS USED = 40, STAND DEV = 1.82s

NJ2	66.6	316	−P	03 46 51.3	−0.5
WHN	68.8	312	eP	03 47 05.0	−0.7
MDJ	69.3	332	+P	03 47 07.5	−1.1
CN2	70.6	329	+P	03 47 15.0	−1.8
GYA	72.5	305	P	03 47 28.0	0.0
BJI	73.2	321	eP	03 47 31.5	−0.5
TIY	74.2	317	−iP	03 47 38.0	0.3

			PMZ			1.0	0.040
XAN	74.5	313	+P	03 47 39.6	−0.3		
KMI	75.0	302	+P	03 47 43.5	0.5		
CD2	76.8	308	P	03 47 52.4	−0.3		
LZH	79.2	312	eP	03 48 06.0	0.3		
			PMZ			1.5	0.050
GTA	83.5	314	+P	03 48 32.5	4.0		
WMQ	93.6	314	P	03 49 16.0	−0.3		

1987 2 13
O = 04 21 00.4 ± 0.14s
LAT = 30.96 N ± 1.43km
LONG = 131.67 E ± 1.60km
DEPTH = 72 km ± 2.37km
STATIONS USED = 21, STAND DEV = 2.40s

BJI	15.5	310	eP	04 24 40.0	3.4		
TIY	17.2	298	P	04 25 00.8	2.5		
GYA	22.4	265	P	04 25 54.6	0.6		
LZH	23.7	290	eP	04 26 07.5	0.3		
CD2	23.9	277	P	04 26 09.6	0.6		
GTA	27.3	297	P	04 26 38.9	−1.6		

1987 2 13
O = 05 48 55.7 ± 0.21s
LAT = 4.69 S ± 2.28km
LONG = 153.58 E ± 2.50km
DEPTH = 53 km ± 1.31km
STATIONS USED = 41, STAND DEV = 2.05s

MDJ	53.6	339	eP	05 58 15.5	1.2		
CN2	54.5	335	eP	05 58 20.0	−1.1		
GYA	54.9	307	P	05 58 24.8	0.5		
XAN	57.1	316	P	05 58 38.5	−1.1		
CD2	59.3	310	P	05 58 54.6	−0.2		
LZH	61.7	315	eP	05 59 11.5	0.0		
GTA	66.1	317	+P	05 59 40.2	−0.1		
WMQ	76.2	317	P	06 00 41.5	0.6		
KSH	83.4	310	eP	06 01 22.0	2.1		

1987 2 13
O = 07 18 30.4 ± 0.10s
LAT = 0.69 N ± 1.51km
LONG = 126.17 E ± 1.78km
DEPTH = 55 km ± 0.49km
STATIONS USED = 102, STAND DEV = 1.08s
Ms = 6.5 / 45, m_B = 6.6 / 48

QZN	24.3	320	+P	07 23 43.0	−0.9		
			pP	07 23 58.0	1.5		
			S	07 27 55.0	0.1		
			SMN			16.0	16.7
			SS	07 28 56.0	5.7		
			LN		Ms = 6.4	18.0	77.4
QZH	25.2	344	+iP	07 23 53.0	0.1		
			PMZ		m_B = 6.5	6.0	8.46
			sP	07 24 14.0	2.6		
			iS	07 28 14.0	2.5		
			SMN		m_B = 6.8	12.0	26.1
			SME			8.0	13.8
			LN		Ms = 6.6	22.0	92.9
			LE			22.0	75.2
GZH	25.5	332	−P	07 23 56.0	0.2		
			PMZ		m_B = 6.8	4.0	9.10
			sP	07 24 17.0	2.5		
			S	07 28 17.5	1.6		
			LN		Ms = 6.5	15 0	33.4
			LE			14.0	63.8
SSE	30.6	352	+iP	07 24 43.0	1.1		
			PMZ			2.0	1.15
			sP	07 25 04.0	3.2		
			PP	07 25 46.0	3.4		
			PcP	07 27 41.0	2.5		
			iS	07 29 37.0	−1.5		
			SMN		m_B = 6.4	11.0	6.79
			SME			12.0	8.17
			sS	07 30 04.0	2.8		
			SS	07 31 18.0	−3.6		
			LE		Ms = 5.9	11.0	9.97
WHN	31.7	340	P	07 24 52.0	0.1		
			PMZ		m_B = 6.5	4.0	3.05
			sP	07 25 12.0	1.2		
			PP	07 26 02.0	4.7		
			S	07 29 52.0	−3.5		
			SMN		m_B = 6.3	12.0	8.10
			LN		Ms = 6.4	17.0	42.7
GYA	31.8	325	P	07 24 52.0	−0.2		
			PMZ			3.0	2.80
			pP	07 25 04.0	−1.0		
			sP	07 25 13.0	2.0		
			S	07 29 56.0	0.1		
			SMN		m_B = 6.4	8.0	6.50
			sS	07 30 18.0	−1.4		
			ScP	07 31 18.0	−0.7		
			LN		Ms = 6.5	17.0	41.2
			LE			17.0	43.4
NJ2	32.0	348	+iP	07 24 55.5	1.8		
			PMZ		m_B = 6.4	6.0	3.70
			pP	07 25 10.4	3.8		
			S	07 30 03.0	4.2		
			SMN		m_B = 6.7	12.0	21.9
			LN		Ms = 6.4	11.0	16.8
			LE			15.0	26.2

KMI	33.2	319	+P	07 25 05.5	0.6		
			pP	07 25 17.0	−0.7		
			sP	07 25 23.0	−0.5		
			iS	07 30 20.0	0.4		
			LN	Ms=6.4		18.0	46.9
TIA	36.3	348	−P	07 25 31.0	−0.3		
			PMZ	m_B=6.6		6.0	6.79
			PcP	07 28 00.0	5.5		
			S	07 31 00.0	−6.5		
			SMN	m_B=6.9		12.0	25.4
			SME			12.0	13.2
			ScP	07 31 41.6	6.8		
			LN	Ms=6.3		15.0	21.1
			LE			15.0	14.8
CD2	36.8	327	eP	07 25 34.4	−1.0		
			PP	07 27 05.5	4.5		
			S	07 31 11.0	−3.0		
			LN	Ms=6.8		15.0	44.2
			LE			16.0	54.2
XAN	36.9	336	+P	07 25 34.8	−1.4		
			PMZ	m_B=6.4		4.0	2.68
			pP	07 25 51.0	1.7		
			sP	07 25 57.5	2.3		
			PcP	07 27 55.0	−1.2		
			S	07 31 10.0	−5.4		
			SMN	m_B=6.5		10.0	8.62
			LN	Ms=6.4		14.0	18.4
			LE			16.0	27.6
DL2	38.3	354	+iP	07 25 47.5	0.0		
			PMZ	m_B=6.8		5.0	7.98
			sP	07 26 08.0	1.4		
			PP	07 27 18.0	−0.4		
			PcP	07 27 58.0	−2.4		
			S	07 31 35.0	−1.0		
			SMN	m_B=6.8		10.0	9.60
			SME			10.0	15.0
			SS	07 34 17.0	−0.2		
			LN	Ms=6.5		17.0	15.0
			LE			16.0	32.3
TIY	39.0	343	P	07 25 53.4	0.0		
			PMZ	m_B=6.4		7.0	4.28
			sP	07 26 16.0	3.5		
			SME	m_B=6.0		8.5	2.35
			LN	Ms=6.6		20.0	46.5
			LE			26.0	59.4
BJI	40.2	348	eP	07 26 04.0	0.3		
			PMZ	m_B=6.7		5.0	6.72
			esP	07 26 25.0	2.1		
			PcP	07 28 11.0	4.4		
			eS	07 32 08.0	1.7		
			SMN	m_B=6.7		12.0	13.2
			SME			11.0	7.34
			esS	07 32 31.0	1.7		
			LN	Ms=6.6		20.0	27.1
			LE			44.0	95.4
LZH	40.9	332	+P	07 26 09.0	−0.3		
			PMZ			1.5	1.40
			sP	07 26 32.0	3.7		
			PcP	07 28 12.0	3.3		
			S	07 32 16.0	0.9		
			SMN	m_B=6.5		10.0	8.42
			sS	07 32 38.0	−1.0		
			LN	Ms=6.8		17.0	66.5
			LE			17.0	45.1
SNY	41.0	357	+iP	07 26 10.2	−0.1		
			PMZ	m_B=7.1		5.0	16.1
			sP	07 26 33.0	3.4		
			PP	07 27 48.0	−0.2		
			PcS	07 31 56.0	−2.9		
			iS	07 32 19.0	0.7		
			SMN			26.0	31.7
			SME			17.0	27.3
			LN	Ms=6.6		20.0	30.1
			LE			19.0	34.7
HHC	42.1	343	+iP	07 26 19.5	0.0		
			sP	07 26 43.5	4.9		
BTO	42.3	342	+iP	07 26 22.0	0.6		
			PMZ	m_B=6.4		6.0	3.30
			sP	07 26 44.0	3.5		
			PP	07 28 02.0	−0.5		
			S	07 32 37.0	0.0		
			SMN	m_B=6.4		12.0	6.70
			SME			12.0	3.60
			sS	07 33 02.0	1.1		
			SS	07 35 40.0	−2.2		
			LN	Ms=6.7		24.0	65.9
			LE			17.0	27.9
CN2	42.9	359	+iP	07 26 25.0	−1.0		
			PMZ	m_B=6.8		5.0	7.00
			sP	07 26 47.0	1.7		
			PP	07 28 03.0	−5.1		
			eS	07 32 45.0	−1.4		
			SME	m_B=6.3		10.0	5.00
			SS	07 35 55.0	1.9		
MDJ	43.8	4	+P	07 26 34.0	0.5		
			PMZ	m_B=7.1		6.0	17.2
			pP	07 26 48.5	1.6		
			PcP	07 28 20.0	1.4		
			PcS	07 32 13.0	2.8		
			S	07 33 04.0	5.2		

			SME			14.0	23.3
			LN	Ms=6.5		22.0	40.5
LSA	44.1	314	P	07 26 35.6	−0.3		
			sP	07 26 59.0	4.4		
			S	07 33 04.0	1.7		
			SME	m_B=6.9		10.0	17.2
			LE	Ms=6.1		21.0	16.4
GTA	45.4	331	+P	07 26 45.8	−0.6		
			sP	07 27 08.5	3.0		
			ScP	07 32 16.0	5.5		
			SMN			16.0	7.60
			ScS	07 36 39.7	5.9		
			LN	Ms=6.8		30.0	67.1
			LE			18.5	44.5
WMQ	54.9	327	+iP	07 27 57.6	−0.9		
			pP	07 28 12.0	−0.1		
			sP	07 28 20.0	2.1		
			PcP	07 29 00.0	1.3		
			PcS	07 32 56.0	−1.0		
			S	07 35 34.0	1.2		
			SMN	m_B=6.4		10.0	5.03
			ScS	07 37 41.0	3.2		
KSH	59.8	317	P	07 28 34.0	0.9		
			sP	07 28 57.0	4.6		
			S	07 36 40.0	2.9		
			SMN	m_B=6.5		10.0	6.80
			LN	Ms=6.7		20.0	33.9

1987 2 13
O=10 01 36.4 ± 0.08s
LAT=36.55 N ± 1.82km
LONG=140.90 E ± 1.61km
DEPTH= 49 km ± 1.12km
STATIONS USED = 93, STAND DEV= 1.59s
Ms=4.6/10, m_B=5.1/1

MDJ	11.8	317	+P	10 04 29.2	4.7		
CN2	13.8	306	P	10 04 52.4	0.4		
SNY	14.4	297	−P	10 05 01.4	1.9		
			LN	Ms=4.6		15.0	1.64
			LE			19.0	1.65
SSE	17.3	257	eP	10 05 36.0	0.4		
			eS	10 08 45.0	1.2		
			sS	10 08 57.0	−2.3		
			SS	10 09 06.0	0.8		
NJ2	18.8	263	−P	10 05 53.2	−0.8		
			LN	Ms=4.6		16.5	1.60
TIA	19.1	276	−P	10 05 57.1	−1.5		
			csP	10 06 10.0	−4.4		
			eS	10 09 31.0	4.8		
			SS	10 09 58.0	5.8		
			LN	Ms=4.5		13.0	0.57
			LE			13.0	0.68
BJI	19.7	288	eP	10 06 03.5	−1.1		
QZH	22.3	245	eP	10 06 30.0	−1.6		
TIY	22.7	282	−P	10 06 34.0	−1.2		
			PP	10 07 10.0	6.2		
			LE	Ms=4.9		15.0	1.97
WHN	22.9	263	−iP	10 06 37.5	0.5		
HHC	23.2	290	eP	10 06 38.4	−2.2		
BTO	24.4	289	eP	10 06 51.0	−0.9		
			eS	10 11 06.0	0.5		
			LN	Ms=4.7		17.0	0.70
			LE			15.0	0.90
XAN	26.2	274	eP	10 07 08.3	−0.1		
GZH	27.3	248	P	10 07 20.3	1.5		
LZH	29.7	280	eP	10 07 40.5	−0.4		
GYA	30.7	261	+P	10 07 48.8	−0.9		
			S	10 12 50.4	3.7		
CD2	31.3	271	P	10 07 53.6	−0.7		
			PMZ			0.8	0.040
GTA	32.3	288	−P	10 08 02.4	−1.2		
			PcP	10 10 50.9	1.1		
			LE	Ms=4.7		17.0	0.83
QZN	32.4	246	eP	10 08 05.7	1.9		
KMI	34.5	262	eP	10 08 22.0	−0.4		
WMQ	40.7	297	+iP	10 09 15.0	0.8		
			PMZ			1.0	0.11
			pP	10 09 24.0	−2.4		
			sP	10 09 27.0	−4.7		
			PcP	10 11 15.2	0.4		
			S	10 15 24.0	4.5		
LSA	41.8	275	+P	10 09 25.0	0.8		
KSH	50.2	294	+iP	10 10 32.0	1.6		

1987 2 13
O=11 08 02.7 ± 0.19s
LAT= 0.71 N ± 2.76km
LONG=126.11 E ± 4.24km
DEPTH= 33 km ± 0.14km
STATIONS USED = 19, STAND DEV= 2.42s

XAN	36.9	336	eP	11 15 09.3	−0.9
BJI	40.2	348	eP	11 15 39.0	1.2
SNY	41.0	357	eP	11 15 45.3	0.7
MDJ	43.8	4	eP	11 16 08.5	0.7
WMQ	54.8	327	P	11 17 34.0	1.3

1987 2 13
O=13 58 06.1 ± 0.14s
LAT=40.27 N ± 2.86km
LONG= 19.90 E ± 2.67km

DEPTH= 8 km ± 1.97km
STATIONS USED = 49, STAND DEV= 2.03s
Ms=5.3/ 9,

KSH	42.4	72	P	14 06 08.0	4.4		
			eS	14 12 27.0	1.3		
			LE	Ms=5.2		12.0	1.20
WMQ	49.2	62	P	14 06 56.5	−0.9		
GTA	59.3	63	eP	14 08 08.6	−2.7		
			LE	Ms=5.1		11.0	0.48
LZH	63.7	64	eP	14 08 40.0	−1.3		
BTO	65.4	57	eP	14 08 54.0	1.7		
			eS	14 17 39.0	3.2		
			LN	Ms=5.4		15.0	0.80
			LE			15.0	0.80
HHC	66.3	56	eP	14 08 55.8	−1.9		
CD2	66.5	69	eP	14 09 00.0	1.1		
XAN	68.3	63	eP	14 09 08.7	−1.9		
			LN	Ms=5.3		13.0	0.58
			LE			12.0	0.35
TIY	68.6	58	eP	14 09 11.6	−0.7		
			LN	Ms=5.7		16.0	1.56
			LE			15.0	1.44
BJI	69.6	55	eP	14 09 17.5	−1.1		
GYA	71.1	71	eP	14 09 30.4	2.6		
CN2	72.8	47	eP	14 09 37.0	−0.9		
			eS	14 19 01.0	−2.3		
WHN	74.1	63	P	14 09 50.0	4.8		

1987 2 13
O=19 20 17.6 ± 0.13s
LAT=23.17 N ± 2.75km
LONG= 93.94 E ± 1.76km
DEPTH= 58 km ± 1.50km
STATIONS USED = 46, STAND DEV= 2.99s
Ms=4.2/ 2, M_L=3.9/ 1,

LSA	7.0	340	−P	19 22 01.0	0.9		
			S	19 23 18.0	1.2		
			SMN	M_L=3.9		0.2	0.060
			SME			0.2	0.040
KMI	8.3	75	eP	19 22 23.5	5.7		
CD2	11.7	46	eP	19 23 08.4	4.6		
GYA	12.0	72	eP	19 23 06.0	−2.6		
QZN	15.4	103	eP	19 23 55.3	2.4		
			eS	19 26 44.0	2.7		
			LE	Ms=4.1		12.0	0.50
GTA	16.9	16	P	19 24 12.7	0.1		
XAN	17.0	47	eP	19 24 11.4	−2.0		
WHN	19.6	64	eP	19 24 43.0	−1.1		
WMQ	21.2	347	P	19 25 01.5	0.5		
TIY	21.5	43	eP	19 25 01.0	−2.6		
BTO	22.0	34	eP	19 25 05.6	−3.5		
KSH	22.3	321	eP	19 25 13.5	2.0		
BJI	25.2	43	eP	19 25 40.5	0.6		
SSE	25.5	66	P	19 25 41.7	−0.4		

1987 2 13
O=19 54 16.4 ± 0.11s
LAT=11.39 S ± 1.50km
LONG=117.42 E ± 2.25km
DEPTH= 34 km ± 0.25km
STATIONS USED = 45, STAND DEV= 1.19s

GYA	39.0	345	P	20 01 43.0	0.7		
CD2	44.1	343	P	20 02 23.3	−0.1		
			PMZ			0.6	0.040
XAN	45.9	350	P	20 02 37.4	−0.7		
LSA	48.1	329	−P	20 02 55.2	−0.3		
TIY	49.1	355	+P	20 03 02.2	−0.7		
BJI	51.2	359	eP	20 03 18.0	−0.9		
BTO	52.2	353	eP	20 03 26.0	−0.5		
HHC	52.3	354	eP	20 03 25.3	−1.9		
GTA	53.1	343	−iP	20 03 33.7	0.0		
MDJ	56.8	10	−P	20 03 59.0	−1.5		
WMQ	61.2	336	P	20 04 31.0	−0.2		
KSH	63.6	325	eP	20 04 49.0	2.2		

1987 2 13
O=21 33 50.6 ± 0.69s
LAT=34.78 N ± 5.28km
LONG= 80.10 E ± 1.06km
DEPTH= 20 km
STATIONS USED = 6, STAND DEV= 2.57s
M_L=4.0/ 4,

KSH	5.7	326	cPg	21 35 32.5	0.8		
			Sg	21 36 47.0	−2.5		
			SME	M_L=3.9		0.5	0.10

1987 2 14
O=05 06 34.6 ± 0.08s
LAT= 5.57 S ± 0.99km
LONG=147.71 E ± 3.06km
DEPTH= 33 km ± 0.63km
STATIONS USED = 45, STAND DEV= 1.22s

QZH	41.5	318	−P	05 14 20.6	−0.1
GZH	44.0	312	−P	05 14 43.2	1.9
SSE	44.4	327	eP	05 14 44.5	0.2
QZN	44.6	304	eP	05 14 47.0	1.1
WHN	48.0	320	eP	05 15 14.5	1.3
GYA	50.9	311	P	05 15 36.6	1.1
MDJ	52.5	344	eP	05 15 47.5	0.0
KMI	53.3	307	eP	05 15 55.0	1.6

XAN	53.8	320	+P	05 15 56.0	−0.9		
BJI	53.9	330	eP	05 15 56.0	−1.4		
CD2	55.5	314	P	05 16 09.5	0.3		
HHC	56.8	328	eP	05 16 18.6	−0.4		
BTO	57.5	326	eP	05 16 22.1	−1.6		
GTA	62.9	320	P	05 17 00.0	−0.4		
LSA	64.5	306	P	05 17 11.6	−0.1		
WMQ	72.9	319	P	05 18 03.2	0.0		

1987 2 14

O = 06 34 38.7 ± 0.05s
LAT = 15.49 S ± 1.67km
LONG = 167.65 E ± 1.37km
DEPTH = 125 km ± 0.92km
STATIONS USED = 72, STAND DEV = 0.71s
m_B = 5.8 / 20

QZH	62.5	309	+P	06 44 51.0	−0.6		
			pP	06 45 21.0	−0.3		
			sP	06 45 40.0	4.7		
			S	06 53 08.0	1.7		
			SME	m_B = 5.5		8.0	0.70
			sS	06 54 02.0	2.8		
SSE	64.3	316	eP	06 45 02.7	−1.1		
			pP	06 45 32.5	−1.0		
			sP	06 45 51.0	3.4		
			ePP	06 47 25.0	−2.8		
			eS	06 53 30.0	−0.6		
			sS	06 54 22.0	−0.5		
			ScS	06 54 42.0	0.8		
			LN			20.0	0.60
GZH	65.5	305	−P	06 45 12.0	0.5		
			pP	06 45 42.0	0.6		
			S	06 53 44.0	0.0		
			SMN	m_B = 5.6		10.0	0.72
			SME			8.0	0.71
QZN	66.4	299	P	06 45 17.8	0.5		
			pP	06 45 48.0	0.7		
			S	06 53 59.0	3.9		
			SMN	m_B = 5.8		7.0	0.90
			SME			7.0	0.80
NJ2	66.5	316	+P	06 45 17.2	−0.4		
WHN	68.7	312	eP	06 45 31.3	−0.3		
			pP	06 46 01.0	−0.7		
			S	06 54 21.0	−1.5		
			SME	m_B = 5.4		11.0	0.60
MDJ	69.1	332	+P	06 45 34.2	0.1		
			sP	06 46 16.0	−2.1		
			S	06 54 31.5	4.2		
			SME	m_B = 5.5		10.0	0.83
			sS	06 55 24.0	3.1		
DL2	69.1	323	eP	06 45 34.0	−0.1		
SNY	70.0	326	+P	06 45 39.0	−0.7		
			S	06 54 36.0	−2.0		
			SMN			22.0	0.75
TIA	70.1	318	eP	06 45 39.4	−1.0		
			csP	06 46 24.5	0.1		
			cS	06 54 39.5	−1.2		
			SMN	m_B = 5.3		10.0	0.47
			sS	06 55 26.3	−6.8		
			LN			18.0	0.72
CN2	70.5	329	+iP	06 45 41.8	−0.6		
			PMZ	m_B = 5.8		4.0	0.70
			pP	06 46 11.0	−1.6		
			sP	06 46 22.0	−4.5		
			eS	06 54 40.0	−4.5		
			SMN	m_B = 5.4		12.0	0.70
			sS	06 55 34.0	−3.0		
			eSS	06 59 12.0	−6.4		
GYA	72.4	305	+P	06 45 54.0	−0.2		
			PcP	06 46 11.0	0.5		
			pP	06 46 24.0	−0.4		
			sP	06 46 45.0	6.7		
			S	06 55 07.0	1.5		
			sS	06 56 03.0	3.2		
BJI	73.1	321	eP	06 45 57.5	−0.3		
			sP	06 46 44.0	2.0		
			eS	06 55 16.0	1.9		
			SMN	m_B = 5.9		8.0	0.37
			SME			7.0	1.17
			ScS	06 55 56.0	6.2		
TIY	74.1	317	+P	06 46 04.2	0.6		
			PMZ			1.4	0.20
			pP	06 46 33.5	−0.5		
			S	06 55 25.0	1.4		
			ScS	06 56 04.5	6.8		
			LE			16.0	0.23
XAN	74.5	313	+iP	06 46 05.9	0.0		
			PMZ			0.8	0.040
			pP	06 46 36.0	−0.4		
			sP	06 46 54.0	3.8		
			S	06 55 30.0	1.9		
			SMN	m_B = 5.7		9.0	0.79
			sS	06 56 26.0	3.2		
KMI	75.0	302	+P	06 46 10.0	0.8		
			pP	06 46 40.0	0.5		
			S	06 55 40.5	6.4		
			SMN	m_B = 6.0		6.0	1.00
HHC	76.4	320	+iP	06 46 17.6	0.7		
			S	06 55 52.0	2.7		
			SMN	m_B = 5.9		7.0	0.70

			SME			6.0	0.53
CD2	76.8	308	P	06 46 19.1	0.2		
			PMZ			1.5	0.13
			pP	06 46 50.0	0.5		
			esP	06 47 04.0	0.8		
			iS	06 55 56.0	1.1		
			SMN	$m_B = 6.1$		7.0	1.37
			ScS	06 56 20.0	0.7		
			sS	06 56 48.5	0.4		
BTO	77.2	319	P	06 46 21.6	0.0		
			pP	06 46 52.0	−0.1		
			iS	06 55 56.5	−3.6		
			esS	06 56 51.0	−2.3		
LZH	79.1	312	+iP	06 46 33.0	1.1		
			PMZ			1.5	0.21
			pP	06 47 04.5	2.0		
			eS	06 56 18.0	−2.2		
			SME	$m_B = 5.9$		5.0	0.50
GTA	83.5	314	+iP	06 46 55.0	0.4		
			PMZ	$m_B = 5.9$		4.0	0.78
			S	06 57 05.0	2.1		
			SMN	$m_B = 5.5$		9.0	0.36
			esS	06 58 02.0	3.4		
			LE			26.0	0.38
LSA	86.3	302	P	06 47 08.6	−0.3		
			SME	$m_B = 5.8$		6.0	0.63
WMQ	93.5	314	+iP	06 47 42.6	0.1		
			PMZ			2.0	0.20
			SKS	06 58 03.0	0.6		
			S	06 58 35.0	−0.8		

1987 2 14

O = 09 00 49.7 ± 0.14s
LAT = 0.65 N ± 1.50km
LONG = 126.27 E ± 1.24km
DEPTH = 56 km ± 1.22km
STATIONS USED = 51, STAND DEV = 1.21s
Ms = 4.4 / 1,

QZN	24.4	320	eP	09 06 04.9	1.0
QZH	25.3	343	eP	09 06 12.5	−0.1
GZH	25.6	332	eP	09 06 16.1	0.4
GYA	31.9	325	P	09 07 11.4	−0.7
CD2	36.9	327	eP	09 07 54.4	−0.9
XAN	37.0	336	P	09 07 54.6	−1.4
DL2	38.3	354	eP	09 08 08.5	1.5
TIY	39.0	342	−eP	09 08 13.0	−0.1
BJI	40.3	348	eP	09 08 23.0	−0.3
LZH	40.9	332	eP	09 08 27.0	−2.1
SNY	41.1	357	−iP	09 08 30.4	0.6
HHC	42.2	343	eP	09 08 40.8	1.6
BTO	42.4	342	eP	09 08 42.2	1.1
CN2	43.0	359	eP	09 08 45.0	−0.5
MDJ	43.9	3	eP	09 08 53.5	0.6
LSA	44.2	314	eP	09 08 53.8	−2.0
GTA	45.5	331	−P	09 09 05.5	−0.7
			PcP	09 10 45.6	2.1
			LE	Ms = 4.4	22.0 0.33
WMQ	55.0	327	P	09 10 20.0	1.7

1987 2 14

O = 12 08 35.7 ± 0.10s
LAT = 0.75 N ± 0.68km
LONG = 126.13 E ± 0.76km
DEPTH = 65 km ± 0.94km
STATIONS USED = 30, STAND DEV = 1.06s

GYA	31.7	325	P	12 14 56.0	0.2
XAN	36.8	336	eP	12 15 38.5	−1.3
BJI	40.1	348	eP	12 16 08.0	0.7
SNY	41.0	357	−P	12 16 14.4	0.4
CN2	42.9	359	eP	12 16 31.0	1.3
MDJ	43.8	4	eP	12 16 37.7	0.5
GTA	45.4	331	eP	12 16 49.0	−1.0
WMQ	54.8	327	P	12 18 02.0	−0.1

1987 2 14

O = 13 38 22.0 ± 0.12s
LAT = 17.96 S ± 1.59km
LONG = 178.55 W ± 1.98km
DEPTH = 565 km ± 0.51km
STATIONS USED = 75, STAND DEV = 0.74s
$m_B = 5.5 / 17$

QZH	74.6	303	+P	13 49 05.5	−0.3	
			S	13 57 54.0	−1.6	
			SMN	$m_B = 5.5$	8.0	0.70
SSE	75.7	310	P	13 49 09.5	−2.3	
			PMZ		1.0	0.030
			sP	13 52 06.0	−0.1	
			eS	13 58 06.0	−2.7	
			SMN	$m_B = 5.4$	12.0	0.96
NJ2	77.9	310	+iP	13 49 24.0	0.3	
			iS	13 58 34.0	2.2	
			SMN	$m_B = 6.1$	4.0	1.60
GZH	78.0	299	+P	13 49 25.4	0.8	
			S	13 58 34.0	2.0	
MDJ	78.1	325	+iP	13 49 25.5	0.2	
			sP	13 52 22.0	1.8	
			PcP	13 49 33.3	1.2	
			S	13 58 39.0	5.8	
			SME	$m_B = 5.5$	8.0	0.80
			ScS	13 58 55.0	4.0	

QZN	79.3	294	P	13 49 32.1	0.5		
			pP	13 51 27.0	−3.9		
			S	13 58 45.5	−0.1		
DL2	79.5	317	+iP	13 49 32.0	−0.5		
SNY	79.9	320	+iP	13 49 34.2	−0.4		
			esP	13 52 30.0	−0.1		
			iS	13 58 57.0	3.8		
			SMN			16.0	0.88
CN2	80.0	322	+iP	13 49 34.4	−0.5		
			PMZ			3.0	1.00
			pP	13 51 34.0	−0.4		
			sP	13 52 34.0	3.7		
			iS	13 58 56.0	2.3		
			SMN	$m_B = 5.7$		6.0	0.80
WHN	80.5	306	+P	13 49 38.0	0.3		
			S	13 59 00.0	2.4		
			SMN	$m_B = 5.5$		6.0	0.52
TIA	81.2	312	+P	13 49 41.1	0.0		
			esP	13 52 32.1	−4.7		
			S	13 59 07.4	3.3		
			SMN	$m_B = 5.3$		11.0	0.60
BJI	83.7	315	eP	13 49 53.0	−0.8		
			eS	13 59 32.0	1.4		
			SMN	$m_B = 5.3$		6.0	0.32
GYA	84.9	300	P	13 50 00.6	0.7		
			sP	13 52 52.6	−3.9		
			SKS	13 59 32.8	4.5		
			S	13 59 44.0	3.4		
TIY	85.2	312	+iP	13 50 01.6	0.5		
			PMZ			1.0	0.19
			S	13 59 48.5	5.5		
XAN	86.2	307	+iP	13 50 06.2	0.4		
			PMZ			1.2	0.35
			iS	13 59 59.0	5.0		
			SMN	$m_B = 5.9$		6.0	0.95
HHC	87.2	315	+iP	13 50 11.0	0.3		
			S	14 00 04.0	2.4		
			SMN	$m_B = 5.7$		7.0	0.59
			SME			6.0	0.33
KMI	87.7	297	+iP	13 50 14.0	0.7		
			S	14 00 12.0	5.7		
			SMN	$m_B = 5.5$		6.0	0.40
BTO	88.2	314	+P	13 50 15.0	−0.2		
			esP	13 53 13.0	0.5		
			S	14 00 08.0	−2.2		
CD2	89.0	303	eP	13 50 19.0	0.0		
			PMZ	$m_B = 5.8$		4.0	0.58
			S	14 00 22.0	4.4		
			SMN	$m_B = 6.0$		8.0	1.58
LZH	90.8	308	+iP	13 50 28.5	1.0		
			PMZ			1.5	0.21
GTA	95.0	310	+iP	13 50 46.0	−0.4		

1987 2 14
O = 15 44 15.8 ± 0.10s
LAT = 45.54 S ± 2.40km
LONG = 76.79 W ± 5.02km
DEPTH = 12 km ± 0.57km
STATIONS USED = 18, STAND DEV = 2.44s
Ms = 5.7 / 1,

KSH	159.1	97	ePKP	16 04 18.0	3.1	
LSA	161.6	145	ePKP	16 04 18.8	0.9	
XAN	167.7	203	ePKP	16 04 24.0	1.1	
WMQ	168.8	93	ePKP	16 04 23.5	−0.1	
LZH	170.5	183	ePKP	16 04 26.5	1.7	
GTA	173.4	157	ePKP	16 04 29.5	3.3	
			SS	16 30 55.0	−4.8	
			LE	Ms = 5.7	18.0	1.23

1987 2 14
O = 16 42 17.2 ± 0.10s
LAT = 54.81 N ± 2.47km
LONG = 161.54 E ± 1.73km
DEPTH = 32 km ± 0.09km
STATIONS USED = 80, STAND DEV = 1.37s
Ms = 5.3 / 19, m_B = 5.5 / 3

MDJ	22.8	257	eP	16 47 20.0	1.0	
			S	16 51 20.0	−1.3	
CN2	25.7	260	eP	16 47 46.0	−0.5	
			epP	16 47 59.0	3.8	
			eS	16 52 11.0	0.1	
SNY	28.0	258	+iP	16 48 09.2	1.5	
			PMZ		17.0	4.41
			PcP	16 51 23.1	1.3	
			eS	16 52 50.0	1.4	
DL2	31.1	256	eP	16 48 32.5	−2.5	
			PcP	16 51 30.3	0.7	
BJI	33.4	263	eP	16 48 58.0	2.6	
			ePcP	16 51 37.0	1.0	
			LN	Ms = 5.3	15.0	2.60
			LE		15.0	1.11
TIA	35.5	257	eP	16 49 12.9	−0.6	
			eS	16 54 44.5	−1.8	
			LN	Ms = 5.2	20.0	1.98
			LE		18.0	1.64
HHC	35.5	268	eP	16 49 14.4	0.6	
			iPcP	16 51 43.6	1.5	
			LN	Ms = 5.4	13.0	1.91
			LE		13.0	1.72
BTO	36.6	269	eP	16 49 21.8	−1.0	

			PP	16 50 43.0	−4.3		
			S	16 54 59.0	−3.1		
			LN	Ms=5.3		14.0	2.10
			LE			14.0	0.80
SSE	37.1	247	eP	16 49 27.0	0.1		
			PcP	16 51 48.5	1.7		
			eS	16 55 10.0	−0.8		
			sS	16 55 26.0	0.1		
			LN	Ms=5.2		20.0	2.40
TIY	37.1	263	eP	16 49 26.0	−1.2		
			eS	16 55 08.5	−2.9		
			iPcP	16 51 47.9	1.1		
			LN	Ms=5.2		16.0	1.56
			LE			15.0	1.33
NJ2	37.6	251	eP	16 49 32.0	0.7		
WHN	41.3	254	eP	16 50 01.0	−0.4		
			eS	16 56 14.0	0.6		
			LE	Ms=5.0		18.0	1.10
XAN	41.7	262	P	16 50 04.6	−0.9		
			iPcP	16 52 02.5	1.0		
			ScP	16 55 51.0	3.1		
			LN	Ms=5.3		13.0	1.45
			LE			13.0	1.16
LZH	43.2	269	eP	16 50 16.5	−1.2		
			LN	Ms=5.6		12.0	2.42
			LE			13.0	1.89
GTA	43.3	276	+iP	16 50 19.1	0.9		
			ScP	16 55 56.8	2.8		
QZH	43.4	244	eP	16 50 14.0	−4.9		
			LN	Ms=5.1		14.0	0.65
			LE			14.0	0.79
CD2	47.0	264	eP	16 50 46.8	−0.9		
			eS	16 57 38.0	1.4		
			LE	Ms=5.2		12.0	1.11
WMQ	47.2	289	P	16 50 51.0	1.5		
GYA	48.7	257	P	16 51 01.0	−0.1		
			ScP	16 56 20.4	3.9		
			S	16 58 01.0	1.4		
			LN	Ms=5.3		17.0	1.20
			LE			17.0	1.30
QZN	52.9	249	eP	16 51 34.6	2.0		
			eS	16 58 59.0	0.9		
			LE	Ms=5.4		18.0	2.00
LSA	55.2	273	P	16 51 48.6	−1.5		
KSH	56.6	292	cP	16 52 01.5	1.6		
			LE	Ms=5.8		13.0	3.20

1987 2 14
O=19 20 34.6 ± 0.24s
LAT=16.02 S ± 3.65km
LONG=176.13 W ± 3.63km
DEPTH=382 km ± 0.72km
STATIONS USED = 35, STAND DEV= 1.69s

MDJ	77.9	324	eP	19 31 54.0	0.3	
DL2	79.8	315	eP	19 32 03.2	−0.1	
CN2	79.9	321	−P	19 32 04.0	−0.1	
SNY	80.0	319	−P	19 32 04.8	0.3	
BJI	84.0	314	eP	19 32 25.0	−0.1	
TIY	85.7	311	−P	19 32 34.0	0.7	
GYA	86.0	299	P	19 32 36.6	1.5	
XAN	86.9	307	P	19 32 39.7	0.6	

1987 2 14
O=23 03 13.8 ± 0.14s
LAT=41.51 N ± 1.62km
LONG= 79.52 E ± 1.42km
DEPTH= 26 km ± 0.34km
STATIONS USED = 36, STAND DEV= 2.69s
Ms=4.4/ 1, M_L=4.3/ 5,

KSH	3.4	234	Pn	23 04 12.5	6.8		
			LE	Ms=4.4		8.0	8.50
WMQ	6.5	66	Pn	23 04 50.8	2.9		
			Pg	23 05 12.4	4.5		
			Sn	23 06 08.6	5.9		
			Sg	23 06 42.2	5.9		
			SMN	M_L=4.3		1.0	0.19
			SME			1.0	0.16
LSA	15.1	138	eP	23 06 49.6	1.8		
GTA	15.6	91	eP	23 06 51.3	−2.6		
			SMN			1.3	0.040
			SME			1.0	0.010
CD2	22.2	111	eP	23 08 11.4	1.6		
XAN	24.3	98	eP	23 08 31.8	0.9		
TIY	25.6	88	eP	23 08 40.5	−2.2		
GYA	26.9	115	P	23 09 00.6	5.3		
WHN	30.0	100	eP	23 09 25.2	2.0		

1987 2 15
O=02 55 22.9 ± 0.09s
LAT=36.87 N ± 2.47km
LONG=142.22 E ± 2.01km
DEPTH= 61 km ± 1.99km
STATIONS USED = 42, STAND DEV= 2.14s
Ms=4.4/ 6,

MDJ	12.3	313	eP	02 58 18.6	1.1		
CN2	14.5	304	eP	02 58 48.0	1.2		
			eS	03 01 28.0	2.0		
SNY	15.2	295	−P	02 58 58.6	2.6		
			LE	Ms=4.4		14.0	1.18
TIA	20.2	276	eP	02 59 55.0	0.0		

			LN	Ms=4.4	14.0	0.74	
			LE		14.0	0.36	
BJI	20.6	287	eP	02 59 56.0	−3.7		
TIY	23.7	281	eP	03 00 35.4	5.4		
			S	03 04 33.5	−2.5		
			LN	Ms=4.3	15.0	0.22	
			LE		13.0	0.42	
WHN	24.0	263	eP	03 00 36.0	3.1		
XAN	27.2	274	eP	03 01 03.0	−0.2		
GZH	28.4	249	eP	03 01 15.0	0.9		
LZH	30.7	280	eP	03 01 34.5	−0.5		
GYA	31.8	261	P	03 01 44.0	−0.6		
			S	03 06 53.4	5.3		
CD2	32.3	271	P	03 01 47.8	−1.0		
GTA	33.2	288	P	03 01 56.6	−0.2		
WMQ	41.5	297	P	03 03 08.5	2.5		

1987 2 15
O=03 14 58.4 ± 0.17s
LAT= 5.20 N ± 2.06km
LONG= 94.42 E ± 1.44km
DEPTH= 32 km ± 0.21km
STATIONS USED = 26, STAND DEV= 1.45s

QZN	20.4	46	eP	03 19 36.6	1.4		
LSA	24.6	353	P	03 20 16.6	−0.8		
GZH	25.5	44	eP	03 20 26.5	0.8		
CD2	27.0	18	P	03 20 39.1	−1.0		
WHN	31.4	34	eP	03 21 20.0	0.7		
XAN	31.7	23	+iP	03 21 20.3	−1.4		
GTA	34.4	7	+P	03 21 44.3	−1.0		
WMQ	38.9	352	eP	03 22 23.0	−0.3		
BJI	39.8	26	eP	03 22 32.0	1.1		
CN2	47.2	31	eP	03 23 29.0	−1.1		

1987 2 15
O=06 58 59.6 ± 0.11s
LAT=15.11 S ± 3.15km
LONG=175.57 W ± 2.65km
DEPTH= 32 km ± 0.27km
STATIONS USED = 13, STAND DEV= 2.31s

BJI	83.8	314	eP	07 11 28.0	0.4		
XAN	86.8	306	eP	07 11 43.0	0.4		

1987 2 15
O=09 02 37.8 ± 0.10s
LAT=29.04 N ± 0.93km
LONG=104.75 E ± 0.81km
DEPTH= 18 km ± 0.27km
STATIONS USED = 11, STAND DEV= 2.31s
M_L=3.3/ 8,

GYA	3.1	146	Pn	09 03 29.0	2.8		
			SMN	M_L=3.3		1.0	0.16
			SME			1.0	0.090
XAN	6.1	34	ePg	09 04 25.5	−0.7		
			Sg	09 05 47.0	−2.8		
			SMN	M_L=3.5		1.2	0.030
			SME			1.2	0.040

1987 2 15
O=09 39 54.4 ± 0.07s
LAT=36.81 N ± 2.75km
LONG=141.96 E ± 2.39km
DEPTH= 55 km ± 1.49km
STATIONS USED = 39, STAND DEV= 2.45s
Ms=4.0/ 2,

MDJ	12.2	314	eP	09 42 49.0	1.1		
CN2	14.4	304	eP	09 43 18.0	1.2		
TIA	20.0	276	eP	09 44 23.2	−1.8		
			LN	Ms=4.0		11.5	0.26
BJI	20.4	287	eP	09 44 27.0	−2.9		
WHN	23.8	263	eP	09 45 01.8	−1.1		
XAN	27.0	274	eP	09 45 32.5	−1.0		
GYA	31.6	261	P	09 46 14.2	−0.7		
CD2	32.1	271	eP	09 46 17.8	−1.3		
GTA	33.0	288	P	09 46 25.6	−1.8		
WMQ	41.3	297	P	09 47 38.0	1.1		

1987 2 15
O=13 34 38.4 ± 0.07s
LAT=48.12 N ± 0.54km
LONG=122.08 E ± 0.61km
DEPTH= 9 km ± 0.31km
STATIONS USED = 5, STAND DEV= 3.15s
M_L=2.4/ 3,

1987 2 15
O=19 26 30.3 ± 0.11s
LAT=24.35 N ± 1.79km
LONG= 94.68 E ± 1.28km
DEPTH=110 km ± 0.62km
STATIONS USED = 55, STAND DEV= 2.11s
m_B=5.1/ 2

LSA	6.2	330	−iP	19 28 01.4	0.2		
			SMN			2.0	0.62
KMI	7.4	82	+P	19 28 19.0	1.9		
CD2	10.4	49	eP	19 28 56.4	−0.8		
GYA	11.0	76	P	19 29 09.8	3.5		
			sP	19 29 40.2	4.6		
LZH	14.1	32	eP	19 29 44.5	−2.2		
QZN	15.1	108	eP	19 30 00.8	2.4		

			eS	19 32 44.5	1.8		
GTA	15.6	15	eP	19 30 05.2	−0.7		
			pP	19 30 21.4	3.3		
XAN	15.7	49	+P	19 30 07.0	0.0		
			sP	19 30 40.0	1.6		
WHN	18.5	66	eP	19 30 40.0	−0.5		
WMQ	20.2	345	−P	19 31 00.3	1.1		
			eS	19 34 39.0	3.6		
			SMN			2.5	0.060
KSH	21.8	318	P	19 31 18.5	3.5		
			PP	19 31 43.0	−2.2		
			eS	19 35 09.0	4.4		
			SME	$m_B = 5.2$		6.0	0.33
NJ2	22.6	65	eP	19 31 21.8	−0.8		
			LN			10.0	1.20
BJI	23.9	44	eP	19 31 37.0	2.0		
			epP	19 32 00.5	2.4		
SSE	24.4	68	eP	19 31 37.5	−2.0		
			PMZ			0.8	0.020
			epP	19 31 59.0	−3.7		

1987 2 15
O = 19 41 01.1 ± 0.11s
LAT = 37.01 N ± 1.99km
LONG = 141.28 E ± 1.93km
DEPTH = 44 km ± 1.97km
STATIONS USED = 67, STAND DEV = 1.99s
Ms = 4.5 / 12, m_B = 5.2 / 1

MDJ	11.7	314	+P	19 43 52.5	4.6		
			eSS	19 46 18.0	6.6		
CN2	13.8	304	+P	19 44 20.0	3.3		
SNY	14.5	295	+P	19 44 27.2	1.7		
			LN	Ms = 4.6		12.0	1.03
			LE			14.0	1.52
SSE	17.7	256	eP	19 45 04.0	−1.6		
			esS	19 48 29.0	−3.7		
			SS	19 48 38.0	−2.2		
			LE	Ms = 4.3		10.0	0.57
NJ2	19.1	262	eP	19 45 21.5	−1.8		
TIA	19.4	275	eP	19 45 24.4	−2.1		
			eS	19 49 00.0	2.7		
			LN	Ms = 4.7		12.0	0.89
			LE			12.0	0.87
BJI	19.9	286	eP	19 45 30.0	−1.4		
TIY	22.9	281	eP	19 46 01.6	−0.8		
			eS	19 50 04.5	−0.3		
			sS	19 50 21.0	−1.6		
			LN	Ms = 4.5		13.0	0.32
			LE			13.0	0.69
WHN	23.3	262	−iP	19 46 06.0	0.3		
			eS	19 50 11.0	0.3		
			LE	Ms = 4.5		12.0	0.70
HHC	23.4	289	eP	19 46 06.0	−1.1		
BTO	24.6	288	eP	19 46 18.0	−0.5		
			eS	19 50 30.5	−3.1		
			LN	Ms = 4.3		14.0	0.30
			LE			14.0	0.30
XAN	26.4	273	P	19 46 37.6	1.5		
GZH	27.8	248	eP	19 46 49.5	1.4		
LZH	30.0	280	eP	19 47 08.0	−0.1		
GYA	31.1	260	P	19 47 17.2	−1.0		
			S	19 52 18.0	−0.3		
CD2	31.6	270	eP	19 47 21.6	−0.5		
GTA	32.5	287	P	19 47 29.5	−0.6		
			PcP	19 50 17.2	1.6		
			LN	Ms = 4.4		16.0	0.42
QZN	32.8	246	eP	19 47 34.6	1.6		
			eS	19 52 50.0	4.1		
KMI	34.9	261	+P	19 47 50.5	−0.2		
WMQ	40.8	297	−P	19 48 41.5	1.5		

1987 2 15
O = 22 38 45.6 ± 0.33s
LAT = 15.33 S ± 5.20km
LONG = 177.12 W ± 4.47km
DEPTH = 36 km ± 0.61km
STATIONS USED = 58, STAND DEV = 1.92s
Ms = 5.6 / 18, m_B = 5.6 / 4

SSE	75.1	309	eP	22 50 26.0	−0.2		
			epP	22 50 37.0	0.6		
			eS	23 00 05.0	4.0		
			esS	23 00 23.0	5.0		
			ScS	23 00 34.0	2.7		
			LN	Ms = 5.6		20.0	1.02
			LE			22.0	2.06
MDJ	76.8	324	eP	22 50 36.6	0.4		
			eS	23 00 26.0	5.8		
NJ2	77.3	309	eP	22 50 36.0	−2.8		
			LE	Ms = 5.2		18.0	0.60
DL2	78.6	316	eP	22 50 48.0	2.0		
			eS	23 00 42.0	2.7		
			LN	Ms = 5.4		14.0	0.89
CN2	78.8	322	+P	22 50 46.0	−1.0		
			PMZ	m_B = 6.0		5.0	0.90
			eS	23 00 40.0	−1.1		
SNY	78.8	319	+P	22 50 47.0	−0.3		
			pP	22 50 56.5	−1.0		
			eS	23 00 48.0	6.2		
			LN	Ms = 5.6		26.0	2.16
QZN	79.6	293	eP	22 50 49.5	−1.8		

			eS	23 00 52.0	2.5		
			LE	Ms=5.3		20.0	0.90
WHN	80.1	305	eP	22 50 54.8	0.6		
			eS	23 01 00.0	4.8		
			SME	m_B=5.4		10.0	0.31
			LE	Ms=5.6		20.0	1.81
TIA	80.4	312	eP	22 50 55.9	−0.2		
			LN	Ms=5.7		14.0	0.81
			LE			19.0	1.65
BJI	82.8	315	eP	22 51 08.0	−0.5		
			LE	Ms=5.5		20.0	1.25
TIY	84.5	311	eP	22 51 17.2	0.3		
			pP	22 51 27.0	0.0		
			LN	Ms=5.5		17.0	0.77
			LE			19.0	0.74
GYA	84.9	299	P	22 51 23.0	4.2		
XAN	85.7	307	P	22 51 22.7	−0.2		
			eS	23 01 55.0	3.2		
HHC	86.4	314	eP	22 51 26.6	0.3		
			eS	23 02 02.0	3.6		
			SMN			27.0	2.07
			SME			26.0	3.41
BTO	87.3	313	−P	22 51 31.4	0.4		
			ePP	22 54 56.0	−1.0		
			eSKS	23 01 56.0	4.0		
			S	23 02 10.0	4.2		
			LN	Ms=5.9		20.0	2.40
			LE			20.0	1.90
KMI	87.8	297	eP	22 51 34.5	1.3		
			pP	22 51 46.5	3.3		
			eS	23 02 09.0	−2.9		
			LE	Ms=5.6		20.0	1.50
CD2	88.7	302	eP	22 51 39.0	1.4		
			SKS	23 02 06.0	5.4		
			eS	23 02 27.0	6.5		
			LE	Ms=5.7		22.0	1.88
LZH	90.3	307	eP	22 51 45.5	0.3		
			PMZ			1.6	0.060
GTA	94.3	310	eP	22 52 02.5	−1.2		
			LE	Ms=5.7		22.0	1.90

1987 2 16

O=02 22 46.0 ± 0.15s
LAT=22.85 N ± 2.53km
LONG=120.71 E ± 2.05km
DEPTH= 29 km ± 0.90km
STATIONS USED = 50, STAND DEV= 2.60s
Ms=4.4/11, M_L=4.4/11, m_B=4.9/1

QZH	2.8	318	Pn	02 23 30.3	0.4		
			Sn	02 24 01.4	−3.3		
			Sg	02 24 11.0	−4.4		
			SMN	M_L=4.1		0.3	0.97
			SME			0.3	0.59
			LN			3.0	2.46
GZH	6.8	273	P	02 24 24.0	−2.3		
			S	02 25 39.4	−3.8		
			LN	Ms=4.6		5.0	2.19
			LE			4.0	1.22
SSE	8.2	3	eP	02 24 42.0	−4.3		
			LN	Ms=4.2		12.0	1.80
NJ2	9.3	350	eP	02 24 59.4	−2.0		
			eS	02 26 44.0	−2.2		
			LN	Ms=4.8		5.0	2.20
WHN	9.5	325	P	02 25 02.5	−2.0		
			LN	Ms=4.2		11.0	1.20
QZN	10.8	251	eP	02 25 21.4	−1.0		
			eS	02 27 22.0	−1.8		
			LE	Ms=4.2		15.0	1.30
GYA	13.3	289	P	02 25 55.0	−0.2		
			PP	02 26 04.4	−1.3		
			S	02 28 22.4	0.2		
XAN	15.2	320	eP	02 26 21.0	0.4		
			PP	02 26 35.5	3.0		
			LN	Ms=4.3		10.0	0.65
TIY	16.4	336	eP	02 26 41.5	5.2		
			LN	Ms=4.5		12.0	0.84
			LE			12.0	0.61
CD2	17.1	302	eP	02 26 45.8	1.0		
			LN	Ms=4.9		5.0	1.04
BJI	17.6	348	eP	02 26 52.0	1.6		
SNY	19.1	7	−iP	02 27 09.2	0.1		
LZH	19.7	316	eP	02 27 19.5	3.3		
GTA	24.2	318	P	02 28 03.4	1.5		
LSA	27.3	291	+P	02 28 33.0	1.9		

1987 2 16

O=04 24 28.6 ± 0.10s
LAT= 2.88 S ± 1.19km
LONG=147.44 E ± 3.32km
DEPTH= 9 km ± 0.55km
STATIONS USED = 30, STAND DEV= 1.77s

SSE	42.0	325	eP	04 32 23.0	0.4
			eS	04 38 44.0	2.1
			eSS	04 41 48.0	5.6
GYA	49.0	309	eP	04 33 23.0	4.6
CN2	50.5	339	eP	04 33 32.0	2.3
XAN	51.6	319	eP	04 33 37.0	−1.2
CD2	53.5	312	eP	04 33 51.9	−0.2
BTO	55.1	326	eP	04 34 05.5	1.1
LZH	56.2	318	eP	04 34 12.0	0.0

GTA	60.7	319	P	04 34 42.9	−0.4		
WMQ	70.7	319	eP	04 35 48.0	0.0		

1987 2 16
O = 09 38 12.5 ± 0.11s
LAT = 0.75 N ± 1.58km
LONG = 126.14 E ± 2.32km
DEPTH = 26 km ± 0.19km
STATIONS USED = 82, STAND DEV = 1.26s
Ms = 4.9 / 18, m_B = 5.4 / 2

QZN	24.2	320	P	09 43 29.1	0.9		
			pP	09 43 33.0	−3.0		
			eS	09 47 45.0	2.7		
			LN	Ms = 5.0		19.0	2.30
			LE			16.0	1.30
GZH	25.4	332	−P	09 43 40.0	−0.2		
			S	09 48 04.0	1.4		
			LN	Ms = 4.7		15.0	1.02
SSE	30.5	352	eP	09 44 27.0	0.6		
			esP	09 44 40.0	2.1		
			iS	09 49 26.0	0.6		
			SMN			15.0	0.65
			eSS	09 51 06.0	0.2		
			LN	Ms = 4.8		24.0	1.60
WHN	31.7	340	P	09 44 38.6	2.2		
			pP	09 44 42.0	−2.3		
			S	09 49 48.0	5.6		
			LN	Ms = 4.7		16.0	0.80
GYA	31.7	325	P	09 44 37.0	0.2		
			pP	09 44 41.0	−3.5		
			PcP	09 47 29.0	1.5		
			S	09 49 46.6	3.8		
			ScS	09 55 08.4	4.0		
NJ2	31.9	348	eP	09 44 40.0	1.8		
			eS	09 49 48.0	1.5		
KMI	33.1	319	−P	09 44 51.0	1.6		
TIA	36.3	348	eP	09 45 16.4	0.5		
			esP	09 45 23.5	−3.9		
			eS	09 50 51.0	−3.5		
			LN	Ms = 4.6		25.0	0.84
CD2	36.7	327	P	09 45 19.2	−0.9		
			S	09 50 59.0	−2.0		
XAN	36.8	336	P	09 45 19.7	−1.1		
			S	09 51 00.0	−2.4		
			LE	Ms = 4.9		16.0	0.95
DL2	38.2	354	eP	09 45 32.0	−0.2		
TIY	38.9	343	−P	09 45 37.5	−0.6		
			S	09 51 38.5	4.8		
			LN	Ms = 4.8		15.0	0.66
BJI	40.1	348	eP	09 45 47.5	−0.9		
			PcP	09 47 53.0	0.5		
			cS	09 51 52.0	−1.4		
LZH	40.8	332	−iP	09 45 54.0	0.0		
			PMZ			1.5	0.19
			cS	09 52 00.0	−3.6		
			LE	Ms = 5.0		20.0	1.23
SNY	41.0	357	+P	09 45 54.0	−1.1		
			LN	Ms = 5.0		27.0	1.24
			LE			26.0	1.19
HHC	42.0	343	eP	09 46 04.5	0.3		
			eS	09 52 22.0	0.1		
BTO	42.3	342	P	09 46 06.5	0.4		
			esP	09 46 14.0	−3.6		
			ePP	09 47 47.0	0.0		
			eS	09 52 24.0	−1.3		
CN2	42.9	359	P	09 46 10.0	−0.8		
			eS	09 52 30.0	−3.7		
MDJ	43.8	4	−P	09 46 18.5	0.2		
			pP	09 46 22.0	−4.4		
			PP	09 47 57.0	−4.8		
			S	09 52 44.0	−2.1		
			SS	09 55 50.0	−5.1		
			LN	Ms = 4.7		30.0	0.80
LSA	44.0	314	−P	09 46 20.2	−0.4		
GTA	45.4	331	+P	09 46 30.5	−0.6		
			PcP	09 48 11.2	1.3		
			PcS	09 52 02.6	0.0		
			eS	09 53 09.0	−1.3		
			ScS	09 56 25.0	2.5		
			LN	Ms = 5.1		24.0	1.04
			LE			17.0	0.89
WMQ	54.8	327	P	09 47 42.0	−1.4		
			PMZ			1.5	0.13
			PcP	09 48 44.0	−0.5		
			PP	09 49 46.0	−0.7		
			eS	09 55 24.5	2.9		
			ScS	09 57 27.0	0.6		
			LE	Ms = 5.1		22.0	1.18
KSH	59.7	316	eP	09 48 19.5	1.4		
			eS	09 56 28.0	1.9		
			LN	Ms = 5.1		6.0	0.30

1987 2 16
O = 10 26 07.8 ± 0.14s
LAT = 5.61 S ± 1.41km
LONG = 147.69 E ± 2.33km
DEPTH = 56 km ± 1.84km
STATIONS USED = 51, STAND DEV = 1.50s

QZH	41.5	318	P	10 33 52.5	0.8		
GZH	44.0	312	−P	10 34 13.5	1.2		

SSE	44.4	327	eP	10 34 16.5	1.1		
QZN	44.6	304	–P	10 34 18.3	1.5		
NJ2	46.4	326	–P	10 34 32.6	1.2		
WHN	48.1	320	eP	10 34 45.5	1.3		
GYA	50.9	311	P	10 35 07.6	1.2		
SNY	52.1	337	eP	10 35 14.0	–0.8		
MDJ	52.6	344	eP	10 35 18.0	–0.5		
CN2	53.1	340	eP	10 35 22.0	–0.6		
XAN	53.8	320	+P	10 35 27.4	–0.4		
BJI	53.9	330	eP	10 35 27.0	–1.3		
TIY	54.2	326	eP	10 35 30.5	0.1		
CD2	55.5	314	+iP	10 35 40.2	0.2		
			PMZ			0.7	0.050
LZH	58.4	319	eP	10 36 00.5	0.0		
			PMZ			1.0	0.080
GTA	62.9	320	+P	10 36 31.0	–0.2		
LSA	64.6	307	eP	10 36 41.2	–1.3		
WMQ	72.9	319	eP	10 37 32.6	–1.3		
KSH	79.6	312	eP	10 38 11.7	0.0		

1987 2 16
O = 15 23 50.2 ± 0.23s
LAT = 36.02 N ± 1.90km
LONG = 81.27 E ± 0.73km
DEPTH = 20 km
STATIONS USED = 6, STAND DEV = 2.97s
M_L = 4.2 / 3,

KSH	5.4	311	ePn	15 25 11.5	0.9		
			SMN	M_L = 4.5		0.9	0.60
			SME			0.7	0.40
WMQ	9.2	30	eP	15 26 06.6	1.1		
			SMN			1.0	0.83

1987 2 16
O = 16 39 48.8 ± 0.11s
LAT = 0.77 N ± 1.42km
LONG = 126.23 E ± 2.17km
DEPTH = 32 km ± 0.10km
STATIONS USED = 63, STAND DEV = 1.16s
Ms = 4.4 / 2,

QZN	24.2	319	eP	16 45 04.0	–0.1		
			eS	16 49 20.0	2.0		
QZH	25.1	344	eP	16 45 14.5	1.7		
GZH	25.5	331	eP	16 45 17.0	1.1		
SSE	30.5	351	eP	16 46 00.0	–1.8		
			eS	16 51 00.0	–0.3		
			LN	Ms = 4.5		19.0	0.59
GYA	31.7	325	P	16 46 13.0	0.5		
KMI	33.2	319	eP	16 46 27.0	1.7		
CD2	36.8	327	eP	16 46 55.1	–0.7		
XAN	36.9	336	P	16 46 55.1	–1.3		
DL2	38.2	354	eP	16 47 08.1	0.6		
TIY	38.9	342	eP	16 47 13.0	–0.6		
			S	16 53 15.5	6.8		
BJI	40.1	348	eP	16 47 23.0	–0.8		
LZH	40.8	332	eP	16 47 30.0	0.4		
			PMZ			1.5	0.070
SNY	40.9	357	+iP	16 47 30.7	0.3		
CN2	42.9	359	eP	16 47 45.0	–1.1		
MDJ	43.8	3	–P	16 47 54.2	0.7		
LSA	44.1	314	P	16 47 55.3	–1.1		
GTA	45.4	331	P	16 48 06.3	–0.5		
WMQ	54.9	327	P	16 49 18.5	–0.5		
KSH	59.8	316	eP	16 49 54.5	0.7		

1987 2 16
O = 17 20 41.2 ± 0.10s
LAT = 0.78 N ± 1.33km
LONG = 126.27 E ± 1.43km
DEPTH = 32 km ± 0.05km
STATIONS USED = 42, STAND DEV = 0.86s

GZH	25.5	331	eP	17 26 07.0	–1.4
GYA	31.7	325	P	17 27 05.6	0.5
CD2	36.8	327	eP	17 27 48.2	–0.1
XAN	36.9	336	–P	17 27 48.0	–0.9
TIY	38.9	342	–P	17 28 06.3	0.3
BJI	40.1	348	eP	17 28 17.0	0.8
LZH	40.8	332	eP	17 28 22.0	–0.1
SNY	40.9	357	+iP	17 28 23.2	0.5
CN2	42.8	359	eP	17 28 38.0	–0.4
MDJ	43.7	3	+P	17 28 46.5	0.7
LSA	44.1	314	P	17 28 48.8	–0.2
GTA	45.4	331	–iP	17 28 59.1	–0.2
WMQ	54.9	327	–P	17 30 11.5	0.0
KSH	59.8	316	eP	17 30 47.5	1.1

1987 2 16
O = 17 28 09.1 ± 0.10s
LAT = 0.85 N ± 1.65km
LONG = 126.18 E ± 1.95km
DEPTH = 15 km ± 0.05km
STATIONS USED = 100, STAND DEV = 1.13s
Ms = 5.9 / 49, m_B = 5.9 / 21

QZN	24.1	319	eP	17 33 26.0	0.1		
			PP	17 34 05.0	5.2		
			S	17 37 44.0	4.3		
			sS	17 37 51.0	0.6		
			LN	Ms = 5.9		20.0	22.6
			LE			17.0	13.3
QZH	25.0	344	eP	17 33 34.0	–0.6		

			pP	17 33 38.0	−2.6		
			PP	17 34 16.0	4.5		
			iS	17 37 56.0	0.2		
			SMN	m_B = 5.6		12.0	1.93
			SMN			20.0	8.71
			SME			18.0	5.32
			sS	17 38 04.0	−1.8		
			LN	Ms = 6.0		23.0	29.0
			LE			23.0	13.8
GZH	25.4	331	+P	17 33 37.5	−0.2		
			pP	17 33 40.5	−3.2		
			S	17 38 00.0	−0.5		
			LN	Ms = 5.9		17.0	18.2
			LE			15.0	3.33
SSE	30.4	352	P	17 34 24.0	0.2		
			PMZ	m_B = 6.0		5.0	1.31
			sP	17 34 32.0	−1.0		
			PP	17 35 25.0	2.2		
			eS	17 39 24.0	0.8		
			sS	17 39 32.0	−1.6		
			SS	17 41 06.0	3.6		
			LN	Ms = 5.9		20.0	13.8
			LE			23.0	11.1
WHN	31.6	340	+P	17 34 34.0	0.1		
			sP	17 34 42.0	−1.1		
			S	17 39 37.0	−3.4		
			LN	Ms = 5.8		17.0	10.0
GYA	31.6	325	P	17 34 35.4	1.0		
			sP	17 34 44.0	0.6		
			PcP	17 37 32.6	6.9		
			S	17 39 41.0	0.0		
			ScP	17 41 12.0	4.9		
			PcS	17 41 15.0	6.1		
			LN	Ms = 5.9		16.0	12.0
			LE			16.0	5.10
NJ2	31.8	348	+P	17 34 36.0	0.4		
			S	17 39 45.0	1.5		
			LN	Ms = 5.6		15 0	6.30
KMI	33.1	319	+P	17 34 48.0	0.8		
			pP	17 34 55.5	2.4		
			LN	Ms = 5.9		20.0	14.5
TIA	36.2	348	+P	17 35 14.2	0.8		
			esP	17 35 21.0	−1.6		
			S	17 40 50.0	−1.4		
			SMN			14.0	9.97
			SME			10.0	2.05
			LN	Ms = 6.6		15.0	52.4
			LE			19.0	6.61
CD2	36.7	327	eP	17 35 17.0	−0.7		
			PP	17 36 41.0	−1.1		
			S	17 40 58.0	−1.2		
			LN	Ms = 6.3		18.0	17.3
			LE			24.0	33.3
XAN	36.8	336	+P	17 35 17.2	−1.2		
			pP	17 35 20.7	−3.8		
			sP	17 35 25.0	−2.6		
			PP	17 36 43.0	−0.1		
			S	17 40 54.0	−6.4		
			ScP	17 41 28.5	3.3		
			LN	Ms = 6.0		24.0	12.6
			LE			20.0	11.8
DL2	38.1	354	P	17 35 31.0	1.4		
			PMZ	m_B = 6.1		5.0	1.53
			sP	17 35 38.0	−0.8		
			S	17 41 23.0	2.1		
			LN	Ms = 5.9		16.0	8.80
			LE			16.0	5.80
TIY	38.8	343	+P	17 35 35.3	−0.3		
			PMZ	m_B = 5.7		6.0	0.90
			sP	17 35 45.5	0.7		
			PP	17 37 03.5	−4.4		
			S	17 41 32.0	0.4		
			ScS	17 45 46.0	3.7		
			LN	Ms = 6.0		20.0	12.4
			LE			15.0	2.48
BJI	40.1	348	eP	17 35 45.5	−0.4		
			PMZ	m_B = 5.8		6.0	1.02
			eS	17 41 51.0	−0.3		
			SMN	m_B = 5.7		11.0	1.19
			SME			10.0	1.04
			LN	Ms = 5.7		17.0	5.48
LZH	40.7	332	P	17 35 51.5	−0.1		
			PMZ			3.0	0.64
			pP	17 35 55.0	−2.7		
			PP	17 37 30.0	1.7		
			S	17 42 00.0	−0.4		
			LN	Ms = 6.1		19.0	11.9
			LE			17.0	10.4
SNY	40.9	357	+iP	17 35 52.0	−0.5		
			PMZ	m_B = 6.3		6.0	2.92
			PcS	17 41 42.5	−0.2		
			S	17 42 04.0	1.6		
			SMN			21.0	9.54
			SS	17 44 56.5	−2.6		
			LN	Ms = 6.1		23.0	13.3
			LE			23.0	15.1
HHC	42.0	343	−P	17 36 02.0	0.3		
			PMZ	m_B = 5.8		8.0	1.36
			pP	17 36 09.0	1.2		
			PP	17 37 46.0	4.4		

			S	17 42 22.0	3.3		
			LN	Ms=5.9		17.0	8.07
			LE			18.0	3.99
BTO	42.2	342	+P	17 36 03.0	−0.6		
			pP	17 36 08.0	−1.8		
			PP	17 37 42.5	−1.6		
			S	17 42 21.0	−1.2		
			LN	Ms=6.0		20.0	8.90
			LE			20.0	10.5
CN2	42.8	359	+iP	17 36 07.0	−1.2		
			PMZ	m_B=6.0		5.0	1.30
			sP	17 36 13.5	−4.0		
			PP	17 37 45.0	−4.7		
			eS	17 42 29.0	−2.5		
			SMN	m_B=6.1		8.0	2.30
MDJ	43.7	4	+P	17 36 15.7	0.0		
			pP	17 36 17.8	−4.2		
			PP	17 37 58.5	−0.3		
			ScP	17 41 56.0	3.8		
			S	17 42 40.0	−3.9		
LSA	44.0	314	P	17 36 18.2	−0.3		
			pP	17 36 21.0	−3.3		
			S	17 42 51.0	2.9		
			sS	17 42 59.0	−0.6		
			LE	Ms=5.7		20.0	5.50
GTA	45.3	331	+iP	17 36 28.1	−0.7		
			pP	17 36 32.0	−3.0		
			sP	17 36 36.0	−1.9		
			PcP	17 38 09.2	1.2		
			PP	17 38 14.6	−0.1		
			PcS	17 42 03.0	2.4		
			S	17 43 05.0	−2.3		
			SMN	m_B=5.4		10.0	0.52
			ScS	17 46 21.0	−0.7		
			LE	Ms=5.9		17.0	8.15
WMQ	54.8	327	+P	17 37 40.5	−0.7		
			PcP	17 38 48.0	5.4		
			ScP	17 42 40.0	1.0		
			S	17 45 20.0	1.3		
			SME	m_B=5.9		11.0	1.58
			ScS	17 47 29.0	3.5		
			LN	Ms=6.3		19.0	7.11
			LE			21.0	15.3
KSH	59.7	316	P	17 38 17.0	1.0		
			sS	17 46 42.0	6.9		
			LN	Ms=6.2		17.0	8.70

1987 2 16
O=17 45 59.4 ± 0.09s
LAT= 0.89 N ± 1.48km
LONG=126.16 E ± 3.08km
DEPTH= 33 km ± 0.07km
STATIONS USED = 30, STAND DEV= 1.73s

QZN	24.1	319	cP	17 51 17.5	4.2
GYA	31.6	325	P	17 52 23.0	1.1
CD2	36.6	327	eP	17 53 05.2	0.0
XAN	36.7	336	eP	17 53 05.4	−0.4
TIY	38.8	343	eP	17 53 23.6	0.6
BJI	40.0	348	eP	17 53 34.0	0.8
SNY	40.8	357	+iP	17 53 40.5	0.6
MDJ	43.6	4	−P	17 54 04.0	0.9
GTA	45.3	331	P	17 54 16.3	0.1
WMQ	54.7	327	P	17 55 28.5	−0.1

1987 2 16
O=20 08 07.5 ± 0.06s
LAT= 0.88 N ± 0.81km
LONG=126.36 E ± 1.27km
DEPTH= 33 km ± 0.05km
STATIONS USED = 13, STAND DEV= 0.94s

XAN	36.8	335	eP	20 15 15.0	0.4
BJI	40.1	348	P	20 15 43.0	1.3
SNY	40.8	357	eP	20 15 49.2	1.1
CN2	42.7	359	eP	20 16 03.0	−0.8
MDJ	43.6	3	−P	20 16 11.5	0.4
GTA	45.4	331	eP	20 16 24.1	−0.9
WMQ	54.8	326	P	20 17 37.4	0.0

1987 2 16
O=22 20 48.8 ± 0.12s
LAT= 0.90 N ± 1.82km
LONG=126.23 E ± 2.86km
DEPTH= 32 km ± 0.11km
STATIONS USED = 57, STAND DEV= 1.59s
Ms=4.6/ 4, m_B=5.4/ 1

QZN	24.1	319	eP	22 26 04.0	0.9	
			PP	22 26 35.5	−2.0	
			eS	22 30 22.0	5.8	
			LN	Ms=4.5	12.0	0.50
			LE		12.0	0.40
GZH	25.4	331	eP	22 26 16.0	1.3	
			eS	22 30 42.0	5.3	
SSE	30.4	351	eP	22 27 03.0	2.5	
			LN	Ms=4.6	20.0	0.90
WHN	31.6	340	eP	22 27 09.5	−1.3	
GYA	31.6	325	P	22 27 13.6	2.1	
KMI	33.1	319	−P	22 27 25.5	1.2	
CD2	36.7	327	eP	22 27 54.0	−0.8	
XAN	36.7	336	eP	22 27 54.4	−0.9	
TIY	38.8	342	eP	22 28 12.2	−0.2	

			LE	Ms=4.4	14.0	0.24	
BJI	40.0	348	eP	22 28 21.0	−1.6		
LZH	40.7	332	eP	22 28 29.0	0.4		
SNY	40.8	357	+iP	22 28 29.6	0.4		
CN2	42.7	359	eP	22 28 46.0	1.1		
MDJ	43.6	3	+P	22 28 52.8	0.5		
GTA	45.3	331	P	22 29 05.0	−0.8		
			PcP	22 30 45.9	1.0		
WMQ	54.8	326	P	22 30 17.2	−0.9		
KSH	59.7	316	P	22 30 55.5	2.4		

1987 2 16
O=22 58 03.2 ± 0.15s
LAT= 0.80 N ± 1.38km
LONG=126.44 E ± 2.18km
DEPTH=115 km ± 1.03km
STATIONS USED = 32, STAND DEV= 1.75s

GZH	25.5	331	eP	23 03 23.0	−0.1		
TIY	38.9	342	eP	23 05 19.4	−0.4		
BJI	40.2	348	eP	23 05 29.0	−0.8		
LZH	40.9	332	eP	23 05 36.0	−0.1		
SNY	40.9	357	eP	23 05 36.4	0.3		
CN2	42.8	359	eP	23 05 50.6	−1.1		
MDJ	43.7	3	−P	23 06 00.0	1.0		
WMQ	55.0	326	P	23 07 25.3	0.1		

1987 2 17
O=00 51 08.7 ± 0.10s
LAT=33.56 N ± 0.43km
LONG=120.17 E ± 0.92km
DEPTH= 11 km ± 0.36km
STATIONS USED = 7, STAND DEV= 2.96s

			M_L=2.8 / 7,				
NJ2	1.9	217	+Pn	00 51 40.4	−0.7		
			Pg	00 51 45.6	3.8		
			SMN	M_L=2.8		0.6	0.070
			SME			0.6	0.10
SSE	2.6	160	ePn	00 51 52.0	0.8		
			Pg	00 51 54.5	−0.2		
			Sn	00 52 23.0	−1.7		
			Sg	00 52 25.5	−4.8		
			SMN	M_L=2.7		0.5	0.020
			SME			0.5	0.060

1987 2 17
O=01 26 01.7 ± 0.03s
LAT=33.49 N ± 0.20km
LONG=119.92 E ± 0.43km
DEPTH= 10 km
STATIONS USED = 7, STAND DEV= 1.22s

			M_L=2.7 / 7,				
NJ2	1.7	212	+Pn	01 26 30.6	−1.2		
			SMN	M_L=2.7		0.6	0.070
			SME			0.6	0.10
SSE	2.6	156	cPn	01 26 45.0	0.5		
			Pg	01 26 47.0	−1.0		
			Sn	01 27 13.3	−5.0		
			SMN	M_L=2.5		0.5	0.010
			SME			0.5	0.040

1987 2 17
O=03 03 22.8 ± 0.09s
LAT=33.57 N ± 0.86km
LONG=120.76 E ± 1.27km
DEPTH= 11 km ± 0.13km
STATIONS USED = 96, STAND DEV= 1.57s
Ms=5.0 / 30, M_L=5.5 / 11,

NJ2	2.2	227	−Pn	03 04 01.0	1.1		
			Pg	03 04 05.1	3.2		
			Sn	03 04 24.5	−4.5		
			Sg	03 04 32.0	−0.1		
			SME	M_L=5.9		1.0	81.6
SSE	2.5	172	+iPn	03 04 06.7	2.9		
			Sn	03 04 36.5	0.3		
			Sg	03 04 45.5	4.4		
			SMN			3.0	11.4
			SME			3.0	18.3
TIA	4.0	312	+Pn	03 04 25.2	1.0		
			Pg	03 04 37.6	4.5		
			Sg	03 05 26.5	−1.1		
			SMN	M_L=5.8		1.5	20.5
DL2	5.4	7	Pn	03 04 43.0	−0.3		
			Sn	03 05 45.5	−1.7		
			Sg	03 06 16.0	5.0		
			SMN	M_L=5.5		1.2	3.90
			SME			1.2	6.70
WHN	6.2	243	Pn	03 04 56.0	1.0		
			Pg	03 05 18.8	6.1		
			Sn	03 06 03.5	−5.0		
			Sg	03 06 37.5	−0.3		
			SMN	M_L=5.6		0.8	4.05
			SME			0.7	3.40
BJI	7.4	332	eP	03 05 13.0	−1.0		
			LN	Ms=4.3		12.0	2.90
TIY	7.9	304	eP	03 05 20.5	−0.7		
			S	03 06 49.0	−2.6		
			LN	Ms=5.0		10.0	4.71
			LE			10.0	8.21
SNY	8.5	14	eP	03 05 28.8	−0.7		
			LN	Ms=4.7		8.0	3.19

			LE			8.0	2.34
QZH	8.8	193	eP	03 05 32.0	−1.3		
			S	03 07 10.0	−3.3		
			LN	Ms=5.0		9.0	6.11
			LE			10.0	5.74
XAN	9.9	276	eP	03 05 45.6	−2.4		
			sP	03 05 51.5	−4.1		
			LN	Ms=5.1		10.0	6.46
			LE			11.0	5.68
HHC	10.3	317	eP	03 05 57.2	2.9		
			SMN			1.2	0.68
			SME			1.0	0.25
CN2	10.8	18	+P	03 06 02.0	0.6		
			pP	03 06 04.0	−2.3		
			eS	03 08 04.0	0.1		
BTO	11.1	312	P	03 06 05.8	1.1		
			pP	03 06 10.0	0.6		
			eS	03 08 10.2	0.5		
			LN	Ms=4.8		13.0	4.40
			LE			13.0	2.00
GZH	12.3	214	eP	03 06 22.0	0.7		
			eS	03 08 35.5	−4.2		
			LN	Ms=5.2		11.0	3.54
			LE			12.0	7.46
MDJ	13.0	29	eP	03 06 26.5	−3.7		
			LE	Ms=5.1		6.0	3.04
GYA	14.1	244	eP	03 06 45.6	0.2		
			S	03 09 20.6	−1.9		
			LN	Ms=5.1		8.0	3.00
			LE			8.0	2.00
LZH	14.1	285	eP	03 06 47.0	1.5		
			LN	Ms=5.0		10.0	3.32
			LE			11.0	3.00
CD2	14.6	264	P	03 06 51.4	−0.7		
			S	03 09 30.0	−4.8		
			LN	Ms=5.3		10.0	5.08
			LE			9.0	4.89
QZN	17.5	217	eP	03 07 29.0	0.7		
			eS	03 10 47.0	5.8		
			LN	Ms=5.0		13.0	2.40
			LE			12.5	2.90
KMI	17.8	246	−P	03 07 36.0	3.1		
			LN	Ms=5.0		12.0	2.90
GTA	17.8	295	P	03 07 33.7	0.9		
			LN	Ms=4.8		10.0	1.54
LSA	25.5	269	P	03 08 54.5	1.1		
			LE	Ms=4.6		12.0	0.65
WMQ	27.6	302	+P	03 09 13.0	0.4		
KSH	36.2	293	P	03 10 28.0	0.0		
			eS	03 16 12.0	4.5		

			LE	Ms=5.3		10.0	1.50

1987 2 17
O=04 19 58.1 ± 0.15s
LAT=19.55 S ± 2.78km
LONG=168.84 E ± 2.57km
DEPTH= 35 km ± 0.35km
STATIONS USED = 82, STAND DEV= 0.95s
Ms=5.6/23, m_B=5.9/16

QZH	65.9	310	−iP	04 30 43.0	−0.3		
			eS	04 39 23.0	−3.9		
			SME	m_B=5.7		10.0	0.90
			LE	Ms=5.6		11.0	1.48
SSE	68.0	317	P	04 30 54.0	−2.6		
			PMZ			1.5	0.10
			ePP	04 33 26.0	−2.0		
			S	04 39 48.0	−3.1		
			LN	Ms=5.5		16.0	0.97
			LE			16.0	1.02
GZH	68.8	305	−iP	04 31 01.5	0.4		
			eS	04 40 05.0	3.9		
QZN	69.4	300	P	04 31 05.5	0.4		
			ePP	04 33 44.5	4.4		
			eS	04 40 05.0	−3.8		
			LE	Ms=5.4		18.0	1.20
NJ2	70.2	316	+P	04 31 09.0	−0.8		
			S	04 40 12.5	−3.9		
			LN	Ms=5.6		21.0	2.30
WHN	72.3	312	−iP	04 31 22.0	−0.4		
			PMZ	m_B=6.2		4.0	1.10
			S	04 40 44.0	3.2		
			SME	m_B=5.6		7.0	0.41
			LN	Ms=5.7		18.0	1.70
			LE			18.0	1.40
DL2	73.0	323	eP	04 31 26.0	−1.0		
MDJ	73.2	332	−P	04 31 28.0	−0.1		
			eS	04 40 57.0	4.1		
TIA	73.9	319	eP	04 31 32.1	−0.1		
			eS	04 41 03.0	2.1		
			SMN	m_B=5.6		9.0	0.40
			SME			9.0	0.35
			LN	Ms=5.6		18.0	1.59
			LE			18.0	0.82
SNY	74.0	326	eP	04 31 30.8	−2.0		
			S	04 41 00.0	−0.5		
			SMN	m_B=5.9		12.0	0.91
			SME			12.0	0.96
			LN	Ms=5.5		20.0	0.91
			LE			20.0	1.43
CN2	74.5	329	−iP	04 31 35.0	−0.7		

			PMZ		$m_B = 5.9$		5.0	0.70
			epP	04 31 46.0		0.4		
			PP	04 34 28.0		4.5		
			eS	04 41 05.0		−2.6		
			SME		$m_B = 5.9$		10.0	1.00
GYA	75.7	305	P	04 31 42.6		0.1		
			S	04 41 23.0		4.0		
			LN		Ms = 5.6		20.0	1.40
			LE				20.0	1.30
BJI	76.9	321	−P	04 31 49.0		−0.5		
			PMZ		$m_B = 5.9$		4.0	0.63
			eS	04 41 37.0		2.8		
			SMN		$m_B = 5.9$		6.0	0.27
			SME				8.0	0.68
			LN		Ms = 5.4		19.0	1.21
TIY	77.8	317	−P	04 31 54.9		0.5		
			PMZ		$m_B = 6.1$		5.0	1.15
			sP	04 32 10.0		1.6		
			S	04 41 48.0		6.0		
			LN		Ms = 5.8		18.0	1.81
			LE				18.0	1.57
XAN	78.0	313	−P	04 31 55.8		0.2		
			PMZ		$m_B = 6.1$		4.0	1.01
			PP	04 34 54.0		1.0		
			S	04 41 50.0		5.5		
			SME		$m_B = 5.7$		10.0	0.64
			LE		Ms = 5.4		17.0	1.01
KMI	78.1	302	−P	04 31 57.0		0.8		
CD2	80.1	308	P	04 32 07.0		0.0		
			PMZ				1.5	1.25
			S	04 42 04.0		−2.5		
			LE		Ms = 5.6		24.0	2.02
HHC	80.2	320	−P	04 32 07.8		0.3		
BTO	81.0	319	−iP	04 32 12.0		0.2		
			ePP	04 35 13.5		−4.3		
			eS	04 42 11.0		−6.7		
			LN		Ms = 5.6		20.0	1.00
			LE				19.0	1.10
LZH	82.7	312	−iP	04 32 21.5		1.2		
			PMZ				2.5	0.45
			sS	04 42 49.0		−2.0		
			LN		Ms = 5.9		23.0	2.00
			LE				23.0	2.88
GTA	87.1	314	−iP	04 32 42.5		0.2		
			LE		Ms = 5.6		8.0	0.64
LSA	89.4	302	−P	04 32 52.8		−0.9		
WMQ	97.1	314	−P	04 33 29.0		0.0		

1987 2 17

O = 05 17 43.8 ± 0.22s

LAT = 19.55 S ± 5.37km

LONG = 168.95 E ± 5.54km

DEPTH = 37 km ± 1.16km

STATIONS USED = 41, STAND DEV = 1.78s

WHN	72.3	312	+iP	05 29 08.5	0.1	
MDJ	73.3	332	−P	05 29 14.0	0.2	
CN2	74.6	329	−P	05 29 21.0	−0.5	
GYA	75.8	305	P	05 29 28.4	−0.1	
BJI	77.0	321	eP	05 29 35.0	−0.3	
TIY	77.9	317	P	05 29 40.9	0.6	
XAN	78.1	313	P	05 29 41.2	−0.4	
CD2	80.2	308	P	05 29 53.0	0.1	
LZH	82.7	312	−iP	05 30 07.0	0.8	
GTA	87.1	314	−P	05 30 28.0	−0.2	
WMQ	97.2	314	P	05 31 15.0	0.2	

1987 2 17

O = 05 56 43.7 ± 0.09s

LAT = 37.85 N ± 0.85km

LONG = 101.87 E ± 0.79km

DEPTH = 7 km ± 0.04km

STATIONS USED = 10, STAND DEV = 2.76s

M_L = 3.4 / 9,

GTA	2.2	315	+iPg	05 57 21.7	−1.7	
			Sg	05 57 51.0	−2.8	
			SMN	M_L = 3.5	0.8	0.31
			SME		0.5	0.35
LZH	2.4	137	Pg	05 57 23.5	−2.2	
			Sg	05 57 55.0	−2.8	
			SMN	M_L = 3.5	1.0	0.35
			SME		1.0	0.27
XAN	6.9	121	ePg	05 58 45.0	−0.1	

1987 2 17

O = 06 16 15.6 ± 0.17s

LAT = 32.79 S ± 2.84km

LONG = 179.05 W ± 4.27km

DEPTH = 45 km

STATIONS USED = 81, STAND DEV = 1.82s

Ms = 6.5 / 39, m_B = 6.3 / 15

QZH	82.6	306	+P	06 28 34.0	−2.3	
			pP	06 28 49.0	0.8	
			PP	06 31 45.0	−1.9	
			sS	06 39 03.0	−6.3	
			LN	Ms = 6.6	25.0	11.6
			LE		33.0	23.0
SSE	85.0	312	+iP	06 28 47.0	−1.5	
			PMZ	m_B = 6.1	8.0	1.46
			pP	06 29 03.0	2.5	
			sP	06 29 07.0	1.7	

			ePP	06 32 03.0	−3.1		
			S	06 39 07.0	−4.3		
			sS	06 39 28.0	−5.4		
			LN	Ms = 6.2		18.0	4.58
			LE			18.0	3.76
GZH	85.1	301	P	06 28 49.0	0.1		
			pP	06 29 02.5	1.6		
			PP	06 32 09.0	2.2		
			SKS	06 39 10.0	4.9		
			SMN	m_B = 6.3		12.0	2.94
			SME			12.0	2.49
			LN	Ms = 6.3		40.0	9.11
			LE			35.0	13.2
QZN	85.2	296	+P	06 28 50.0	0.5		
			ePP	06 32 08.0	0.3		
			S	06 39 11.0	−2.3		
			sS	06 39 35.0	−0.4		
			LN	Ms = 6.4		17.0	3.10
			LE			22.0	9.20
NJ2	87.1	311	+P	06 28 59.0	0.2		
			PMZ	m_B = 6.3		8.0	2.00
			PP	06 32 25.0	0.9		
			S	06 39 33.0	1.3		
			sS	06 39 57.5	3.6		
			LN	Ms = 6.5		20.0	11.1
			LE			19.0	5.30
WHN	89.1	308	P	06 29 05.0	−3.2		
			pP	06 29 20.0	−0.3		
			PP	06 32 38.0	−1.6		
			SKS	06 39 36.0	5.3		
			S	06 39 50.0	0.1		
			LN	Ms = 6.4		19.0	5.80
			LE			21.0	7.60
MDJ	90.1	326	+P	06 29 12.5	−0.5		
			PP	06 32 44.0	−3.6		
			SKS	06 39 40.0	3.2		
			S	06 40 00.0	0.8		
			sS	06 40 21.0	−0.4		
DL2	90.1	318	eP	06 29 13.0	0.0		
			PP	06 32 50.0	2.3		
			SKS	06 39 39.0	2.1		
			S	06 39 59.0	−0.3		
			SS	06 46 00.0	−2.4		
			LN	Ms = 6.5		21.0	9.80
			LE			23.0	7.20
TIA	90.9	313	P	06 29 17.6	0.6		
			SMN			13.0	2.72
			SME			14.0	3.24
			sS	06 40 30.0	0.9		
			LN	Ms = 6.5		18.0	6.07
			LE			21.0	10.3
SNY	91.1	321	+iP	06 29 17.0	−0.5		
			PMZ			20.0	4.59
			SMN			24.0	5.83
			SME			22.0	5.41
			sS	06 40 30.0	−0.2		
			LN	Ms = 6.7		26.0	15.2
			LE			26.0	16.9
CN2	91.5	323	+P	06 29 18.0	−1.6		
			PMZ			14.0	5.00
			cpP	06 29 32.5	0.9		
			cPP	06 32 52.0	−6.6		
			SMN	m_B = 6.5		10.0	4.40
GYA	92.0	300	P	06 29 21.0	−0.8		
			SKS	06 39 47.0	−0.7		
			S	06 40 12.0	−3.8		
			SMN	m_B = 6.4		11.0	2.50
			SME			11.0	2.80
			LN	Ms = 6.0		20.0	1.80
			LE			20.0	3.40
BJI	94.0	316	eP	06 29 30.0	−0.9		
			SMN	m_B = 6.4		9.0	1.88
			SME			9.0	2.59
			LN	Ms = 6.6		22.0	14.1
			LE			22.0	5.83
KMI	94.1	297	+P	06 29 32.0	0.3		
			SKS	06 39 58.0	−1.6		
			LE	Ms = 6.4		23.0	9.40
TIY	94.8	312	+P	06 29 35.0	0.3		
			PP	06 33 21.5	−3.0		
			S	06 40 44.0	3.8		
			SMN	m_B = 6.3		10.0	1.52
			SME			9.0	1.78
			LN	Ms = 6.6		20.0	11.9
			LE			20.0	7.31
XAN	94.8	308	P	06 29 35.1	0.2		
			pP	06 29 48.0	1.1		
			PP	06 33 28.0	3.2		
			S	06 40 46.0	5.4		
			LN	Ms = 6.4		19.0	7.01
			LE			22.0	4.85
CD2	96.6	302	P	06 29 43.0	0.1		
			PP	06 33 42.0	3.2		
			SKS	06 40 16.0	3.1		
			S	06 40 52.0	−3.6		
			sS	06 41 20.0	2.0		
			LE	Ms = 6.7		34.0	25.3
HHC	97.2	314	eP	06 29 48.0	2.1		
			SMN	m_B = 6.3		10.0	1.36
			SME			10.0	1.76

			LN		Ms=6.6	25.0	7.28
			LE			25.0	15.4
BTO	98.0	313	+P	06 29 50.0	0.5		
			pP	06 30 04.0	2.6		
			ePP	06 33 48.0	−2.3		
			SKS	06 40 24.0	2.8		
			S	06 41 06.0	−1.6		
			LN		Ms=6.5	21.0	6.60
			LE			22.0	7.00
LZH	99.4	307	eP	06 29 56.0	0.2		
			SKS	06 40 23.0	−4.6		
			SS	06 48 16.0	2.1		
			LN		Ms=6.4	29.0	10.1
			LE			26.0	5.01
GTA	103.9	308	eP	06 30 16.0	0.2		
			ePP	06 34 33.0	−1.2		
			LN		Ms=6.3	19.0	5.45
WMQ	114.0	308	PKP	06 34 51.0	0.3		
			sPKP	06 35 05.5			
			PP	06 35 45.0	−3.8		
			SKS	06 41 52.0	−3.4		
			LE		Ms=6.5	24.0	9.43
KSH	120.6	300	PKP	06 35 06.0	2.3		
			PP	06 36 32.0	−2.4		
			eSS	06 52 53.0	−5.1		
			LN		Ms=6.8	20.0	14.0

1987 2 17
O=12 42 30.8 ± 0.10s
LAT= 0.79 N ± 1.43km
LONG=126.37 E ± 2.79km
DEPTH= 32 km ± 0.05km
STATIONS USED = 24, STAND DEV= 1.90s

GYA	31.8	325	P	12 48 55.0	−0.1
CD2	36.8	327	eP	12 49 36.6	−1.7
XAN	36.9	336	eP	12 49 37.0	−1.8
BJI	40.2	348	eP	12 50 05.5	−0.4
SNY	40.9	357	eP	12 50 12.2	−0.1
MDJ	43.7	3	eP	12 50 36.5	1.2
WMQ	54.9	326	eP	12 52 00.6	−0.9

1987 2 17
O=12 56 55.7 ± 0.18s
LAT=58.84 S ± 4.89km
LONG= 25.73 W ± 5.22km
DEPTH= 27 km ± 0.80km
STATIONS USED = 22, STAND DEV= 3.15s

GYA	133.9	113	PKP	13 16 11.8	0.1
TIY	145.8	110	+PKP	13 16 31.5	−1.5
TIA	146.9	117	cPKP	13 16 35.2	0.5
BJI	149.5	111	ePKP	13 16 42.0	3.1
CN2	156.8	118	+PKP	13 16 46.0	−3.3
			pPKP	13 17 03.0	5.8
			PKP_2	13 17 14.0	

1987 2 17
O=13 56 34.8 ± 0.09s
LAT=39.93 N ± 0.59km
LONG= 75.19 E ± 1.38km
DEPTH= 32 km ± 0.90km
STATIONS USED = 6, STAND DEV= 2.35s
M_L=3.7 / 4,

KSH	0.8	127	−Pn	13 56 49.0	−1.1	
			Sn	13 56 58.5	−3.2	
			SMN	M_L=3.8	0.5	4.50
			SME		0.2	2.30
WMQ	10.1	63	eP	13 59 01.8	0.7	

1987 2 17
O=17 12 03.9 ± 0.07s
LAT=40.63 N ± 0.76km
LONG=107.87 E ± 0.42km
DEPTH= 10 km
STATIONS USED = 9, STAND DEV= 3.34s
M_L=3.2 / 8,

BTO	1.6	91	Pg	17 12 32.2	−0.9	
			Sg	17 12 54.4	−0.9	
			SMN	M_L=2.7	0.3	0.080
			SME		0.3	0.080
HHC	2.8	84	ePg	17 12 53.4	−0.5	
			Sg	17 13 31.8	−0.5	
			SMN	M_L=3.2	0.8	0.090
			SME		0.8	0.13
TIY	4.6	128	−Pg	17 13 26.8	1.6	
			Sg	17 14 21.3	−6.5	
			SMN	M_L=3.1	0.6	0.030
			SME		0.6	0.030
GTA	6.3	261	Pn	17 13 40.0	2.5	
			Sn	17 14 45.2	−6.5	
			Sg	17 15 18.4	−2.9	
			SMN	M_L=3.0	0.8	0.010
XAN	6.6	172	Pg	17 14 07.3	6.0	
			Sg	17 15 29.0	−2.8	

1987 2 18
O=00 00 50.2 ± 0.09s
LAT=51.42 N ± 2.70km
LONG=179.31 W ± 1.47km
DEPTH= 22 km ± 0.18km
STATIONS USED =102, STAND DEV= 1.39s

Ms = 6.0 / 47,				m_B = 6.3 / 25			
MDJ	34.3	279	+P	00 07 36.5	−0.7		
			pP	00 07 41.0	−3.6		
			sP	00 07 44.0	−3.8		
			PP	00 08 55.5	4.0		
			PcP	00 10 11.5	−1.5		
			S	00 13 06.0	4.8		
			ScP	00 13 55.0	−0.4		
			ScS	00 17 57.0	0.7		
CN2	37.2	280	+iP	00 08 02.2	−0.2		
			PMZ	m_B = 6.4		5.0	3.50
			sP	00 08 09.0	−4.2		
			cPP	00 09 26.0	−3.3		
			PcP	00 10 21.0	−0.7		
			eS	00 13 48.0	0.0		
			SME			24.0	7.00
SNY	39.5	279	+iP	00 08 22.2	1.2		
			PMZ			15.0	5.16
			PcP	00 10 30.6	1.9		
			S	00 14 24.0	3.1		
			SMN			25.0	7.27
			SME			25.0	8.69
			eScS	00 18 27.6	2.3		
			LN	Ms = 6.1		20.0	16.8
			LE			22.0	9.10
DL2	42.4	277	+iP	00 08 46.0	1.0		
			PMZ	m_B = 6.3		6.0	3.00
			esP	00 09 00.0	4.2		
			eS	00 15 04.0	−1.1		
			LN	Ms = 6.0		16.0	10.7
BJI	45.1	282	P	00 09 07.5	0.7		
			PMZ	m_B = 6.3		7.0	3.56
			ePP	00 10 55.0	2.5		
			ScP	00 14 39.0	2.1		
			ePcS	00 14 42.5	2.9		
			eS	00 15 42.0	−2.2		
			eScS	00 19 00.0	0.7		
			SMN	m_B = 6.1		10.0	2.50
			SME			10.0	1.37
			LN	Ms = 5.9		20.0	8.48
TIA	46.8	277	eP	00 09 21.3	0.3		
			PMZ	m_B = 6.2		8.0	2.90
			PcP	00 10 54.8	1.3		
			PP	00 11 06.0	−4.3		
			S	00 16 03.0	−5.7		
			LN	Ms = 6.0		15.0	4.89
			LE			18.0	6.83
HHC	47.4	286	+P	00 09 25.6	0.3		
			PMZ	m_B = 6.5		5.0	3.79
			pP	00 09 31.0	−1.6		
			PcP	00 10 57.0	1.6		
			eS	00 16 11.0	−6.5		
			LN	Ms = 6.3		17.0	16.8
			LE			17.0	6.73
SSE	47.7	269	+iP	00 09 28.0	0.5		
			PMZ	m_B = 6.6		5.0	4.54
			epP	00 09 36.0	1.0		
			ePcP	00 10 58.0	1.5		
			PP	00 11 20.0	2.3		
			S	00 16 20.0	−0.5		
			ScS	00 19 17.0	0.7		
			LN	Ms = 6.0		20.0	5.70
			LE			20.0	10.1
BTO	48.5	286	+iP	00 09 35.0	1.2		
			PMZ	m_B = 6.5		7.0	4.90
			pP	00 09 39.0	−2.1		
			PP	00 11 26.0	0.9		
			S	00 16 35.0	3.5		
			LN	Ms = 6.4		17.0	14.3
			LE			19.0	21.0
NJ2	48.5	271	+P	00 09 33.5	−0.4		
			PMZ	m_B = 6.4		6.0	3.70
			PP	00 11 21.0	−4.5		
			S	00 16 30.0	−2.0		
			LN	Ms = 6.0		16.0	7.50
TIY	48.8	282	+iP	00 09 37.3	1.0		
			PMZ			1.0	0.38
			S	00 16 40.0	3.9		
			SMN			26.0	7.27
			SME			20.0	6.39
			LN	Ms = 6.2		17.0	11.1
			LE			18.0	6.93
WHN	52.3	273	P	00 10 02.6	−0.6		
			PMZ			14.0	1.80
			PcP	00 11 15.5	2.0		
			PP	00 12 04.0	2.2		
			S	00 17 28.0	2.8		
			SME	m_B = 5.9		6.0	0.97
			sS	00 17 36.0	−2.8		
			LE	Ms = 5.9		20.0	7.20
XAN	53.3	281	+iP	00 10 09.8	−0.9		
			PMZ	m_B = 6.4		6.0	2.90
			PcP	00 11 18.0	0.8		
			PP	00 12 13.0	1.3		
			ScP	00 15 13.0	1.0		
			S	00 17 36.0	−2.8		
			LN	Ms = 6.1		18.0	3.98
			LE			16.0	9.05
QZH	53.6	265	+P	00 10 14.0	1.2		
			PP	00 12 16.0	1.8		

			iS	00 17 48.0	4.1		
			SMN			26.0	4.31
			SME			25.0	6.21
			LN	Ms=5.8		40.0	5.02
			LE			40.0	8.45
LZH	55.1	286	+iP	00 10 24.0	0.4		
			PMZ			1.5	1.28
			PP	00 12 27.0	−0.3		
			S	00 18 04.0	1.9		
			SMN	m_B=6.0		10.0	2.04
			LN	Ms=6.8		20.0	56.8
GTA	55.3	291	+iP	00 10 24.7	−0.2		
			PMZ	m_B=6.4		7.0	3.81
			iS	00 18 07.0	0.9		
			SMN	m_B=6.1		8.5	2.33
			sS	00 18 20.0	1.7		
			ScS	00 20 10.0	1.7		
			LN	Ms=6.5		16.0	10.9
			LE			16.0	15.5
GZH	58.3	268	+iP	00 10 47.0	0.9		
			PMZ	m_B=6.1		12.0	2.92
			PcP	00 11 38.0	1.8		
			S	00 18 49.0	4.7		
			ScS	00 20 32.0	2.1		
			LN	Ms=5.9		20.0	4.63
			LE			15.0	3.06
CD2	58.7	281	P	00 10 48.0	−1.0		
			PcP	00 11 40.0	2.2		
			PP	00 13 00.0	0.4		
			S	00 18 43.5	−6.0		
			ScS	00 20 34.0	1.2		
			LE	Ms=6.2		20.0	11.8
WMQ	59.1	303	+iP	00 10 51.8	0.0		
			PcP	00 11 41.0	1.7		
			PP	00 13 04.0	0.8		
			S	00 18 59.0	4.3		
			ScS	00 20 40.0	4.3		
			LE	Ms=6.5		20.0	22.2
GYA	60.0	276	+P	00 10 57.6	−0.8		
			pP	00 11 02.0	−3.8		
			PcP	00 11 43.4	0.3		
			PP	00 13 11.0	−0.7		
			S	00 19 09.0	2.0		
			ScS	00 20 47.0	4.2		
			LN	Ms=5.7		20.0	2.40
			LE			20.0	2.90
KMI	63.4	278	+P	00 11 21.0	−0.3		
			PMZ	m_B=6.6		4.0	2.90
			PP	00 13 41.0	−0.2		
			cS	00 19 48.0	−3.7		
			SS	00 23 57.0	−1.8		
			LN	Ms=6.1		22.0	8.10
QZN	63.4	267	eP	00 11 21.5	0.1		
			PMZ	m_B=6.3		7.0	2.50
			PcP	00 11 56.0	−1.0		
			PP	00 13 43.0	1.4		
			S	00 19 54.5	4.0		
			sS	00 20 01.0	−3.4		
			LN	Ms=6.0		20.0	3.80
			LE			22.0	5.30
LSA	67.1	289	+iP	00 11 45.2	−0.4		
			S	00 20 41.0	5.4		
			LN	Ms=6.1		17.0	5.71
KSH	68.3	306	P	00 11 54.0	1.6		
			PcP	00 12 20.0	3.0		
			PP	00 14 25.0	0.9		
			S	00 20 52.0	2.7		
			SMN	m_B=6.3		8.0	2.40
			LE	Ms=6.7		16.0	25.2

1987 2 18

O=02 17 18.6 ± 0.13s
LAT=38.15 N ± 1.27km
LONG=100.78 E ± 1.20km
DEPTH= 7 km ± 0.23km
STATIONS USED = 6, STAND DEV= 4.96s
M_L=3.1/ 6,

GTA	1.5	329	+iPg	02 17 42.9	−1.8		
			Sg	02 18 03.2	−1.4		
			SMN	M_L=2.8		0.5	0.10
			SME			0.6	0.15
LZH	3.2	129	Pn	02 18 13.0	3.3		
			Sn	02 18 54.0	4.1		
			SMN	M_L=3.1		1.0	0.070
			SME			1.0	0.070

1987 2 18

O=05 28 22.2 ± 0.06s
LAT=51.37 N ± 1.90km
LONG=179.30 W ± 0.86km
DEPTH= 32 km ± 0.11km
STATIONS USED = 83, STAND DEV= 0.67s
Ms=5.0/12, m_B=5.4/ 2

MDJ	34.3	279	+P	05 35 07.0	−0.7
CN2	37.2	281	+P	05 35 32.0	−1.0
			PP	05 37 00.0	−0.3
			cS	05 41 15.0	−2.9
SNY	39.5	279	+iP	05 35 52.0	0.5
			PP	05 37 23.0	−3.5
			cS	05 41 52.0	0.4

			LN	Ms=4.9	20.0	0.73
			LE		20.0	0.84
DL2	42.4	277	eP	05 36 15.8	0.2		
BJI	45.1	282	+P	05 36 38.0	0.7		
			eS	05 43 12.0	−1.9		
			SMN	m_B=5.3	6.0	0.27
			LN	Ms=4.8	24.0	0.50
			LE		24.0	0.60
TIA	46.9	277	+P	05 36 51.7	0.2		
			LN	Ms=4.7	25.0	0.45
			LE		25.0	0.45
HHC	47.4	286	+P	05 36 56.6	0.8		
SSE	47.7	269	eP	05 36 58.5	0.5		
			PMZ		1.0	0.040
			eS	05 43 56.0	4.8		
			sS	05 44 08.0	1.4		
			LE	Ms=4.9	20.0	0.92
BTO	48.5	286	+iP	05 37 05.2	0.9		
			ePP	05 38 56.0	0.1		
			eS	05 44 03.0	0.4		
			LN	Ms=5.3	19.0	1.30
			LE		20.0	1.40
NJ2	48.5	271	+P	05 37 04.2	−0.1		
TIY	48.8	282	+iP	05 37 07.8	1.0		
			PMZ		1.4	0.14
			PP	05 39 04.0	4.7		
			ScP	05 42 23.0	1.2		
			PcS	05 42 29.0	3.3		
			S	05 44 06.5	0.7		
			LN	Ms=5.2	18.0	1.45
WHN	52.3	273	+iP	05 37 33.5	−0.1		
XAN	53.4	281	+iP	05 37 40.3	−0.9		
			PcP	05 38 47.8	0.2		
LZH	55.1	286	+iP	05 37 54.5	0.4		
			PMZ		1.0	0.22
GTA	55.3	291	+iP	05 37 55.3	−0.1		
			S	05 45 39.0	4.6		
			ScS	05 47 38.4	0.8		
			LN	Ms=5.2	16.0	0.88
			LE		15.0	0.61
GZH	58.3	268	+P	05 38 16.5	0.0		
CD2	58.7	281	+iP	05 38 18.7	−0.7		
			PMZ		1.0	0.080
WMQ	59.1	303	+iP	05 38 22.0	−0.4		
			PcP	05 39 10.0	0.2		
			S	05 46 28.0	3.4		
GYA	60.0	276	+P	05 38 28.0	−0.8		
			PMZ		1.6	0.20	
			PcP	05 39 14.8	1.3		
			S	05 46 38.0	1.4		
KMI	63.4	278	+P	05 38 51.5	−0.3		
QZN	63.5	268	P	05 38 52.1	0.3		
LSA	67.2	289	+P	05 39 16.4	0.4		
KSH	68.3	306	P	05 39 24.0	1.1		
			S	05 48 22.0	3.0		
			LE	Ms=5.5	15.0	1.30

1987 2 18
O=09 40 03.7 ± 0.06s
LAT=37.75 N ± 0.53km
LONG=101.55 E ± 0.42km
DEPTH= 9 km ± 0.15km
STATIONS USED = 5, STAND DEV= 2.89s
M_L=2.7/ 5,

GTA	2.1	321	Pn	09 40 40.4	0.1	
			Pg	09 40 40.9	−0.7	
			Sg	09 41 10.1	−0.9	
			SMN	M_L=2.6	0.6	0.050
			SME		0.6	0.040
LZH	2.5	131	Pg	09 40 46.0	−1.7	
			Sg	09 41 17.5	−3.8	
			SMN	M_L=3.0	1.0	0.090
			SME		1.0	0.070

1987 2 18
O=10 32 13.2 ± 0.17s
LAT=55.67 S ± 6.31km
LONG= 27.07 W ± 4.86km
DEPTH= 32 km ± 0.62km
STATIONS USED = 39, STAND DEV= 2.20s
Ms=5.3/ 1,

KSH	128.4	74	ePKP	10 51 21.0	2.9	
GYA	135.7	112	ePKP	10 51 32.6	0.6	
CD2	137.7	105	PKP	10 51 36.8	1.2	
WMQ	137.8	78	ePKP	10 51 35.0	−0.7	
LZH	141.6	100	ePKP	10 51 38.0	−4.7	
GTA	141.7	92	PKP	10 51 40.2	−2.6	
			LE	Ms=5.3	21.0	0.42
XAN	142.9	107	ePKP	10 51 41.6	−3.2	
NJ2	146.5	121	+PKP	10 51 53.2	2.3	
SSE	146.8	124	ePKP	10 51 54.0	2.5	
TIY	147.5	106	ePKP	10 51 55.4	2.7	
BTO	148.2	100	PKP	10 51 54.0	0.1	
TIA	148.9	114	ePKP	10 51 59.4	4.5	
HHC	149.3	101	ePKP	10 51 56.4	0.8	
BJI	151.2	107	ePKP	10 52 03.5	5.1	
CN2	158.8	113	ePKP	10 52 08.0	−0.7	
MDJ	161.5	117	PKP	10 52 11.5	−0.1	

1987 2 18

O = 14 22 54.1 ± 0.08s
LAT = 1.00 N ± 1.04km
LONG = 126.48 E ± 1.68km
DEPTH = 34 km ± 0.32km
STATIONS USED = 34, STAND DEV = 1.30s

QZN	24.2	319	eP	14 28 05.6	−3.5		
WHN	31.6	340	eP	14 29 17.5	1.6		
GYA	31.7	325	P	14 29 17.4	0.2		
CD2	36.7	326	eP	14 30 00.0	−0.4		
XAN	36.7	335	P	14 30 00.0	−0.6		
BJI	40.0	348	eP	14 30 26.5	−0.9		
SNY	40.7	357	eP	14 30 34.6	0.9		
MDJ	43 5	3	eP	14 30 58.0	1.4		
GTA	45.3	331	−P	14 31 10.6	−0.6		
			PcP	14 32 51.7	1.6		
WMQ	54.8	326	P	14 32 23.5	−0.2		

1987 2 18
O = 18 49 25.6 ± 0.04s
LAT = 38.45 N ± 0.33km
LONG = 116.56 E ± 0.38km
DEPTH = 13 km ± 0.14km
STATIONS USED = 6, STAND DEV = 1.34s
M_L = 2.9 / 6,

BJI	1.6	350	+Pg	18 49 53.5	−0.8		
			Sg	18 50 15.0	−1.4		
			SMN	M_L = 2.6		0.5	0.060
			SME			0.5	0.070
TIA	2.3	168	Pn	18 50 02.3	−1.0		
			Pg	18 50 06.3	0.5		
			SMN	M_L = 2.9		0.3	0.090
			SME			0.3	0.070

1987 2 18
O = 20 46 57.5 ± 0.12s
LAT = 26.25 N ± 2.67km
LONG = 57.30 E ± 2.05km
DEPTH = 33 km ± 0.42km
STATIONS USED = 30, STAND DEV = 1.68s
Ms = 4.8 / 4,

KSH	20.4	45	eP	20 51 33.5	−1.5		
			eS	20 55 13.0	−4.8		
			LE	Ms = 4.8		10.0	1.40
WMQ	30.2	47	P	20 53 08.0	0.4		
GTA	37.7	59	P	20 54 13.2	0.8		
			LN	Ms = 4.3		19.0	0.30
LZH	40.7	64	eP	20 54 38.0	0.9		
GYA	44.0	78	P	20 55 03.0	−1.2		
XAN	44.9	67	P	20 55 11.5	0.0		
BTO	45.6	58	eP	20 55 18.0	0.8		
TIY	47.5	62	eP	20 55 30.4	−1.8		
			eS	21 02 24.0	−0.5		
			LN	Ms = 4.7		14.0	0.37
CN2	56.9	53	eP	20 56 41.6	−0.9		

1987 2 18
O = 22 26 59.7 ± 0.20s
LAT = 16.19 N ± 2.71km
LONG = 120.81 E ± 2.90km
DEPTH = 8 km ± 1.10km
STATIONS USED = 33, STAND DEV = 3.17s
Ms = 4.2 / 4,

QZN	10.8	287	eP	22 29 35.1	−3.3		
			eS	22 31 36.4	−4.5		
GYA	16.7	310	P	22 30 57.0	1.4		
XAN	20.7	331	+P	22 31 44.0	0.2		
			LE	Ms = 4.2		11.0	0.40
CD2	21.4	316	eP	22 31 48.8	−1.5		
TIY	22.7	343	eP	22 32 05.3	2.0		
			LE	Ms = 4.2		10.0	0.26
BJI	24.1	351	eP	22 32 17.0	−0.1		
LZH	24.9	326	eP	22 32 24.5	−0.7		
SNY	25.7	5	eP	22 32 29.5	−2.5		
CN2	27.8	7	eP	22 32 52.4	0.7		
MDJ	29.3	13	eP	22 33 03.5	−1.6		

1987 2 19
O = 09 32 44.9 ± 0.14s
LAT = 27.95 S ± 3.74km
LONG = 176.00 W ± 3.23km
DEPTH = 12 km ± 1.73km
STATIONS USED = 30, STAND DEV = 1.91s
m_B = 5.8 / 3

NJ2	86.0	309	eP	09 45 28.8	1.4		
MDJ	87.6	324	eP	09 45 36.0	0.7		
WHN	88.3	306	eP	09 45 39.5	1.0		
CN2	89.3	322	eP	09 45 43.0	−0.2		
TIA	89.6	312	P	09 45 46.2	1.4		
GYA	91.9	299	P	09 45 56.4	1.0		
BJI	92.4	315	eP	09 45 56.0	−1.8		
			eSKS	09 56 32.0	3.9		
			SMN	m_B = 5.8		8.0	0.58
TIY	93.6	311	eP	09 46 04.7	1.6		
			SKS	09 56 40.5	6.1		
			SMN	m_B = 5.8		7.0	0.56
XAN	94,0	306	eP	09 46 05.3	0.0		
			SKS	09 56 43.0	5.9		
			SMN	m_B = 5.8		8.0	0.53
CD2	96.3	302	eP	09 46 16.6	1.1		

1987 2 19
O = 19 38 01.4 ± 0.20s
LAT = 16.52 N ± 3.50km
LONG = 148.58 E ± 5.47km
DEPTH = 44 km ± 1.10km
STATIONS USED = 24, STAND DEV = 2.29s

BJI	36.6	316	eP	19 45 05.0	−0.6	
TIY	38.1	311	+P	19 45 18.4	−0.3	
XAN	39.6	304	eP	19 45 29.3	−1.4	
GYA	40.1	292	P	19 45 35.4	0.5	
LZH	44.1	305	P	19 46 07.0	−1.1	
GTA	48.0	308	−iP	19 46 37.0	−2.1	
LSA	53.9	295	−P	19 47 22.3	−1.7	
WMQ	57.8	312	−P	19 47 49.3	−2.1	

1987 2 20
O = 00 16 16.7 ± 0.13s
LAT = 9.79 N ± 2.17km
LONG = 126.31 E ± 2.78km
DEPTH = 49 km ± 0.62km
STATIONS USED = 29, STAND DEV = 2.06s
Ms = 4.1 / 1,

SSE	21.7	348	eP	00 21 02.7	−3.2		
			LN	Ms = 4.1		18.0	0.47
NJ2	23.2	344	eP	00 21 22.0	1.6		
XAN	28.9	329	eP	00 22 12.0	−1.9		
BJI	31.4	345	eP	00 22 36.0	−0.1		
SNY	32.0	356	eP	00 22 41.2	0.2		
HHC	33.6	340	eP	00 22 55.2	0.4		
LSA	38.3	306	eP	00 23 36.1	0.6		

1987 2 20
O = 13 10 35.6 ± 0.16s
LAT = 24.22 N ± 1.85km
LONG = 122.08 E ± 2.12km
DEPTH = 31 km ± 0.65km
STATIONS USED = 37, STAND DEV = 2.30s
Ms = 3.6 / 3, M_L = 4.2 / 13,

QZH	3.3	284	−Pn	13 11 24.2	−0.7		
			Sn	13 11 58.2	−6.0		
			SMN	M_L = 3.9		0.3	0.34
			SME			0.6	0.46
			LN	Ms = 3.6		5.0	0.40
			LE			5.0	0.78
SSE	6.9	354	eP	13 12 16.7	−0.5		
			pP	13 12 22.5	−1.2		
			LN	Ms = 3.2		16.0	0.35
GZH	8.1	264	eP	13 12 32.5	−1.3		
			SMN	M_L = 4.6		1.1	0.23
			SME			1.1	0.13
NJ2	8.3	341	+P	13 12 35.6	−1.2		
			S	13 14 06.0	−4.4		
			SMN	M_L = 4.4		1.0	0.10
WHN	9.3	314	eP	13 12 52.5	1.6		
			eS	13 14 32.0	−3.7		
			LN	Ms = 3.9		8.0	0.55
QZN	12.5	248	eP	13 13 37.7	3.5		
			eS	13 15 52.2	−1.2		
GYA	14.1	282	P	13 13 55.4	−0.4		
			S	13 16 25.0	−6.9		
XAN	15.1	313	eP	13 14 07.5	−0.9		
TIY	15.8	331	eP	13 14 23.2	5.8		
CD2	17.5	296	eP	13 14 41.6	1.9		
GTA	24.1	314	P	13 15 51.5	1.2		

1987 2 20
O = 14 27 34.4 ± 0.09s
LAT = 7.03 S ± 1.12km
LONG = 129.70 E ± 2.31km
DEPTH = 48 km ± 0.45km
STATIONS USED = 54, STAND DEV = 1.26s

GYA	40.1	327	P	14 35 09.0	1.5
WHN	40.2	339	eP	14 35 10.0	2.2
NJ2	40.2	346	eP	14 35 09.6	1.3
CD2	45.2	328	P	14 35 48.0	−0.8
XAN	45.3	336	+P	14 35 49.6	−0.6
TIY	47.3	341	−P	14 36 06.4	0.4
BJI	48.5	346	eP	14 36 15.0	0.3
			ePcP	14 37 39.0	−0.7
SNY	48.9	354	−iP	14 36 18.4	0.1
CN2	50.7	356	+P	14 36 31.3	−0.8
MDJ	51.4	360	+P	14 36 37.5	0.4
LSA	52.0	317	P	14 36 41.5	−0.7
GTA	53.9	331	+iP	14 36 55.1	−0.5
WMQ	63.3	327	P	14 38 00.8	−0.2
KSH	67.8	318	P	14 38 31.5	1.2

1987 2 20
O = 18 30 54.4 ± 0.11s
LAT = 2.32 S ± 1.75km
LONG = 138.57 E ± 2.75km
DEPTH = 25 km ± 0.23km
STATIONS USED = 24, STAND DEV = 1.86s

XAN	45.7	325	eP	18 39 15.0	−0.6
CD2	46.8	318	P	18 39 25.1	0.6
BJI	46.9	336	eP	18 39 26.5	1.5
CN2	47.4	347	eP	18 39 29.0	−0.1
MDJ	47.4	351	eP	18 39 28.5	−0.7
LZH	50.1	323	eP	18 39 50.0	−0.2
GTA	54.7	324	eP	18 40 25.6	1.2

LSA	55.4	309	P	18 40 29.8	0.1	
WMQ	64.6	322	P	18 41 36.0	3.2	

1987 2 21
O = 01 05 19.6 ± 0.14s
LAT = 0.56 N ± 2.13km
LONG = 126.13 E ± 3.40km
DEPTH = 40 km ± 0.40km
STATIONS USED = 67, STAND DEV = 1.94s
Ms = 4.6 / 6, m_B = 5.3 / 1

QZN	24.3	320	eP	01 10 33.3	−1.9	
			eS	01 14 52.0	3.0	
SSE	30.7	352	eP	01 11 36.0	2.4	
			S	01 16 37.0	5.2	
			LN	Ms = 4.4	22.0	0.62
GYA	31.9	326	P	01 11 45.0	1.4	
			PcP	01 14 34.0	0.9	
WHN	31.9	340	eP	01 11 46.5	3.0	
KMI	33.3	319	eP	01 11 56.0	−0.1	
TIA	36.4	348	eP	01 12 24.0	1.0	
CD2	36.9	327	P	01 12 27.3	0.5	
XAN	37.0	336	eP	01 12 25.4	−2.3	
DL2	38.4	354	eP	01 12 39.4	0.2	
TIY	39.1	343	eP	01 12 44.3	−0.7	
			LN	Ms = 4.5	13.0	0.32
BJI	40.3	348	eP	01 12 55.0	−0.4	
LZH	41.0	332	eP	01 13 02.0	1.2	
SNY	41.1	357	+P	01 13 01.2	−0.9	
			eS	01 19 06.0	−6.5	
			LN	Ms = 4.6	24.0	0.52
			LE		23.0	0.44
HHC	42.2	344	eP	01 13 12.0	0.9	
CN2	43.1	359	+P	01 13 18.5	0.7	
			sP	01 13 33.0	0.2	
MDJ	44.0	4	eP	01 13 24.5	−0.8	
LSA	44.1	314	eP	01 13 26.0	−1.1	
GTA	45.5	331	P	01 13 38.8	0.9	
			PcP	01 15 16.5	0.9	
			LE	Ms = 4.6	22.0	0.46
WMQ	55.0	327	eP	01 14 49.0	−0.9	
KSH	59.9	317	eP	01 15 25.2	0.8	

1987 2 21
O = 01 50 08.3 ± 0.13s
LAT = 30.49 N ± 1.04km
LONG = 101.61 E ± 1.33km
DEPTH = 9 km ± 0.23km
STATIONS USED = 21, STAND DEV = 2.57s
M_L = 3.8 / 8,

CD2	1.9	77	Pg	01 50 42.8	0.8	
			Sg	01 51 08.9	1.0	
			SMN	M_L = 4.2	0.8	1.66
			SME		1.2	2.26
			LN		6.0	5.80
KMI	5.4	169	cPn	01 51 32.0	1.8	
LZH	5.9	18	Pg	01 51 56.0	3.5	
XAN	7.1	58	cPn	01 51 52.0	−1.2	
			Pg	01 52 19.4	5.2	
			Sn	01 53 14.0	−2.7	
			Sg	01 53 47.4	−4.3	
			SMN	M_L = 4.3	1.0	0.11
			SME		1.0	0.13

1987 2 21
O = 12 55 14.4 ± 0.26s
LAT = 6.38 S ± 5.00km
LONG = 104.31 E ± 6.36km
DEPTH = 35 km ± 0.23km
STATIONS USED = 20, STAND DEV = 2.88s
Ms = 4.6 / 1,

CD2	37.1	359	P	13 02 22.4	−1.3
LSA	38.0	341	−P	13 02 30.9	−1.2
XAN	40.4	6	eP	13 02 55.0	3.4
GTA	45.7	355	P	13 03 33.0	−2.0
			LN	Ms = 4.6	18.0	0.36
WMQ	52.2	345	eP	13 04 20.5	−3.9	
CN2	53.5	19	eP	13 04 39.0	4.9	

1987 2 21
O = 14 22 31.7 ± 0.18s
LAT = 14.61 N ± 1.65km
LONG = 123.41 E ± 2.30km
DEPTH = 75 km ± 2.08km
STATIONS USED = 27, STAND DEV = 3.27s

WHN	17.9	334	eP	14 26 38.5	1.0
XAN	23.4	328	P	14 27 32.0	−2.5
CD2	24.3	315	eP	14 27 42.7	−0.4
TIY	25.0	339	eP	14 27 54.2	3.9
GTA	32.2	324	eP	14 28 53.2	−2.5
LSA	33.3	302	eP	14 29 04.5	−0.6

1987 2 21
O = 15 26 27.2 ± 0.22s
LAT = 6.11 S ± 2.74km
LONG = 147.80 E ± 7.73km
DEPTH = 44 km ± 2.24km
STATIONS USED = 69, STAND DEV = 2.99s
Ms = 5.2 / 14, m_B = 5.6 / 1

SSE	44.9	327	eP	15 34 40.0	0.1
			pP	15 34 48.7	−2.5

			eS	15 41 14.0	0.0	
			eScS	15 44 28.0	−1.8	
			LN	Ms=5.3	20.0	1.80
			LE		16.0	1.02
QZN	45.0	305	eP	15 34 41.5	1.1	
			ePP	15 36 29.0	2.7	
			eS	15 41 15.0	−0.1	
			LN	Ms=4.9	13.0	0.60
NJ2	46.9	326	eP	15 34 56.0	0.2	
			eS	15 41 40.0	−2.8	
			LN	Ms=5.3	12.0	1.20
			LE		14.0	0.90
WHN	48.5	321	eP	15 35 08.0	−0.4	
			eS	15 42 05.0	−0.5	
			LN	Ms=4.8	12.0	0.40
TIA	51.0	328	eP	15 35 32.4	5.1	
			eS	15 42 40.0	0.2	
			LN	Ms=5.3	12.0	0.67
			LE		12.0	0.97
SNY	52.6	337	eP	15 35 39.2	−0.1	
			eS	15 43 08.0	6.3	
			LN	Ms=5.4	34.0	2.52
			LE		34.0	3.03
MDJ	53.1	344	eP	15 35 42.5	−0.5	
CN2	53.6	340	eP	15 35 51.5	4.4	
			eS	15 43 22.0	6.0	
XAN	54.3	320	eP	15 35 48.2	−3.7	
			LN	Ms=4.7	12.0	0.26
BJI	54.4	330	eP	15 35 52.0	−0.6	
			eS	15 43 28.0	1.9	
			LN	Ms=5.2	40.0	1.63
			LE		40.0	2.08
TIY	54.6	326	eP	15 35 57.0	2.4	
			LN	Ms=5.2	16.0	0.77
			LE		16.0	0.56
CD2	55.9	314	P	15 36 01.4	−2.4	
			eS	15 43 40.0	−6.9	
HHC	57.3	328	eP	15 36 11.8	−2.2	
BTO	58.0	327	eP	15 36 18.0	−0.6	
LZH	58.8	319	eP	15 36 25.5	1.1	
GTA	63.3	320	eP	15 36 52.0	−3.0	
			LN	Ms=5.0	26.0	0.68
			LE		13.0	0.31
LSA	64.9	307	eP	15 37 04.6	−1.2	
WMQ	73.4	319	eP	15 37 58.0	0.7	
KSH	80.0	312	eP	15 38 37.2	2.5	
			eS	15 48 35.0	0.5	

1987 2 21

O=16 04 26.4 ± 0.16s
LAT=42.66 N ± 1.04km
LONG= 79.89 E ± 1.62km
DEPTH= 17 km ± 0.44km
STATIONS USED = 9, STAND DEV= 3.04s
M_L=3.7/ 7,

KSH	4.4	224	Pg	16 05 47.0	3.3	
			eSg	16 06 43.0	−0.1	
WMQ	5.8	76	cPn	16 05 55.6	3.1	
			Sn	16 07 03.0	2.0	
			Sg	16 07 30.4	1.6	
			SMN	M_L=3.4	0.8	0.030

1987 2 21

O=18 53 13.9 ± 0.11s
LAT= 2.56 S ± 2.09km
LONG=138.75 E ± 2.50km
DEPTH= 39 km ± 0.55km
STATIONS USED = 34, STAND DEV= 1.98s

WHN	40.3	327	eP	19 00 51.5	1.9
XAN	46.0	325	−P	19 01 35.0	−0.7
CD2	47.1	318	eP	19 01 45.3	0.8
BJI	47.2	336	eP	19 01 44.0	−1.0
CN2	47.7	347	eP	19 01 48.0	−0.9
LZH	50.4	323	eP	19 02 10.5	0.4
GTA	55.0	324	+P	19 02 44.5	0.3
WMQ	64.9	322	P	19 03 51.5	−0.8

1987 2 21

O=20 39 01.3 ± 0.10s
LAT=35.78 N ± 2.42km
LONG=139.80 E ± 1.76km
DEPTH=111 km ± 1.71km
STATIONS USED = 21, STAND DEV= 2.44s

MDJ	11.8	322	eP	20 41 45.5	−1.3	
CN2	13.6	310	eP	20 42 11.0	0.0	
BJI	19.1	290	eP	20 43 16.5	−1.5	
WMQ	40.3	298	eP	20 46 30.2	1.0	

1987 2 21

O=22 19 53.6 ± 0.18s
LAT=54.99 N ± 2.56km
LONG=111.24 E ± 2.01km
DEPTH= 32 km ± 0.37km
STATIONS USED = 49, STAND DEV= 2.80s
Ms=4.6/10,

BTO	14.4	184	eP	22 23 18.4	0.7	
			LN	Ms=4.4	10.0	0.90
			LE		8.0	0.40
CN2	14.5	135	eP	22 23 21.0	2.5	
			eS	22 25 58.0	−1.1	

BJI	15.3	166	eP	22 23 35.0	5.8		
			LN	Ms=4.6	9.0	1.23	
SNY	15.5	143	eP	22 23 34.2	2.9		
			LN	Ms=4.7	9.5	1.57	
			LE		10.0	0.72	
MDJ	15.7	124	eP	22 23 38.5	4.3		
TIY	17.3	177	eP	22 23 56.4	1.9		
			LN	Ms=4.7	10.0	1.35	
GTA	17.4	211	P	22 23 53.0	−2.5		
			LN	Ms=4.6	10.5	1.12	
WMQ	18.9	243	P	22 24 14.0	0.1		
			LN		2.5	0.34	
LZH	19.6	198	eP	22 24 19.0	−3.1		
			LN	Ms=4.6	10.0	0.87	
XAN	21.0	185	eP	22 24 34.7	−2.4		
			LN	Ms=4.5	12.0	0.77	
NJ2	23.6	164	+P	22 25 04.0	1.8		
WHN	24.5	174	eP	22 25 12.5	0.8		
CD2	24.7	196	eP	22 25 12.3	−0.7		

1987 2 22
O=01 22 28.6 ± 0.13s
LAT=78.89 N ± 2.20km
LONG=125.66 E ± 3.15km
DEPTH= 10 km ± 0.03km
STATIONS USED = 81, STAND DEV= 2.17s
Ms=5.3/28, m_B=5.3/2

MDJ	34.4	175	eP	01 29 19.7	0.9		
			pP	01 29 24.0	−0.2		
			S	01 34 42.0	−3.2		
			LE	Ms=5.3	12.0	2.34	
CN2	35.2	180	+P	01 29 25.0	−0.5		
			PMZ		3.0	0.40	
			sP	01 29 32.0	−1.7		
			eS	01 34 55.0	−3.3		
SNY	37.2	183	+P	01 29 42.4	0.2		
			sP	01 29 50.0	−0.5		
			eS	01 35 23.0	−5.7		
			LN	Ms=5.3	15.0	1.76	
			LE		14.0	1.29	
WMQ	38.0	226	+P	01 29 49.2	−0.3		
			pP	01 29 54.5	−0.4		
			sP	01 29 58.3	0.6		
			PP	01 31 14.7	−4.2		
			S	01 35 44.5	3.6		
			LN	Ms=5.4	12.0	2.26	
HHC	38.6	197	eP	01 29 54.6	0.7		
			pP	01 29 59.0	−0.3		
			S	01 35 54.0	5.2		
			LN	Ms=5.3	10.0	1.24	
			LE		10.0	0.53	
BTO	38.9	199	eP	01 29 56.0	−0.8		
			sP	01 30 04.0	−0.9		
			eS	01 35 51.0	−4.2		
			LN	Ms=5.3	17.0	1.70	
			LE		17.0	2.10	
BJI	39.1	192	eP	01 29 59.0	0.4		
			eS	01 35 59.0	0.5		
			SME	m_B=5.2	7.0	0.29	
			eSS	01 38 44.0	2.1		
			LN	Ms=5.2	13.0	0.91	
			LE		12.0	1.20	
GTA	40.9	211	+P	01 30 13.5	0.0		
			sP	01 30 22.5	0.9		
			PP	01 31 46.0	−4.5		
			S	01 36 26.0	1.8		
			SMN		0.7	0.27	
			LE	Ms=5.2	12.0	1.34	
TIY	41.6	196	eP	01 30 20.8	1.5		
			sP	01 30 28.5	1.0		
			S	01 36 37.5	2.7		
			LE	Ms=5.2	14.0	1.45	
TIA	42.9	190	eP	01 30 31.0	1.1		
			csP	01 30 38.0	−0.1		
			S	01 36 57.0	3.2		
			SS	01 40 02.0	2.8		
			LN	Ms=5.6	11.5	2.66	
LZH	43.8	206	eP	01 30 38.0	0.5		
			PMZ		1.5	0.080	
			LE	Ms=5.3	14.0	1.70	
KSH	44.1	238	eP	01 30 40.5	1.0		
			sP	01 30 48.5	0.9		
			eS	01 37 09.0	−3.1		
			LE	Ms=5.7	12.0	3.20	
XAN	45.5	200	eP	01 30 50.0	−0.6		
			sP	01 30 58.0	−0.8		
			eS	01 37 30.0	−2.2		
			LN	Ms=5.4	16.0	2.10	
NJ2	47.0	188	+P	01 31 02.6	0.0		
			S	01 37 55.0	2.3		
			LN	Ms=5.6	15.0	2.90	
SSE	47.9	185	eP	01 31 08.0	−1.7		
			sP	01 31 16.0	−1.9		
			S	01 38 06.0	0.5		
			SS	01 41 26.0	−2.8		
			LN	Ms=5.5	14.0	1.13	
			LE		16.0	2.46	
WHN	48.7	193	P	01 31 15.0	−0.6		
			sP	01 31 21.0	−2.8		
			S	01 38 18.0	1.8		

			LN	Ms=5.4	14.0	1.40
			LE		15.0	1.10
CD2	49.0	205	P	01 31 17.6	−0.4		
			S	01 38 18.0	−2.5		
			LN	Ms=5.3	11.0	1.00
LSA	51.5	219	+P	01 31 37.0	−0.5		
GYA	53.2	201	P	01 31 50.6	0.7		
			sP	01 31 58.0	0.0		
			S	01 39 21.0	2.8		
			LE	Ms=5.7	18.0	3.70
KMI	54.8	206	eP	01 32 00.0	−2.0		
			sP	01 32 08.0	−2.0		
			S	01 39 45.0	4.8		
			LN	Ms=5.3	13.0	0.90
			LE		14.0	0.80
QZN	60.4	197	+P	01 32 42.0	1.1		
			eS	01 40 55.0	0.7		
			LE	Ms=5.3	14.0	1.00

1987 2 22
O=06 51 40.3 ± 0.12s
LAT=38.39 N ± 2.96km
LONG= 40.45 E ± 1.50km
DEPTH= 10 km ± 0.06km
STATIONS USED = 24, STAND DEV= 1.56s

KSH	27.6	77	eP	06 57 35.0	5.0		
WMQ	35.6	66	+iP	06 58 40.9	−0.1		
LSA	42.4	86	−iP	06 59 37.6	−0.5		
GTA	45.5	69	+P	07 00 02.2	−0.1		
XAN	54.3	72	P	07 01 08.4	−1.1		
GYA	56.1	81	P	07 01 21.0	−1.7		
SSE	64.8	69	eP	07 02 19.7	−2.3		

1987 2 22
O=13 15 25.4 ± 0.12s
LAT=36.05 N ± 1.27km
LONG=101.28 E ± 1.15km
DEPTH= 15 km
STATIONS USED = 9, STAND DEV= 3.15s
M_L=3.1 / 5,

LZH	2.1	88	cPg	13 16 03.0	0.6		
			Sg	13 16 31.5	0.9		
			SMN	M_L=3.6	0.5	0.42
			SME		0.5	0.58
GTA	3.5	341	Pn	13 16 24.0	3.4		
XAN	6.6	106	cPn	13 17 01.5	−0.7		
			cSg	13 18 52.8	1.2		

1987 2 22
O=20 38 02.7 ± 0.05s
LAT=25.41 N ± 0.57km
LONG=100.03 E ± 0.38km
DEPTH= 7 km ± 0.09km
STATIONS USED = 7, STAND DEV= 0.96s
M_L=3.6 / 4,

KMI	2.5	96	cPg	20 38 47.0	0.3		
			Sg	20 39 19.0	−1.2		
			SMN	M_L=3.5	0.6	0.30	
CD2	6.4	30	cPn	20 39 38.2	0.5		

1987 2 23
O=00 21 21.5 ± 0.12s
LAT=38.99 N ± 2.39km
LONG= 70.68 E ± 1.90km
DEPTH= 33 km ± 0.27km
STATIONS USED = 66, STAND DEV= 2.24s
Ms=4.9 / 16, M_L=5.0 / 2, m_B=5.0 / 2

KSH	4.1	82	Pn	00 22 27.5	4.4		
			Sn	00 23 18.0	6.2		
			LE	Ms=5.7	6.0	88.5	
WMQ	13.7	64	−P	00 24 34.2	−1.3		
			LN	Ms=5.0	10.0	4.30	
LSA	19.2	113	eP	00 25 44.0	−2.5		
			LN	Ms=4.5	11.0	0.69	
			LE		12.0	0.65	
GTA	22.5	80	P	00 26 20.0	−0.4		
			esS	00 30 35.0	0.0		
			SME	m_B=4.8	9.0	0.30	
			LE	Ms=4.7	11.0	1.07	
			LE	Ms=4.9	11.0	1.50	
LZH	26.4	86	eP	00 26 57.5	0.3		
			LE	Ms=4.9	11.0	1.25	
CD2	28.2	96	P	00 27 14.8	1.4		
			S	00 31 53.0	−1.4		
			LE	Ms=4.8	9.0	0.70	
BTO	30.1	74	eP	00 27 33.0	2.3		
			eS	00 32 29.0	2.7		
			LN	Ms=5.1	15.0	1.60	
			LE		13.0	1.50	
XAN	31.0	87	eP	00 27 37.0	−1.4		
			LE	Ms=5.0	16.0	1.90	
GYA	32.5	102	P	00 27 52.0	−0.2		
			S	00 33 01.0	−2.5		
			LN	Ms=5.2	16.0	2.10	
			LE		16.0	1.30	
TIY	32.6	79	eP	00 27 51.0	−1.4		
BJI	34.8	73	eP	00 28 11.0	−0.8		
WHN	36.6	90	eP	00 28 26.6	0.1		
TIA	36.6	79	eP	00 28 30.4	3.5		
			LE	Ms=4.9	11.0	0.78	

CN2	40.7	65	eP	00 29 03.0	1.6		
SSE	41.6	85	eP	00 29 07.5	−1.4		
			eS	00 35 23.0	−0.3		
			ScS	00 39 06.0	−0.7		
			LN	Ms=4.9		16.0	0.87

1987 2 23
O=02 43 38.1 ± 0.26s
LAT=57.77 S ± 7.66km
LONG= 25.05 W ± 6.09km
DEPTH= 29 km ± 1.12km
STATIONS USED = 88, STAND DEV= 2.92s
Ms=6.2 / 20, m_B=6.5 / 2

KSH	127.9	74	PKP	03 02 45.0	2.6		
			PPMZ	m_B=6.4		4.0	0.80
			SKKS	03 11 43.0			
			LN	Ms=6.2		18.0	3.20
LSA	128.5	94	−PKP	03 02 44.6	0.7		
			LN	Ms=6.2		20.0	1.98
			LE			20.0	2.49
QZN	129.2	120	PKP	03 02 46.0	1.3		
			PP	03 04 58.0	1.5		
			SKKS	03 11 45.5			
			LN	Ms=6.3		20.0	3.00
			LE			20.0	2.70
KMI	130.9	109	−PKP	03 02 50.0	1.8		
			sPKP	03 03 03.5			
			PPMZ	m_B=6.5		5.0	1.20
			LE	Ms=6.3		22.0	3.80
GYA	133.9	112	+PKP	03 02 55.0	1.0		
			PP	03 05 33.0	5.9		
			SKKS	03 12 17.0			
			LN	Ms=6.3		20.0	3.20
			LE			20.0	1.20
GZH	134.3	121	ePKP	03 02 55.0	0.6		
			LN	Ms=6.3		18.0	2.20
			LE			17.0	2.60
CD2	136.1	105	ePKP	03 02 58.3	0.5		
WMQ	137.1	79	PKP	03 02 54.8	−5.0		
QZH	138.2	126	+PKP	03 03 03.0	1.3		
			PP	03 05 52.0	−2.0		
			SS	03 24 00.0	−0.6		
			LN	Ms=6.0		22.0	2.07
LZH	140.1	100	ePKP	03 03 00.5	−4.9		
GTA	140.5	93	PKP	03 03 05.3	−0.6		
			ePP	03 06 11.0	3.7		
			LN	Ms=6.1		26.0	2.17
			LE			18.0	1.53
WHN	141.1	117	PKP	03 03 03.8	−3.0		
			LN	Ms=6.2		20.0	2.30
			LE			20.0	1.80
XAN	141.2	107	ePKP	03 03 01.6	−5.5		
			sPKP	03 03 18.0			
			PP	03 06 08.0	−3.7		
			SKKS	03 12 54.0			
			LN	Ms=6.3		22.0	3.63
NJ2	144.4	121	+PKP	03 03 12.5	−0.1		
			LN	Ms=6.3		17.0	3.00
SSE	144.7	124	+iPKP	03 03 13.0	−0.1		
			pPKP	03 03 22.0	0.6		
			sPKP	03 03 27.0			
			PP	03 06 32.0	−0.7		
			eSKKS	03 13 20.0			
			eSS	03 25 20.0	4.6		
			LN	Ms=6.3		19.0	2.82
			LE			19.0	1.70
TIY	145.8	107	+PKP	03 03 14.5	−0.7		
			LN	Ms=6.4		20.0	2.97
			LE			20.0	2.58
BTO	146.7	101	PKP	03 03 17.5	0.8		
			PKP_2	03 03 21.5			
			eSKKS	03 13 32.5			
			LN	Ms=6.0		18.0	1.20
			LE			18.0	1.00
TIA	147.0	114	ePKP	03 03 18.6	1.5		
			ePP	03 06 49.6	2.9		
			eSKKS	03 13 29.5			
			eSS	03 25 44.0	1.8		
			LN	Ms=6.2		21.0	2.51
			LE			21.0	1.78
HHC	147.7	103	PKP	03 03 23.0	4.7		
BJI	149.5	109	ePKP	03 03 21.5	0.4		
			LN	Ms=6.0		20.0	1.65
DL2	151.3	117	+PKP	03 03 24.0	0.2		
			LN	Ms=6.0		20.0	1.69
SNY	154.5	115	+iPKP	03 03 28.4	0.1		
			PKP_2	03 03 52.0			
			PP	03 07 24.4	−4.7		
			SKKS	03 14 11.0			
			LN	Ms=6.0		28.0	1.76
			LE			26.0	1.32
CN2	156.9	114	PKP	03 03 31.5	−0.1		
			pPKP	03 03 41.0	0.9		
			PKP_2	03 04 00.0			
			SKKS	03 14 22.0			
			eSS	03 27 24.0	−6.2		
MDJ	159.5	119	+PKP	03 03 35.5	0.7		
			pPKP	03 03 43.0	−0.3		
			LE	Ms=6.3		18.0	3.03

1987 2 23
O=07 07 28.8 ± 0.05s
LAT=33.78 N ± 0.40km
LONG=116.47 E ± 0.40km
DEPTH= 5 km ± 0.08km
STATIONS USED = 7, STAND DEV= 2.56s
M_L=2.9/ 7,

TIA	2.5	12	Pg	07 08 12.3	−0.4		
			Sg	07 08 45.2	−1.4		
			SMN	M_L=2.8		0.8	0.050
			SME			0.8	0.060

1987 2 23
O=07 19 57.3 ± 0.14s
LAT=13.43 N ± 2.27km
LONG=123.90 E ± 2.99km
DEPTH= 23 km ± 0.41km
STATIONS USED = 45, STAND DEV= 2.45s
Ms=4.0/ 5, m_B=4.8/ 1

QZN	14.6	294	eP	07 23 28.0	3.4		
			eS	07 26 13.0	6.4		
			LN	Ms=4.0		12.0	0.40
SSE	17.8	352	eP	07 24 03.0	−1.9		
			eS	07 27 21.0	1.0		
			sS	07 27 28.0	−2.1		
			LE	Ms=4.0		16.0	0.46
WHN	19.2	334	eP	07 24 21.4	−0.8		
			sP	07 24 28.0	−4.6		
			SME	m_B=4.8		10.0	0.42
			LN	Ms=4.3		14.0	0.60
GYA	20.7	311	P	07 24 40.6	1.6		
			sP	07 24 48.0	−1.6		
			S	07 28 28.0	4.3		
KMI	23.1	303	eP	07 25 03.5	0.7		
			sP	07 25 11.0	−2.3		
TIA	23.5	346	eP	07 25 08.2	1.6		
XAN	24.6	329	P	07 25 14.8	−2.8		
			eS	07 29 36.0	1.0		
CD2	25.4	316	eP	07 25 23.8	−1.5		
TIY	26.2	339	P	07 25 34.6	1.5		
			LN	Ms=3.9		10.0	0.12
BJI	27.4	347	eP	07 25 44.0	0.8		
SNY	28.3	359	−iP	07 25 52.4	0.8		
LSA	34.3	303	eP	07 26 42.3	−2.9		
WMQ	43.3	321	eP	07 28 03.5	3.8		

1987 2 23
O=07 45 23.9 ± 0.13s
LAT=24.44 N ± 2.13km
LONG=123.49 E ± 1.57km
DEPTH= 29 km ± 0.92km
STATIONS USED = 23, STAND DEV= 2.61s
Ms=3.9/ 3, M_L=3.2/ 2,

QZH	4.5	277	cPn	07 46 33.5	3.3		
			LN	Ms=3.4		11.0	0.70
SSE	6.9	343	eP	07 47 11.5	5.3		
			LN	Ms=3.9		10.0	0.95
			LE			16.0	0.96
XAN	15.9	310	eP	07 49 09.4	2.1		
TIY	16.2	327	eP	07 49 13.0	1.1		
			LN	Ms=4.1		10.0	0.29
			LE			10.0	0.23
CD2	18.6	295	eP	07 49 40.0	−1.4		
CN2	19.4	4	P	07 49 49.8	−0.5		
LZH	20.5	309	eP	07 50 00.5	−2.2		

1987 2 23
O=11 23 46.3 ± 0.13s
LAT=34.56 N ± 3.29km
LONG= 57.41 E ± 2.02km
DEPTH= 24 km ± 1.27km
STATIONS USED = 9, STAND DEV= 3.52s

KSH	15.6	66	eP	11 27 22.5	−4.4
WMQ	25.1	59	eP	11 29 08.8	−2.5
GTA	34.0	69	eP	11 30 31.0	0.2
GYA	42.8	87	P	11 31 49.6	4.7

1987 2 23
O=11 27 52.8 ± 0.15s
LAT=15.66 S ± 2.79km
LONG=177.16 W ± 3.62km
DEPTH= 12 km ± 0.31km
STATIONS USED = 30, STAND DEV= 1.97s

MDJ	77.1	324	eP	11 39 47.0	−1.3
CN2	79.0	322	eP	11 40 00.0	1.0
SNY	79.1	319	eP	11 39 58.3	−1.0
TIA	80.6	312	eP	11 40 08.2	0.4
BJI	83.0	315	eP	11 40 19.5	−0.8
TIY	84.7	311	eP	11 40 29.5	0.8
			S	11 50 57.0	3.8
XAN	85.9	307	eP	11 40 35.8	1.2
LZH	90.5	307	eP	11 41 00.5	3.7

1987 2 23
O=13 14 19.5 ± 0.16s
LAT= 7.30 S ± 2.33km
LONG=119.99 E ± 2.52km
DEPTH=625 km ± 0.67km
STATIONS USED = 70, STAND DEV= 1.62s

QZN	28.0	339	eP	13 19 25.3	0.6

			eS	13 23 30.5	1.6	
GYA	36.0	339	P	13 20 32.6	1.0	
			PcP	13 22 41.6	1.1	
			S	13 25 27.0	−1.8	
			ScS	13 29 38.0	3.1	
WHN	38.0	352	eP	13 20 48.8	0.6	
			S	13 26 00.0	1.2	
SSE	38.2	2	eP	13 20 50.0	0.3	
			PcP	13 22 48.0	0.5	
			sP	13 23 41.5	−1.2	
NJ2	39.1	358	+iP	13 20 58.5	1.1	
CD2	41.0	339	−iP	13 21 12.8	0.1	
			PMZ		0.8	0.070
			S	13 26 40.0	−2.6	
XAN	42.4	346	+iP	13 21 23.0	−0.5	
			PcP	13 23 01.8	0.3	
			S	13 26 58.2	−3.9	
TIA	43.4	357	eP	13 21 30.0	−0.7	
			LN		10.0	0.75
TIY	45.3	352	eP	13 21 45.0	−1.0	
			S	13 27 40.0	−2.6	
LZH	45.7	342	−P	13 21 49.5	0.3	
DL2	46.0	2	eP	13 21 49.2	−1.7	
LSA	46.1	324	−iP	13 21 51.2	−0.7	
BJI	47.2	356	eP	13 21 59.0	−1.3	
			ePcP	13 23 18.5	0.0	
HHC	48.5	351	−P	13 22 10.8	0.7	
BTO	48.5	350	eP	13 22 09.3	−0.8	
SNY	49.0	4	+iP	13 22 11.9	−1.5	
GTA	50.1	340	−iP	13 22 21.8	0.2	
			PcP	13 23 29.7	0.7	
CN2	51.1	5	P	13 22 26.6	−2.2	
MDJ	52.4	9	+P	13 22 37.5	−0.5	
WMQ	58.7	333	−iP	13 23 21.5	0.3	
KSH	61.8	322	P	13 23 43.0	1.2	
			pP	13 25 45.0	2.9	
			S	13 31 22.0	4.1	

1987 2 23

O = 15 03 53.9 ± 0.16s
LAT = 25.00 N ± 1.77km
LONG = 123.81 E ± 2.36km
DEPTH = 15 km ± 0.49km
STATIONS USED = 49, STAND DEV = 2.35s
Ms = 4.7 / 16, M_L = 4.2 / 3,

QZH	4.7	270	cPn	15 05 07.5	2.3	
			eSn	15 06 02.0	0.1	
			SMN	M_L = 4.2	1.5	0.41
			SME		1.5	0.31
			LE	Ms = 4.3	8.0	3.47
SSE	6.5	340	cPn	15 05 26.5	−2.9	
NJ2	8.3	329	eP	15 05 59.4	3.1	
			LN	Ms = 5.1	8.0	9.60
QZN	14.2	248	eP	15 07 12.0	−5.5	
			LN	Ms = 4.2	13.0	0.80
XAN	15.8	308	eP	15 07 40.0	2.6	
			LN	Ms = 4.4	10.0	0.65
			LE		10.0	0.42
TIY	15.9	325	eP	15 07 41.0	1.2	
			LN	Ms = 4.9	8.0	1.13
			LE		10.0	1.95
BJI	16.3	339	eP	15 07 47.0	2.8	
SNY	16.8	359	+P	15 07 50.0	−0.3	
			LN	Ms = 4.8	10.0	1.33
			LE		10.0	1.16
CD2	18.7	293	eP	15 08 15.4	1.7	
			LN	Ms = 5.1	9.0	2.70
CN2	18.8	4	+P	15 08 13.0	−2.4	
			eS	15 11 44.0	2.3	
HHC	18.8	330	eP	15 08 16.3	0.5	
BTO	19.4	327	eP	15 08 22.0	−0.1	
			ePP	15 08 41.0	2.3	
			eS	15 12 00.0	5.6	
			LN	Ms = 4.8	10.0	1.30
			LE		11.0	1.00
MDJ	20.1	12	eP	15 08 29.5	−1.0	
GTA	24.8	311	eP	15 09 16.0	−0.9	
			LN	Ms = 4.6	10.0	0.56

1987 2 23

O = 15 49 56.5 ± 0.11s
LAT = 15.84 S ± 1.49km
LONG = 167.94 E ± 1.46km
DEPTH = 254 km ± 0.53km
STATIONS USED = 106, STAND DEV = 0.96s
m_B = 6.3 / 31

QZH	62.9	309	−iP	15 59 58.5	0.1	
			pP	16 00 53.0	−2.3	
			sP	16 01 19.0	−3.5	
			S	16 08 09.0	3.1	
			SME	m_B = 5.9	12.0	4.37
			sS	16 09 44.0	−1.8	
SSE	64.8	316	−iP	16 00 09.0	−1.4	
			PMZ		1.1	0.29
			PcP	16 00 41.0	−0.2	
			pP	16 01 06.0	−1.8	
			sP	16 01 34.0	−0.7	
			PcS	16 04 44.0	0.6	
			eS	16 08 24.0	−5.9	
			ScS	16 09 36.0	0.2	

			sS	16 10 08.0	−1.2		
			eSS	16 12 44.0	−2.8		
			LN			15.0	5.05
			LE			15.0	3.86
GZH	65.9	305	−iP	16 00 18.0	0.1		
			pP	16 01 16.0	0.6		
			SME	$m_B = 6.2$		9.0	4.50
			sS	16 10 22.0	−1.7		
			LE			20.0	1.45
QZN	66.8	299	−iP	16 00 24.0	0.4		
			pP	16 01 23.5	2.2		
			sP	16 01 49.0	0.9		
			PP	16 02 59.0	3.6		
			S	16 09 00.0	6.2		
			SMN	$m_B = 6.0$		8.0	2.50
			sS	16 10 39.0	4.2		
NJ2	66.9	316	−P	16 00 23.5	−0.6		
			PMZ			2.0	3.10
			S	16 08 52.0	−2.7		
WHN	69.2	312	−iP	16 00 37.8	−0.1		
			PMZ			1.5	0.53
			pP	16 01 38.0	2.1		
			iS	16 09 20.0	−2.5		
			SMN			15.0	6.40
			sS	16 11 00.0	−2.8		
			LN			12.0	1.50
			LE			10.0	0.80
MDJ	69.6	332	−iP	16 00 41.0	0.6		
			pP	16 01 36.0	−2.4		
			sP	16 02 04.0	−1.1		
			PP	16 03 18.0	−1.0		
			SME	$m_B = 6.7$		10.0	12.4
			LE			16.0	10.8
DL2	69.6	323	−iP	16 00 40.0	−0.4		
			S	16 09 32.0	6.1		
			LN			16.0	7.56
			LE			8.0	1.40
SNY	70.5	326	−iP	16 00 45.6	−0.3		
			PMZ	$m_B = 6.2$		6.0	3.00
			sP	16 02 07.0	−3.8		
			S	16 09 40.6	4.1		
			LN			54.0	82.3
			LE			54.0	50.8
TIA	70.6	318	−P	16 00 46.2	−0.4		
			PMZ	$m_B = 5.9$		9.0	2.38
			S	16 09 41.0	3.2		
			SMN			12.5	2.36
			SME			9.0	2.15
			LN			18.0	16.5
			LE			15.0	3.24
CN2	70.9	329	−iP	16 00 48.0	−0.6		
			PMZ	$m_B = 6.4$		5.0	4.00
			pP	16 01 46.0	−0.8		
			S	16 09 43.0	1.4		
			SMN			20.0	38.5
			sS	16 11 26.0	2.2		
GYA	72.9	305	−P	16 01 00.0	−0.4		
			pP	16 02 01.0	2.4		
			sP	16 02 25.0	−0.3		
			PP	16 03 50.0	2.6		
			SMN	$m_B = 6.1$		8.0	1.70
			SME			8.0	2.10
BJI	73.5	321	−P	16 01 04.0	−0.1		
			PMZ	$m_B = 6.1$		6.0	2.24
			cpP	16 02 03.0	0.5		
			cS	16 10 18.0	5.7		
			SME	$m_B = 6.1$		9.0	3.22
TIY	74.5	317	−iP	16 01 10.0	0.2		
			PMZ			1.2	0.61
			pP	16 02 09.0	0.8		
			sP	16 02 36.0	1.2		
			SME	$m_B = 6.3$		9.0	4.70
			LN			19.0	4.25
			LE			15.5	2.71
XAN	74.9	312	−iP	16 01 12.0	−0.1		
			PMZ			1.4	0.71
			pP	16 02 09.0	−1.6		
			SME	$m_B = 6.1$		10.0	2.97
			LN			18.0	6.63
			LE			16.0	2.86
KMI	75.4	302	−iP	16 01 16.0	0.8		
			PMZ			3.0	2.00
			pP	16 02 16.5	2.9		
HHC	76.8	320	−iP	16 01 24.6	1.7		
			pP	16 02 24.0	2.3		
			sP	16 02 50.0	1.9		
			SMN	$m_B = 6.3$		9.0	2.63
			SME			9.0	5.22
			LN			17.0	1.68
			LE			17.0	4.81
CD2	77.2	307	−iP	16 01 25.1	0.3		
			PMZ			1.4	0.55
			pP	16 02 25.5	1.9		
			S	16 10 56.0	5.2		
			LE			28.0	10.1
BTO	77.7	319	−iP	16 01 28.0	0.5		
			pP	16 02 28.5	2.1		
			sP	16 02 53.5	0.6		
			PP	16 04 25.0	−2.3		
			S	16 10 56.0	0.1		

			SKS	16 11 12.5	2.0		
			sS	16 12 40.0	−0.3		
			LN			18.0	4.80
			LE			20.0	4.40
LZH	79.5	312	−P	16 01 39.0	1.4		
			pP	16 02 38.0	1.3		
			cS	16 11 22.0	4.5		
GTA	83.9	314	−iP	16 02 00.8	0.7		
			PMZ	$m_B = 6.1$		4.5	1.78
			pP	16 03 02.0	2.3		
			SME			20.0	18.2
			LN			39.0	17.9
LSA	86.7	302	−iP	16 02 14.0	−0.2		
WMQ	94.0	314	−iP	16 02 48.0	0.4		
			pP	16 03 50.0	2.0		
			PP	16 06 36.0	−2.9		
			SKS	16 13 01.6	6.4		
			LN			30.0	14.8
KSH	101.4	308	P	16 03 23.0	1.7		
			pP	16 04 24.0	2.4		
			PP	16 07 38.0	2.9		
			S	16 14 38.0	4.4		

1987 2 23
O = 18 19 01.9 ± 0.13s
LAT = 25.06 N ± 1.65km
LONG = 123.84 E ± 1.96km
DEPTH = 15 km ± 0.52km
STATIONS USED = 86, STAND DEV = 1.98s
Ms = 5.4 / 43, m_B = 5.8 / 5

QZH	4.8	270	ePn	18 20 15.5	1.8		
			eSn	18 21 08.5	−2.2		
			LE	Ms = 5.0		8.0	19.3
SSE	6.5	339	P	18 20 34.5	−4.5		
			LN	Ms = 5.2		16.0	23.8
			LE			10.0	20.9
NJ2	8.2	329	eP	18 21 01.0	−2.8		
			LE	Ms = 5.6		9.0	31.0
GZH	9.8	261	eP	18 21 27.2	1.7		
			LN	Ms = 5.4		9.0	10.0
			LE			7.0	9.96
WHN	10.0	305	eP	18 21 31.0	2.3		
			eS	18 23 19.0	−2.9		
			LE	Ms = 5.0		9.0	5.95
TIA	12.5	334	eP	18 22 04.4	1.7		
			esP	18 22 11.5	0.1		
			eS	18 24 26.0	3.0		
			LN	Ms = 5.6		10.0	16.3
			LE			9.0	3.51
DL2	13.9	353	−P	18 22 24.0	2.6		
			sP	18 22 31.0	0.8		
			eS	18 24 59.0	2.2		
			LN	Ms = 5.3		13.0	10.4
			LE			13.0	4.90
QZN	14.3	248	eP	18 22 28.0	1.8		
			eS	18 25 03.5	−2.1		
			LN	Ms = 4.9		10.0	1.90
			LE			11.0	2.60
GYA	15.5	279	P	18 22 45.2	2.6		
			sP	18 22 53.0	1.6		
			S	18 25 33.0	−1.4		
			SS	18 25 54.0	1.6		
			LN	Ms = 5.4		10.0	7.80
			LE			10.0	4.40
XAN	15.8	308	eP	18 22 43.0	−2.3		
			SS	18 25 54.0	−3.6		
			LN	Ms = 5.5		8.0	5.80
			LE			8.0	5.50
TIY	15.9	325	+P	18 22 47.5	0.1		
			PP	18 23 03.0	3.3		
			S	18 25 48.0	4.9		
			sS	18 25 59.0	6.8		
			LN	Ms = 5.6		8.0	5.42
			LE			9.0	10.5
BJI	16.3	339	eP	18 22 50.5	−1.2		
			eS	18 25 46.0	−5.7		
			LN	Ms = 5.3		9.0	6.17
SNY	16.7	359	eP	18 22 58.0	0.5		
			sP	18 23 05.0	−1.5		
			S	18 26 03.0	1.2		
			LN	Ms = 5.7		14.0	17.9
			LE			12.0	3.90
CD2	18.7	293	eP	18 23 20.8	−1.0		
			LN	Ms = 5.8		8.0	13.5
CN2	18.7	4	+P	18 23 21.0	−1.7		
			PMZ	m_B = 5.8		4.0	1.70
			sP	18 23 29.0	−2.6		
			eS	18 26 42.0	−6.3		
HHC	18.8	330	eP	18 23 25.8	2.4		
			sP	18 23 32.8	0.7		
			LN	Ms = 5.4		12.0	6.44
			LE			12.0	2.12
KMI	19.1	275	−P	18 23 28.5	1.0		
			sP	18 23 34.5	−1.7		
			eS	18 27 04.0	6.8		
			LE	Ms = 5.4		10.0	6.10
BTO	19.3	327	+P	18 23 29.5	−0.2		
			pP	18 23 34.0	−0.9		
			PP	18 23 46.0	−0.3		
			S	18 26 57.0	−3.8		

			SS	18 27 23.5	−3.3		
			LN	Ms=5.3		15.0	4.80
			LE			15.0	6.00
MDJ	20.1	12	eP	18 23 37.5	−0.3		
			S	18 27 15.0	−2.0		
			sS	18 27 20.0	−6.3		
LZH	20.4	307	eP	18 23 41.5	0.1		
GTA	24.8	311	P	18 24 23.5	−1.3		
			esS	18 28 47.5	−6.3		
			SME			16.0	1.68
			LN	Ms=5.3		9.0	2.93
LSA	29.3	286	eP	18 25 05.8	−1.4		
WMQ	34.8	312	P	18 25 54.0	−0.9		
			PMZ			1.5	0.080
			LE	Ms=5.7		10.0	4.26
KSH	42.5	302	eP	18 27 01.0	2.3		
			sP	18 27 08.0	0.1		
			ePP	18 28 45.0	5.4		
			eS	18 33 23.0	2.9		
			LE	Ms=5.5		14.0	3.10

1987 2 23
O=20 41 27.9 ± 0.08s
LAT=15.93 N ± 1.18km
LONG=147.15 E ± 1.60km
DEPTH= 36 km ± 0.28km
STATIONS USED = 22, STAND DEV= 1.35s

XAN	38.8	305	eP	20 48 51.6	0.3
GYA	39.0	292	P	20 48 54.4	0.9
CD2	42.2	299	eP	20 49 18.7	−1.2
GTA	47.3	309	eP	20 50 00.0	−0.9
LSA	52.9	295	+P	20 50 43.5	−0.6

1987 2 23
O=22 31 04.4 ± 0.14s
LAT=41.43 N ± 1.31km
LONG= 79.24 E ± 1.29km
DEPTH= 24 km ± 0.56km
STATIONS USED = 40, STAND DEV= 2.19s
Ms=4.4/ 1, M_L=4.5/ 6,

KSH	3.2	233	ePg	22 32 01.0	0.2		
			Sg	22 32 47.0	3.0		
			SMN	M_L=4.5		1.0	1.90
			SME			0.8	1.20
WMQ	6.7	66	Pn	22 32 43.5	1.8		
			Sg	22 34 37.1	3.2		
			SMN	M_L=4.6		1.0	0.26
			SME			1.0	0.37
LSA	15.2	137	eP	22 34 44.0	4.4		
GTA	15.8	91	eP	22 34 44.5	−2.9		
LZH	19.9	98	eP	22 35 37.0	−0.4		
CD2	22.3	110	eP	22 36 02.9	0.6		
BTO	23.2	82	eP	22 36 12.3	1.6		
XAN	24.5	98	eP	22 36 23.7	0.0		
GYA	27.1	115	P	22 36 50.8	3.2		

1987 2 23
O=23 49 34.3 ± 0.12s
LAT= 0.81 N ± 1.89km
LONG=126.27 E ± 2.62km
DEPTH= 37 km ± 0.28km
STATIONS USED = 62, STAND DEV= 1.59s

QZN	24.2	319	eP	23 54 50.5	1.4
			eS	23 59 06.0	3.5
GZH	25.5	331	eP	23 55 02.0	1.2
			eS	23 59 18.0	−5.0
WHN	31.7	340	P	23 55 59.0	2.2
GYA	31.7	325	−P	23 55 57.4	−0.1
KMI	33.2	319	eP	23 56 11.0	0.7
CD2	36.8	327	eP	23 56 39.8	−0.9
XAN	36.8	336	eP	23 56 39.0	−2.3
TIY	38.9	342	P	23 56 58.2	−0.2
BJI	40.1	348	eP	23 57 08.0	−0.6
LZH	40.8	332	eP	23 57 14.5	0.0
SNY	40.9	357	−iP	23 57 15.0	−0.1
HHC	42.0	343	eP	23 57 25.4	0.9
BTO	42.3	342	eP	23 57 30.1	3.7
CN2	42.8	359	eP	23 57 31.0	0.2
MDJ	43.7	3	eP	23 57 37.5	−0.7
LSA	44.1	314	−P	23 57 41.0	−0.5
GTA	45.4	331	+P	23 57 50.8	−0.9
WMQ	54.9	327	P	23 59 04.2	0.3
KSH	59.8	316	eP	23 59 44.5	5.7

1987 2 24
O=00 51 26.4 ± 0.09s
LAT=56.62 S ± 3.89km
LONG=147.25 E ± 7.19km
DEPTH= 15 km ± 1.75km
STATIONS USED = 60, STAND DEV= 1.70s
Ms=5.8/19, m_B=6.2/ 8

QZN	81.6	324	eP	01 03 47.2	0.8		
			ePP	01 06 57.5	3.4		
			eS	01 14 01.0	3.5		
			SKS	01 14 04.0	4.0		
			sS	01 14 09.5	1.6		
			LN	Ms=5.8		17.0	1.00
			LE			20.0	2.40
GZH	84.4	329	eP	01 04 01.0	0.5		
			S	01 14 27.0	3.4		

			SME		$m_B = 6.0$	10.0	1.25
			SS	01 20 00.0	3.5		
			LN		Ms = 5.7	30.0	2.29
			LE			24.0	1.52
QZH	84.8	334	+P	01 04 00.5	−1.9		
			PP	01 07 18.0	−1.2		
			S	01 14 34.0	6.6		
			SME		$m_B = 6.2$	10.0	1.75
			SS	01 20 02.0	−0.4		
			LE		Ms = 5.8	20.0	2.51
GYA	89.6	324	P	01 04 25.6	−0.3		
			pP	01 04 30.4	−1.6		
			SMN		$m_B = 6.3$	8.0	1.60
			SME			8.0	1.40
			LN		Ms = 5.8	20.0	1.90
			LE			20.0	1.60
KMI	89.7	321	−P	01 04 28.0	1.6		
			LN		Ms = 6.3	20.0	7.40
SSE	90.1	338	eP	01 04 26.0	−2.2		
			PP	01 08 03.0	0.1		
			eSKS	01 14 56.0	0.4		
			S	01 15 21.0	3.1		
			sS	01 15 29.0	−1.0		
			LN		Ms = 5.8	18.0	1.75
			LE			18.0	1.01
WHN	91.2	332	eP	01 04 31.5	−1.7		
			SKS	01 15 02.0	0.1		
			S	01 15 30.0	2.6		
			sS	01 15 39.0	−0.6		
			LE		Ms = 5.5	19.0	1.03
NJ2	91.6	336	+P	01 04 34.0	−0.8		
			iS	01 15 30.0	−2.2		
CD2	94.7	324	P	01 04 47.5	−1.7		
			SKS	01 15 28.0	6.7		
			eS	01 16 00.0	0.7		
TIA	95.9	336	eP	01 04 55.2	0.2		
			LN		Ms = 5.9	18.0	2.46
XAN	96.0	329	P	01 04 54.7	−0.5		
			SKS	01 15 30.0	1.6		
			S	01 16 14.0	5.3		
			SMN		$m_B = 5.9$	9.0	0.83
			LN		Ms = 5.8	18.0	1.33
			LE			17.0	1.35
LSA	98.2	313	eP	01 05 04.0	−1.6		
TIY	98.5	333	eP	01 05 05.0	−1.6		
			SKS	01 15 39.5	−2.5		
			LN		Ms = 5.4	13.5	0.51
LZH	99.4	326	eP	01 05 11.0	0.2		
BJI	99.8	336	eP	01 05 11.0	−1.5		
			ePP	01 09 14.0	−4.5		
			eSKS	01 15 52.0	3.9		
			eS	01 16 40.0	−2.8		
			eSS	01 23 32.0	−5.0		
			LN		Ms = 5.8	18.0	1.56
CN2	101.7	344	eP	01 05 25.0	3.9		
GTA	103.7	324	−eP	01 05 31.0	0.9		
WMQ	111.8	318	ePKP	01 10 04.5	2.7		
			PP	01 10 51.0	3.2		

1987 2 24
O = 01 18 51.0 ± 0.08s
LAT = 51.55 N ± 3.55km
LONG = 176.77 W ± 1.49km
DEPTH = 31 km ± 0.51km
STATIONS USED = 57, STAND DEV = 1.27s
Ms = 5.1 / 8, m_B = 5.5 / 1

MDJ	35.8	280	eP	01 25 50.0	0.2		
CN2	38.8	282	eP	01 26 14.5	−0.1		
SNY	41.0	281	+iP	01 26 34.1	0.9		
BJI	46.6	283	P	01 27 19.0	0.7		
TIA	48.4	279	P	01 27 33.1	0.5		
SSE	49.3	271	P	01 27 40.5	1.3		
			PMZ			1.0	0.030
BTO	49.9	288	eP	01 27 45.0	0.5		
			eS	01 34 51.0	−1.0		
			LN		Ms = 5.6	19.0	2.40
			LE			18.0	2.20
NJ2	50.1	273	eP	01 27 45.5	0.1		
TIY	50.3	283	P	01 27 48.5	1.2		
			S	01 34 56.0	0.2		
			LN		Ms = 5.2	18.0	1.10
			LE			17.0	0.53
WHN	53.9	275	eP	01 28 14.0	−0.2		
			LE		Ms = 5.0	16.0	0.75
XAN	54.9	282	+iP	01 28 20.8	−0.6		
LZH	56.5	287	eP	01 28 32.5	−1.1		
GTA	56.7	293	−iP	01 28 34.2	−0.3		
CD2	60.2	283	−iP	01 28 58.9	0.0		
GYA	61.6	277	+P	01 29 07.6	−0.7		
KMI	65.0	279	+P	01 29 31.0	0.2		
QZN	65.0	269	eP	01 29 31.8	0.7		
			eS	01 38 09.0	−1.0		
			LN		Ms = 5.3	15.0	0.70
			LE			15.0	0.70
LSA	68.6	291	+P	01 29 53.6	−0.3		

1987 2 24
O = 05 36 00.6 ± 0.06s
LAT = 0.12 S ± 1.24km
LONG = 98.84 E ± 2.21km

DEPTH = 53 km ± 1.24km
STATIONS USED = 26, STAND DEV = 1.26s

GYA	27.5	15	P	05 41 45.4	1.0
CD2	31.2	8	P	05 42 18.0	0.4
XAN	35.3	15	+P	05 42 52.5	−0.2
GTA	39.3	1	P	05 43 26.0	−1.0
BTO	41.8	13	eP	05 43 48.8	1.7
BJI	43.0	20	P	05 43 58.5	1.7
WMQ	44.9	349	P	05 44 10.6	−1.5
CN2	49.8	25	+P	05 44 50.0	−0.3

1987 2 24
O = 06 15 21.7 ± 0.12s
LAT = 51.74 N ± 3.48km
LONG = 174.91 W ± 1.37km
DEPTH = 32 km ± 0.07km
STATIONS USED = 61, STAND DEV = 1.18s
Ms = 5.7 / 1,

MDJ	36.9	281	+P	06 22 28.7	−1.0		
CN2	39.9	283	P	06 22 54.0	−0.3		
SNY	42.1	282	+iP	06 23 13.9	1.0		
BJI	47.7	284	eP	06 23 57.5	0.1		
TIA	49.5	280	eP	06 24 11.7	−0.1		
HHC	49.9	288	eP	06 24 16.5	1.5		
SSE	50.4	272	eP	06 24 18.8	0.1		
			eS	06 31 28.0	−1.0		
			esS	06 31 46.0	1.6		
			LN	Ms = 5.7	14.0	0.70	
			LE		14.0	2.91	
BTO	51.0	289	eP	06 24 23.0	−0.1		
NJ2	51.2	274	eP	06 24 24.0	−0.7		
TIY	51.4	284	+P	06 24 27.0	0.9		
WHN	55.0	276	eP	06 24 54.0	0.9		
XAN	56.0	283	+P	06 24 59.2	−0.6		
LZH	57.6	289	eP	06 25 11.0	−0.6		
WMQ	61.2	305	P	06 25 35.7	−0.5		
CD2	61.3	284	eP	06 25 36.6	−0.2		
GYA	62.7	279	P	06 25 45.6	−0.8		
QZN	66.2	271	eP	06 26 10.8	1.7		
			eS	06 34 56.0	1.3		
KSH	70.2	309	eP	06 26 36.0	1.5		

1987 2 24
O = 07 40 07.4 ± 0.07s
LAT = 52.51 N ± 1.91km
LONG = 157.89 E ± 1.23km
DEPTH = 120 km ± 0.10km
STATIONS USED = 60, STAND DEV = 0.91s

MDJ	20.2	258	eP	07 44 35.5	0.4		
			PMZ			1.0	0.070
			pP	07 45 00.0	2.8		
CN2	23.2	261	eP	07 45 04.0	−0.2		
			pP	07 45 31.0	2.2		
BJI	31.0	263	eP	07 46 14.0	−1.7		
			eScP	07 52 40.0	1.2		
TIA	32.9	257	eP	07 46 31.9	−0.4		
BTO	34.4	269	eP	07 46 45.0	−0.4		
TIY	34.7	263	+P	07 46 48.4	0.4		
NJ2	34.8	250	eP	07 46 48.8	0.1		
WHN	38.5	253	P	07 47 21.0	1.1		
XAN	39.3	262	P	07 47 25.5	−0.8		
			pP	07 47 53.0	0.0		
			ScP	07 53 09.6	1.0		
LZH	41.0	268	eP	07 47 40.5	−0.1		
			PMZ			1.5	0.070
			pP	07 48 11.0	3.7		
			ScS	07 57 30.0	0.5		
GTA	41.3	275	−P	07 47 43.4	0.0		
			PMZ			1.3	0.040
			pP	07 48 14.9	4.8		
			ScP	07 53 17.6	0.9		
			ScS	07 57 31.1	−0.4		
CD2	44.6	263	P	07 48 10.2	0.7		
WMQ	45.9	288	P	07 48 19.0	−1.0		
			PMZ			1.5	0.050
			pP	07 48 51.3	4.1		
GYA	46.1	256	P	07 48 21.0	−0.4		
			pP	07 48 50.8	2.2		
KMI	49.4	258	eP	07 48 47.5	0.0		
			pP	07 49 17.5	2.7		
QZN	50.0	247	eP	07 48 50.0	−1.7		

1987 2 24
O = 09 09 54.6 ± 0.11s
LAT = 39.73 N ± 1.16km
LONG = 118.20 E ± 0.93km
DEPTH = 14 km ± 0.14km
STATIONS USED = 13, STAND DEV = 2.68s
M_L = 3.1 / 12,

BJI	1.6	282	Pn	09 10 20.5	−2.3		
			Pg	09 10 23.0	0.3		
			Sg	09 10 43.5	−1.0		
			SMN	M_L = 3.6		0.5	0.80
			SME			0.5	0.74
DL2	2.8	106	ePg	09 10 42.2	−1.6		
			eSg	09 11 16.7	−5.2		
			SMN	M_L = 3.0		0.6	0.080
			SME			0.6	0.060
TIA	3.6	194	ePn	09 10 54.0	3.4		
			Pg	09 10 58.6	0.2		

			SMN		M_L=3.0		0.4	0.040
			SME				0.4	0.040
TIY	4.9	248	cPg	09 11 22.0		0.0		
			Sg	09 12 22.8		−6.5		
			SMN		M_L=3.2		0.6	0.020
			SME				0.6	0.040

1987 2 24
O=09 58 35.7 ± 0.09s
LAT=40.67 N ± 0.83km
LONG=122.79 E ± 0.64km
DEPTH= 12 km ± 0.40km
STATIONS USED = 8, STAND DEV= 1.88s
M_L=2.8 / 8,

SNY	1.3	27	+Pg	09 58 58.0		−0.8		
			Sg	09 59 15.0		−1.6		
			SMN		M_L=2.8		0.4	0.16
			SME				0.4	0.16
DL2	2.0	207	ePg	09 59 09.8		−0.8		
			Sg	09 59 35.3		−2.3		
			SMN		M_L=3.2		0.5	0.13
			SME				0.5	0.25
CN2	3.7	31	ePg	09 59 43.0		1.9		
			eSg	10 00 29.0		−2.6		
			SMN		M_L=2.7		0.6	0.020
			SME				0.6	0.020

1987 2 24
O=14 52 48.2 ± 0.11s
LAT= 4.25 N ± 2.53km
LONG= 95.19 E ± 2.25km
DEPTH= 50 km ± 0.75km
STATIONS USED = 77, STAND DEV= 1.53s
Ms=4.8 / 12,

QZN	20.5	43	eP	14 57 26.0		1.1		
			eS	15 01 08.5		2.2		
			LN		Ms=4.7		15.0	1.60
KMI	22.0	19	+P	14 57 41.0		0.9		
			eS	15 01 38.0		3.5		
			LN		Ms=4.8		13.0	1.70
GYA	24.7	25	P	14 58 04.6		−1.5		
			S	15 02 21.0		0.6		
			LN		Ms=4.9		14.0	1.50
			LE				14.0	0.60
GZH	25.7	41	eP	14 58 17.0		1.6		
CD2	27.7	16	+iP	14 58 32.6		−1.8		
			PMZ				0.5	0.060
			eS	15 03 14.0		2.6		
			LE		Ms=4.8		15.0	1.32
WHN	31.8	33	eP	14 59 12.0		1.4		
			eS	15 04 19.0		3.2		
			LE		Ms=4.8		12.0	0.70
XAN	32.3	22	−P	14 59 12.9		−2.0		
			S	15 04 23.0		0.5		
			LN		Ms=5.0		13.0	0.87
			LE				12.0	0.76
LZH	32.7	13	eP	14 59 15.0		−3.4		
GTA	35.2	6	+P	14 59 44.4		3.8		
			LN		Ms=4.5		16.0	0.41
NJ2	35.5	36	eP	14 59 42.0		−0.2		
TIY	36.8	23	eP	14 59 54.0		0.0		
			S	15 05 32.5		−0.8		
			LN		Ms=5.2		15.0	1.32
			LE				14.0	1.13
TIA	37.7	30	eP	15 00 00.0		−0.9		
BTO	38.6	18	eP	15 00 09.0		0.5		
KSH	39.1	336	eP	15 00 15.0		1.9		
			pP	15 00 26.0		0.7		
			PP	15 01 48.0		1.1		
			S	15 06 13.0		5.1		
			SME				3.0	0.30
			LE		Ms=4.6		10.0	0.30
HHC	39.3	20	eP	15 00 16.4		1.9		
WMQ	39.9	352	P	15 00 20.3		0.4		
			PMZ				1.5	0.050
			S	15 06 22.5		2.3		
			SMN				1.5	0.040
BJI	40.4	25	+P	15 00 24.5		1.4		
			eS	15 06 32.0		4.8		
SNY	45.2	30	−iP	15 01 02.2		−0.4		
CN2	47.6	30	eP	15 01 20.0		−1.4		
			eS	15 08 08.0		−4.0		
MDJ	50.3	32	eP	15 01 42.8		0.6		

1987 2 25
O=01 07 51.5 ± 0.08s
LAT= 2.37 S ± 1.18km
LONG=141.97 E ± 1.56km
DEPTH= 20 km ± 0.25km
STATIONS USED = 91, STAND DEV= 1.07s
Ms=5.1 / 24, m_B=5.7 / 5

GZH	37.7	314	+iP	01 15 08.0		0.5		
QZN	38.1	305	−P	01 15 11.0		0.0		
			pP	01 15 17.0		−1.2		
			eS	01 21 05.0		2.5		
			eSS	01 23 46.0		6.8		
			LN		Ms=4.9		13.0	0.50
			LE				13.0	0.60
SSE	38.7	331	eP	01 15 17.0		0.7		
			PMZ				1.4	0.10

			pP	01 15 23.5	0.0	
			sP	01 15 27.0	0.2	
			S	01 21 14.0	2.7	
			esS	01 21 29.0	4.8	
			LE	Ms=5.0	12.0	0.82
NJ2	40.6	329	–P	01 15 32.0	–0.4	
			S	01 21 46.0	5.6	
			LE	Ms=5.1	11.0	0.90
WHN	42.0	323	eP	01 15 45.5	2.0	
			pP	01 15 51.5	0.8	
			LE	Ms=4.8	12.0	0.50
GYA	44.5	312	–P	01 16 05.2	0.9	
			sP	01 16 13.0	–1.6	
			S	01 22 43.0	5.7	
TIA	44.8	331	eP	01 16 06.2	–0.3	
			esP	01 16 15.8	–1.1	
			S	01 22 43.5	1.9	
			LN	Ms=5.1	14.0	0.89
			LE		14.0	0.58
KMI	46.8	308	–P	01 16 23.5	1.0	
			pP	01 16 30.0	0.5	
			PP	01 18 15.0	3.5	
			eS	01 23 17.0	5.6	
			LN	Ms=4.9	15.0	0.60
SNY	47.0	341	–P	01 16 22.5	–1.5	
			PMZ	m_B=6.2	4.5	1.52
			S	01 23 17.0	3.8	
			LN	Ms=5.1	24.0	0.91
			LE		24.0	1.27
XAN	47.7	322	–P	01 16 29.0	–0.5	
			pP	01 16 36.7	0.1	
			S	01 23 19.5	–3.4	
			LN	Ms=5.2	13.0	1.16
MDJ	48.1	348	eP	01 16 32.0	–0.1	
			sP	01 16 41.0	–1.4	
			S	01 23 30.5	2.9	
CN2	48.3	344	eP	01 16 32.5	–1.3	
			eS	01 23 33.0	1.1	
TIY	48.4	328	+P	01 16 35.0	0.6	
			sS	01 23 44.0	–0.9	
			LN	Ms=4.9	15.0	0.66
BJI	48.4	333	–P	01 16 34.0	–0.4	
			epP	01 16 40.0	–1.6	
			eS	01 23 31.0	–1.9	
			LN	Ms=5.1	20.0	1.41
CD2	49.2	315	eP	01 16 40.2	–0.5	
			S	01 23 48.0	4.9	
			LN	Ms=5.3	20.0	1.24
			LE		15.0	1.32
BTO	51.8	329	P	01 17 00.0	–0.4	
			pP	01 17 07.0	–0.5	
			eS	01 24 23.0	2.7	
			esS	01 24 33.0	0.9	
			LN	Ms=5.2	14.0	0.70
			LE		14.0	0.70
LZH	52.2	321	–P	01 17 04.0	0.0	
			PMZ		1.5	0.14
			eS	01 24 30.0	3.3	
			LE	Ms=5.1	9.0	0.45
GTA	56.8	322	–P	01 17 36.9	–0.4	
			eS	01 25 21.5	–6.5	
			LN	Ms=4.9	10.0	0.30
WMQ	66.8	320	–iP	01 18 46.0	1.5	
			PMZ		1.5	0.14
			eS	01 27 39.0	4.4	
			LN	Ms=4.8	22.0	0.46
KSH	73.2	312	–iP	01 19 26.0	2.2	
			sP	01 19 33.0	–1.1	
			PcP	01 19 40.0	0.6	
			LE	Ms=5.2	8.0	0.30

1987 2 25
O=04 00 29.8 ± 0.07s
LAT= 5.50 S ± 1.32km
LONG=103.76 E ± 1.42km
DEPTH= 42 km ± 0.19km
STATIONS USED = 25, STAND DEV= 1.11s

GYA	31.9	5	P	04 06 55.4	1.5
XAN	39.6	7	eP	04 07 59.9	0.4
GTA	44.8	356	+P	04 08 43.0	0.8
BJI	46.7	13	eP	04 08 58.0	0.9
WMQ	51.2	345	P	04 09 32.0	0.4
CN2	52.8	20	eP	04 09 43.0	–0.9

1987 2 25
O=11 27 12.8 ± 0.12s
LAT= 6.14 S ± 1.21km
LONG=147.68 E ± 1.62km
DEPTH= 67 km ± 1.45km
STATIONS USED = 98, STAND DEV= 1.21s
Ms=5.7/42, m_B=5.9/28

QZH	41.9	319	+P	11 35 00.0	1.4	
			PcP	11 36 53.5	0.2	
			S	11 41 17.0	6.0	
			SME	m_B=6.0	8.0	1.86
			LE	Ms=5.7	20.0	6.25
GZH	44.4	312	+P	11 35 20.0	1.2	
			S	11 41 45.0	–2.1	
			LN	Ms=5.7	22.0	4.68
			LE		24.0	3.81

SSE	44.9	327	+iP	11 35 23.0	0.4		
			PMZ			1.0	0.10
			pP	11 35 40.0	1.0		
			PP	11 37 11.0	2.3		
			S	11 42 00.0	6.0		
			sS	11 42 28.0	4.7		
			eScS	11 45 08.0	−2.3		
			LE	Ms = 5.8		20.0	7.50
QZN	44.9	305	eP	11 35 23.0	0.1		
			sP	11 35 48.0	0.7		
			PP	11 37 07.0	−2.0		
			S	11 42 00.0	5.6		
			SMN	m_B = 5.7		11.0	1.00
			SME			11.0	0.90
			LN	Ms = 5.5		18.0	2.00
			LE			15.0	1.80
NJ2	46.9	326	+iP	11 35 40.0	1.4		
			PcP	11 37 13.0	2.7		
			SME	m_B = 5.9		7.5	1.40
			LN	Ms = 5.8		12.0	4.00
WHN	48.5	321	P	11 35 52.0	1.0		
			PMZ	m_B = 6.2		5.0	1.50
			pP	11 36 08.0	0.5		
			PP	11 37 40.0	−3.8		
			S	11 42 52.0	6.9		
			SMN	m_B = 5.9		10.0	1.70
			LN	Ms = 5.7		15.0	3.60
			LE			16.0	1.90
DL2	50.9	334	P	11 36 09.0	−0.7		
			S	11 43 20.0	1.0		
			LN	Ms = 5.8		16.0	2.52
			LE			16.0	3.90
TIA	50.9	328	+P	11 36 09.4	−0.7		
			pP	11 36 25.2	−1.5		
			S	11 43 15.0	−4.6		
			SMN	m_B = 5.9		11.0	1.65
			SME			11.0	0.68
			LN	Ms = 5.9		14.0	3.30
			LE			14.0	4.04
GYA	51.3	311	P	11 36 13.0	0.3		
			sP	11 36 37.0	−0.2		
			PP	11 38 14.0	3.4		
			S	11 43 31.0	6.8		
			SMN	m_B = 6.0		9.0	1.00
			SME			9.0	1.70
			LN	Ms = 5.4		20.0	1.30
			LE			20.0	1.80
SNY	52.6	337	+iP	11 36 22.0	−0.2		
			PMZ	m_B = 6.2		4.0	1.21
			epP	11 36 39.0	0.1		
			S	11 43 47.0	5.1		
			LN	Ms = 6.2		29.0	11.2
			LE			32.0	17.6
MDJ	53.1	344	+iP	11 36 26.5	0.4		
			ScP	11 41 27.4	4.5		
			S	11 43 52.0	3.3		
CN2	53.6	340	+P	11 36 29.0	−1.0		
			PMZ	m_B = 5.7		4.0	0.40
			PcP	11 37 35.0	0.0		
			ScP	11 41 30.0	4.8		
			eS	11 44 00.0	2.8		
KMI	53.6	307	+P	11 36 31.0	0.7		
			pP	11 36 47.0	0.3		
			sP	11 36 54.0	−0.7		
			sS	11 44 31.0	5.0		
			LE	Ms = 5.6		20.0	3.10
XAN	54.2	320	+iP	11 36 34.0	−0.5		
			PMZ			1.4	1.50
			pP	11 36 51.0	−0.2		
			PcS	11 41 34.3	−0.8		
			S	11 44 06.0	1.9		
			SMN	m_B = 5.9		9.0	1.16
			SME			9.0	0.82
			LN	Ms = 5.6		16.0	2.38
			LE			16.0	1.43
BJI	54.3	330	+P	11 36 34.0	−1.4		
			PMZ	m_B = 5.7		5.0	0.52
			eS	11 44 09.0	2.0		
			SMN	m_B = 5.7		8.0	0.80
			LN	Ms = 5.7		19.0	4.25
TIY	54.6	326	+P	11 36 36.5	−0.8		
			PMZ			1.4	0.060
			pP	11 36 49.0	−5.0		
			sP	11 36 58.0	−3.9		
			PcP	11 37 37.0	−1.7		
			PP	11 38 42.5	1.2		
			S	11 44 10.5	1.3		
			SMN	m_B = 5.8		8.0	0.56
			SME			7.0	0.69
			sS	11 44 36.0	−3.3		
			SS	11 47 54.0	2.2		
			LN	Ms = 5.7		16.0	2.34
			LE			15.0	1.71
CD2	55.9	314	P	11 36 45.8	−0.6		
			S	11 44 32.0	6.0		
			LE	Ms = 5.8		19.0	5.10
HHC	57.3	328	+P	11 36 57.0	0.2		
			pP	11 37 17.0	3.5		
			SMN	m_B = 5.9		7.0	0.99
			SME			6.0	0.67

			LN	Ms=5.7		16.0	2.68
			LE			15.0	1.03
BTO	58.0	327	+P	11 37 01.0	−0.3		
			pP	11 37 16.0	−2.1		
			sP	11 37 26.0	0.0		
			LN	Ms=5.8		18.0	3.70
			LE			20.0	3.20
LZH	58.8	319	eP	11 37 06.5	−0.4		
			PMZ			1.5	0.12
			pP	11 37 22.5	−1.2		
			sP	11 37 28.5	−3.1		
			eS	11 45 11.0	5.4		
			SME	m_B=5.7		9.0	1.13
			LN	Ms=5.6		17.0	2.66
GTA	63.3	320	+iP	11 37 36.8	−0.8		
			pP	11 37 54.0	−0.6		
			S	11 46 08.0	6.3		
			SMN	m_B=5.7		7.0	0.73
			LN	Ms=5.9		17.0	1.90
			LE			24.0	5.32
LSA	64.9	307	+P	11 37 47.3	−0.9		
WMQ	73.3	319	P	11 38 39.2	−0.7		
			sP	11 39 04.0	−1.0		
			S	11 48 07.0	6.0		
			SMN	m_B=6.1		7.0	0.91
			SME			7.0	1.11
			LE	Ms=5.7		24.0	3.03
KSH	79.9	312	P	11 39 19.0	1.8		
			pP	11 39 36.0	1.4		
			cPP	11 42 24.0	3.8		
			SME	m_B=6.0		8.0	0.90
			LE	Ms=5.9		15.0	2.50

1987 2 25
O=14 28 02.7 ± 0.12s
LAT=21.73 N ± 1.43km
LONG=111.73 E ± 1.06km
DEPTH= 15 km ± 0.15km
STATIONS USED = 45, STAND DEV= 1.91s
Ms=4.7/10, M_L=5.1/10,

GZH	2.0	48	+Pn	14 28 36.2	−0.4		
			Pg	14 28 41.3	3.1		
			Sg	14 29 06.0	0.2		
			SMN	M_L=5.1		1.0	13.8
			SME			1.0	14.5
QZN	3.2	214	Pn	14 28 54.9	1.6		
			iSg	14 29 46.8	3.1		
			Sn	14 29 31.6	−1.7		
			SMN	M_L=4.7		1.0	2.40
			SME			1.0	2.30
GYA	6.6	316	Pn	14 29 42.6	2.8		
			Sn	14 30 57.0	0.0		
			Sg	14 31 32.0	2.6		
			SMN	M_L=5.1		1.2	0.95
			SME			1.2	1.22
			LN	Ms=4.8		4.0	2.60
			LE			4.0	2.40
QZH	7.1	62	cPn	14 29 47.0	0.9		
			Sn	14 31 07.0	−1.5		
			LE	Ms=4.5		6.0	2.54
WHN	9.1	14	eP	14 30 14.0	−2.5		
			S	14 31 54.0	−5.3		
			LE	Ms=4.7		8.0	3.10
CD2	11.6	324	eP	14 30 50.0	−1.2		
			LN	Ms=4.7		6.0	1.70
XAN	12.5	349	eP	14 31 02.5	−0.9		
			LN	Ms=4.8		6.0	1.68
LZH	15.9	336	eP	14 31 48.0	0.2		
			LE	Ms=4.8		8.0	1.48
GTA	20.4	333	eP	14 32 42.3	0.4		

1987 2 25
O=14 37 05.7 ± 0.12s
LAT= 7.75 S ± 1.69km
LONG=116.97 E ± 1.85km
DEPTH=305 km ± 0.46km
STATIONS USED = 82, STAND DEV= 1.13s

QZN	27.5	345	eP	14 42 28.0	0.9		
			eS	14 46 50.5	5.5		
GYA	35.4	344	+P	14 43 37.0	1.3		
			PcP	14 45 58.0	0.1		
			S	14 48 51.0	3.7		
			ScP	14 49 14.0	1.0		
			ScS	14 53 19.8	2.5		
WHN	38.2	356	P	14 43 59.5	1.4		
SSE	38.8	6	−P	14 44 04.5	0.8		
			PMZ			1.2	0.070
			eS	14 49 44.0	4.8		
			csS	14 51 26.0	−0.2		
NJ2	39.6	3	+iP	14 44 12.0	1.9		
CD2	40.5	342	+iP	14 44 17.8	0.6		
			PMZ			0.8	0.42
XAN	42.3	350	+P	14 44 31.4	−0.3		
			S	14 50 26.7	−1.7		
TIA	43.7	0	+P	14 44 43.2	−0.2		
			PcP	14 46 24.8	0.4		
LZH	45.3	345	+P	14 44 56.5	0.3		
			PMZ			1.5	0.14
TIY	45.4	355	+iP	14 44 56.0	−0.9		
			PMZ			0.8	0.13

			S	14 51 15.0	1.2	
DL2	46.6	5	P	14 45 05.0	−1.1	
BJI	47.6	359	+P	14 45 13.0	−0.3	
BTO	48.5	353	+P	14 45 20.0	−1.0	
HHC	48.6	355	+P	14 45 22.2	0.6	
GTA	49.5	343	+iP	14 45 29.0	0.3	
			ScS	14 54 45.0	0.7	
SNY	49.7	6	+iP	14 45 28.4	−1.3	
CN2	51.9	8	+P	14 45 44.0	−1.8	
MDJ	53.3	11	+iP	14 45 56.0	−0.6	
			PcP	14 46 56.4	−3.0	
			S	14 53 08.0	5.1	
WMQ	57.8	335	+iP	14 46 27.6	−0.3	
KSH	60.4	324	eP	14 46 46.0	0.2	

1987 2 25

O = 15 20 18.2 ± 0.11s

LAT = 18.85 N ± 1.91km

LONG = 121.03 E ± 1.97km

DEPTH = 14 km ± 0.51km

STATIONS USED = 102, STAND DEV = 1.80s

Ms = 5.3 / 43, M_L = 5.2 / 5, m_B = 5.8 / 9

QZH	6.5	340	ePn	15 21 53.0	−0.5	
			Sn	15 23 02.6	−6.9	
			SMN	M_L = 5.2	1.0	0.94
			SME		1.0	2.00
GZH	8.3	302	eP	15 22 18.6	−3.0	
			LN	Ms = 5.0	14.0	12.2
			LE		14.0	5.50
QZN	10.6	273	eP	15 22 48.2	−4.7	
			sP	15 22 56.0	−5.2	
			S	15 24 46.1	−5.9	
			LN	Ms = 5.1	13.0	5.90
			LE		15.0	10.0
SSE	12.2	1	+P	15 23 14.5	−0.2	
			PMZ		1.0	0.10
			cpP	15 23 19.0	−0.6	
			sP	15 23 23.5	0.3	
			eS	15 25 29.0	−2.6	
			sS	15 25 35.0	−5.2	
			eSS	15 25 44.0	−1.5	
			LE	Ms = 3.2	16.0	0.14
WHN	13.1	334	eP	15 23 25.0	−2.2	
			sP	15 23 33.0	−2.8	
			LN	Ms = 5.4	14.0	10.2
			LE		14.0	9.30
NJ2	13.3	352	−P	15 23 28.4	−1.0	
			eS	15 25 55.0	−3.1	
			LN	Ms = 5.3	14.0	13.2
GYA	15.3	302	P	15 23 55.2	−0.2	
			sP	15 24 04.0	0.0	
			PP	15 24 13.0	6.0	
			S	15 26 45.0	0.6	
			LN	Ms = 5.0	12.0	3.60
			LE		12.0	2.60
TIA	17.6	350	eP	15 24 28.3	2.8	
			PMZ	m_B = 5.7	7.0	2.62
			pP	15 24 28.3	−2.3	
			eS	15 27 44.5	4.6	
			SMN	m_B = 5.8	8.0	3.10
			SME		9.0	2.98
			LN	Ms = 5.3	17.0	8.07
			LE		17.0	4.53
KMI	18.1	293	−P	15 24 33.0	1.9	
			sP	15 24 44.0	4.4	
			eS	15 27 52.0	1.9	
			sS	15 28 00.0	2.0	
			SS	15 28 13.0	1.1	
			LN	Ms = 5.3	12.0	5.80
XAN	18.6	327	P	15 24 38.5	1.2	
			LN	Ms = 5.4	14.0	7.80
CD2	19.7	311	−iP	15 24 50.4	0.0	
			S	15 28 33.0	6.9	
			LE	Ms = 5.4	13.0	7.20
DL2	20.0	1	P	15 24 55.0	1.5	
			PMZ		3.0	1.16
			pP	15 25 04.0	4.9	
			S	15 28 32.0	−0.2	
			SMN	m_B = 5.8	8.0	3.00
			SME		6.0	1.70
			LN	Ms = 5.3	16.0	3.80
			LE		12.0	4.10
TIY	20.2	340	P	15 24 57.0	0.8	
			PMZ		1.0	0.21
			pP	15 25 02.0	0.2	
			sP	15 25 08.5	3.4	
			PP	15 25 18.0	2.5	
			S	15 28 38.5	1.2	
			SMN	m_B = 5.7	6.0	2.06
			SME		7.0	1.52
			LN	Ms = 5.5	15.0	8.77
			LE		16.0	5.42
BJI	21.5	350	eP	15 25 09.0	−0.4	
			sP	15 25 24.0	5.6	
			eS	15 29 00.0	−2.9	
			esS	15 29 12.0	−0.3	
			LN	Ms = 5.1	15.0	3.85
LZH	22.9	322	eP	15 25 25.0	1.8	
			PMZ		1.5	0.23
			eS	15 29 23.0	−5.5	

			SMN	$m_B = 5.9$	8.0	3.69
			LN	Ms = 5.3	14.0	5.23
SNY	23.0	5	+iP	15 25 23.2	−0.9	
			PMZ		2.5	1.31
			S	15 29 24.5	−4.7	
			SMN	$m_B = 6.0$	9.5	5.05
			LN	Ms = 5.6	19.0	6.12
			LE		17.0	9.44
HHC	23.4	342	P	15 25 30.6	2.7	
			pP	15 25 38.5	4.9	
			PP	15 26 01.0	2.5	
			S	15 29 41.0	5.1	
			SMN	$m_B = 5.9$	11.0	4.25
			SME		10.0	2.32
			LN	Ms = 5.5	14.0	7.00
			LE		13.0	1.47
BTO	23.7	339	P	15 25 31.5	1.0	
			sP	15 25 41.5	2.2	
			cPP	15 26 02.0	−0.3	
			S	15 29 40.0	−0.6	
			sS	15 29 49.0	−1.9	
			SS	15 30 27.0	−1.7	
			LN	Ms = 5.6	15.0	3.60
			LE		16.0	9.70
CN2	25.2	8	+P	15 25 44.7	−0.2	
			pP	15 25 50.0	−0.7	
			eS	15 30 04.0	−3.0	
			SMN		16.0	3.50
			sS	15 30 19.0	2.3	
MDJ	26.7	14	eP	15 25 58.5	−0.5	
			pP	15 26 04.5	−0.4	
			S	15 30 33.0	1.7	
			LE	Ms = 5.5	14.0	5.80
GTA	27.5	323	P	15 26 06.7	−0.1	
			PcP	15 29 25.0	0.6	
			eS	15 30 40.0	−5.8	
			ScP	15 33 03.0	−0.2	
			eScS	15 36 51.7	−1.8	
			LN	Ms = 5.3	27.0	5.63
			LE		13.0	2.51
LSA	29.2	297	−P	15 26 22.4	−0.2	
WMQ	37.4	319	P	15 27 35.0	1.9	
			PP	15 29 03.0	2.6	
			PcP	15 29 53.0	1.5	
			S	15 33 25.0	5.3	
			LN	Ms = 5.5	16.0	4.08
KSH	43.8	308	−P	15 28 29.0	2.6	
			pP	15 28 35.0	2.6	
			cPP	15 30 13.0	3.3	
			S	15 34 58.0	2.4	
			LE	Ms = 5.6	12.0	2.80

1987 2 25

O = 19 56 34.3 ± 0.09s
LAT = 38.06 N ± 1.36km
LONG = 91.25 E ± 1.17km
DEPTH = 24 km ± 0.07km
STATIONS USED = 98, STAND DEV = 1.73s
Ms = 6.1 / 48, m_B = 6.1 / 15

WMQ	6.3	336	+iPn	19 58 09.6	2.7		
			Sn	19 59 17.0	−3.6		
			LN	Ms = 5.9		10.0	126
GTA	6.8	76	−iPn	19 58 16.2	2.5		
			Sn	19 59 30.0	−2.6		
			LE	Ms = 5.9		10.5	112
LSA	8.3	181	+P	19 58 41.0	3.7		
			LN	Ms = 5.6		11.0	29.0
			LE			7.0	21.9
LZH	10.3	97	+iP	19 59 01.5	−2.0		
			LE	Ms = 6.3		12.0	176
KSH	12.0	281	+P	19 59 26.0	−1.3		
			sP	19 59 34.0	−3.4		
			S	20 01 43.0	2.0		
			LN	Ms = 5.9		12.0	46.4
CD2	12.5	121	+iP	19 59 35.7	1.3		
			S	20 01 59.5	5.7		
			LE	Ms = 6.3		10.0	88.0
BTO	14.7	74	P	20 00 01.9	−1.7		
			S	20 02 44.0	−2.5		
			LN	Ms = 6.0		11.0	20.3
			LE			13.0	38.2
XAN	14.8	100	−iP	20 00 00.9	−3.9		
			SS	20 03 06.0	−0.1		
			LE	Ms = 6.2		10.0	61.4
HHC	15.9	74	+P	20 00 19.0	0.0		
			S	20 03 11.0	−3.3		
KMI	16.2	140	+P	20 00 21.0	−1.1		
			PMZ	m_B = 5.7		6.0	2.20
			pP	20 00 27.0	−1.2		
			sP	20 00 31.0	−1.3		
			eS	20 03 19.0	−1.9		
			sS	20 03 27.0	−3.6		
			LN	Ms = 5.9		10.0	26.5
TIY	16.7	85	+iP	20 00 27.0	−2.0		
			PMZ			1.2	0.060
			S	20 03 29.5	−3.2		
			SMN	m_B = 5.7		5.0	2.21
			sS	20 03 40.5	−3.0		
			PcP	20 05 12.0	−5.6		
			LN	Ms = 6.3		10.0	28.7

			LE			9.0	48.8
GYA	17.4	127	+P	20 00 36.0	−1.5		
			pP	20 00 40.0	−3.8		
			PP	20 00 52.0	0.5		
			S	20 03 43.6	−4.5		
			LN	Ms=6.1		10.0	26.1
			LE			10.0	20.6
BJI	19.4	76	+P	20 01 03.0	0.9		
			PMZ	m_B=5.8		6.0	2.55
			SMN	m_B=6.2		9.0	7.25
			SME			12.0	7.07
			LN	Ms=6.0		8.0	19.6
WHN	20.5	105	+iP	20 01 14.0	0.8		
			PMZ			1.0	0.40
			sP	20 01 21.0	−3.2		
			iS	20 05 01.0	4.4		
			SMN			3.0	9.50
			SS	20 05 32.0	6.1		
			LE	Ms=5.9		13.0	23.4
TIA	20.7	87	+P	20 01 16.3	0.7		
			PMZ	m_B=5.8		10.0	4.60
			pP	20 01 25.3	2.5		
			S	20 05 05.0	4.9		
			SMN	m_B=6.2		9.0	7.46
			SME			6.0	2.18
			LN	Ms=6.6		12.0	69.3
			LE			12.0	85.0
NJ2	23.3	97	+P	20 01 43.6	1.7		
			LE	Ms=6.3		11.0	33.6
DL2	23.7	78	P	20 01 50.0	4.1		
			S	20 05 56.0	0.0		
			sS	20 06 12.0	3.0		
			LN	Ms=6.2		14.0	19.2
			LE			14.0	28.5
GZH	24.1	122	+iP	20 01 51.0	1.7		
			S	20 06 05.0	3.0		
			SMN	m_B=6.4		11.0	9.69
			SME			7.0	6.91
			LN	Ms=6.1		9.0	11.2
			LE			11.0	18.6
QZN	24.9	134	+P	20 01 59.0	1.5		
			PMZ	m_B=5.7		10.0	2.70
			cS	20 06 19.0	1.8		
			sS	20 06 28.0	−1.5		
			SS	20 07 15.0	0.0		
			LN	Ms=6.1		12.0	8.10
			LE			13.0	23.8
SNY	25.0	71	+iP	20 01 58.0	0.0		
			PMZ	m_B=5.6		12.0	2.60
			sP	20 02 06.3	−2.7		
			iS	20 06 14.0	−3.9		
			SMN			20.0	3.95
			SME			18.0	2.93
			LN	Ms=6.2		13.0	8.51
			LE			14.0	28.3
SSE	25.5	97	+iP	20 02 05.0	1.9		
			PMZ			1.3	1.10
			sP	20 02 12.0	−2.2		
			S	20 06 24.0	−2.3		
			sS	20 06 38.0	−1.6		
			SS	20 07 32.0	2.6		
			LN	Ms=6.2		10.0	14.5
			LE			10.0	15.3
CN2	26.3	67	+P	20 02 11.0	0.3		
			sP	20 02 19.0	−2.7		
			eS	20 06 39.0	−1.3		
QZH	26.6	111	+P	20 02 14.0	0.8		
			S	20 06 50.0	5.9		
			SME	m_B=5.9		6.0	1.73
			LN	Ms=6.1		12.0	19.4
MDJ	29.3	65	+P	20 02 38.5	0.8		
			pP	20 02 44.0	−1.3		
			sP	20 02 47.0	−1.8		
			PP	20 03 29.5	−2.8		
			S	20 07 27.0	−0.6		
			sS	20 07 37.0	−4.3		
			LE	Ms=6.5		10.0	38.8

1987 2 25

O=20 27 23.1 ± 0.10s

LAT=38.14 N ± 1.62km

LONG= 91.26 E ± 1.16km

DEPTH= 23 km ± 0.05km

STATIONS USED = 52, STAND DEV= 2.14s

Ms=4.3/ 2, M_L=4.6/ 8, m_B=5.1/ 1

WMQ	6.3	336	+iPn	20 28 58.5	3.6		
GTA	6.8	77	Pn	20 29 04.3	2.1		
			Pg	20 29 27.8	4.6		
			Sn	20 30 21.4	0.4		
			Sg	20 30 55.8	−0.4		
			SME	M_L=4.2		0.9	0.12
			LN	Ms=4.1		10.0	1.82
LZH	10.3	98	eP	20 29 49.0	−3.5		
CD2	12.6	121	P	20 30 27.8	4.0		
BTO	14.7	75	eP	20 30 54.6	2.4		
XAN	14.9	101	eP	20 30 50.6	−3.3		
HHC	15.9	74	eP	20 31 12.0	4.4		
KMI	16.2	140	−P	20 31 14.5	2.6		
			pP	20 31 19.0	1.3		
TIY	16.7	85	−P	20 31 19.6	1.8		

GYA	17.4	127	−P	20 31 28.2	1.2	
			pP	20 31 33.0	−0.1	
			S	20 34 40.0	1.8	
BJI	19.4	77	cP	20 31 51.0	0.2	
WHN	20.5	105	P	20 32 01.5	−0.9	
SSE	25.5	97	P	20 32 52.7	0.5	
			cpP	20 32 58.0	−1.4	
CN2	26.3	67	+P	20 32 58.6	−0.7	

1987 2 26

O = 00 24 02.6 ± 0.07s
LAT = 30.09 N ± 1.60km
LONG = 141.94 E ± 1.56km
DEPTH = 32 km ± 0.54km
STATIONS USED = 82, STAND DEV = 1.17s
Ms = 5.1 / 28,

MDJ	17.5	329	+P	00 28 05.8	0.1		
			pP	00 28 12.5	−0.6		
SSE	17.9	278	cP	00 28 11.7	0.8		
			PMZ			14.0	1.16
			esS	00 31 36.0	−2.7		
			SS	00 31 49.0	−0.2		
			LN	Ms = 5.0		14.0	1.38
			LE			17.0	3.66
SNY	18.9	313	+iP	00 28 23.0	0.0		
DL2	18.9	303	−P	00 28 26.0	2.9		
			LN	Ms = 5.1		14.0	2.68
			LE			14.0	3.59
CN2	18.9	321	+P	00 28 22.0	−1.9		
			sP	00 28 33.0	−2.8		
			cS	00 31 45.0	−5.7		
NJ2	19.9	282	+P	00 28 35.8	1.7		
			eS	00 32 17.0	5.8		
			LE	Ms = 5.0		17.0	4.10
QZH	21.3	262	eP	00 28 51.8	2.6		
			LN	Ms = 4.9		18.0	1.69
			LE			18.0	2.05
TIA	21.6	293	eP	00 28 52.1	−0.2		
			esP	00 29 02.5	−2.4		
			eS	00 32 50.0	4.8		
			LN	Ms = 5.1		16.5	1.56
			LE			16.5	3.41
BJI	23.2	302	eP	00 29 08.0	−0.2		
			eS	00 33 16.0	1.6		
			LE	Ms = 5.0		16.0	3.02
WHN	23.8	278	eP	00 29 15.0	1.3		
			sP	00 29 27.0	0.7		
			eS	00 33 28.0	3.7		
			LN	Ms = 5.1		13.0	1.90
			LE			16.0	2.50
TIY	25.6	295	P	00 29 29.8	−1.0		
			eS	00 33 49.0	−5.4		
			sS	00 34 04.0	−4.7		
			LN	Ms = 5.3		15.5	2.14
			LE			16.0	4.18
HHC	26.8	302	eP	00 29 44.0	1.3		
			eS	00 34 14.0	−1.4		
			LN	Ms = 5.3		16.0	2.11
			LE			16.0	3.98
BTO	27.9	301	P	00 29 52.0	−0.6		
			cpP	00 29 59.0	−2.2		
			cPP	00 30 40.0	−1.7		
			eS	00 34 30.5	−2.5		
			LN	Ms = 5.5		16.0	2.30
			LE			16.0	5.70
XAN	28.2	287	eP	00 29 53.0	−1.8		
			LN	Ms = 5.2		14.0	1.70
			LE			15.0	2.00
QZN	31.1	257	eP	00 30 21.0	0.3		
			ePP	00 31 24.0	1.1		
			eS	00 35 25.0	1.9		
			LN	Ms = 4.8		18.0	1.10
GYA	31.2	272	P	00 30 23.0	1.3		
			sP	00 30 32.8	−1.5		
			PcP	00 33 21.0	5.5		
			S	00 35 21.2	−2.6		
			LN	Ms = 4.6		18.0	0.70
LZH	32.3	291	eP	00 30 31.0	−0.6		
			eS	00 35 39.0	−3.7		
			LN	Ms = 5.2		15.0	2.37
CD2	32.8	281	eP	00 30 33.7	−2.0		
			eS	00 35 46.0	−3.9		
			LN	Ms = 5.3		16.0	3.07
KMI	35.0	272	eP	00 30 56.0	1.5		
GTA	35.6	297	−P	00 30 58.9	−0.6		
			eS	00 36 30.0	−2.9		
			LE	Ms = 5.1		16.0	1.81
LSA	43.7	283	eP	00 32 08.5	0.9		
WMQ	44.7	303	P	00 32 15.5	0.5		
			pP	00 32 24.5	0.5		
			sP	00 32 28.6	0.8		
			PcP	00 34 00.0	3.1		
			PP	00 34 03.0	2.7		
			S	00 38 47.5	−0.6		
			ScS	00 42 08.4	1.5		
KSH	53.9	299	eP	00 33 27.0	1.1		
			sP	00 33 39.0	0.1		
			LE	Ms = 5.6		8.0	1.30

1987 2 26

O = 04 05 26.7 ± 0.10s
LAT = 6.73 S ± 1.64km
LONG = 126.08 E ± 2.16km
DEPTH = 483 km ± 0.16km
STATIONS USED = 64, STAND DEV = 0.99s

QZN	30.2	328	eP	04 10 58.0	−0.4		
			pP	04 12 24.0	2.0		
			eS	04 15 24.0	0.1		
SSE	37.9	353	P	04 12 04.0	0.9		
			PMZ			1.1	0.040
GYA	38.0	331	P	04 12 04.2	0.3		
			PcP	04 14 08.0	0.4		
WHN	38.7	344	−iP	04 12 11.0	1.2		
NJ2	39.2	350	−P	04 12 14.9	1.4		
			ScP	04 17 12.6	0.1		
CD2	43.1	331	P	04 12 44.6	−0.4		
TIA	43.5	349	−P	04 12 47.9	−0.5		
XAN	43.7	339	−P	04 12 48.6	−1.0		
			PcP	04 14 26.0	−0.4		
DL2	45.6	355	−P	04 13 04.0	−0.4		
TIY	46.0	345	P	04 13 07.5	−0.3		
			PMZ			1.1	0.030
BJI	47.4	350	eP	04 13 18.0	−0.5		
			PcP	04 14 38.0	−1.6		
LZH	47.4	335	−iP	04 13 19.0	0.2		
			PMZ			1.5	0.14
			S	04 19 37.0	0.8		
SNY	48.4	358	−iP	04 13 25.2	−0.5		
CN2	50.3	359	−P	04 13 39.2	−0.9		
MDJ	51.2	3	−P	04 13 47.4	0.6		
GTA	51.9	334	−iP	04 13 51.8	−0.6		
			iPcP	04 14 56.6	0.3		
WMQ	61.1	329	P	04 14 55.0	−0.4		

1987 2 26
O = 04 30 36.1 ± 0.28s
LAT = 19.76 S ± 2.52km
LONG = 168.72 E ± 1.08km
DEPTH = 46 km ± 2.91km
STATIONS USED = 34, STAND DEV = 2.60s

WHN	72.3	313	eP	04 42 01.5	1.9		
MDJ	73.3	332	P	04 42 05.5	−0.1		
TIA	74.0	319	eP	04 42 13.9	4.4		
CN2	74.6	329	P	04 42 18.0	4.8		
BJI	77.0	321	eP	04 42 25.0	−1.8		
TIY	77.9	318	P	04 42 32.0	0.4		
XAN	78.1	313	+P	04 42 32.4	−0.4		
CD2	80.2	308	eP	04 42 44.0	0.0		
LZH	82.7	312	P	04 42 58.0	0.6		
GTA	87.1	314	P	04 43 19.5	0.1		

1987 2 26
O = 04 36 06.8 ± 0.32s
LAT = 19.79 S ± 2.24km
LONG = 168.67 E ± 0.80km
DEPTH = 29 km ± 3.13km
STATIONS USED = 39, STAND DEV = 2.70s
Ms = 5.4 / 7, m_B = 5.6 / 3

SSE	68.1	317	eP	04 47 05.0	−1.6		
			eS	04 56 01.0	−2.4		
			eScS	04 56 58.0	−1.0		
			eSS	05 00 22.0	−4.1		
			LN	Ms = 5.4		20.0	1.20
			LE			20.0	0.69
QZN	69.4	300	eP	04 47 16.6	2.0		
NJ2	70.2	316	eP	04 47 18.7	−1.1		
WHN	72.3	313	eP	04 47 31.0	−1.3		
			S	04 56 52.0	0.5		
			LE	Ms = 5.1		20.0	0.62
MDJ	73.3	332	eP	04 47 38.0	−0.5		
TIA	74.0	319	eP	04 47 41.4	−0.8		
			eS	04 57 07.5	−4.4		
			SMN	m_B = 5.6		9.0	0.45
			LN	Ms = 5.5		19.0	1.53
CN2	74.6	329	+P	04 47 44.4	−1.6		
			eS	04 57 13.0	−6.2		
BJI	77.0	321	eP	04 48 02.0	2.4		
			eS	04 57 43.0	−2.4		
			SMN	m_B = 5.6		9.0	0.43
			LN	Ms = 5.4		20.0	0.55
			LE			18.0	0.90
TIY	77.9	318	eP	04 48 03.2	−1.2		
			pP	04 48 10.0	−3.1		
			sP	04 48 20.0	3.2		
			S	04 57 48.0	−5.0		
			SKS	04 58 07.0	−2.8		
			LN	Ms = 5.5		20.0	0.99
			LE			20.0	1.29
XAN	78.1	313	eP	04 48 04.3	−1.2		
			S	04 57 56.5	1.3		
CD2	80.1	308	P	04 48 16.2	−0.5		
			eS	04 58 13.0	−5.7		
			LE	Ms = 5.8		22.0	3.15
HHC	80.3	320	eP	04 48 17.1	−0.5		
BTO	81.1	319	eP	04 48 20.7	−1.1		
LZH	82.7	312	eP	04 48 30.5	0.3		

1987 2 26
O = 04 58 22.8 ± 0.07s
LAT = 49.88 N ± 1.01km

LONG= 78.07 E ± 0.99km
DEPTH= 10 km ± 0.23km
STATIONS USED = 70, STAND DEV= 1.21s
Ms=4.7/ 5, M_L=5.0/ 7, m_B=5.0/ 1

WMQ	9.0	129	P	05 00 34.1	−1.4		
			SME	M_L=5.2		1.0	0.45
KSH	10.5	189	eP	05 00 58.0	0.8		
			LN	Ms=4.4		6.0	0.90
GTA	18.6	116	+iP	05 02 42.0	−0.7		
			LE	Ms=4.1		22.0	0.66
LSA	22.5	149	−P	05 03 24.0	−0.2		
LZH	23.2	117	eP	05 03 32.0	0.7		
BTO	24.2	100	P	05 03 41.9	1.3		
HHC	25.0	98	−iP	05 03 51.4	2.5		
CD2	27.0	125	P	05 04 07.9	0.6		
TIY	27.4	103	+iP	05 04 12.0	1.4		
XAN	27.6	113	+P	05 04 12.8	0.0		
BJI	28.4	96	eP	05 04 20.0	0.0		
TIA	31.3	101	eP	05 04 46.0	0.7		
GYA	32.1	126	+P	05 04 52.8	0.0		
			PcP	05 07 41.6	0.2		
SNY	32.3	87	eP	05 04 53.3	−0.9		
CN2	32.5	82	eP	05 04 55.0	−1.4		
WHN	33.3	112	+iP	05 05 03.0	−0.3		
NJ2	35.0	105	+P	05 05 18.4	0.2		
QZN	39.9	129	−P	05 05 59.4	0.6		
			eS	05 12 03.5	0.0		
			sS	05 12 09.5	−3.3		

1987 2 26
O=08 58 41.1 ± 0.22s
LAT=37.97 N ± 2.85km
LONG= 91.22 E ± 1.92km
DEPTH= 20 km ± 0.14km
STATIONS USED = 22, STAND DEV= 3.15s
Ms=3.7/ 1, M_L=4.3/ 7,

WMQ	6.4	337	Pn	09 00 17.5	2.4		
			SMN	M_L=4.4		0.8	0.24
GTA	6.9	75	Pn	09 00 23.3	1.9		
			Sn	09 01 38.2	−2.9		
			Sg	09 02 14.2	−2.2		
			SMN	M_L=3.8		0.8	0.060
			SME			0.8	0.040
			LN	Ms=3.7		5.0	0.32
LZH	10.3	97	−P	09 01 09.0	−1.9		
XAN	14.9	100	−iP	09 02 18.2	6.1		
TIY	16.8	84	eP	09 02 37.4	0.7		
			S	09 05 37.5	−3.4		

1987 2 26
O=10 48 53.3 ± 0.08s
LAT=53.43 N ± 3.23km
LONG=163.63 W ± 1.67km
DEPTH= 35 km ± 0.75km
STATIONS USED = 46, STAND DEV= 1.39s
Ms=5.0/ 3, m_B=5.4/ 1

CN2	46.0	288	eP	10 57 15.0	−0.9		
SNY	48.3	287	−P	10 57 34.7	0.7		
BJI	53.7	290	eP	10 58 14.5	−0.3		
BTO	56.7	295	eP	10 58 36.1	−0.7		
TIY	57.4	291	P	10 58 42.0	0.3		
XAN	62.1	290	eP	10 59 13.6	0.2		
GTA	63.0	300	+P	10 59 18.0	−2.0		
			LN	Ms=5.0		18.0	0.62
LZH	63.4	295	eP	10 59 21.0	−1.2		
WMQ	65.5	311	+P	10 59 37.0	0.7		
CD2	67.3	291	eP	10 59 47.7	0.4		
GYA	69.0	286	P	10 59 58.8	0.5		
LSA	75.0	300	eP	11 00 35.0	0.6		

1987 2 26
O=12 16 47.3 ± 0.13s
LAT= 6.14 S ± 2.23km
LONG=104.61 E ± 2.58km
DEPTH= 35 km ± 0.29km
STATIONS USED = 47, STAND DEV= 1.99s
Ms=4.6/ 2,

QZN	25.5	12	eP	12 22 17.4	2.6		
			LN	Ms=4.5		16.0	0.70
GYA	32.5	3	P	12 23 17.0	−0.2		
			PcP	12 26 03.8	0.6		
CD2	36.8	359	P	12 23 53.1	−1.5		
WHN	37.7	14	P	12 24 02.0	0.7		
TIA	43.7	15	P	12 24 51.8	0.2		
TIY	44.2	9	−P	12 24 56.4	0.8		
GTA	45.5	355	−iP	12 25 06.0	−0.2		
			PcP	12 26 44.4	0.3		
BJI	47.2	12	eP	12 25 18.5	−0.4		
			ePcP	12 26 47.0	−2.8		
KSH	52.5	332	P	12 26 01.0	1.0		
CN2	53.2	19	eP	12 26 02.6	−2.0		

1987 2 26
O=13 13 23.4 ± 0.13s
LAT=14.45 N ± 1.76km
LONG=119.29 E ± 1.13km
DEPTH= 57 km ± 1.12km
STATIONS USED = 19, STAND DEV= 2.08s

GYA	16.8	317	P	13 17 17.2	0.5
XAN	21.6	336	eP	13 18 08.5	−2.6

CD2	21.7	322	P	13 18 10.6	−1.3		
TIY	24.0	347	eP	13 18 36.6	2.8		
LZH	25.6	330	eP	13 18 48.0	−1.7		

1987 2 26
O = 13 20 32.7 ± 0.14s
LAT = 14.43 N ± 2.02km
LONG = 119.07 E ± 1.88km
DEPTH = 44 km ± 1.21km
STATIONS USED = 36, STAND DEV = 2.42s
Ms = 4.4 / 3,

QZN	9.9	299	eP	13 22 50.8	−5.4		
			eS	13 24 43.0	−4.0		
			LN	Ms = 4.3		11.0	0.90
			LE			15.0	1.50
GYA	16.7	318	P	13 24 28.0	3.0		
SSE	16.7	6	eP	13 24 26.5	1.2		
			pP	13 24 33.0	−1.1		
NJ2	17.5	359	eP	13 24 37.2	1.4		
XAN	21.6	337	eP	13 25 19.5	−1.3		
CD2	21.6	322	P	13 25 21.0	−0.1		
TIA	21.8	356	eP	13 25 21.5	−1.1		
TIY	23.9	347	eP	13 25 44.4	0.5		
			LE	Ms = 4.4		9.0	0.40
BJI	25.6	355	eP	13 25 59.0	−1.2		
GTA	30.1	329	P	13 26 40.0	−0.8		
			LE	Ms = 4.8		10.0	0.64

1987 2 26
O = 13 24 06.9 ± 0.15s
LAT = 14.59 N ± 2.21km
LONG = 119.22 E ± 2.36km
DEPTH = 32 km ± 0.16km
STATIONS USED = 58, STAND DEV = 2.44s
Ms = 4.7 / 12,

QZN	10.0	297	eP	13 26 30.6	−1.0		
			eS	13 28 27.5	3.5		
			LN	Ms = 4.1		13.0	0.80
			LE			11.0	0.70
WHN	16.5	345	eP	13 28 01.2	3.5		
SSE	16.5	6	P	13 28 02.5	4.5		
			PMZ			1.5	0.090
			sP	13 28 09.5	−0.4		
			cPP	13 28 18.0	6.3		
			csS	13 31 15.0	3.6		
GYA	16.6	317	P	13 28 03.0	3.3		
NJ2	17.4	359	eP	13 28 06.0	−2.8		
			LE	Ms = 4.4		9.0	0.60
KMI	18.7	307	−P	13 28 24.0	−1.3		
			eS	13 31 51.0	1.4		
			LN	Ms = 4.3		14.0	0.70
XAN	21.5	336	eP	13 28 56.0	0.7		
			S	13 32 50.0	3.7		
			LN	Ms = 4.7		11.0	0.55
			LE			11.0	0.91
CD2	21.6	321	eP	13 28 55.1	−1.0		
			LN	Ms = 4.8		12.0	1.52
TIA	21.6	355	eP	13 28 54.0	−2.4		
			eS	13 32 51.9	2.6		
			LN	Ms = 4.5		12.0	0.55
			LE			12.0	0.54
TIY	23.8	347	eP	13 29 19.0	0.9		
			pP	13 29 27.0	0.3		
			S	13 33 34.0	6.1		
			LE	Ms = 4.7		10.0	0.75
LZH	25.5	330	P	13 29 34.0	−0.1		
			PMZ			1.5	0.12
			LN	Ms = 4.7		10.0	0.66
BJI	25.5	355	eP	13 29 34.0	−0.2		
SNY	27.4	7	eP	13 29 51.6	−0.3		
GTA	30.0	329	P	13 30 14.9	−0.7		
			LN	Ms = 4.8		12.0	0.75
			LE			14.0	0.53
MDJ	31.2	14	eP	13 30 26.6	0.8		
WMQ	39.6	324	eP	13 31 39.8	2.0		

1987 2 27
O = 06 50 53.2 ± 0.26s
LAT = 17.52 S ± 4.48km
LONG = 176.91 W ± 3.69km
DEPTH = 6 km ± 0.46km
STATIONS USED = 35, STAND DEV = 1.85s

MDJ	78.7	324	eP	07 03 04.0	5.2
CN2	80.6	322	eP	07 03 09.0	0.0
SNY	80.6	319	−P	07 03 09.0	−0.1
TIA	82.0	312	eP	07 03 19.8	3.2
BJI	84.5	315	eP	07 03 28.5	−0.7
XAN	87.2	307	eP	07 03 42.0	−0.4
HHC	88.0	314	eP	07 03 48.2	1.6
KMI	88.9	297	eP	07 03 52.0	0.9
BTO	89.0	313	eP	07 03 51.4	0.2
LZH	91.8	307	eP	07 04 04.0	−0.3
GTA	95.9	309	eP	07 04 22.0	−1.1

1987 2 27
O = 08 31 53.0 ± 0.08s
LAT = 53.45 N ± 2.54km
LONG = 167.30 W ± 1.33km
DEPTH = 10 km ± 0.42km
STATIONS USED = 102, STAND DEV = 1.18s

Ms=7.1/45,			m_B=6.6/29				
MDJ	41.0	284	+P	08 39 38.0	−0.7		
			pP	08 39 45.0	0.8		
			PP	08 41 15.0	−1.1		
			PcP	08 41 41.5	3.1		
			ScP	08 45 30.0	3.2		
			S	08 45 44.0	−6.3		
			PcS	08 45 33.0	4.9		
			ScS	08 49 46.0	5.3		
CN2	43.9	286	−P	08 40 01.5	−0.7		
			PMZ	m_B=6.6		5.0	5.00
			sP	08 40 11.5	1.0		
			ePP	08 41 40.0	−5.8		
SNY	46.2	285	+iP	08 40 21.7	1.1		
			PMZ	m_B=6.4		10.0	6.81
DL2	49.3	283	P	08 40 45.0	0.7		
			PP	08 42 42.0	4.2		
			PcS	08 46 01.0	−0.8		
			S	08 47 46.0	−2.5		
			SS	08 51 14.0	−1.7		
			LN	Ms=7.1		17.0	95.0
			LE			17.0	58.2
BJI	51.6	288	eP	08 41 03.0	0.5		
			ePcP	08 42 16.5	1.0		
			PP	08 43 03.0	3.2		
			PcS	08 46 11.0	−1.0		
			S	08 48 20.0	−1.5		
			SMN	m_B=6.8		10.0	11.6
			SME			12.0	6.23
			eScS	08 50 50.0	1.1		
			LN	Ms=7.2		18.0	99.0
			LE			18.0	105
HHC	53.7	292	eP	08 41 19.8	1.8		
			PMZ	m_B=6.4		7.0	3.81
			pP	08 41 28.0	4.6		
			PP	08 43 25.0	5.6		
			S	08 48 51.0	1.6		
			SS	08 52 30.0	0.7		
			LN	Ms=7.1		15.0	73.9
			LE			15.0	13.7
TIA	53.7	284	−P	08 41 17.2	−0.7		
			PMZ	m_B=6.4		11.0	5.61
			esP	08 41 28.0	1.8		
			SMN			23.0	86.4
			SME			23.0	61.8
			LN	Ms=7.1		16.0	73.9
			LE			20.0	75.2
BTO	54.7	292	P	08 41 24.5	−1.0		
			PMZ	m_B=6.4		10.0	5.80
			sP	08 41 35.0	1.3		
			PcP	08 42 27.5	0.4		
			iS	08 49 00.0	−4.7		
			SMN	m_B=6.7		10.0	3.00
			SME			10.0	8.90
			sS	08 49 13.0	−0.7		
			ScS	08 51 12.0	1.6		
			SS	08 52 49.0	3.3		
			LN	Ms=7.4		16.0	110
			LE			18.0	138
SSE	54.9	276	+iP	08 41 27.0	0.1		
			PMZ	m_B=6.6		6.0	5.62
			sP	08 41 38.0	2.8		
			PcP	08 42 29.0	1.1		
			PP	08 43 30.0	−0.5		
			PcS	08 46 28.0	1.7		
			S	08 49 02.0	−4.0		
			SMN	m_B=6.6		12.0	7.78
			SME			11.0	4.75
			sS	08 49 17.0	0.6		
			ScS	08 51 12.0	0.1		
			SS	08 52 45.0	−4.0		
			LN	Ms=6.7		16.0	29.0
			LE			14.0	7.24
TIY	55.4	288	−P	08 41 31.0	0.9		
			PMZ	m_B=6.5		9.5	6.62
			PcP	08 42 23.5	−6.1		
			PP	08 43 38.5	4.0		
			S	08 49 15.0	3.2		
			SMN	m_B=6.6		10.0	6.18
			SME			10.0	6.36
			LN	Ms=7.1		34.0	118
			LE			16.0	83.5
NJ2	55.6	279	−P	08 41 32.0	0.1		
			PcP	08 42 31.0	0.4		
			ScP	08 46 31.0	3.0		
			iS	08 49 13.0	−3.5		
			LN	Ms=7.1		14.0	75.2
WHN	59.4	281	P	08 41 58.5	0.1		
			PMZ	m_B=6.5		9.0	6.50
			sP	08 42 09.0	2.3		
			S	08 50 04.0	−0.7		
			SME	m_B=6.4		10.0	4.20
			LE	Ms=6.8		17.0	40.8
XAN	60.0	288	eP	08 42 00.7	−2.0		
			sP	08 42 12.0	1.1		
			PcP	08 42 48.5	0.8		
			PP	08 44 20.0	4.0		
			S	08 50 10.0	−2.4		
			ScS	08 51 42.0	−6.6		
			LN	Ms=7.3		16.0	90.5

			LE			16.0	60.0
QZH	61.0	273	+iP	08 42 12.0	2.5		
			iS	08 50 28.0	1.3		
			LN	Ms=6.9		16.0	21.7
			LE			16.0	40.1
GTA	61.1	298	P	08 42 08.8	−1.5		
			PMZ	m_B=6.4		10.0	4.94
			LN	Ms=7.4		17.5	94.2
			LE			17.0	135
LZH	61.3	293	+iP	08 42 12.0	0.0		
			PMZ	m_B=6.4		9.0	5.03
			PP	08 44 32.0	3.7		
			S	08 50 28.0	−1.8		
			SMN	m_B=6.5		11.0	6.08
			SS	08 54 25.0	−6.6		
			LE	Ms=7.2		15.0	87.8
WMQ	63.8	309	−P	08 42 28.0	−0.6		
			PcP	08 43 05.0	1.7		
			PP	08 44 52.0	2.2		
			S	08 50 57.5	−3.8		
			SKS	08 52 17.0	−0.4		
			SS	08 55 11.4	0.6		
			LN	Ms=7.0		16.0	53.9
CD2	65.2	289	−iP	08 42 37.3	−0.2		
			PMZ	m_B=6.7		9.0	8.32
			iS	08 51 19.0	−0.7		
			SMN	m_B=6.8		12.0	10.9
			ScS	08 52 22.0	−6.0		
			SS	08 55 38.0	5.4		
			LN	Ms=7.3		18.0	113
GZH	65.5	276	P	08 42 40.7	1.3		
			S	08 51 24.0	1.9		
			SS	08 55 44.0	6.9		
			LN	Ms=7.0		18.0	33.7
			LE			18.0	36.6
GYA	66.9	284	P	08 42 48.6	0.2		
			PMZ	m_B=6.6		8.0	6.10
			sP	08 43 00.8	4.3		
			PcP	08 43 19.0	3.0		
			S	08 51 39.0	0.2		
			SMN	m_B=6.8		10.0	6.30
			SME			10.0	7.30
			ScS	08 52 38.0	−3.0		
			LN	Ms=7.3		17.0	71.6
			LE			17.0	61.8
KMI	70.2	286	−iP	08 43 09.0	0.0		
			PMZ	m_B=6.6		8.0	6.30
			PcP	08 43 32.0	2.2		
			PP	08 45 46.0	1.1		
			iS	08 52 18.0	−1.8		
			SMN	m_B=7.1		10.0	9.70
			SME			10.0	12.1
			iScS	08 53 09.0	2.3		
			SS	08 56 49.0	−0.3		
			LN	Ms=7.2		17.0	73.4
QZN	70.7	276	−P	08 43 13.0	1.1		
			PMZ	m_B=6.6		10.0	6.50
			sP	08 43 24.0	3.8		
			PcP	08 43 32.5	0.5		
			iS	08 52 28.5	3.0		
			SMN			14.0	6.10
			SME			10.5	3.70
			SKS	08 53 10.5	1.8		
			ScS	08 53 15.0	4.2		
			LN	Ms=7.0		17.0	26.6
			LE			17.0	33.1
KSH	72.6	314	−iP	08 43 23.0	−0.3		
			sP	08 43 35.0	3.6		
			PP	08 46 06.0	0.2		
			iS	08 52 48.0	0.5		
			SME	m_B=6.7		11.0	7.90
			SKS	08 53 24.0	1.5		
			SS	08 57 29.0	2.0		
			LE	Ms=7.7		16.0	197
LSA	73.1	297	eP	08 43 25.1	−1.5		
			PP	08 46 05.0	−5.0		
			S	08 52 50.0	−1.3		
			SMN			13.0	15.3
			SS	08 57 38.0	3.4		
			LN	Ms=7.2		16.0	25.2
			LE			15.0	52.3

1987 2 27

O=10 46 03.6 ± 0.17s
LAT= 5.47 S ± 1.44km
LONG=148.20 E ± 1.54km
DEPTH= 43 km ± 1.18km
STATIONS USED = 25, STAND DEV= 2.33s

KMI	53.6	307	eP	10 55 24.5	0.7	
BJI	54.0	330	eP	10 55 32.0	5.5	
XAN	54.0	319	eP	10 55 30.0	3.3	
CD2	55.8	313	eP	10 55 38.0	−1.2	
GTA	63.1	319	eP	10 56 29.6	−0.4	
LSA	64.9	306	eP	10 56 41.4	−0.5	
WMQ	73.2	319	eP	10 57 35.0	2.4	

1987 2 27

O=12 34 51.1 ± 0.19s
LAT= 2.70 S ± 2.84km
LONG=126.29 E ± 3.94km

DEPTH = 33 km ± 0.12km
STATIONS USED = 31, STAND DEV = 2.53s

CD2	39.7	329	P	12 42 21.6	−0.9
XAN	40.0	337	+P	12 42 23.7	−1.4
TIY	42.2	344	eP	12 42 42.4	−0.7
BJI	43.5	349	eP	12 42 51.5	−2.3
LZH	43.9	334	−P	12 42 57.0	−0.1
MDJ	47.2	3	+P	12 43 22.0	−1.0
GTA	48.5	333	P	12 43 32.5	−0.5
WMQ	57.8	328	P	12 44 41.0	−1.1
KSH	62.3	318	eP	12 45 18.0	4.7

1987 2 27
O = 21 51 11.6 ± 0.12s
LAT = 6.11 S ± 1.87km
LONG = 112.84 E ± 2.27km
DEPTH = 582 km ± 0.28km
STATIONS USED = 89, STAND DEV = 1.10s
m_B = 5.1 / 1

QZN	25.1	353	−iP	21 55 55.6	1.6	
KMI	32.6	343	+iP	21 57 00.0	2.1	
GYA	32.9	350	−P	21 57 01.6	0.7	
			ScP	22 02 18.0	1.5	
WHN	36.5	2	+P	21 57 31.0	0.9	
CD2	37.8	347	P	21 57 41.2	0.0	
			PMZ		1.0	0.26
			S	22 02 51.0	−1.6	
SSE	37.8	12	+iP	21 57 42.8	1.5	
			ePP	21 59 30.0	2.8	
			eSS	22 06 07.0	4.4	
NJ2	38.4	8	+P	21 57 47.0	1.3	
			ScP	22 02 38.2	1.8	
XAN	40.1	355	+iP	21 58 00.0	0.4	
TIA	42.3	5	+P	21 58 16.0	−1.0	
LZH	42.8	349	+iP	21 58 22.0	0.7	
			PMZ		1.5	0.26
			pP	22 00 05.5	2.1	
			eS	22 04 03.0	−2.6	
TIY	43.6	360	+P	21 58 27.0	−0.3	
			PMZ		1.0	0.060
			pP	22 00 12.5	2.5	
			PP	22 00 23.5	5.2	
			sP	22 01 15.0	1.9	
			S	22 04 10.5	−4.9	
DL2	45.5	10	eP	21 58 41.0	−1.1	
BJI	46.0	4	P	21 58 45.5	−0.4	
			epP	22 00 31.5	1.4	
BTO	46.5	357	+P	21 58 49.5	−0.6	
HHC	46.7	359	P	21 58 51.8	0.3	
GTA	46.9	346	+iP	21 58 52.5	0.0	
			PMZ		1.2	0.070
			PcP	22 00 14.1	1.0	
			pP	22 00 39.4	2.3	
			ScP	22 03 12.0	1.4	
			S	22 05 00.0	−0.9	
			ScS	22 07 40.9	−0.7	
SNY	48.7	11	−iP	21 59 04.4	−1.8	
CN2	51.0	12	+iP	21 59 21.0	−1.8	
			epP	22 01 09.0	−1.1	
MDJ	52.7	15	+iP	21 59 34.5	−0.7	
			PMZ		1.0	0.15
			pP	22 01 24.0	0.3	
			S	22 06 13.5	−6.0	
WMQ	54.6	338	P	21 59 48.7	−0.2	
			PMZ		2.0	0.20
			pP	22 01 39.0	0.4	
			ScP	22 03 43.0	−1.0	
			S	22 06 44.5	−0.5	
			ScS	22 08 35.0	−0.4	
KSH	56.7	326	+P	22 00 03.5	0.3	
			sP	22 02 55.0	0.0	
			S	22 07 13.0	1.4	
			SME		3.0	1.50
			ScS	22 08 51.0	0.7	

1987 2 27
O = 23 34 51.0 ± 0.10s
LAT = 38.57 N ± 1.80km
LONG = 20.52 E ± 1.35km
DEPTH = 7 km ± 0.22km
STATIONS USED = 85, STAND DEV = 1.10s
Ms = 5.8 / 20, m_B = 5.7 / 2

KSH	42.5	71	eP	23 42 52.0	2.5	
			S	23 49 12.0	1.0	
			SMN	m_B = 5.5	6.0	0.50
			LE	Ms = 5.9	11.0	5.70
WMQ	49.6	61	+P	23 43 44.3	−1.2	
			S	23 50 51.5	−0.4	
			LN	Ms = 5.7	22.0	5.02
LSA	57.8	76	−P	23 44 45.0	−1.8	
GTA	59.6	62	P	23 44 58.1	−1.0	
			LE	Ms = 5.3	12.0	0.79
LZH	64.0	63	−iP	23 45 28.5	−0.1	
			PMZ		1.5	0.10
			LN	Ms = 5.8	14.0	2.41
			LE		13.0	0.89
BTO	65.9	56	eP	23 45 41.0	0.1	
			eS	23 54 23.0	−4.7	
			LN	Ms = 5.9	14.0	2.70
			LE		14.0	2.50

CD2	66.6	68	P	23 45 44.2	−1.0		
			eS	23 54 34.0	−1.9		
			LN	Ms=5.7		30.0	4.04
HHC	66.8	56	−P	23 45 47.0	0.5		
XAN	68.7	63	eP	23 45 57.0	−0.9		
KMI	69.0	74	+P	23 46 02.0	1.7		
			eS	23 55 06.0	1.3		
			LN	Ms=5.4		16.0	1.10
TIY	69.1	58	+P	23 46 00.7	0.2		
			eS	23 55 01.0	−4.1		
			SMN			16.0	0.67
			LN	Ms=6.0		14.0	3.06
			LE			14.0	2.10
BJI	70.2	54	eP	23 46 06.5	−0.9		
			eS	23 55 12.0	−6.5		
			LN	Ms=6.1		14.0	3.96
			LE			14.0	2.44
GYA	71.2	71	P	23 46 12.4	−1.2		
TIA	73.0	57	eP	23 46 24.9	0.7		
			LN	Ms=5.6		37.0	2.92
			LE			37.0	2.00
CN2	73.6	47	+P	23 46 27.0	−0.8		
			LN	Ms=6.3		14.0	6.30
			LE			14.0	3.70
SNY	73.7	49	+P	23 46 27.6	−0.8		
WHN	74.4	63	eP	23 46 34.5	2.1		
MDJ	75.4	44	eP	23 46 35.5	−2.8		
NJ2	76.6	60	+P	23 46 47.4	2.4		
SSE	78.8	59	eP	23 46 57.5	0.6		
			eS	23 56 50.0	−4.3		
			esS	23 56 59.0	−3.5		
			SKS	23 57 08.0	1.5		
			LN	Ms=5.8		14.0	1.38
			LE			14.0	1.45

1987 2 28
O=04 00 08.2 ± 0.16s
LAT= 0.44 N ± 2.15km
LONG=126.44 E ± 2.47km
DEPTH= 32 km ± 0.33km
STATIONS USED = 39, STAND DEV= 1.90s

WHN	32.1	340	eP	04 06 40.0	5.3		
CD2	37.2	327	eP	04 07 20.1	1.6		
XAN	37.2	336	eP	04 07 20.0	0.9		
BJI	40.5	348	eP	04 07 47.0	0.7		
LZH	41.2	332	eP	04 07 52.0	−0.3		
SNY	41.3	357	eP	04 07 52.0	−0.6		
CN2	43.2	359	eP	04 08 09.0	0.8		
MDJ	44.1	3	eP	04 08 14.5	−1.0		
LSA	44.4	314	eP	04 08 15.5	−3.4		
GTA	45.8	331	eP	04 08 31.2	1.9		
WMQ	55.3	327	P	04 09 40.8	−0.5		
KSH	60.2	316	P	04 10 16.0	0.1		

1987 2 28
O=04 15 06.3 ± 0.12s
LAT= 9.71 S ± 1.92km
LONG=118.36 E ± 1.97km
DEPTH= 58 km ± 0.10km
STATIONS USED = 58, STAND DEV= 1.11s

GYA	37.7	343	P	04 22 19.4	1.0		
			PcP	04 24 36.6	2.5		
KMI	37.8	337	+P	04 22 21.5	2.0		
WHN	40.2	355	eP	04 22 40.6	1.6		
NJ2	41.5	1	+P	04 22 52.0	2.1		
CD2	42.7	341	P	04 23 00.2	0.1		
XAN	44.4	349	−P	04 23 13.0	−0.6		
LSA	47.1	327	eP	04 23 34.4	−1.2		
TIY	47.5	354	P	04 23 37.7	−0.3		
			PMZ			0.8	0.020
			S	04 30 30.0	4.0		
LZH	47.6	344	+P	04 23 39.0	0.4		
BJI	49.5	358	eP	04 23 53.0	−0.7		
BTO	50.6	352	eP	04 24 01.2	−1.1		
SNY	51.5	5	+iP	04 24 08.0	−0.6		
GTA	51.8	342	−iP	04 24 11.0	−0.2		
CN2	53.6	6	eP	04 24 23.0	−1.6		
MDJ	55.0	10	−iP	04 24 33.8	−0.9		
WMQ	60.1	335	eP	04 25 09.4	−1.2		
KSH	62.8	324	eP	04 25 29.0	0.5		

1987 2 28
O=05 00 01.0 ± 0.08s
LAT=29.94 N ± 0.76km
LONG=101.82 E ± 0.81km
DEPTH= 14 km ± 0.13km
STATIONS USED = 11, STAND DEV= 2.21s
M_L=3.1/ 6,

CD2	1.9	60	ePg	05 00 32.8	−2.4		
			Sg	05 00 57.4	−4.2		
			SMN	M_L=3.2		0.7	0.27
			SME			0.7	0.18
GYA	5.5	128	ePn	05 01 24.4	1.3		
			SMN	M_L=3.2		1.0	0.020
XAN	7.3	54	ePg	05 02 11.5	1.8		

1987 2 28
O=06 51 58.8 ± 0.08s
LAT=37.03 N ± 2.12km
LONG=141.62 E ± 1.85km

DEPTH = 20 km ± 0.75km
STATIONS USED = 94, STAND DEV = 1.74s
Ms = 5.2 / 38, m_B = 5.4 / 3

MDJ	11.8	314	eP	06 54 50.0	0.0		
			pP	06 54 53.0	−2.6		
			PP	06 55 00.0	0.6		
			S	06 57 05.0	2.6		
			SS	06 57 22.0	5.5		
CN2	14.0	304	+P	06 55 20.0	0.7		
			sP	06 55 27.0	−1.9		
			eS	06 57 54.0	−1.8		
			SS	06 58 17.0	5.6		
			LE	Ms = 4.9		14.0	4.40
SNY	14.7	295	+P	06 55 27.5	−0.9		
			sP	06 55 39.5	1.4		
			eS	06 58 10.0	−2.2		
			LN	Ms = 5.2		13.0	3.23
			LE			16.0	8.61
DL2	15.9	283	P	06 55 48.0	4.8		
			LN	Ms = 5.1		14.0	3.60
			LE			18.0	5.40
SSE	17.9	257	eP	06 56 09.0	0.0		
			PMZ			1.8	0.18
			epP	06 56 13.0	−1.9		
			sP	06 56 17.0	−1.7		
			eS	06 59 27.0	1.1		
			sS	06 59 33.0	−2.4		
			SS	06 59 52.0	4.1		
			LN	Ms = 5.3		21.0	6.69
			LE			20.0	6.92
NJ2	19.4	262	eP	06 56 24.0	−2.6		
			LE	Ms = 5.0		14.0	3.10
TIA	19.7	275	−P	06 56 28.3	−1.5		
			pP	06 56 32.5	−3.6		
			sS	07 00 21.0	6.4		
			LN	Ms = 5.2		14.0	3.69
			LE			15.0	4.26
BJI	20.1	286	eP	06 56 31.0	−3.6		
			eS	07 00 10.0	−4.8		
			LN	Ms = 4.8		14.0	2.11
QZH	23.1	245	eP	06 57 06.0	1.6		
			S	07 01 15.0	5.5		
			LN	Ms = 5.0		15.0	1.75
			LE			14.0	1.57
TIY	23.2	281	+P	06 57 04.9	−0.7		
			S	07 01 08.5	−2.9		
			sS	07 01 18.5	−4.8		
			LE	Ms = 5.2		14.0	4.11
WHN	23.5	262	eP	06 57 09.5	0.6		
			S	07 01 20.0	2.4		
			SME			14.0	1.30
			LE	Ms = 5.1		16.0	3.10
HHC	23.6	289	eP	06 57 10.0	−0.1		
			pP	06 57 16.0	−0.8		
			SME	m_B = 5.3		9 0	1.01
			LN	Ms = 5.0		12.0	2.02
BTO	24.8	288	P	06 57 21.0	−0.6		
			epP	06 57 26.0	−2.2		
			ePP	06 57 57.0	−0.6		
			eS	07 01 38.5	−2.3		
			LN	Ms = 5.2		13.0	3.10
			LE			14.0	1.20
XAN	26.7	273	−P	06 57 38.4	−0.9		
			eS	07 02 09.0	−3.1		
			LN	Ms = 5.0		13.0	0.70
			LE			14.0	1.82
GZH	28.0	248	eP	06 57 51.5	0.4		
			eS	07 02 36.0	2.9		
LZH	30.2	280	−iP	06 58 11.3	0.2		
			PMZ			2.0	0.17
			sP	06 58 21.0	−0.2		
			PP	06 59 07.0	−2.2		
			S	07 03 10.0	2.4		
			sS	07 03 27.0	6.9		
			LN	Ms = 5.5		15.0	1.90
			LE			15.0	4.52
GYA	31.4	261	−P	06 58 20.8	−0.5		
			pP	06 58 26.4	−1.6		
			sP	06 58 30.0	−1.3		
			S	07 03 24.0	−1.7		
			LN	Ms = 5.4		16.0	2.50
			LE			16.0	3.10
CD2	31.8	270	eP	06 58 24.4	−0.8		
			eS	07 03 27.0	−6.8		
			LN	Ms = 5.6		14.0	4.49
			LE			15.0	3.69
GTA	32.7	287	eP	06 58 32.2	−0.8		
			PcP	07 01 18.6	1.0		
			ScP	07 05 00.7	1.4		
			eS	07 03 46.0	−1.9		
			PcS	07 05 04.2	2.5		
			ScS	07 08 58.2	0.6		
			LN	Ms = 5.0		14.5	1.33
			LE			25.0	1.78
QZN	33.1	246	eP	06 58 38.0	2.1		
			eS	07 03 55.5	2.5		
			LE	Ms = 5.0		14.0	1.30
KMI	35.1	261	+P	06 58 54.0	0.2		
			sP	06 59 03.0	−0.8		
			eS	07 04 31.0	5.8		

			LE	Ms=5.1		15.0	1.70
WMQ	41.0	297	+iP	06 59 43.5	0.7		
			PMZ			2.0	0.50
			PcP	07 01 36.0	−6.5		
			S	07 05 57.0	4.1		
			ScS	07 09 45.0	1.5		
LSA	42.4	275	+P	06 59 55.0	0.5		
KSH	50.6	294	eP	07 01 01.0	2.0		
			sP	07 01 12.0	3.0		
			ePP	07 02 57.0	2.3		
			LN	Ms=5.6		14.0	2.60

1987 2 28

O=07 32 43.3 ± 0.13s
LAT=37.82 N ± 2.06km
LONG=141.12 E ± 1.77km
DEPTH=102 km ± 1.74km
STATIONS USED = 63, STAND DEV= 2.20s

MDJ	11.0	312	eP	07 35 23.5	4.4		
DL2	15.3	280	eP	07 36 18.0	2.6		
SSE	17.7	254	eP	07 36 45.0	−0.3		
			PMZ			1.0	0.060
NJ2	19.1	259	eP	07 37 00.0	−1.1		
TIA	19.2	273	+P	07 37 01.1	−1.0		
BJI	19.5	284	eP	07 37 04.5	−0.7		
TIY	22.6	279	eP	07 37 35.5	−1.3		
			LE			14.0	0.40
WHN	23.3	260	eP	07 37 44.0	1.4		
XAN	26.3	272	eP	07 38 11.4	0.1		
GZH	28.0	246	+P	07 38 29.0	2.4		
LZH	29.7	278	+iP	07 38 43.0	0.5		
GYA	31.1	259	−P	07 38 54.8	−0.2		
CD2	31.5	269	eP	07 38 56.8	−0.8		
WMQ	40.3	296	P	07 40 14.0	1.6		

1987 2 28

O=16 45 50.0 ± 0.08s
LAT=38.09 N ± 1.15km
LONG= 69.68 E ± 1.25km
DEPTH= 22 km ± 0.27km
STATIONS USED = 24, STAND DEV= 1.95s

KSH	5.1	73	ePn	16 47 10.5	4.5		
			eSn	16 48 11.0	4.9		
WMQ	14.8	62	P	16 49 20.0	0.2		
			SS	16 52 18.0	−2.1		
GTA	23.5	77	P	16 51 02.0	2.3		
XAN	31.8	85	eP	16 52 15.0	−0.9		
GYA	33.2	99	P	16 52 28.0	0.5		

1987 2 28

O=17 23 03.1 ± 0.13s
LAT=39.83 N ± 1.66km
LONG=106.35 E ± 1.05km
DEPTH= 4 km ± 0.20km
STATIONS USED = 29, STAND DEV= 2.80s
Ms=3.8/ 2, M_L=4.3/15,

BTO	2.9	74	Pn	17 23 50.3	−0.3		
			Pg	17 23 54.5	0.0		
			Sn	17 24 26.5	−1.4		
			Sg	17 24 32.0	−2.3		
			SMN	M_L=3.6		0.3	0.30
			SME			0.3	0.20
HHC	4.1	74	Pn	17 24 08.0	0.9		
			Pg	17 24 17.2	1.5		
			Sg	17 25 10.0	−2.0		
			SMN	M_L=4.3		0.6	0.69
			SME			0.6	0.55
LZH	4.2	209	Pn	17 24 11.5	2.8		
			Pg	17 24 23.5	5.8		
			Sg	17 25 17.5	1.9		
			SMN	M_L=4.5		1.0	0.76
			SME			1.0	0.82
GTA	5.1	267	Pn	17 24 21.5	1.4		
			Pg	17 24 36.0	3.6		
			Sn	17 25 20.0	−1.0		
			Sg	17 25 41.0	−0.6		
			SMN			3.0	0.87
			LN	Ms=3.7		5.0	0.60
TIY	5.2	112	Pn	17 24 21.9	−0.2		
			Pg	17 24 37.9	2.9		
			Sn	17 25 21.4	−3.3		
			Sg	17 25 41.0	−5.2		
			SMN	M_L=4.2		0.8	0.29
			SME			0.7	0.24
XAN	6.1	160	Pn	17 24 38.0	3.2		
			Sn	17 25 43.9	−3.9		
			Sg	17 26 10.0	−5.4		
			SMN	M_L=4.3		1.0	0.22
			SME			1.0	0.20
BJI	7.6	85	ePg	17 25 20.0	3.4		
			SMN	M_L=3.8		1.0	0.060
			SME			1.0	0.010
			LN	Ms=3.8		8.0	0.53
CD2	9.2	194	eP	17 25 18.9	−0.1		
WHN	11.3	142	eP	17 25 44.0	−5.1		
GYA	13.3	179	P	17 26 19.8	3.6		
WMQ	14.5	292	+iP	17 26 29.5	−1.3		
			S	17 29 09.0	−3.0		
			LN			1.5	0.060