Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
1987 10 1							
O=01 28 27.6			**±**	**0.19s**			
LAT=16.10 N			**±**	**1.78km**			
LONG=147.22 E			**±**	**2.33km**			
DEPTH= 33 km			**±**	**0.31km**			
STATIONS USED = 23, STAND DEV= 1.31s							
SSE	28.0	307	cP	01 34 16.7	−1.7		
WHN	33.3	301	P	01 35 05.5	0.8		
XAN	38.7	305	P	01 35 51.3	0.3		
GYA	39.0	292	P	01 35 54.0	0.6		
CD2	42.2	298	P	01 36 19.8	0.0		
GTA	47.3	309	cP	01 36 56.6	−3.9		
WMQ	57.1	312	P	01 38 14.5	0.6		
1987 10 1							
O=03 16 27.8			**±**	**0.07s**			
LAT=49.64 N			**±**	**1.93km**			
LONG=156.08 E			**±**	**1.28km**			
DEPTH= 49 km			**±**	**0.45km**			
STATIONS USED = 48, STAND DEV= 1.24s							
Ms=4.3/ 2,							
MDJ	18.7	264	cP	03 20 46.0	1.7		
			LZ	Ms=4.4	20.0		1.20
CN2	21.7	266	cP	03 21 14.0	−2.7		
			cS	03 25 04.0	−4.6		
			LZ	Ms=4.3	20.0		0.70
SNY	23.8	263	cP	03 21 41.0	3.3		
BJI	29.6	266	cP	03 22 30.0	−0.5		
SSE	32.0	248	cP	03 22 53.0	0.9		
			pP	03 23 04.5	0.5		
NJ2	32.8	252	cP	03 22 58.5	−0.2		
TIY	33.3	266	cP	03 23 02.4	−0.9		
WHN	36.6	254	−iP	03 23 31.0	−0.5		
GTA	40.5	277	cP	03 24 03.2	−1.1		
CD2	43.1	264	P	03 24 25.4	−0.2		
GYA	44.3	257	P	03 24 35.2	0.1		
WMQ	45.8	290	P	03 24 47.1	0.3		
QZN	47.8	247	cP	03 25 04.2	1.4		
1987 10 1							
O=07 29 25.1			**±**	**0.11s**			
LAT=11.31 S			**±**	**1.69km**			
LONG=166.18 E			**±**	**1.68km**			
DEPTH= 78 km			**±**	**0.44km**			
STATIONS USED = 78, STAND DEV= 1.01s							
Ms=5.4/23, m_B=5.7/ 9							
QZH	58.7	308	+P	07 39 18.0	0.2		
			pP	07 39 35.0	−2.2		
			S	07 47 18.0	3.8		
			sS	07 47 47.0	−1.8		
SSE	60.3	316	eP	07 39 27.0	−1.8		
			PMZ			0.7	0.030
			pP	07 39 48.0	−0.2		
			eS	07 47 34.0	−1.9		
			sS	07 48 10.0	0.5		
			SS	07 51 36.0	1.5		
			LZ	Ms=5.4		22.0	1.94
GZH	62.0	304	+P	07 39 40.0	0.1		
NJ2	62.5	315	−P	07 39 44.0	0.6		
QZN	63.2	298	+P	07 39 49.0	1.1		
			pP	07 40 08.0	0.5		
			cPP	07 42 03.0	−5.3		
			S	07 48 15.0	4.3		
			sS	07 48 48.0	2.4		
MDJ	64.8	332	eP	07 39 58.0	−0.3		
			sP	07 40 26.0	−1.0		
			eS	07 48 28.0	−3.7		
			LZ	Ms=5.4		33.0	2.70
WHN	64.9	311	P	07 39 58.0	−1.0		
			pP	07 40 20.0	1.4		
			LZ	Ms=5.5		28.0	2.80
SNY	65.8	326	+iP	07 40 04.0	−0.8		
			eS	07 48 43.0	−1.0		
			LN	Ms=5.3		30.0	1.32
			LE			28.0	1.23
			LZ	Ms=5.3		28.0	1.67
TIA	66.1	318	eP	07 40 05.9	−0.9		
			esP	07 40 33.5	−2.0		
			eS	07 48 52.0	4.2		
			LE	Ms=5.5		21.0	2.23
CN2	66.2	329	+P	07 40 06.5	−0.8		
			PMZ	m_B=5.7		5.0	0.50
			epP	07 40 26.0	−1.0		
			eS	07 48 51.0	2.1		
			LZ	Ms=5.4		22.0	1.50
GYA	68.9	304	P	07 40 25.6	1.0		
			pP	07 40 43.0	−1.2		
BJI	68.9	321	+P	07 40 24.0	−0.6		
			eS	07 49 24.0	1.8		
			LN	Ms=5.4		28.0	1.41
			LE			28.0	1.07
			LZ	Ms=5.4		29.0	2.10
TIY	70.0	317	+P	07 40 31.5	0.1		

			LE	Ms=5.3		18.0	1.06
			LZ	Ms=5.6		25.0	2.76
XAN	70.6	312	+P	07 40 34.5	−0.3		
			PMZ	m_B=5.8		5.0	0.67
			pP	07 40 54.0	−0.7		
			S	07 49 40.0	−0.2		
KMI	71.6	301	+P	07 40 42.0	0.9		
			PMZ	m_B=6.0		4.0	0.96
			pP	07 41 01.0	0.3		
			SME	m_B=5.7		7.0	0.58
			LZ	Ms=5.4		22.0	1.30
HHC	72.3	320	+P	07 40 46.0	1.0		
			cS	07 50 08.0	6.6		
			LE	Ms=5.5		28.0	2.50
CD2	73.1	307	P	07 40 48.2	−1.4		
BTO	73.2	319	+P	07 40 50.5	0.4		
			pP	07 41 09.0	−0.9		
			cS	07 50 13.0	2.0		
			LN	Ms=5.5		20.0	1.10
			LE			20.0	1.00
			LZ	Ms=5.5		20.0	1.70
LZH	75.2	312	+iP	07 41 03.0	0.8		
			PMZ	m_B=5.8		5.0	0.78
			cS	07 50 36.0	1.7		
			LE	Ms=5.4		26.0	1.66
GTA	79.5	314	+iP	07 41 27.1	1.0		
			PMZ	m_B=5.7		4.0	0.49
			SMN	m_B=5.5		6.0	0.21
			LE	Ms=5.3		28.0	1.18
			LZ	Ms=5.4		28.0	1.48
LSA	82.9	302	P	07 41 43.5	−0.2		
			PMZ	m_B=5.8		5.0	0.69
WMQ	89.6	315	+P	07 42 16.5	0.3		
			PMZ			2.0	0.11
			pP	07 42 36.5	−0.1		
			sP	07 42 41.5	−3.8		
			LN	Ms=5.4		26.0	1.32
KSH	97.2	309	+P	07 42 53.0	1.6		
			cPP	07 46 50.0	0.1		
			cS	07 54 10.0	4.3		
			sS	07 54 48.0	6.8		

1987 10 1
O=12 25 59.0 ± 0.13s
LAT=38.05 N ± 1.34km
LONG=106.27 E ± 1.06km
DEPTH= 9 km ± 0.39km
STATIONS USED = 11, STAND DEV= 3.64s
M_L=3.2/ 8,

LZH	2.8	225	cPn	12 26 46.0	2.0		
			Sg	12 27 21.0	−4.5		
			SMN	M_L=3.1		1.5	0.10
			SME			1.0	0.080
BTO	3.9	48	cPg	12 27 04.8	−2.5		
			Sg	12 27 54.7	−5.2		
			SMN	M_L=2.8		0.6	0.020
			SME			0.6	0.020
XAN	4.5	151	Pg	12 27 19.2	−0.2		
TIY	4.9	92	Pg	12 27 24.4	−1.1		
			SMN	M_L=3.3		0.6	0.040
			SME			0.6	0.030
GTA	5.2	287	cPg	12 27 30.0	−1.5		
			Sg	12 28 39.5	−3.3		
			SMN	M_L=2.8		0.6	0.010
			SME			0.6	0.010

1987 10 1
O=14 42 17.9 ± 0.12s
LAT=33.94 N ± 1.83km
LONG=118.30 W ± 1.92km
DEPTH= 19 km ± 0.71km
STATIONS USED = 54, STAND DEV= 1.37s
Ms=5.8/28, m_B=6.1/ 9

MDJ	80.5	318	+P	14 54 30.2	−0.9		
			sP	14 54 41.0	0.0		
			PP	14 57 40.0	5.0		
			LZ	Ms=5.7		35.0	3.90
CN2	83.3	319	+iP	14 54 44.0	−1.7		
			PMZ	m_B=6.0		6.0	1.00
			pP	14 54 50.5	−2.1		
			PP	14 57 57.0	−1.1		
			cS	15 05 00.0	−4.6		
			LZ	Ms=5.8		22.0	2.70
SNY	85.6	319	+P	14 54 57.8	0.4		
			PMZ	m_B=6.1		10.0	1.80
			pP	14 55 05.0	0.6		
			PP	14 58 21.0	4.3		
			S	15 05 25.0	−1.0		
			SMN			16.0	1.63
			LN	Ms=5.8		24.0	2.05
			LE			24.0	2.26
			LZ	Ms=5.8		23.0	2.95
DL2	88.7	318	cP	14 55 14.0	1.6		
			cS	15 05 52.0	−5.0		
			LE	Ms=5.8		15.0	1.63
BJI	90.8	321	cP	14 55 22.0	−0.5		
			PMZ	m_B=5.9		12.0	0.90
			PP	14 58 59.0	0.3		
			cSKS	15 05 50.0	−0.3		
			cS	15 06 16.0	−0.4		

			LN	Ms=5.6	40.0	2.38
			LE		40.0	1.74
			LZ	Ms=5.7	28.0	2.47
HHC	92.5	325	+P	14 55 31.0	0.5	
TIA	93.1	318	eP	14 55 33.2	0.2	
			LE	Ms=5.8	21.0	2.23
BTO	93.5	325	eP	14 55 35.0	0.3	
			epP	14 55 41.0	−0.5	
			ePP	14 59 22.5	1.8	
			eS	15 06 40.0	0.1	
			LN	Ms=6.0	16.0	2.40
			LE		16.0	1.30
			LZ	Ms=6.1	16.0	3.20
SSE	94.4	312	+P	14 55 39.0	0.3	
			PMZ	m_B=6.2	10.0	0.95
			PP	14 59 22.0	−5.7	
			eSKS	15 06 07.0	−3.2	
			SS	15 13 14.0	2.5	
			LZ	Ms=5.8	20.0	2.34
TIY	94.5	322	P	14 55 40.0	0.6	
			PMZ	m_B=6.2	10.0	1.01
			LN	Ms=5.8	15.0	1.20
			LE		14.0	1.00
NJ2	95.1	314	eP	14 55 40.0	−2.1	
			LN	Ms=5.6	14.0	1.00
WHN	98.9	316	P	14 56 00.0	1.0	
			SKS	15 06 30.0	−3.9	
			LZ	Ms=5.6	28.0	1.70
GTA	98.9	331	eP	14 56 01.7	2.2	
			PP	15 00 00.0	−2.4	
			eS	15 07 27.5	1.3	
			LN	Ms=5.7	13.0	0.94
			LZ	Ms=5.6	16.0	1.05
WMQ	99.1	341	P	14 56 00.5	0.4	
			PP	15 00 04.0	0.6	
			PPMZ		20.0	3.34
			SKS	15 06 36.0	1.1	
			LN	Ms=5.9	20.0	2.61
XAN	99.2	322	eP	14 56 00.5	0.0	
			PP	15 00 08.5	4.4	
			sS	15 07 41.0	1.6	
			LE	Ms=5.9	18.0	2.01
QZH	100.3	309	eP	14 56 05.0	−0.7	
			eS	15 07 37.0	−0.5	
			LN	Ms=5.7	28.0	1.19
			LE		18.0	1.23

1987 10 1

O=15 07 45.0 ± 0.10s

LAT= 5.29 N ± 1.49km

LONG=126.25 E ± 2.63km

DEPTH= 96 km ± 0.72km

STATIONS USED = 50, STAND DEV= 1.67s

QZN	21.0	312	eP	15 12 26.2	3.1	
SSE	26.1	350	eP	15 13 10.7	−1.3	
WHN	27.5	337	eP	15 13 28.2	3.4	
KMI	30.0	314	eP	15 13 47.0	0.0	
TIA	31.9	346	eP	15 14 06.4	2.6	
XAN	32.8	333	eP	15 14 09.6	−2.2	
CD2	33.1	323	eP	15 14 12.7	−1.7	
BJI	35.8	347	eP	15 14 36.0	−1.0	
SNY	36.5	357	+P	15 14 42.9	0.1	
MDJ	39.3	4	P	15 15 06.8	0.5	
GTA	41.5	329	P	15 15 23.9	−1.1	
			PcP	15 17 21.2	0.5	
WMQ	51.2	325	eP	15 16 39.0	−2.1	

1987 10 2

O=07 38 27.0 ± 0.07s

LAT=27.37 N ± 0.99km

LONG=140.04 E ± 1.22km

DEPTH=464 km ± 0.23km

STATIONS USED =102, STAND DEV= 0.93s

m_B=5.5 / 41

SSE	16.9	287	P	07 41 57.0	−0.8		
			PMZ			1.0	0.040
			sP	07 43 46.0	−3.9		
			S	07 44 48.0	0.0		
			SME	m_B=5.0		8.0	2.84
			PcP	07 46 22.0	3.4		
			ScP	07 49 09.8	1.1		
NJ2	19.0	289	−P	07 42 18.6	0.0		
			iS	07 45 27.0	1.3		
			SMN	m_B=5.6		8.0	5.60
			SME			8.5	7.60
			ScP	07 49 14.0	0.9		
MDJ	19.2	337	−P	07 42 22.2	2.0		
			PMZ	m_B=6.0		5.0	2.30
			sP	07 44 17.0	−2.5		
			iS	07 45 30.0	1.4		
DL2	19.2	311	−iP	07 42 21.0	0.3		
			PMZ	m_B=5.9		5.0	1.90
			sP	07 44 22.0	1.8		
			iS	07 45 29.0	−0.5		
QZH	19.4	268	+iP	07 42 23.0	0.3		
			PMZ			2.0	1.06
			sP	07 44 18.0	−4.8		
			S	07 45 30.0	−2.3		
			SME	m_B=5.4		12.0	8.31
SNY	19.7	321	−iP	07 42 26.5	0.6		

			PMZ	$m_B = 6.1$	4.5	2.66
			sP	07 44 26.0	−1.1		
			S	07 45 33.0	−5.1		
			SMN		18.0	7.70
			SME		16.0	6.71
			ScS	07 52 57.7	1.2		
CN2	20.2	328	−P	07 42 30.4	0.2		
			PMZ	$m_B = 5.8$	4.0	1.20
			isP	07 44 35.0	2.3		
			eS	07 45 46.0	−0.4		
			SMN	$m_B = 5.5$	7.0	5.30
			PcP	07 46 23.8	−0.6		
			ScP	07 49 16.0	0.1		
			ScS	07 52 58.0	−0.1		
TIA	21.3	300	−P	07 42 41.0	−0.1		
			esP	07 44 44.5	−2.4		
			SMN	$m_B = 5.7$	7.0	5.10
			SME		6.5	6.43
			ScP	07 49 19.6	0.9		
			ScS	07 53 03.2	1.0		
WHN	22.7	284	−P	07 42 53.5	0.1		
			sP	07 45 00.0	−2.2		
			iS	07 46 28.0	0.2		
			SMN	$m_B = 5.6$	6.0	3.10
			SME		5.0	3.10
BJI	23.5	309	eP	07 42 59.0	−1.4		
			sP	07 45 07.0	−3.1		
			PcP	07 46 32.0	1.0		
			eS	07 46 38.0	−2.3		
			SMN	$m_B = 5.1$	8.0	1.06
			SME		7.0	1.60
			ScP	07 49 25.0	0.9		
			ScS	07 53 11.0	0.8		
GZH	24.5	266	+iP	07 43 10.5	0.7		
			sP	07 45 20.0	−0.6		
			eS	07 46 56.0	−1.2		
TIY	25.4	301	−iP	07 43 18.0	0.2		
			sP	07 45 29.0	−0.2		
			S	07 47 08.0	−2.3		
			SMN	$m_B = 5.1$	8.0	0.95
			SME		14.0	2.36
			ScP	07 49 35.0	5.6		
HHC	27.0	307	−iP	07 43 32.0	−0.4		
			sP	07 45 43.5	−1.4		
			S	07 47 34.0	−2.1		
XAN	27.5	292	−iP	07 43 35.3	−1.3		
			PP	07 44 56.5	1.7		
			sP	07 45 45.5	−4.1		
			PcP	07 46 39.5	−0.8		
			SMN	$m_B = 5.2$	7.0	1.07
			SME			10.0	1.51
			ScS	07 53 28.0	0.4		
BTO	28.0	306	−iP	07 43 41.0	−0.3		
			sP	07 45 56.5	2.0		
QZN	28.9	260	P	07 43 50.0	1.1		
			sP	07 46 00.0	−2.6		
			S	07 48 08.0	2.1		
			SMN	$m_B = 5.3$		7.5	0.80
			SME			9.0	2.10
			sS	07 50 33.0	−5.2		
GYA	29.7	276	−P	07 43 56.0	−0.1		
			pP	07 45 17.0	−1.1		
			sP	07 46 08.0	−2.1		
			PcP	07 46 47.0	1.0		
			S	07 48 16.0	−2.5		
			SMN	$m_B = 5.6$		5.0	1.20
			SME			5.0	1.70
			ScP	07 49 45.0	2.3		
			SS	07 50 50.0	1.5		
CD2	31.8	285	P	07 44 13.5	−0.3		
			PMZ			0.6	0.17
			PP	07 45 38.0	−5.4		
			S	07 48 47.5	−3.1		
LZH	31.8	295	−P	07 44 14.5	0.2		
			PMZ			2.0	0.34
			SME	$m_B = 5.1$		11.0	1.27
KMI	33.5	275	−P	07 44 28.5	0.6		
			pP	07 45 54.5	3.5		
			sP	07 46 43.0	−0.3		
			SME	$m_B = 5.3$		7.0	1.19
GTA	35.4	300	−iP	07 44 43.6	−0.6		
			PMZ	$m_B = 5.4$		3.5	0.50
			PcP	07 47 02.1	0.3		
			iS	07 49 42.0	−4.8		
			SMN	$m_B = 5.3$		5.0	0.77
			SME			14.0	1.18
			ScP	07 50 03.7	1.4		
			SS	07 52 35.0	−0.8		
			ScS	07 54 06.0	−1.5		
LSA	42.8	285	P	07 45 44.3	−0.2		
			SME	$m_B = 5.7$		6.0	1.14
WMQ	44.9	306	−iP	07 46 00.5	−0.1		
			PMZ			1.5	0.47
			S	07 52 03.0	−0.2		
			SME	$m_B = 6.0$		5.0	1.52
			ScS	07 55 06.0	1.8		
KSH	53.8	300	−iP	07 47 08.0	0.5		
			PcP	07 48 07.0	1.4		
			PP	07 49 19.0	3.0		
			sP	07 49 28.0	−1.0		

	iS	07 54 10.0	3.3			
	ScS	07 56 02.0	−2.9			

1987 10 2
O = 17 18 49.2 ± 0.34s
LAT = 44.93 N ± 1.64km
LONG = 115.98 E ± 2.80km
DEPTH = 10 km
STATIONS USED = 6, STAND DEV = 3.71s
M_L = 3.0 / 6,

1987 10 2
O = 20 27 54.9 ± 0.11s
LAT = 26.96 N ± 1.02km
LONG = 102.07 E ± 0.94km
DEPTH = 32 km ± 0.47km
STATIONS USED = 20, STAND DEV = 2.60s
M_L = 3.8 / 10,

KMI	1.9	162	cPn	20 28 27.0	0.7		
			Pg	20 28 29.5	0.2		
			Sg	20 28 53.5	−2.4		
			SMN	M_L = 3.8		1.5	0.77
			SME			1.5	0.94
			LE			5.0	1.37
GYA	4.1	96	Pn	20 29 00.2	3.7		
			Sg	20 30 06.8	2.0		
			SMN	M_L = 3.3		1.0	0.070
			SME			1.0	0.050
CD2	4.2	20	Pg	20 29 14.4	5.0		
			Sg	20 30 08.0	1.1		
			SMN	M_L = 4.0		0.8	0.19
			SME			1.0	0.35
XAN	9.2	38	cP	20 30 05.9	−2.7		
WHN	11.3	69	cP	20 30 36.5	−1.6		

1987 10 2
O = 22 14 46.2 ± 0.35s
LAT = 8.04 S ± 2.88km
LONG = 77.44 W ± 4.60km
DEPTH = 7 km ± 2.32km
STATIONS USED = 37, STAND DEV = 3.00s

WMQ	142.1	18	cPKP	22 34 24.0	3.7
BJI	145.9	341	cPKP	22 34 24.5	−2.3
HHC	146.4	348	cPKP	22 34 26.3	−1.5
BTO	146.9	350	cPKP	22 34 29.0	0.3
GTA	148.7	4	cPKP	22 34 30.6	−1.0
TIA	149.0	337	cPKP	22 34 29.0	−2.9
TIY	149.1	345	cPKP	22 34 34.0	1.7
SSE	151.2	325	PKP	22 34 40.0	4.7
NJ2	151.7	330	cPKP	22 34 39.0	2.9
XAN	153.5	348	cPKP	22 34 38.5	−0.2
WHN	155.0	335	cPKP	22 34 42.5	1.8

1987 10 2
O = 22 27 55.3 ± 0.48s
LAT = 8.14 S ± 3.34km
LONG = 77.79 W ± 5.17km
DEPTH = 8 km ± 3.10km
STATIONS USED = 62, STAND DEV = 2.82s
Ms = 5.6 / 4,

MDJ	136.6	331	cPKP	22 47 19.0	−0.2		
			LZ	Ms = 6.2		22.0	3.10
CN2	139.1	334	cPKP	22 47 22.0	−1.9		
KSH	141.0	33	cPKP	22 47 26.0	−1.4		
WMQ	142.3	17	PKP	22 47 30.0	0.4		
DL2	144.7	333	cPKP	22 47 31.1	−2.6		
BJI	145.9	341	PKP	22 47 34.0	−1.7		
HHC	146.4	347	−PKP	22 47 35.4	−1.3		
BTO	146.9	349	PKP	22 47 39.1	1.4		
GTA	148.8	4	PKP	22 47 40.0	−0.7		
			LE	Ms = 5.7		46.0	2.11
			LZ	Ms = 5.4		30.0	0.70
TIA	148.9	336	+PKP	22 47 40.5	−0.2		
TIY	149.1	344	PKP	22 47 44.5	3.4		
NJ2	151.6	329	+PKP	22 47 49.8	4.9		
LZH	152.1	357	ePKP	22 47 50.0	4.2		
XAN	153.5	347	ePKP	22 47 47.5	−0.1		
WHN	155.0	335	PKP	22 47 50.0	0.5		
GYA	161.3	347	ePKP	22 47 58.0	0.7		
KMI	163.1	358	ePKP	22 48 00.0	0.8		

1987 10 3
O = 00 42 42.0 ± 0.06s
LAT = 37.97 N ± 0.99km
LONG = 72.58 E ± 0.78km
DEPTH = 117 km ± 0.40km
STATIONS USED = 30, STAND DEV = 1.28s

KSH	3.0	60	cP	00 43 32.0	1.9		
			sP	00 43 58.0	1.6		
			S	00 44 08.0	2.3		
			SME			1.0	0.60
WMQ	12.8	58	P	00 45 41.5	−0.1		
			sP	00 46 13.8	0.6		
			S	00 48 02.5	0.8		
			SMN			1.5	0.040
GTA	21.3	78	P	00 47 22.1	1.2		

1987 10 3
O = 03 35 11.0 ± 0.14s
LAT = 18.12 S ± 3.92km

LONG= 68.98 W ± 5.04km
DEPTH=145 km ± 1.09km
STATIONS USED = 78, STAND DEV= 2.11s
m_B=5.7/ 1

KSH	143.0	48	cPKP	03 54 24.0	−4.7		
			eSKS	04 01 23.0	2.4		
			LN			14.0	0.50
WMQ	147.7	32	PKP	03 54 37.0	0.2		
			pPKP	03 55 15.0	0.9		
MDJ	149.3	334	cPKP	03 54 39.0	−0.3		
			pPKP	03 55 14.0	−2.8		
			ePP	03 58 20.0	1.4		
			LZ			25.0	1.30
CN2	151.7	338	ePKP	03 54 47.4	4.7		
			pPKP	03 55 20.0	−0.4		
			LZ			20.0	0.60
GTA	156.7	22	+PKP	03 54 49.6	−0.2		
			sPKP	03 55 53.0			
			PP	03 58 55.5	−4.3		
			LE			34.0	0.77
DL2	157.3	338	ePKP	03 54 50.2	−0.3		
HHC	157.3	359	ePKP	03 54 51.8	1.1		
BTO	157.6	2	PKP	03 54 53.0	2.0		
BJI	157.7	350	cPKP	03 54 51.0	0.0		
			csPKP	03 55 32.0			
			eSKS	04 01 44.0	4.8		
			eSKKS	04 05 36.0			
LSA	158.5	54	PKP	03 54 53.5	1.0		
			pPKP	03 55 27.0	−2.6		
LZH	161.0	18	cPKP	03 54 55.0	0.1		
TIA	161.2	345	ePKP	03 54 55.2	0.3		
			pPKP	03 55 28.3	−4.1		
			PP	03 59 19.6	−5 1		
XAN	164.0	6	cPKP	03 54 57.0	−0.8		
			pPKP	03 55 31.0	−4.3		
			PP	03 59 37.0	−2.8		
SSE	164.1	326	ePKP	03 54 57.2	−0.6		
			pPKP	03 55 29.5	−5.9		
			PKP_2	03 55 50.0			
			LE			20.0	0.44
NJ2	164.4	334	+PKP	03 54 58.5	0.4		
			pPKP	03 55 31.0	−4.7		
CD2	165.7	26	PKP	03 55 00.5	1.2		
			pPKP	03 55 32.7	−4.2		
			PP	03 59 44.0	−3.9		
WHN	167.3	347	PKP	03 55 01.0	0.6		
			PKP_2	03 56 04.5			
			PP	03 59 50.0	−6.0		
			LZ			32.0	0.60
KMI	169.6	46	cPKP	03 55 02.5	0.4		
			pPKP	03 55 34.0	−5.5		
			PKP_2	03 56 17.0			
			PP	04 00 08.0	0.3		
			PPMZ	m_B=5.7		6.0	0.55
			SKKS	04 06 43.0			
QZH	170.2	315	cPKP	03 55 08.0	5.8		
			pPKP	03 55 36.0	−3.9		
			cPP	04 00 14.5	3.8		
GYA	170.8	25	PKP	03 55 03.4	0.7		
			PP	04 00 12.4	−1.1		
			SKKS	04 06 48.0			
QZN	178.6	51	cPKP	03 55 06.0	1.0		
			PKP_2	03 56 56.0			
			PP	04 00 55.0	3.3		
			SKKS	04 07 25.0			

1987 10 3
O=10 16 25.2 ± 0.05s
LAT= 5.43 S ± 0.78km
LONG=131.11 E ± 0.89km
DEPTH= 73 km ± 0.10km
STATIONS USED =101, STAND DEV= 0.70s
Ms=6.1/47, m_B=6.7/66

QZN	32.1	320	+iP	10 22 48.0	0.2		
			PMZ	m_B=6.9		5.0	10.5
			pP	10 23 06.0	1.1		
			PcP	10 25 34.0	−1.2		
			iS	10 27 52.0	−1.9		
			SME	m_B=6.3		8.0	7.00
			LN	Ms=5.9		12.0	6.00
			LE			13.0	7.10
QZH	32.6	339	+iP	10 22 51.0	−0.9		
			PMZ	m_B=6.9		4.0	8.26
			ipP	10 23 14.0	5,0		
			iS	10 27 59.0	−2.1		
			SMN	m_B=6.5		6.0	3.74
			SME			6.0	7.21
			LE	Ms=5.8		14.0	7.86
GZH	33.2	329	+P	10 22 57.0	−0.8		
			PMZ	m_B=6.9		4.0	7.05
			pP	10 23 17.0	2.0		
			iS	10 28 10.0	−1.7		
			SMN	m_B=6.4		8.0	7.14
			SME			8.0	3.86
SSE	37.5	346	−P	10 23 34.7	0.4		
			PMZ	m_B=7.2		4.0	15.8
			PcP	10 25 52.3	1.3		
			S	10 29 17.0	0.0		
			SMN	m_B=6.7		10.0	11.5
			SME			8.0	9.45

			SMZ			6.0	9.52
			SS	10 31 52.0	−2.4		
			ScS	10 33 42.5	5.0		
			LN	Ms = 6.0		36.0	25.0
			LZ	Ms = 5.9		22.0	14.6
NJ2	39.1	343	+iP	10 23 47.5	0.5		
			PMZ	m_B = 6.8		5.0	8.00
			pP	10 24 08.0	3.5		
			PcP	10 25 57.0	1.3		
			iS	10 29 40.0	−0.9		
			SME	m_B = 6.6		8.0	9.90
WHN	39.2	337	+iP	10 23 49.0	0.8		
			PMZ	m_B = 7.1		4.0	11.3
			pP	10 24 11.0	5.3		
			PP	10 25 24.0	1.3		
			PcS	10 29 43.0	−1.5		
			iS	10 29 44.0	0.9		
			SME	m_B = 6.6		6.0	7.20
			ScS	10 33 42.0	−5.1		
			LN	Ms = 5.6		10.0	3.04
GYA	39.6	324	+P	10 23 51.0	−0.4		
			PMZ	m_B = 7.0		4.0	8.90
			pP	10 24 13.0	4.2		
			PP	10 25 28.0	1.3		
			PcP	10 25 58.8	1.5		
			S	10 29 47.0	−0.8		
			SME	m_B = 6.4		8.0	5.80
			ScS	10 33 53.0	3.8		
			LN	Ms = 6.2		15.0	11.7
			LE			15.0	10.2
KMI	41.0	319	+iP	10 24 04.5	1.0		
			PMZ	m_B = 7.0		4.0	8.80
			pP	10 24 26.0	5.2		
			PP	10 25 45.0	3.6		
			iS	10 30 10.0	−0.8		
			LN	Ms = 6.1		12.0	9.00
TIA	43.5	343	+P	10 24 22.8	−0.3		
			PMZ	m_B = 6.8		5.5	7.02
			PcP	10 26 11.5	1.5		
			SMN	m_B = 6.6		12.0	9.09
			SME			10.0	5.10
			eSS	10 33 57.0	1.7		
			ScS	10 34 17.7	5.2		
XAN	44.5	333	+P	10 24 31.0	−0.7		
			PMZ	m_B = 6.8		6.0	9.15
			pP	10 24 51.0	1.7		
			PP	10 26 14.0	−3.1		
			S	10 30 56.0	−4.3		
			SMN	m_B = 6.8		6.0	6.25
			SME			7.0	8.02
			LN	Ms = 6.0		14.0	5.14
			LE			12.0	4.87
CD2	44.6	326	P	10 24 31.8	−0.7		
			PMZ	m_B = 7.1		4.0	9.98
			PcP	10 26 16.0	2.0		
			S	10 30 59.0	−2.6		
			ScS	10 34 18.0	−1.7		
DL2	45.0	350	+iP	10 24 35.0	−0.4		
			S	10 31 02.0	−5.0		
			SME	m_B = 6.6		8.0	7.13
			LN	Ms = 6.0		14.0	8.05
TIY	46.3	339	+iP	10 24 45.5	−0.6		
			PMZ	m_B = 6.9		5.0	8.70
			pP	10 25 06.0	2.3		
			iS	10 31 25.0	−2.3		
			SMN			18.0	5.02
			SME			20.0	10.2
			LZ	Ms = 5.9		32.0	12.4
BJI	47.3	344	+P	10 24 53.5	−0.1		
			PMZ	m_B = 6.9		5.0	7.35
			pP	10 25 15.0	3.6		
			cPP	10 26 43.0	−1.9		
			S	10 31 38.0	−1.9		
			SME			20.0	7.23
			LN	Ms = 5.8		36.0	12.9
SNY	47.5	352	+iP	10 24 55.0	−0.5		
			PMZ	m_B = 6.8		5.0	6.92
			sP	10 25 19.0	−3.1		
			PP	10 26 46.0	−0.9		
			iS	10 31 44.0	−0.3		
			SMN			19.0	10.1
			SME			19.0	8.74
			ScS	10 34 41.0	2.4		
			SS	10 35 07.5	1.1		
			LN	Ms = 5.9		15.0	3.15
			LE			15.0	4.95
LZH	48.6	330	+iP	10 25 04.0	0.2		
			PMZ	m_B = 6.7		10.0	9.66
			pP	10 25 24.0	2.6		
			S	10 31 56.0	−1.9		
			SME	m_B = 6.7		6.5	6.07
CN2	49.3	355	+iP	10 25 08.0	−1.0		
			PMZ	m_B = 6.7		5.0	5.00
			pP	10 25 25.0	−1.8		
			PcP	10 26 31.6	1.1		
			PP	10 27 04.0	0.2		
			PPMZ			6.0	2.90
			ScP	10 30 19.0	1.4		
			cS	10 32 07.0	−1.7		
			SMN			18.0	5.10

			ScS	10 34 50.0	0.0		
			eSS	10 35 32.0	−3.8		
			LZ	Ms = 6.1		22.0	14.7
HHC	49.4	340	+iP	10 25 10.6	0.3		
			S	10 32 12.0	2.2		
			SME	m_B = 6.6		8.0	5.90
			LN	Ms = 6.1		12.0	7.61
			LE			15.0	4.57
BTO	49.7	339	+iP	10 25 12.0	−0.7		
			PMZ	m_B = 6.8		5.0	6.70
			PP	10 27 11.0	2.4		
			iS	10 32 12.0	−3.4		
			SMN	m_B = 6.4		9.0	2.20
			SME			9.0	4.10
			SS	10 35 43.0	−0.6		
			LN	Ms = 5.9		14.0	3.50
			LE			15.0	4.00
			LZ	Ms = 5.8		14.0	4.00
MDJ	49.8	359	+P	10 25 13.0	−0.4		
			PcS	10 30 30.0	2.1		
			iS	10 32 18.0	1.4		
			SMN	m_B = 6.5		6.0	3.60
			ScS	10 34 57.0	3.2		
			LZ	Ms = 6.4		15.0	19.8
LSA	51.9	315	+P	10 25 28.4	−0.8		
			PMZ			3.0	10.6
			S	10 32 43.0	−0.4		
			SME	m_B = 6.6		5.0	3.60
			SMZ			5.0	4.82
			LZ	Ms = 5.6		9.0	1.69
GTA	53.2	330	+iP	10 25 38.3	−0.3		
			PMZ	m_B = 7.0		4.0	7.61
			PcP	10 26 46.9	2.0		
			PP	10 27 36.5	−3.9		
			iS	10 33 01.5	−1.0		
			SME	m_B = 6.3		6.5	2.71
			ScS	10 35 20.5	3.8		
			LN	Ms = 5.8		14.0	3.75
			LZ	Ms = 6.0		32.0	15.5
WMQ	62.7	326	+iP	10 26 45.6	0.2		
			PMZ	m_B = 7.3		4.0	15.1
			pP	10 27 07.0	3.2		
			PcS	10 31 26.0	1.8		
			S	10 35 08.0	2.4		
			SMN	m_B = 6.4		7.0	3.52
			ScS	10 36 30.0	3.7		
			LZ	Ms = 6.1		34.0	15.3
KSH	67.6	317	+iP	10 27 18.0	1.1		
			iS	10 36 11.0	3.8		
			ScS	10 37 05.0	1.1		
			LN	Ms = 6.2		18.0	8.40

1987 10 3

O = 11 00 04.9 ± 0.12s
LAT = 36.56 N ± 1.51km
LONG = 71.44 E ± 1.57km
DEPTH = 93 km ± 0.24km
STATIONS USED = 92, STAND DEV = 1.34s
m_B = 6.1 / 31

KSH	4.6	50	−iP	11 01 16.0	2.3		
			S	11 02 06.0	−0.1		
WMQ	14.4	55	P	11 03 24.0	−1.3		
			sP	11 03 52.0	0.1		
			S	11 05 57.0	−5.2		
			sS	11 06 19.0	−3.6		
			LN			6.0	24.9
LSA	17.9	107	−P	11 04 05.8	−3.5		
			sP	11 04 37.0	0.4		
			S	11 07 23.0	1.7		
GTA	22.5	74	−iP	11 04 57.3	−0.6		
			pP	11 05 19.0	1.7		
			iS	11 08 57.0	2.9		
			SMN			12.5	10.6
			LN			6.0	10.9
LZH	26.0	81	−iP	11 05 32.0	0.2		
			PMZ			1.5	0.73
			pP	11 05 55.0	3.3		
			S	11 09 54.0	0.9		
			LN			10.0	3.61
			LE			10.0	4.74
CD2	27.4	92	eP	11 05 42.9	−0.9		
			sP	11 06 17.5	2.0		
			S	11 10 20.0	5.2		
			SME	m_B = 6.2		5.0	3.48
KMI	29.1	104	−P	11 05 58.0	−1.2		
			pP	11 06 20.5	1.0		
			sP	11 06 32.5	1.6		
			iS	11 10 43.5	0.4		
			SME	m_B = 6.0		7.0	3.00
			sS	11 11 21.0	2.5		
BTO	30.3	70	P	11 06 10.0	0.3		
			pP	11 06 32.0	1.8		
			PP	11 07 14.5	3.2		
			S	11 11 04.0	3.3		
			sS	11 11 42.0	4.4		
			SS	11 12 53.0	6.9		
			LN			8.0	7.90
			LE			8.0	4.40
XAN	30.6	83	eP	11 06 12.0	−0.3		
			pP	11 06 32.0	−0.9		

			S	11 11 09.0	3.5		
			LN			10.0	7.30
			LE			10.0	5.39
HHC	31.4	70	-iP	11 06 21.4	1.6		
			S	11 11 23.0	4.3		
GYA	31.5	99	P	11 06 19.8	-0.9		
			sP	11 06 54.0	1.2		
			PP	11 07 28.0	0.6		
			S	11 11 20.0	-0.4		
			SMN	$m_B = 6.1$		8.0	2.10
			SME			8.0	3.70
			sS	11 12 00.0	2.4		
			LN			12.0	3.70
			LE			12.0	6.70
TIY	32.5	75	+P	11 06 30.0	0.6		
			pP	11 06 52.0	1.9		
			S	11 11 38.0	2.0		
			SME	$m_B = 6.0$		10.0	4.83
			sS	11 12 18.0	4.7		
			LN			7.0	4.38
			LE			6.0	6.33
			LZ			17.0	10.1
BJI	35.0	70	eP	11 06 51.5	0.9		
			pP	11 07 14.0	2.2		
			eS	11 12 10.0	-5.2		
			SMN	$m_B = 5.5$		11.0	1.48
			LN			7.0	5.56
WHN	36.0	87	eP	11 06 59.5	0.1		
			S	11 12 31.0	0.7		
			LN			10.0	5.90
			LZ			24.0	9.60
TIA	36.5	77	+P	11 07 04.7	1.3		
			epP	11 07 26.5	1.9		
			S	11 12 37.0	-0.5		
			SMN	$m_B = 6.1$		8.5	2.13
			SME			10.0	2.87
			LN			9.0	6.78
			LE			9.0	2.32
QZN	37.9	107	+P	11 07 15.0	0.0		
			pP	11 07 38.5	2.2		
			sP	11 07 48.5	1.0		
			SMN	$m_B = 6.1$		8.0	1.50
			SME			11.0	4.20
			sS	11 13 31.5	-5.0		
			ScS	11 17 15.5	0.6		
			LN			12.0	3.00
			LE			11.0	1.50
GZH	38.5	99	cP	11 07 20.0	0.4		
			iS	11 13 09.0	1.0		
			SMN	$m_B = 6.2$		6.0	2.42
			SME			9.0	2.98
			LN			10.0	2.80
			LE			8.0	2.66
NJ2	39.1	82	-P	11 07 26.8	1.7		
			pP	11 07 49.0	2.6		
			S	11 13 20.0	3.0		
			SMN	$m_B = 5.9$		9.5	2.30
			LN			18.0	9.70
DL2	39.4	71	P	11 07 28.0	0.9		
			pP	11 07 50.0	1.5		
			S	11 13 23.0	2.3		
SNY	40.2	66	eP	11 07 33.4	-1.0		
			pP	11 07 57.0	1.2		
			S	11 13 32.0	-1.8		
			SMN	$m_B = 5.8$		11.0	1.41
			SME			9.0	1.35
			LN			9.0	3.04
			LE			7.0	4.35
			LZ			6.0	6.73
CN2	41.3	63	eP	11 07 42.8	0.0		
			eS	11 13 50.0	0.0		
			LZ			15.0	10.2
SSE	41.3	83	+P	11 07 45.0	1.8		
			PMZ			1.0	0.10
			pP	11 08 09.7	5.0		
			S	11 13 54.0	4.3		
			SMN	$m_B = 6.1$		10.0	2.41
			SME			11.0	2.99
			sS	11 14 30.0	2.1		
			LN			16.0	7.99
QZH	41.8	92	eP	11 07 47.6	0.6		
			pP	11 08 11.0	2.5		
			S	11 13 56.0	-0.5		
			SME			16.0	4.15
			SS	11 17 04.0	2.8		
			LN			10.0	3.68
MDJ	44.1	61	eP	11 08 06.5	0.8		
			pP	11 08 28.0	0.7		
			eS	11 14 28.0	-3.0		
			SMN	$m_B = 6.4$		5.0	3.20
			sS	11 15 12.0	3.5		
			LZ			10.0	2.00

1987 10 3

O = 11 39 55.9 ± 0.22s

LAT = 55.84 S ± 0.69km

LONG = 147.11 E ± 1.98km

DEPTH = 17 km ± 1.20km

STATIONS USED = 13, STAND DEV = 0.95s

GYA	88.9	324	P	11 52 52.6	0.8		

WHN	90.5	332	eP	11 53 00.0	1.0	
CD2	94.0	324	eP	11 53 16.2	1.0	

1987 10 3
O = 14 49 02.7 ± 0.10s
LAT = 38.83 N ± 0.94km
LONG = 102.29 E ± 0.82km
DEPTH = 10 km
STATIONS USED = 8, STAND DEV = 2.93s
M_L = 3.8 / 6,

GTA	2.0	287	+iPg	14 49 36.6	−1.8	
			Sg	14 50 04.0	−1.7	
			SMN	M_L = 4.0	1.0	1.77
			SME		1.0	0.72
CD2	8.0	171	eP	14 51 03.6	1.5	

1987 10 3
O = 13 59 00.3 ± 0.08s
LAT = 40.47 N ± 0.72km
LONG = 122.43 E ± 0.70km
DEPTH = 8 km ± 0.13km
STATIONS USED = 8, STAND DEV = 2.18s
M_L = 2.9 / 9,

SNY	1.6	32	−iPg	13 59 28.3	−0.4	
			Sg	13 59 46.8	−3.9	
			SMN	M_L = 2.9	0.4	0.18
			SME		0.4	0.12
DL2	1.7	202	Pg	13 59 29.6	−0.4	
			SMN	M_L = 2.6	0.5	0.050
			SME		0.5	0.070

1987 10 3
O = 15 14 58.0 ± 0.07s
LAT = 47.57 N ± 1.26km
LONG = 56.15 E ± 0.91km
DEPTH = 10 km ± 0.14km
STATIONS USED = 53, STAND DEV = 0.97s

KSH	16.5	112	eP	15 18 51.0	−0.5
WMQ	22.3	88	P	15 19 57.0	−0.4
			eS	15 24 00.0	2.2
GTA	32.4	88	P	15 21 29.9	−0.5
			PcP	15 24 18.1	0.6
TIY	41.7	82	eP	15 22 50.4	0.9
BJI	43.0	77	eP	15 23 00.0	0.1
GYA	44.6	100	P	15 23 13.8	0.9
TIA	45.7	81	eP	15 23 21.6	0.0
WHN	47.2	89	eP	15 23 33.0	−0.1
NJ2	49.3	85	eP	15 23 49.5	−0.1
QZN	51.8	104	eP	15 24 10.6	1.4

1987 10 3
O = 18 22 52.0 ± 0.07s
LAT = 22.19 N ± 0.86km
LONG = 142.94 E ± 1.50km
DEPTH = 257 km ± 0.25km
STATIONS USED = 41, STAND DEV = 0.83s
m_B = 4.7 / 1

SSE	21.3	299	eP	18 27 19.6	−0.3	
			PMZ		1.0	0.030
			eS	18 30 54.0	−2.3	
			SME	m_B = 4.7	6.0	0.50
NJ2	23.5	300	eP	18 27 41.0	0.1	
DL2	24.7	317	eP	18 27 50.3	−1.3	
SNY	25.4	325	eP	18 27 58.1	−0.4	
TIA	26.4	308	eP	18 28 07.1	−0.3	
BJI	28.8	314	P	18 28 27.0	−2.2	
TIY	30.5	307	eP	18 28 44.4	1.0	
HHC	32.3	312	P	18 29 00.0	0.3	
BTO	33.3	311	eP	18 29 08.4	0.4	

1987 10 4
O = 00 51 51.6 ± 0.10s
LAT = 37.33 N ± 1.68km
LONG = 71.41 E ± 1.44km
DEPTH = 92 km ± 0.47km
STATIONS USED = 26, STAND DEV = 2.07s

KSH	4.2	58	−iP	00 52 58.0	3.5	
			iS	00 53 47.0	4.5	
			SME		0.5	4.10
WMQ	14.0	57	P	00 55 06.8	0.1	
			sP	00 55 36.0	2.8	
			S	00 57 35.0	−4.4	
			LE		2.0	0.080
LSA	18.1	109	P	00 55 58.3	−0.9	
GTA	22.3	76	P	00 56 43.4	0.5	
GYA	31.7	100	P	00 58 08.0	−0.8	

1987 10 4
O = 03 04 38.6 ± 0.12s
LAT = 39.46 N ± 2.28km
LONG = 74.85 E ± 2.11km
DEPTH = 9 km ± 1.31km
STATIONS USED = 24, STAND DEV = 3.03s
M_L = 4.6 / 6,

KSH	0.9	90	−iPg	03 04 57.0	2.6	
			Sg	03 05 05.0	−1.2	
			SME	M_L = 4.5	0.5	13.1
WMQ	10.6	62	P	03 07 11.2	−2.3	
			SME		1.0	0.080
GTA	19.3	82	P	03 09 05.8	−0.8	

CD2	25.0	101	P	03 10 07.2	2.2		
WHN	33.3	93	eP	03 11 18.5	−1.0		

1987 10 4
O = 08 15 18.4 ± 0.32s
LAT = 10.83 N ± 3.57km
LONG = 85.89 W ± 2.34km
DEPTH = 42 km ± 2.87km
STATIONS USED = 81, STAND DEV = 1.85s
Ms = 6.3 / 42, m_B = 6.1 / 5

MDJ	116.2	332	ePKP	08 34 00.0	2.0		
			sPKP	08 34 15.0			
			PP	08 35 06.0	−1.2		
			SKS	08 41 08.0	5.0		
			SKKS	08 41 54.0			
			LE	Ms = 6.2		24.0	4.80
CN2	118.6	335	ePKP	08 34 04.0	1.2		
			ePP	08 35 26.0	1.5		
			LZ	Ms = 6.3		15.0	3.20
SNY	121.0	335	ePKP	08 34 07.3	−0.1		
DL2	124.3	334	ePKP	08 34 15.0	1.3		
			ePP	08 36 01.0	−1.9		
			LN	Ms = 6.2		20.0	2.41
			LE			17.0	2.30
WMQ	125.3	6	PKP	08 34 16.0	0.2		
			PP	08 36 12.0	2.8		
			SKS	08 41 24.0	3.7		
			SKKS	08 43 05.0			
			LZ	Ms = 6.6		20.0	8.73
BJI	125.4	339	ePKP	08 34 17.0	1.1		
			PPMZ			16.0	0.88
			eSKS	08 41 24.0	3.5		
			LN	Ms = 6.1		30.0	3.68
			LZ	Ms = 6.2		24.0	4.15
HHC	126.1	344	PKP	08 34 18.6	1.2		
			eSKS	08 41 28.0	6.2		
			LN	Ms = 6.4		22.0	4.48
			LE			20.0	2.72
			LZ	Ms = 6.3		22.0	4.48
BTO	126.8	345	ePKP	08 34 18.0	−0.7		
			sPKP	08 34 33.0			
			cPP	08 36 15.0	−3.6		
			eSKKS	08 43 04.0			
			SS	08 53 13.0	−6.4		
			LN	Ms = 6.4		21.0	4.90
			LE			17.0	1.80
			LZ	Ms = 6.4		21.0	5.20
KSH	127.2	18	+PKP	08 34 20.0	0.4		
			PP	08 36 16.0	−5.5		
			eSKKS	08 43 07.0			
			LE	Ms = 6.6		16.0	6.10
TIA	128.4	336	ePKP	08 34 23.4	1.6		
			PP	08 36 27.0	−3.1		
			LN	Ms = 6.3		19.0	3.39
			LE			19.0	2.15
			LZ	Ms = 6.4		19.0	5.13
TIY	128.8	341	ePKP	08 34 22.5	0.0		
			SKS	08 41 26.0	−0.6		
			LN	Ms = 6.4		20.0	3.95
			LE			20.0	2.91
GTA	129.7	354	PKP	08 34 24.0	−0.4		
			PP	08 36 32.0	−6.5		
			LN	Ms = 6.4		24.0	5.93
			LZ	Ms = 6.3		26.0	5.51
SSE	130.9	329	PKP	08 34 28.6	2.2		
			SKS	08 41 34.0	3.6		
			SKKS	08 43 40.0			
			SS	08 54 12.0	2.2		
NJ2	131.2	332	+PKP	08 34 28.0	0.9		
			PP	08 36 55.0	6.4		
			LE	Ms = 6.1		15.0	1.90
LZH	132.4	349	−iPKP	08 34 32.0	2.4		
			eSKKS	08 43 50.0			
			LN	Ms = 6.0		14.0	1.20
XAN	133.2	343	+PKP	08 34 32.5	1.5		
			LN	Ms = 6.5		18.0	2.01
			LE			20.0	5.07
WHN	134.5	335	PKP	08 34 34.5	1.2		
			PP	08 37 05.0	−4.1		
			PPMZ	m_B = 6.3		10.0	1.67
			SKS	08 41 30.0	−6.7		
			SKKS	08 43 58.0			
			LN	Ms = 6.2		18.0	2.80
			LZ	Ms = 6.2		20.0	3.20
QZH	137.2	326	+PKP	08 34 39.5	1.3		
			PP	08 37 24.0	−1.3		
			SS	08 55 23.0	−2.5		
			LN	Ms = 6.1		15.5	0.84
			LE			20.0	2.24
CD2	137.5	348	PKP	08 34 41.5	2.6		
			PP	08 37 25.0	−2.4		
			LE	Ms = 6.4		20.0	5.03
LSA	139.6	4	PKP	08 34 44.8	1.7		
GYA	141.0	342	PKP	08 34 40.4	−4.9		
			sPKP	08 34 55.0			
			PP	08 37 48.0	−1.0		
			LN	Ms = 6.0		32.0	1.50
			LE			32.0	2.80
GZH	141.4	331	PKP	08 34 43.5	−2.3		
			PP	08 37 48.0	−3.5		

			PPMZ		$m_B=6.5$	7.0	1.78
KMI	143.3	347	+PKP	08 34 46.5	−2.8		
			ePP	08 38 04.5	1.6		
			SKKS	08 44 54.0			
			LE		Ms=6.3	20.0	3.80
QZN	146.5	332	+PKP	08 34 57.5	2.8		
			pPKP	08 35 08.0	1.3		
			PP	08 38 22.0	−0.2		
			SKKS	08 45 03.5			
			SS	08 57 10.5	−3.1		
			LN		Ms=6.4	20.0	4.50

1987 10 4

O=10 27 18.1 ± 0.08s

LAT=37.34 N ± 1.59km

LONG=141.57 E ± 1.66km

DEPTH= 39 km ± 1.00km

STATIONS USED =101, STAND DEV= 1.55s

Ms=5.2/55, m_B=5.7/15

MDJ	11.6	313	cP	10 30 06.5	2.2		
			S	10 32 15.0	2.1		
			SS	10 32 30.0	2.6		
			LZ		Ms=5.3	20.0	23.6
CN2	13.8	303	+P	10 30′35.0	0.9		
			eS	10 33 04.0	−3.2		
			LZ		Ms=5.1	15.0	8.40
SNY	14.6	293	+P	10 30 45.0	1.2		
			pP	10 30 55.5	3.8		
			S	10 33 24.0	−0.1		
			LN		Ms=5.2	12.0	1.91
			LE			15.0	8.50
			LZ		Ms=5.4	15.0	13.4
DL2	15.8	282	eP	10 31 00.0	0.7		
			pP	10 31 12.0	4.7		
			eS	10 33 54.0	1.3		
			LN		Ms=5.1	11.0	1.80
			LE			12.0	4.52
SSE	18.0	256	P	10 31 26.6	−0.2		
			PMZ			1.0	0.17
			PP	10 31 44.0	2.8		
			eS	10 34 41.0	−1.8		
			LE		Ms=5.1	16.0	5.20
NJ2	19.4	261	+P	10 31 42.0	−1.8		
			pP	10 31 55.0	2.5		
			eS	10 35 10.5	−4.4		
			LE		Ms=5.1	15.0	4.30
TIA	19.6	274	eP	10 31 44.3	−1.9		
			pP	10 31 59.5	4.3		
			PP	10 32 06.0	1.9		
			S	10 35 22.3	3.1		
			SMN		m_B=5.9	4.0	0.73
			SME			4.0	1.52
			SS	10 35 51.0	4.4		
			LN		Ms=5.4	14.0	7.09
			LE			14.0	2.81
			LZ		Ms=5.2	14.0	5.33
BJI	20.0	286	eP	10 31 47.5	−2.8		
			pP	10 32 02.0	2.4		
			LN		Ms=4.9	14.0	2.19
			LE			13.0	1.13
TIY	23.1	280	eP	10 32 19.8	−1.8		
			S	10 36 27.0	2.1		
			sS	10 36 45.0	2.9		
			SS	10 37 14.0	3.1		
			LE		Ms=5.3	13.0	4.92
			LZ		Ms=5.6	16.0	11.3
QZH	23.2	244	+P	10 32 20 5	−1.8		
			S	10 36 20.5	−5.9		
			LN		Ms=5.1	12.0	1.21
			LE			20.0	3.36
HHC	23.5	288	P	10 32 24.7	−1.0		
			S	10 36 36.5	4.2		
			LN		Ms=5.1	12.5	2.40
			LE			14.0	1.23
WHN	23.5	261	eP	10 32 25.0	−0.9		
			iS	10 36 38.0	4.4		
			SMN		m_B=5.7	6.0	1.40
			LN		Ms=5.1	16.0	3.30
BTO	24.7	287	P	10 32 35.0	−2.2		
			pP	10 32 51.0	4.0		
			PP	10 33 13.0	−0.3		
			LN		Ms=5.2	14.0	1.80
			LE			14.0	2.80
			LZ		Ms=5.1	15.0	2.60
XAN	26.6	273	+P	10 32 55.2	−0.4		
			PMZ		m_B=5.9	4.0	1.03
			S	10 37 21.0	−4.2		
			SME		m_B=5.2	12.0	0.77
			sS	10 37 42.0	−1.1		
			LN		Ms=5.2	14.0	3.08
GZH	28.1	248	+P	10 33 10.0	1.3		
			S	10 37 50.0	1.4		
			SMN		m_B=5.7	9.0	1.08
			SME			9.0	1.22
			LN		Ms=5.2	15.0	2.08
			LE			14.0	1.83
LZH	30.1	279	+P	10 33 26.0	−1.1		
			PMZ			2.0	0.32
			LE		Ms=5.5	17.0	5.77
GYA	31.4	260	+P	10 33 37.8	−0.4		

			PMZ			1.4	0.40
			S	10 38 37.0	−3.8		
			LN	Ms=5.3		16.0	1.30
			LE			16.0	2.90
CD2	31.8	270	P	10 33 40.8	−0.9		
			S	10 38 49.0	1.8		
			LE	Ms=5.5		15.0	4.50
GTA	32.6	287	+iP	10 33 47.8	−0.9		
			PMZ	m_B=5.7		4.0	0.53
			cPP	10 34 54.0	−3.4		
			eS	10 39 02.0	1.2		
			LN	Ms=5.0		13.5	1.42
			LZ	Ms=5.3		25.0	4.35
QZN	33.2	245	+P	10 33 55.0	1.4		
			PP	10 35 08.0	3.4		
			S	10 39 09.0	0.5		
			cSS	10 41 16.0	4.9		
			LN	Ms=5.3		18.0	2.80
			LE			17.0	2.20
KMI	35.1	261	+iP	10 34 10.5	−0.2		
			PP	10 35 32.0	2.8		
			S	10 39 40.0	1.1		
			LE	Ms=5.3		17.0	3.18
WMQ	40.8	297	+iP	10 34 59.5	1.5		
			PMZ			2.0	0.61
			S	10 41 08.0	2.9		
			SME	m_B=5.8		8.0	1.40
			LE	Ms=5.4		15.0	2.48
LSA	42.3	275	P	10 35 12.5	1.8		
			S	10 41 31.0	3.7		
			LN	Ms=5.1		15.0	1.21
KSH	50.4	294	−iP	10 36 15.0	0.5		
			cPP	10 38 12.0	1.9		
			iS	10 43 28.0	4.0		
			LN	Ms=5.8		18.0	5.80

1987 10 4
O=11 07 13.2 ± 0.09s
LAT=48.18 N ± 3.00km
LONG=155.04 E ± 1.90km
DEPTH= 39 km ± 0.67km
STATIONS USED = 32, STAND DEV= 1.66s

MDJ	17.9	268	cP	11 11 21.0	0.1		
CN2	21.0	269	+P	11 11 52.5	−3.0		
GTA	40.0	278	cP	11 14 46.2	−0.7		
CD2	42.3	265	P	11 15 05.4	0.0		
GYA	43.3	258	P	11 15 13.2	−0.4		
QZN	46.6	247	P	11 15 42.0	2.1		
KMI	46.8	260	+P	11 15 41.0	−0.5		

1987 10 4
O=12 24 42.7 ± 0.12s
LAT=36.50 N ± 1.80km
LONG= 69.46 E ± 1.96km
DEPTH= 49 km ± 0.80km
STATIONS USED = 26, STAND DEV= 2.36s
Ms=4.5/ 2,

KSH	5.9	58	cP	12 26 13.0	2.5		
			cS	12 27 22.0	4.8		
			LE	Ms=4.8		6.0	6.20
WMQ	15.7	57	cP	12 28 28.0	5.2		
			LN			2.5	0.13
GTA	24.1	74	cP	12 29 56.2	1.4		
CD2	29.0	91	cP	12 30 41.3	1.1		
XAN	32.2	83	cP	12 31 08.5	0.1		

1987 10 4
O=12 26 23.7 ± 0.12s
LAT= 5.06 S ± 0.99km
LONG=151.56 E ± 1.12km
DEPTH= 91 km ± 0.69km
STATIONS USED = 46, STAND DEV= 1.18s

QZN	47.5	301	cP	12 34 54.0	1.8		
WHN	50.2	317	P	12 35 14.0	1.3		
GYA	53.6	308	P	12 35 39.6	1.4		
CN2	54.0	337	cP	12 35 40.0	−1.5		
BJI	55.4	327	cP	12 35 51.5	−0.1		
XAN	56.0	317	+P	12 35 55.1	−0.4		
TIY	56.0	323	P	12 35 55.2	−0.4		
KMI	56.1	305	+P	12 35 57.5	0.8		
CD2	58.0	311	P	12 36 10.2	0.5		
BTO	59.3	324	cP	12 36 19.0	0.3		
			csP	12 36 53.5	2.1		
			eS	12 44 20.0	1.4		
GTA	65.0	318	eP	12 36 56.8	−0.3		

1987 10 4
O=18 30 56.9 ± 0.08s
LAT=39.70 N ± 0.79km
LONG=118.64 E ± 0.81km
DEPTH= 10 km ± 0.05km
STATIONS USED = 7, STAND DEV= 2.04s
M_L=2.6/ 10,

BJI	1.9	281	Pg	18 31 30.0	−1.0		
			Sg	18 31 59.0	1.6		
			SMN	M_L=2.3		0.5	0.020
			SME			0.5	0.030
TIA	3.7	199	cPg	18 32 03.7	1.6		
			cSg	18 32 49.3	−3.1		
			SMN	M_L=2.6		0.3	0.010

			SME			0.3	0.020
			SMZ	M_L=2.6		0.3	0.010
1987 10 4							
O=18 34 20.8			**±**	**0.13s**			
LAT=55.50 N			**±**	**3.05km**			
LONG=161.71 E			**±**	**1.96km**			
DEPTH= 52 km			**±**	**0.08km**			
STATIONS USED = 91,			**STAND DEV= 1.35s**				
Ms=5.6/52,				**m_B=6.1/ 5**			
MDJ	23.1	255	cP	18 39 24.5	1.3		
			sP	18 39 38.0	−3.1		
			S	18 43 29.0	3.4		
			SME			20.0	7.80
			LZ	Ms=5.8		20.0	19.5
CN2	25.9	258	cP	18 39 46.5	−3.7		
			cS	18 44 12.0	−2.1		
			LZ	Ms=5.4		16.0	6.40
SNY	28.3	257	−iP	18 40 10.5	−1.0		
			S	18 44 54.0	2.9		
			LN	Ms=5.7		16.0	5.58
			LE			16.0	7.06
			LZ	Ms=5.6		18.0	8.41
DL2	31.3	255	cP	18 40 38.0	−1.0		
			LN	Ms=5.6		14.0	2.24
			LE			13.0	5.66
BJI	33.6	262	cP	18 40 58.5	−0.1		
			cS	18 46 16.0	−0.1		
			LN	Ms=5.6		16.0	5.51
HHC	35.7	267	cP	18 41 18.0	1.5		
TIA	35.8	256	cP	18 41 15.5	−1.7		
			cpP	18 41 25.2	−4.7		
			cPP	18 42 44.5	6.4		
			PPMZ			9.0	1.78
			SMN	m_B=5.4		8.0	0.44
			SME			8.0	0.48
			LN	Ms=5.6		15.0	4.54
			LE			15.0	2.90
			LZ	Ms=5.5		15.0	4.01
BTO	36.7	268	P	18 41 25.0	−0.3		
			sP	18 41 41.0	−2.6		
			cPP	18 42 50.0	−0.3		
			S	18 47 04.5	1.2		
			cSS	18 49 33.0	0.1		
			LN	Ms=5.8		13.0	3.80
			LE			13.0	5.00
			LZ	Ms=5.7		13.0	5.20
TIY	37.3	263	eP	18 41 29.6	−0.7		
			S	18 47 13.5	1.0		
			LZ	Ms=5.8		16.0	8.56
SSE	37.5	246	cP	18 41 34.0	2.5		
			pP	18 41 44.0	−0.3		
			PcP	18 43 50.6	1.9		
			cS	18 47 14.0	−1.7		
			SS	18 49 54.0	4.1		
			ScS	18 51 42.0	5.1		
			LN	Ms=5.4		18.0	3.37
NJ2	38.0	250	cP	18 41 35.0	−0.5		
			S	18 47 22.5	0.4		
			LE	Ms=5.6		14.0	4.10
WHN	41.6	253	−P	18 42 04.8	−0.5		
			sP	18 42 20.0	−3.9		
			PP	18 43 40.0	−4.8		
			S	18 48 10.0	−6.1		
			LN	Ms=5.5		16.0	3.30
			LZ	Ms=5.5		20.0	4.20
XAN	41.9	262	+P	18 42 07.5	−1.0		
GTA	43.3	275	eP	18 42 19.5	−0.4		
			sP	18 42 38.0	−0.3		
			S	18 48 43.0	1.2		
			LN	Ms=5.6		27.0	7.22
			LZ	Ms=6.1		14.0	9.97
LZH	43.3	268	−P	18 42 20.5	0.4		
			PP	18 44 00.0	−2.7		
			cS	18 48 48.0	4.5		
			eScS	18 52 10.0	−1.5		
			LE	Ms=5.6		18.0	4.53
QZH	43.8	244	eP	18 42 24.0	0.4		
			eS	18 48 55.0	5.3		
			LN	Ms=5.4		20.0	2.99
WMQ	47.1	288	+P	18 42 50.4	0.4		
			sP	18 43 06.0	−2.5		
			S	18 49 42.0	5.9		
			SME	m_B=6.3		5.0	1.90
			SS	18 53 03.0	6.0		
			LN	Ms=6.1		20.0	13.4
CD2	47.2	263	eP	18 42 49.2	−1.3		
			eS	18 49 41.0	2.7		
			LE	Ms=5.7		13.0	3.30
GYA	49.0	257	P	18 43 03.8	−0.7		
			pP	18 43 13.8	−3.6		
			sP	18 43 17.4	−5.6		
			S	18 50 03.8	1.5		
			ScS	18 52 49.0	1.4		
			LN	Ms=5.9		18.0	5.00
			LE			18.0	4.30
KMI	52.2	259	−P	18 43 29.0	−0.2		
			sP	18 43 44.0	−3.6		
			PP	18 45 23.0	−4.3		
			eS	18 50 48.0	−0.5		

			ScS	18 53 12.0	2.3		
			LN	Ms=5.8		16.0	4.60
QZN	53.2	248	P	18 43 38.0	1.4		
			sP	18 43 52.0	−3.3		
			PcP	18 44 45.8	2.9		
			eS	18 51 05.0	3.1		
			LN	Ms=5.6		13.5	1.80
			LE			13.5	1.70
LSA	55.2	273	P	18 43 51.2	−0.8		
			eS	18 51 35.0	4.8		
			ScS	18 53 31.0	−0.2		
			LN	Ms=5.4		15.0	1.38
KSH	56.4	292	−iP	18 44 00.0	0.0		
			sP	18 44 15.0	−3.7		
			PP	18 46 09.0	2.9		
			iS	18 51 48.0	2.8		
			sS	18 52 06.0	−1.7		
			ScS	18 53 40.0	0.5		
			LE	Ms=5.7		8.0	1.50

1987 10 4

O=21 26 10.3 ± 0.06s
LAT=38.44 N ± 1.71km
LONG=142.20 E ± 1.43km
DEPTH= 55 km ± 0.83km
STATIONS USED = 28, STAND DEV= 1.25s
Ms=4.1/ 1,

SSE	18.7	253	P	21 30 27.4	0.2		
			PMZ			1.0	0.030
			LZ	Ms=4.1		16.0	0.45
TIA	20.1	271	eP	21 30 41.5	−0.4		
NJ2	20.1	259	eP	21 30 41.0	−1.1		
BJI	20.2	283	eP	21 30 43.0	−0.4		
TIY	23.4	278	eP	21 31 17.0	1.5		
WHN	24.2	259	eP	21 31 23.5	0.4		
XAN	27.1	271	eP	21 31 50.0	−0.5		
GYA	32.1	259	P	21 32 34.6	−0.3		
CD2	32.3	268	eP	21 32 36.8	0.0		
GTA	32.8	285	eP	21 32 37.8	−3.1		
KMI	35.8	260	+P	21 33 07.5	0.5		

1987 10 5

O=00 50 04.2 ± 0.05s
LAT=23.93 N ± 1.12km
LONG=142.95 E ± 1.14km
DEPTH= 32 km ± 0.27km
STATIONS USED = 19, STAND DEV= 1.05s

SSE	20.6	295	P	00 54 43.5	0.5		
			PMZ			0.6	0.040
NJ2	22.7	296	eP	00 55 02.5	−2.3		
SNY	24.1	323	+P	00 55 17.6	−0.1		
XAN	31.3	297	eP	00 56 23.0	−1.1		
GYA	32.9	282	P	00 56 38.4	0.6		

1987 10 5

O=06 38 31.8 ± 0.14s
LAT=22.42 N ± 1.20km
LONG=101.12 E ± 1.71km
DEPTH= 9 km ± 0.05km
STATIONS USED = 25, STAND DEV= 2.43s
Ms=4.4/ 5, M_L=4.4/ 4,

KMI	3.1	28	cPn	06 39 22.0	0.8		
			Pg	06 39 30.5	4.4		
			Sg	06 40 11.0	2.8		
			SMN			2.0	1.07
			SME			3.0	2.10
			LN	Ms=3.9		8.0	3.10
GYA	6.5	50	Pn	06 40 08.0	0.5		
			SMN	M_L=4.4		1.2	0.20
			SME			1.2	0.20
			LN	Ms=4.4		8.0	1.70
			LE			8.0	2.60
CD2	8.8	15	eP	06 40 47.3	5.1		
			LN	Ms=4.6		8.0	1.31
			LE			10.0	2.69
QZN	8.8	111	eP	06 40 42.0	−0.8		
			eS	06 42 24.5	1.2		
			LN	Ms=4.1		8.0	0.90
XAN	13.5	29	eP	06 41 41.5	−4.3		
			LN	Ms=4.5		12.0	1.03
			LE			12.0	1.03
WHN	14.3	53	eP	06 41 58.0	0.7		
GTA	17.0	357	eP	06 42 33.7	2.1		

1987 10 5

O=09 27 01.7 ± 0.06s
LAT=36.24 N ± 1.39km
LONG= 28.29 E ± 0.99km
DEPTH= 28 km ± 0.17km
STATIONS USED = 65, STAND DEV= 1.01s
Ms=4.9/ 2,

KSH	37.5	70	P	09 34 17.0	1.9		
			eS	09 40 05.0	3.1		
			esS	09 40 19.0	3.5		
			LN	Ms=5.1		6.0	0.60
WMQ	45.3	61	P	09 35 20.0	0.8		
			S	09 42 00.0	3.7		
			LZ	Ms=4.8		24.0	0.82
LSA	52.3	78	P	09 36 12.7	−1.6		
GTA	55.2	63	P	09 36 34.7	−0.4		

LZH	59.4	66	eP	09 37 04.5	−0.6
CD2	61.6	71	P	09 37 20.1	0.2
BTO	62.0	59	eP	09 37 21.8	−0.4
HHC	62.9	58	eP	09 37 29.0	0.4
XAN	64.1	66	P	09 37 35.5	−0.6
GYA	66.0	74	P	09 37 48.2	−0.4
BJI	66.4	57	eP	09 37 51.5	0.4
TIA	68.9	60	eP	09 38 06.8	−0.2
WHN	69.8	67	P	09 38 09.0	−3.1
SNY	70.4	52	+P	09 38 15.4	−0.5
CN2	70.5	50	eP	09 38 16.0	−0.8
NJ2	72.3	63	+P	09 38 27.5	0.2
QZN	72.4	79	eP	09 38 29.0	1.3

1987 10 5

O = 18 57 59.8 ± 0.09s

LAT = 0.03 S ± 1.26km

LONG = 129.98 E ± 1.67km

DEPTH = 33 km ± 0.06km

STATIONS USED = 96, STAND DEV = 1.12s

Ms = 5.1 / 47, m_B = 5.7 / 6

QZH	27.2	337	cP	19 03 43.0	0.5		
			pP	19 03 50.5	−1.0		
			S	19 08 20.0	3.4		
			SMN	m_B = 6.1		12.0	5.12
			SME			12.0	4.22
			LN	Ms = 4.8		10.0	0.82
QZN	27.4	315	−P	19 03 45.2	0.8		
			PP	19 04 32.5	0.8		
			S	19 08 24.0	4.1		
			LE	Ms = 4.8		12.0	1.10
GZH	28.1	326	eP	19 03 51.0	0.0		
			eS	19 08 30.0	−2.4		
			LN	Ms = 5.2		13.0	1.89
			LE			12.0	1.50
SSE	32.1	346	eP	19 04 26.0	−0.2		
			sP	19 04 38.0	−1.2		
			cPP	19 05 28.0	−4.5		
			S	19 09 32.0	−2.3		
			esS	19 09 48.0	−2.3		
			eSS	19 11 30.0	1.9		
			LN	Ms = 5.0		16.0	1.78
NJ2	33.6	343	−P	19 04 40.0	0.5		
			sP	19 04 48.0	−4.6		
			S	19 10 03.0	4.8		
			LE	Ms = 5.1		12.5	1.40
WHN	33.8	335	P	19 04 42.5	0.9		
			sP	19 04 54.0	−0.7		
			S	19 10 00.0	−2.0		
			LN	Ms = 5.0		10.0	0.90
			LZ	Ms = 5.0		20.0	1.90
GYA	34.6	321	P	19 04 48.6	0.2		
			S	19 10 20.0	6.1		
			sS	19 10 29.0	−0.9		
			LN	Ms = 5.5		16.0	3.20
			LE			16.0	2.40
KMI	36.3	316	+P	19 05 06.0	3.0		
			sP	19 05 15.0	−0.9		
			eS	19 10 38.0	−3.6		
			LN	Ms = 5.1		15.0	1.41
TIA	38.0	343	eP	19 05 15.9	−0.9		
			epP	19 05 21.8	−4.3		
			ePP	19 06 45.0	−1.7		
			S	19 11 03.0	−2.7		
			SMN	m_B = 5.7		10.0	1.49
			LN	Ms = 5.1		13.0	1.27
			LZ	Ms = 5.1		13.0	1.18
XAN	39.2	332	−P	19 05 26.5	−0.7		
			S	19 11 23.0	−1.5		
			SMN	m_B = 5.6		8.0	0.49
			SME			10.0	0.86
			LE	Ms = 5.0		13.0	0.88
CD2	39.6	323	P	19 05 29.8	−0.3		
			S	19 11 32.5	2.7		
TIY	40.9	339	P	19 05 41.0	−0.1		
			S	19 11 53.0	3.5		
			SMN			22.0	2.07
			SME			20.0	1.74
			LE	Ms = 4.9		15.0	0.86
BJI	41.8	344	eP	19 05 48.5	−0.1		
			eS	19 12 00.0	−4.2		
			SMN	m_B = 5.6		10.0	0.94
			LN	Ms = 4.8		12.0	0.52
SNY	42.1	353	eP	19 05 50.4	−0.2		
			pP	19 05 55.5	−4.3		
			S	19 12 10.0	3.2		
			LN	Ms = 5.3		19.0	2.49
			LZ	Ms = 5.4		19.0	2.99
LZH	43.4	329	−P	19 06 01.5	0.0		
			PMZ			1.0	0.21
			eS	19 12 30.0	2.8		
			SME			24.0	2.49
			LN	Ms = 5.2		14.0	1.50
CN2	43.8	355	eP	19 06 03.0	−2.0		
			epP	19 06 10.0	−4.3		
			PcP	19 07 50.0	−1.0		
			eS	19 12 32.0	−1.5		
			LZ	Ms = 5.2		18.0	1.60
HHC	44.0	340	+P	19 06 06.6	0.2		
			LN	Ms = 5.0		10.0	0.59

			LE			10.0	0.28
BTO	44.3	338	eP	19 06 05.3	−3.8		
MDJ	44.5	360	eP	19 06 09.2	−0.8		
			pP	19 06 14.0	−5.3		
			SMN			20.0	4.80
			LZ	Ms = 5.7		20.0	5.30
LSA	47.3	312	P	19 06 32.8	−0.6		
			iS	19 13 27.0	2.2		
			LE	Ms = 5.3		11.0	1.04
GTA	48.0	328	−iP	19 06 39.7	1.7		
			PcP	19 08 07.9	2.4		
			S	19 13 32.5	0.7		
			eScS	19 16 19.7	−5.3		
			eSS	19 16 56.0	0.5		
			LN	Ms = 5.2		26.0	1.90
WMQ	57.6	325	P	19 07 49.5	−0.3		
			PMZ			1.5	0.11
			pP	19 07 56.0	−3.1		
			S	19 15 47.0	3.8		
			SMN			3.0	0.19
			ScS	19 17 37.5	5.3		
			LN	Ms = 5.5		26.0	3.36
KSH	62.9	315	+P	19 08 29.0	2.8		
			sP	19 08 41.0	1.5		
			sS	19 17 15.0	6.7		
			LN	Ms = 5.3		14.0	1.00

1987 10 5

O = 22 41 32.8 ± 0.11s
LAT = 1.87 N ± 1.16km
LONG = 126.53 E ± 1.94km
DEPTH = 89 km ± 0.80km
STATIONS USED = 71, STAND DEV = 1.27s

QZN	23.6	317	P	22 46 37.6	0.9		
QZH	24.2	342	eP	22 46 42.0	−0.1		
GZH	24.7	330	eP	22 46 46.5	−0.3		
SSE	29.5	351	eP	22 47 30.7	−0.3		
WHN	30.8	339	P	22 47 42.5	0.3		
NJ2	30.9	347	−P	22 47 44.0	0.8		
GYA	31.0	324	P	22 47 44.8	0.2		
KMI	32.6	317	eP	22 47 53.5	−4.7		
TIA	35.3	347	eP	22 48 22.8	1.7		
XAN	36.0	335	P	22 48 26.4	−0.9		
CD2	36.0	326	P	22 48 27.6	−0.1		
TIY	37.9	342	P	22 48 44.0	0.2		
BJI	39.1	347	eP	22 48 54.5	1.0		
LZH	40.0	331	eP	22 49 00.0	−1.0		
HHC	41.1	343	eP	22 49 10.5	0.7		
BTO	41.3	341	eP	22 49 12.2	0.3		
MDJ	42.6	3	eP	22 49 22.5	0.0		
LSA	43.5	313	P	22 49 30.2	0.1		
GTA	44.6	330	−P	22 49 38.0	−0.3		
WMQ	54.1	326	+P	22 50 51.8	0.4		

1987 10 6

O = 00 50 51.0 ± 0.13s
LAT = 18.76 N ± 1.22km
LONG = 145.13 E ± 2.11km
DEPTH = 513 km ± 0.24km
STATIONS USED = 88, STAND DEV = 1.04s
m_B = 5.1 / 12

SSE	24.9	304	+P	00 55 33.5	−1.0		
			PMZ			1.0	0.040
			sP	00 57 52.0	−4.2		
			S	00 59 16.0	−5.2		
			SMZ			4.0	0.22
QZH	25.4	289	−iP	00 55 38.2	−0.6		
			S	00 59 24.0	−4.8		
			SMN	m_B = 4.7		4.0	0.40
MDJ	28.9	337	+iP	00 56 09.0	−0.6		
			PMZ			1.0	0.18
SNY	29.4	326	+iP	00 56 13.0	−1.3		
CN2	29.9	331	+iP	00 56 18.0	−0.9		
			PMZ			3.0	0.30
			eS	01 00 37.0	−4.2		
			eScP	01 01 56.0	−2.3		
			ScS	01 05 52.0	−2.4		
GZH	30.0	284	−iP	00 56 19.9	0.9		
			S	01 00 41.0	0.4		
			SMN	m_B = 5.2		5.0	0.98
TIA	30.2	311	+P	00 56 20.0	−0.8		
			SMN	m_B = 4.8		7.5	0.40
			SME			7.5	0.35
WHN	30.2	299	P	00 56 20.0	−1.3		
			iS	01 00 42.0	−3.6		
			SMN	m_B = 4.9		6.0	0.52
			ScS	01 05 57.0	1.2		
BJI	32.7	317	+P	00 56 42.0	−0.4		
			SMN	m_B = 5.1		5.0	0.54
			ScS	01 06 08.0	−0.4		
QZN	33.4	276	−iP	00 56 48.6	0.8		
TIY	34.2	310	+P	00 56 55.0	0.0		
			pP	00 58 27.5	4.0		
			S	01 01 44.0	−1.7		
			SME	m_B = 5.1		4.0	0.40
XAN	35.6	303	−P	00 57 06.9	0.2		
			S	01 02 03.0	−4.0		
HHC	36.2	315	+P	00 57 11.8	0.3		
GYA	36.2	289	P	00 57 12.8	1.0		
			PcP	00 59 24.2	0.8		

			S	01 02 15.0	−1.1		
			ScS	01 06 29.4	2.0		
BTO	37.1	313	+iP	00 57 19.5	0.3		
CD2	39.2	296	−iP	00 57 36.6	0.2		
			S	01 02 56.0	−4.6		
KMI	39.7	287	−P	00 57 41.0	0.6		
			PMZ	$m_B = 5.4$		4.0	0.50
			pP	00 59 14.0	1.3		
			iS	01 03 08.0	−0.8		
			SMN	$m_B = 5.4$		5.0	0.60
			ScS	01 06 51.0	3.3		
LZH	40.2	304	eP	00 57 45.0	0.9		
			PMZ			1.5	0.20
			S	01 03 13.0	−1.1		
			SMN	$m_B = 5.5$		6.0	0.92
GTA	44.1	308	+iP	00 58 15.2	0.0		
			PcP	00 59 49.8	0.6		
			ScP	01 02 51.8	0.9		
			S	01 04 08.5	−1.5		
			SMN	$m_B = 5.3$		5.5	0.42
			ScS	01 07 14.8	0.1		
LSA	50.0	293	−P	00 59 00.8	0.0		
KSH	62.4	305	eP	01 00 29.0	3.2		

1987 10 6
O = 04 19 06.0 ± 0.13s
LAT = 17.91 S ± 2.41km
LONG = 172.17 W ± 2.03km
DEPTH = 17 km ± 0.35km
STATIONS USED = 90, STAND DEV = 1.06s
Ms = 7.0 / 52, m_B = 7.3 / 50

QZH	79.7	300	−iP	04 31 15.5	0.1		
			PMZ	$m_B = 7.3$		7.0	22.3
			PPMZ			9.0	5.63
			iS	04 41 15.0	−1.4		
			SMN	$m_B = 7.4$		10.0	15.0
			SME			10.0	29.4
			LE	Ms = 6.8		15.0	19.5
SSE	80.4	307	−P	04 31 19.0	0.0		
			PMZ	$m_B = 7.1$		5.0	10.0
			ePcP	04 31 24.0	−1.3		
			ePP	04 34 28.0	5.4		
			S	04 41 24.0	2.2		
			SMN	$m_B = 6.9$		10.0	10.3
			SKS	04 41 27.0	−3.1		
			SS	04 46 42.0	5.5		
			LN	Ms = 7.1		20.0	51.8
			LZ	Ms = 7.1		23.0	68.9
MDJ	81.7	322	−P	04 31 25.0	−0.9		
			PMZ	$m_B = 7.2$		7.0	17.9
			iS	04 41 38.0	0.9		
			SME	$m_B = 7.3$		12.0	30.2
NJ2	82.6	307	−iP	04 31 30.5	0.0		
			PMZ	$m_B = 7.2$		10.0	23.1
			iS	04 41 44.0	−2.1		
			LE	Ms = 6.9		16.0	24.5
GZH	83.4	297	eP	04 31 35.2	0.8		
			PMZ	$m_B = 7.3$		10.0	30.1
			PP	04 34 47.0	−0.1		
			S	04 41 58.0	5.8		
			SME	$m_B = 7.0$		10.0	13.2
			LN	Ms = 6.9		13.0	5.37
			LE			17.0	25.5
CN2	83.8	320	−iP	04 31 35.5	−0.9		
			PMZ	$m_B = 7.4$		7.0	25.4
			S	04 41 50.0	−6.0		
			SMN	$m_B = 7.3$		12.0	21.8
			SME			12.0	18.3
			SS	04 47 31.0	5.1		
DL2	83.8	314	−iP	04 31 37.0	0.6		
			SMN	$m_B = 7.6$		10.0	23.8
			SME			10.0	43.2
			LN	Ms = 7.2		16.0	50.4
			LE			12.0	5.83
SNY	83.9	317	−iP	04 31 37.0	−0.2		
			PMZ	$m_B = 7.2$		8.0	20.9
			SMN			14.0	34.8
			SME			11.0	30.1
			LN	Ms = 7.4		16.0	29.9
			LE			21.0	92.4
QZN	84.9	292	−iP	04 31 43.5	1.2		
			PMZ	$m_B = 7.3$		11.0	32.5
			PP	04 34 59.0	−0.5		
			SKS	04 41 56.0	−5.2		
			S	04 42 04.5	−3.1		
			SME	$m_B = 7.1$		12.0	17.0
			SS	04 47 49.0	5.6		
			LN	Ms = 7.4		28.0	119
			LE			27.0	55.9
WHN	85.5	304	−iP	04 31 45.0	0.1		
			PMZ	$m_B = 7.4$		6.5	25.0
			iS	04 42 16.0	1.4		
			SMN			24.0	57.6
			LN	Ms = 6.8		18.0	21.9
			LZ	Ms = 7.4		42.0	208
TIA	85.7	310	−P	04 31 46.0	−0.2		
			PP	04 35 07.0	1.2		
			S	04 42 15.0	−0.3		
			SME	$m_B = 7.3$		8.0	22.0
			LN	Ms = 7.1		18.0	32.2

			LE			18.0	24.0
			LZ	Ms=7.0		20.0	40.0
BJI	88.0	313	eP	04 31 57.0	−0.5		
			PMZ	m_B=7.2		10.0	20.9
			SME	m_B=7.6		10.0	54.8
			LN	Ms=7.0		18.0	32.6
TIY	89.8	310	−iP	04 32 06.0	0.2		
			PMZ	m_B=7.2		9.0	16.0
GYA	90.2	298	+P	04 32 09.0	0.9		
			PMZ	m_B=7.4		6.0	16.0
			S	04 42 56.0	−1.8		
			LN	Ms=7.2		20.0	34.0
			LE			20.0	43.0
XAN	91.0	305	−iP	04 32 11.7	0.0		
			PMZ	m_B=7.3		10.0	18.3
			PP	04 35 54.0	5.5		
			S	04 42 59.0	−5.8		
			SMN	m_B=7.0		10.0	6.01
			SME			10.0	12.9
			LN	Ms=7.0		16.0	10.6
			LE			16.0	28.8
HHC	91.6	313	eP	04 32 14.0	−0.3		
			LN	Ms=6.9		18.0	15.9
			LE			17.0	19.4
BTO	92.6	312	−iP	04 32 19.0	0.1		
			PMZ	m_B=7.3		6.0	8.67
			PP	04 36 00.0	−1.8		
			PPMZ	m_B=7.0		10.0	6.30
			SKS	04 42 42.0	−6.6		
			S	04 43 14.5	−3.9		
			SS	04 49 38.0	3.7		
			LN	Ms=7.1		19.0	29.2
			LE			17.0	20.9
			LZ	Ms=6.9		19.0	28.6
KMI	93.2	295	P	04 32 23.0	1.3		
			iPP	04 36 08.0	1.6		
			SKS	04 42 45.0	−6.9		
			SMN			13.0	8.30
			LE	Ms=7.1		20.0	42.3
CD2	94.1	301	eP	04 32 26.2	0.4		
			PMZ	m_B=7.3		10.0	12.2
			S	04 43 25.0	−6.6		
LZH	95.6	306	−iP	04 32 33.0	0.0		
			PMZ			2.0	1.18
			PP	04 36 21.0	−4.3		
			SKS	04 43 02.0	−3.5		
			SME	m_B=7.0		12.0	14.0
			LN	Ms=6.5		15.0	5.74
			LE			19.0	5.62
GTA	99.7	308	−P	04 32 50.4	−0.7		
			PMZ			14.0	7.83
			PP	04 36 52.0	−4.4		
			S	04 44 12.0	−6.5		
			LN	Ms=7.0		22.0	31.4
LSA	104.3	297	−iP	04 33 07.6	−4.6		
WMQ	109.4	311	eP	04 33 33.5	−0.7		
KSH	117.9	306	iPKP	04 37 57.0	4.2		
			iPP	04 39 08.0	−2.4		
			SKS	04 44 58.0	−2.5		
			SKKS	04 45 54.0			
			LN	Ms=7.4		22.0	61.0

1987 10 6
O=11 28 23.3 ± 0.06s
LAT=36.26 N ± 1.32km
LONG= 28.28 E ± 1.00km
DEPTH= 19 km ± 0.23km
STATIONS USED = 29, STAND DEV= 1.19s

WMQ	45.3	61	P	11 36 42.5	0.4	
GTA	55.2	63	−P	11 37 57.4	−0.7	
HHC	62.9	58	−P	11 38 52.5	0.9	
BJI	66.4	57	eP	11 39 14.0	−0.1	
CN2	70.5	50	eP	11 39 38.0	−1.8	
NJ2	72.3	63	eP	11 39 50.0	−0.3	

1987 10 6
O=12 58 18.9 ± 0.12s
LAT=32.23 N ± 0.78km
LONG=120.22 E ± 1.35km
DEPTH= 11 km ± 0.20km
STATIONS USED = 6, STAND DEV= 3.21s
M_L=2.9/ 6,

NJ2	1.2	262	Pn	12 58 40.3	−1.4	
			Pg	12 58 40.9	1.2	
			iSn	12 58 56.7	−2.8	
			SMN	M_L=3.1	0.1	0.32
			SME		0.1	0.32
SSE	1.4	144	Pn	12 58 42.5	−2.3	
			Pg	12 58 43.0	−0.7	
			Sn	12 59 00.0	−5.1	
			Sg	12 59 01.0	−1.9	
			SMN	M_L=3.0	0.4	0.17
			SME		0.4	0.26

1987 10 6
O=13 06 20.4 ± 0.08s
LAT=43.44 N ± 1.26km
LONG= 88.62 E ± 0.83km
DEPTH= 32 km ± 0.11km
STATIONS USED = 63, STAND DEV= 1.56s

Ms=4.4/ 5, M_L=4.7/ 6,							
WMQ	0.8	300	−iPg	13 06 35.2	0.2		
			Sg	13 06 45.0	−1.0		
GTA	9.3	112	−iP	13 08 34.0	−1.9		
			iS	13 10 14.0	−6.9		
			LN	Ms=4.6		5.5	1.31
			LE			5.0	1.10
LZH	13.8	117	eP	13 09 37.5	0.9		
BTO	16.2	93	eP	13 10 10.9	3.9		
			esP	13 10 20.0	1.2		
HHC	17.2	91	eP	13 10 21.0	0.7		
			eS	13 13 34.0	4.6		
			LN			3.0	0.43
			LE			5.0	0.28
CD2	17.3	131	eP	13 10 22.2	0.3		
XAN	18.4	114	eP	13 10 34.6	−0.1		
			LN	Ms=4.3		12.0	0.47
			LE			11.0	0.41
TIY	18.9	99	−P	13 10 41.5	−0.3		
			S	13 14 11.0	3.2		
			SS	13 14 31.0	−2.2		
			LZ	Ms=4.4		22.0	1.31
BJI	20.8	90	eP	13 11 01.0	−0.8		
KMI	21.6	143	eP	13 11 10.5	0.2		
GYA	22.4	133	P	13 11 19.6	1.6		
TIA	23.0	99	eP	13 11 24.2	0.7		
WHN	24.1	114	+P	13 11 36.0	1.2		
SNY	25.7	81	eP	13 11 48.4	−1.0		
NJ2	26.3	105	eP	13 11 55.5	−0.1		
CN2	26.5	76	eP	13 12 00.4	3.0		
SSE	28.5	105	eP	13 12 15.5	0.1		
			PMZ			1.0	0.010
			LZ	Ms=4.5		12.0	0.45

1987 10 6
O=14 29 18.0 ± 0.24s
LAT= 5.68 N ± 1.56km
LONG=125.77 E ± 0.14km
DEPTH=133 km ± 2.64km
STATIONS USED = 45, STAND DEV= 1.84s

QZH	20.4	341	eP	14 33 48.2	2.3		
			eS	14 37 26.0	4.4		
QZN	20.4	312	eP	14 33 47.5	0.9		
			sP	14 34 26.0	−2.5		
			eS	14 37 28.5	5.6		
			sS	14 38 05.0	−5.9		
XAN	32.3	333	P	14 35 34.0	−2.3		
CD2	32.5	323	P	14 35 35.8	−2.8		
BJI	35.3	347	eP	14 36 00.0	−2.1		
SNY	36.0	357	−P	14 36 09.0	0.4		
LZH	36.3	329	eP	14 36 11.5	0.2		
			LN			10.0	0.86
CN2	38.0	360	eP	14 36 22.5	−2.2		
MDJ	38.9	4	+P	14 36 33.0	0.3		
GTA	40.9	329	eP	14 36 49.0	−0.5		
WMQ	50.6	325	eP	14 38 03.5	−2.1		

1987 10 6
O=14 39 53.0 ± 0.19s
LAT=35.65 S ± 5.03km
LONG=101.07 W ± 3.88km
DEPTH= 2 km ± 1.01km
STATIONS USED = 37, STAND DEV= 2.53s

MDJ	140.8	299	ePKP	14 59 24.0	−1.7
NJ2	146.8	275	−PKP	14 59 35.0	−1.0
TIA	149.2	282	−PKP	14 59 41.2	1.3
WHN	150.0	270	PKP	14 59 43.5	2.4
BJI	150.4	290	ePKP	14 59 44.0	2.2
LZH	159.8	279	$ePKP_2$	15 00 28.0	−1.5
GTA	163.0	289	ePKP	14 59 56.3	−1.5

1987 10 6
O=16 03 39.6 ± 0.11s
LAT= 5.73 S ± 1.18km
LONG=151.60 E ± 1.91km
DEPTH= 25 km ± 0.19km
STATIONS USED = 52, STAND DEV= 1.43s
Ms=5.1/15,

QZH	44.3	315	eP	16 11 51.0	1.4		
			eS	16 18 17.0	−4.7		
			LN	Ms=4.9		17.0	0.84
SSE	46.8	323	+P	16 12 10.0	0.8		
			esP	16 12 23.0	2.3		
			sS	16 19 11.0	0.6		
			LN	Ms=5.2		18.0	1.35
			LE			18.0	0.72
GZH	47.1	309	eP	16 12 14.2	2.4		
			eS	16 19 08.0	6.1		
NJ2	48.8	322	+P	16 12 26.0	0.6		
			LE	Ms=5.1		16.0	1.10
WHN	50.7	318	P	16 12 40.0	0.1		
			LN	Ms=4.9		12.0	0.40
DL2	52.4	331	eP	16 12 48.0	−4.4		
TIA	52.8	325	eP	16 12 55.2	−0.2		
			eS	16 20 25.0	4.1		
			LE	Ms=5.2		18.0	1.19
GYA	54.0	309	P	16 13 05.0	0.2		
			S	16 20 31.0	−5.8		
			LE	Ms=5.2		18.0	1.10
BJI	56.0	328	eP	16 13 18.0	−1.1		

			LN	Ms=5.1	20.0	0.90
XAN	56.5	318	P	16 13 22.2	−0.4		
			eS	16 21 12.0	1.0		
CD2	58.4	312	eP	16 13 37.0	0.6		
HHC	59.1	325	eP	16 13 41.0	−0.2		
BTO	59.8	324	eP	16 13 46.0	−0.2		
			eS	16 21 54.0	−1.0		
			LN	Ms=5.1	16.0	0.40
			LE		16.0	0.50
LZH	61.1	317	eP	16 13 54.0	−0.6		
GTA	65.5	318	eP	16 14 22.7	−1.3		
			eS	16 23 10.0	3.4		
			LE	Ms=5.0	18.0	0.60
			LZ	Ms=5.0	20.0	0.62
WMQ	75.6	318	+P	16 15 25.0	−0.1		

1987 10 6
O=16 08 39.4 ± 0.08s
LAT=22.00 S ± 1.13km
LONG=179.45 W ± 0.36km
DEPTH=586 km ± 1.13km
STATIONS USED = 57, STAND DEV= 0.58s

QZH	76.1	304	eP	16 19 30.0	0.1		
			pP	16 21 36.0	4.5		
SSE	77.6	311	−P	16 19 38.0	0.0		
			PMZ			0.8	0.010
			sP	16 22 40.0	1.7		
GZH	79.3	300	−P	16 19 47.5	0.7		
NJ2	79.8	311	+P	16 19 50.0	0.5		
QZN	80.2	295	eP	16 19 52.0	0.2		
MDJ	81.0	326	−P	16 19 55.5	0.0		
WHN	82.3	307	−P	16 20 02.2	0.2		
SNY	82.5	321	+iP	16 20 03.3	0.1		
CN2	82.7	323	−iP	16 20 04.0	−0.1		
			pP	16 22 06.0	−2.2		
TIA	83.3	313	−P	16 20 07.4	0.2		
BJI	86.0	316	eP	16 20 20.5	0.1		
			PMZ			1.5	0.040
GYA	86.2	300	P	16 20 21.8	0.2		
TIY	87.3	313	−P	16 20 27.0	0.5		
XAN	88.0	308	−iP	16 20 30.0	0.3		
CD2	90.5	303	eP	16 20 41.8	0.5		
GTA	96.9	310	P	16 21 10.0	−0.5		

1987 10 6
O=17 11 17.1 ± 0.18s
LAT=17.99 S ± 2.58km
LONG=172.34 W ± 3.30km
DEPTH= 31 km ± 0.38km
STATIONS USED = 23, STAND DEV= 1.65s

BJI	88.0	313	eP	17 24 06.5	0.5		
TIY	89.7	310	eP	17 24 15.4	1.1		
GYA	90.1	298	P	17 24 18.4	1.9		
XAN	91.0	305	eP	17 24 21.0	0.8		
KMI	93.0	295	eP	17 24 29.0	−1.1		

1987 10 6
O=20 11 34.1 ± 0.07s
LAT=53.07 N ± 1.73km
LONG=159.81 E ± 1.06km
DEPTH= 33 km ± 0.02km
STATIONS USED =107, STAND DEV= 0.98s
Ms=6.7/64, m_B=6.2/39

MDJ	21.5	259	−P	20 16 22.5	0.4		
			pP	20 16 30.0	−0.9		
			sP	20 16 37.0	2.0		
			iS	20 20 20.0	6.2		
			LZ	Ms=6.4	13.0	60.2	
CN2	24.4	262	+iP	20 16 50.0	−0.9		
			PMZ	m_B=6.2	5.0	4.60	
			sP	20 17 00.5	−3.3		
			eS	20 21 05.0	−0.9		
			LE	Ms=6.8	14.0	153	
SNY	26.7	260	+iP	20 17 12.0	−0.3		
			PMZ	m_B=6.2	8.0	4.94	
			PP	20 18 02.0	5.5		
			S	20 21 46.0	3.2		
			SMN	m_B=6.1	10.0	3.40	
			SME		10.0	4.27	
			LE	Ms=6.7	16.0	113	
DL2	29.7	257	P	20 17 38.0	−1.3		
			S	20 22 25.0	−6.0		
			LN	Ms=7.0	14.0	148	
			LE		13.0	47.2	
BJI	32.2	264	+P	20 18 01.0	−0.6		
			ePP	20 19 04.0	−4.5		
			eS	20 23 07.0	−4.4		
			eScS	20 28 28.0	1.3		
			LN	Ms=6.9	16.0	69.2	
			LE		17.0	96.2	
TIA	34.1	258	P	20 18 17.6	−0.8		
			PMZ	m_B=6.1	8.0	2.32	
			sP	20 18 30.0	−1.5		
			SMN	m_B=6.1	10.0	3.17	
			SME		10.0	2.55	
			LN	Ms=6.9	14.0	54.7	
			LE		20.0	107	
			LZ	Ms=6.8	18.0	96.2	
HHC	34.5	269	+P	20 18 21.0	−0.5		
			sP	20 18 34.0	−0.5		

			LN	Ms=6.9	15.0	52.6
			LE		15.0	81.7
SSE	35.5	247	+iP	20 18 30.0	0.0	
			PMZ	m_B=6.3	8.0	4.71
			sP	20 18 43.0	−0.1	
			cPP	20 19 46.0	−4.1	
			S	20 24 03.0	1.3	
			SMN	m_B=5.9	10.0	2.63
			sS	20 24 16.0	−1.8	
			ScP	20 24 40.0	−0.7	
			PcS	20 24 50.0	5.4	
			eSS	20 26 28.0	6.5	
			LN	Ms=6.2	12.0	12.2
			LE		12.0	9.26
			LZ	Ms=6.5	20.0	54.2
BTO	35.6	270	+iP	20 18 30.5	−0.2	
			PMZ	m_B=6.0	9.0	2.40
			sP	20 18 43.0	−0.7	
			iPP	20 19 52.0	1.3	
			PPMZ		9.0	9.50
			S	20 24 05.0	2.2	
			SMN	m_B=5.9	10.0	1.90
			SME		10.0	1.80
			sS	20 24 23.0	4.1	
			eSS	20 26 27.0	3.8	
			ScS	20 28 44.0	−0.3	
			LN	Ms=7.0	14.0	54.0
			LE		17.0	113
			LZ	Ms=7.0	17.0	130
TIY	35.9	264	+iP	20 18 33.5	−0.3	
			PMZ	m_B=6.0	9.0	2.54
			sP	20 18 50.0	3.2	
			PPMZ		8.0	12.7
			S	20 24 11.0	2.6	
			sS	20 24 21.0	−3.6	
			ScP	20 24 38.0	−4.3	
			LE	Ms=6.6	15.0	50.8
			LZ	Ms=6.8	22.0	109
NJ2	36.1	251	+iP	20 18 35.0	−0.1	
			PMZ	m_B=6.3	6.0	3.20
			pP	20 18 42.5	−1.8	
			PP	20 19 58.0	0.8	
			PcP	20 21 02.0	1.5	
			iS	20 24 11.0	−0.8	
			LE	Ms=6.7	15.0	64.1
WHN	39.8	254	P	20 19 04.0	−2.0	
			PMZ		1.2	0.37
			sP	20 19 18.0	−1.4	
			PP	20 20 42.0	0.2	
			S	20 25 08.0	0.7	
			sS	20 25 23.0	−0.6	
			LN	Ms=6.5	14.0	29.4
			LZ	Ms=6.5	20.0	44.9
XAN	40.5	263	cP	20 19 10.7	−1.3	
			PMZ	m_B=6.0	10.0	2.67
			pP	20 19 20.0	−1.2	
			sP	20 19 25.0	−0.2	
			PP	20 20 48.0	−0.9	
			PcP	20 21 15.4	1.2	
			cS	20 25 15.0	−3.9	
			LN	Ms=6.9	14.0	47.9
			LE		14.0	60.6
QZH	41.7	244	+iP	20 19 23.0	1.1	
			PMZ	m_B=6.5	7.0	5.94
			sP	20 19 38.0	2.8	
			PP	20 21 02.0	0.1	
			PcP	20 21 16.0	−2.2	
			PcS	20 25 12.0	3.7	
			S	20 25 36.0	0.2	
			SMN	m_B=6.1	11.0	3.89
			sS	20 25 55.0	2.9	
			LN	Ms=6.1	14.0	12.7
LZH	42.2	269	+iP	20 19 26.5	0.6	
			PMZ	m_B=6.2	8.0	3.11
			sP	20 19 37.0	−2.0	
			PP	20 21 06.0	−0.6	
			eS	20 25 46.0	2.1	
			LN	Ms=6.8	13.0	29.0
			LE		16.0	59.2
GTA	42.4	276	+iP	20 19 28.8	0.7	
			S	20 25 48.0	1.5	
			LN	Ms=6.6	15.0	38.2
			LZ	Ms=6.6	14.0	36.7
CD2	45.8	264	eP	20 19 55.6	0.6	
			S	20 26 34.0	−1.1	
			LN	Ms=6.8	15.0	51.5
			LZ	Ms=6.6	16.0	35.6
GZH	46.1	248	+iP	20 19 57.5	0.3	
			sP	20 20 14.0	3.5	
			S	20 26 40.0	0.9	
			SMN	m_B=6.2	10.0	2.54
			SME		12.0	2.40
			sS	20 26 55.0	−0.6	
			LN	Ms=6.6	16.0	22.3
			LE		15.0	27.5
WMQ	46.8	289	+iP	20 20 03.6	0.5	
			PMZ		1.5	0.28
			sP	20 20 17.0	0.7	
			PP	20 21 56.0	3.5	
			S	20 26 54.0	4.4	

			ScS	20 29 52.0	0.3			
			LN	Ms=6.7		21.0	61.4	
GYA	47.3	257	+P	20 20 07.0	−0.1			
			PMZ	m_B=6.4		6.0	3.50	
			sP	20 20 24.0	3.7			
			PP	20 22 00.0	2.8			
			PcP	20 21 38.0	0.6			
			ScP	20 25 31.0	3.7			
			S	20 26 54.0	−2.8			
			LN	Ms=6.7		21.0	39.1	
			LE			21.0	35.8	
KMI	50.7	260	+P	20 20 32.5	−0.4			
			PMZ	m_B=6.4		6.0	3.05	
			pP	20 20 45.0	3.0			
			sP	20 20 51.0	5.1			
			PP	20 22 26.0	−2.8			
			iS	20 27 42.0	−2.8			
			sS	20 28 02.0	2.0			
			ScS	20 30 18.0	0.9			
			SS	20 31 16.0	0.9			
			LN	Ms=6.8		17.0	49.6	
QZN	51.3	248	+iP	20 20 39.5	2.1			
			PMZ	m_B=6.7		7.0	6.60	
			sP	20 20 54.0	3.4			
			PcP	20 21 53.5	1.8			
			S	20 27 54.5	2.7			
			SMN	m_B=6.3		10.0	3.50	
			SME			11.0	3.00	
			sS	20 28 13.5	5.0			
			ScS	20 30 19.0	−2.3			
			LN	Ms=6.5		16.0	18.6	
			LE			13.5	8.50	
LSA	54.3	273	+P	20 20 59.3	−0.9			
KSH	56.3	292	+iP	20 21 14.0	−0.6			
			PcP	20 22 12.0	1.2			
			cS	20 28 56.0	−5.3			
			sS	20 29 13.0	−3.6			
			LE	Ms=7.0		15.0	53.3	

1987 10 6

O=22 01 59.1 ± 0.06s
LAT= 6.51 N ± 0.71km
LONG=126.93 E ± 1.19km
DEPTH=194 km ± 0.53km
STATIONS USED = 55, STAND DEV= 0.81s

QZH	20.0	337	cP	22 06 18.5	−0.2
QZN	20.8	308	cP	22 06 25.4	−1.0
GZH	21.0	323	P	22 06 29.4	0.3
SSE	25.0	348	P	22 07 08.0	0.6
			pP	22 07 43.0	−2.2
NJ2	26.5	344	−P	22 07 20.5	−0.4
WHN	26.7	335	P	22 07 23.0	0.6
TIA	30.9	344	eP	22 07 59.3	−0.8
XAN	32.1	331	+iP	22 08 09.5	−0.8
CD2	32.6	321	eP	22 08 14.0	−0.7
DL2	32.6	352	eP	22 08 16.5	1.7
TIY	33.7	339	+P	22 08 24.8	0.1
BJI	34.8	345	eP	22 08 33.5	0.3
SNY	35.3	356	eP	22 08 38.3	0.6
LZH	36.3	328	P	22 08 47.0	1.0
HHC	36.9	340	+P	22 08 52.0	1.0
MDJ	38.0	3	eP	22 09 01.0	0.3
GTA	40.9	327	+P	22 09 24.6	0.5
WMQ	50.6	324	eP	22 10 42.0	1.4

1987 10 6

O=22 18 17.5 ± 0.10s
LAT=29.84 N ± 1.22km
LONG= 90.52 E ± 1.08km
DEPTH= 9 km ± 0.07km
STATIONS USED = 62, STAND DEV= 1.61s
Ms=5.0/36, m_B=5.1/ 1

LSA	0.6	104	+iPg	22 18 27.4	−0.6	
			Sg	22 18 35.5	0.2	
			LE		5.0	19.4
CD2	11.5	81	cP	22 21 05.6	0.6	
			LE	Ms=5.3	7.0	6.87
KMI	11.8	111	eP	22 21 07.0	−2.7	
			sP	22 21 19.5	2.4	
			LN	Ms=4.8	11.0	3.40
GTA	12.2	36	cP	22 21 14.1	−1.1	
			cS	22 23 28.0	−4.9	
			LN	Ms=4.9	10.0	3.80
			LE		14.0	3.20
			LZ	Ms=4.9	10.0	4.10
LZH	12.8	57	eP	22 21 22.5	−0.4	
			LN	Ms=5.0	9.0	2.06
			LE		9.0	3.43
WMQ	14.1	352	P	22 21 40.8	0.4	
			LE	Ms=4.8	10.0	2.32
GYA	14.6	99	P	22 21 47.6	0.6	
			S	22 24 29.8	0.1	
			LN	Ms=4.9	10.0	1.00
			LE		10.0	2.50
KSH	15.3	313	−P	22 21 57.0	1.0	
			PP	22 22 09.0	1.3	
			cS	22 24 50.0	3.2	
			LE	Ms=5.1	10.0	4.70
XAN	16.2	70	P	22 22 05.5	−1.4	
			LN	Ms=5.0	12.0	3.85

BTO	19.2	51	eP	22 22 43.5	−0.7		
			eS	22 26 11.0	−3.9		
			LN	Ms=4.8		11.0	1.10
			LE			12.0	1.10
			LZ	Ms=4.6		12.0	1.10
TIY	19.8	61	+P	22 22 50.8	−0.7		
			LE	Ms=5.2		20.0	7.51
QZN	20.6	117	P	22 23 00.0	0.3		
			S	22 26 41.0	−3.5		
			LN	Ms=4.5		10.0	0.70
WHN	20.6	82	P	22 23 00.0	0.2		
			LN	Ms=5.1		10.0	2.50
			LZ	Ms=5.1		12.0	3.20
GZH	21.5	103	P	22 23 10.0	1.1		
			eS	22 27 07.0	4.5		
TIA	23.2	67	eP	22 23 26.0	0.5		
			LN	Ms=5.0		11.0	1.75
			LE			11.0	0.59
BJI	23.3	57	eP	22 23 28.0	1.2		
			S	22 27 39.0	4.4		
			SME	m_B=5.1		9.0	0.73
			LN	Ms=4.7		10.0	0.83
NJ2	24.4	78	−P	22 23 38.0	0.7		
			LE	Ms=4.9		10.0	1.30
QZH	25.4	94	eP	22 23 48.0	1.2		
			eS	22 28 13.5	2.6		
			LE	Ms=5.0		9.0	1.33
SSE	26.4	79	P	22 23 57.0	0.3		
			PMZ			1.0	0.010
			S	22 28 28.0	0.4		
			SS	22 29 42.0	5.4		
			LN	Ms=5.1		8.0	0.63
			LE			8.0	1.18
CN2	31.0	54	eP	22 24 37.0	−0.8		
			eS	22 29 40.0	−1.6		
			LZ	Ms=5.0		14.0	1.50

1987 10 6
O=23 13 35.4 ± 0.08s
LAT= 6.21 S ± 0.99km
LONG=154.88 E ± 1.46km
DEPTH= 65 km ± 0.37km
STATIONS USED = 43, STAND DEV= 1.15s

QZN	51.0	300	−iP	23 22 34.6	1.6		
WHN	53.3	316	P	23 22 50.5	0.0		
GYA	56.9	307	P	23 23 16.8	0.1		
BJI	58.2	326	eP	23 23 30.0	4.2		
XAN	59.1	316	P	23 23 30.5	−1.3		
CD2	61.2	310	eP	23 23 46.0	−0.5		
GTA	68.1	317	eP	23 24 30.6	−0.6		
WMQ	78.2	317	P	23 25 30.5	0.3		

1987 10 7
O=00 28 09.1 ± 0.03s
LAT=32.66 N ± 0.24km
LONG=105.34 E ± 0.31km
DEPTH= 12 km ± 0.14km
STATIONS USED = 5, STAND DEV= 1.75s
M_L=2.9 / 4,

CD2	2.2	218	eP	00 28 45.8	−0.4		
			Pg	00 28 48.8	0.8		
			Sg	00 29 18.0	−0.2		
			SMN	M_L=3.1		0.5	0.24
			SME			0.4	0.050
XAN	3.3	64	ePn	00 29 02.1	1.0		
			Pg	00 29 07.4	0.0		
			Sn	00 29 37.0	−5.1		
			SMN	M_L=2.7		0.4	0.030
			SME			0.4	0.020

1987 10 7
O=00 51 36.1 ± 0.21s
LAT=22.89 S ± 2.41km
LONG= 68.09 W ± 1.41km
DEPTH= 99 km ± 1.68km
STATIONS USED = 77, STAND DEV= 1.47s
m_B=5.8 / 2

KSH	145.4	53	−iPKP	01 11 04.0	0.3		
			sPKP	01 11 37.0			
WMQ	151.1	38	PKP	01 11 13.0	0.1		
MDJ	153.9	330	ePKP	01 11 16.0	−0.7		
CN2	156.3	335	−PKP	01 11 19.0	−1.0		
			pPKP	01 11 46.0	−0.1		
			PPMZ	m_B=5.7		4.0	0.30
SNY	158.7	335	ePKP	01 11 18.5	−4.5		
GTA	160.6	29	PKP	01 11 25.3	0.1		
			PKP_2	01 13 15.0			
HHC	162.1	1	ePKP	01 11 27.7	1.0		
BTO	162.3	5	−PKP	01 11 27.5	0.7		
			sPKP	01 12 04.0			
			ePP	01 15 54.0	−6.2		
BJI	162.5	349	PKP	01 11 27.5	0.6		
			sPKP	01 12 03.5			
			PKP_2	01 12 14.5			
			PP	01 15 56.0	−5.3		
			SS	01 36 06.0	−6.6		
LZH	165.1	26	−PKP	01 11 30.5	0.8		
			PKP_2	01 12 28.0			
TIY	165.2	358	−iPKP	01 11 30.0	0.3		
			sPKP	01 12 07.0			

			PKP_2	01 12 27.5			
			PP	01 16 10.0	−5.9		
			SKKS	01 22 50.5			
			SS	01 36 36.0	−4.8		
			LZ			34.0	0.69
TIA	166.0	342	ePKP	01 11 30.1	−0.2		
			PKP_2	01 12 30.8			
SSE	168.4	317	−PKP	01 11 32.5	0.6		
			PKP_2	01 12 41.5			
XAN	168.6	13	−iPKP	01 11 32.4	0.3		
			PKP_2	01 12 41.5			
NJ2	169.0	327	−PKP	01 11 31.5	−0.7		
			PKP_2	01 12 44.0			
			PP	01 16 33.0	−1.8		
CD2	169.2	41	ePKP	01 11 32.8	0.4		
KMI	171.3	73	−PKP	01 11 34.0	0.1		
			sPKP	01 12 10.0			
WHN	172.1	345	PKP	01 11 34.5	0.4		
			PP	01 16 46.5	−3.7		
			PPMZ	$m_B=5.8$		5.0	0.56
QZH	173.6	290	PKP	01 11 35.5	−0.8		
			PP	01 16 56.0	−1.6		
GYA	174.0	52	−PKP	01 11 35.0	−2.0		
QZN	175.7	153	PKP	01 11 36.5	1.1		
GZH	178.7	279	ePKP	01 11 34.0	−1.8		
			PKP_2	01 13 28.8			
			PP	01 17 19.5	−2.8		
			SS	01 38 52.0	1.4		

1987 10 7
O=03 18 29.7 ± 0.03s
LAT=43.98 N ± 0.30km
LONG= 84.71 E ± 0.24km
DEPTH= 7 km ± 0.15km
STATIONS USED = 5, STAND DEV= 1.53s
M_L=3.1/ 5,

WMQ	2.2	93	Pn	03 19 07.0	0.3		
			Sg	03 19 37.0	−0.7		
			SME	$M_L=3.1$		0.7	0.14

1987 10 7
O=05 00 33.2 ± 0.08s
LAT=36.33 N ± 0.64km
LONG=111.33 E + 0.86km
DEPTH= 25 km ± 0.12km
STATIONS USED = 11, STAND DEV= 2.26s
M_L=3.2/ 9,

TIY	1.6	32	Pg	05 01 01.5	−1.1		
			Sg	05 01 21.6	−3.5		
			SMN	$M_L=3.2$		0.3	0.20
			SME			0.3	0.38
XAN	3.0	222	+Pn	05 01 21.5	1.6		
			Pg	05 01 29.6	3.0		
			Sn	05 01 59.0	2.1		
HHC	4.5	2	Pg	05 01 54.6	1.3		
			Sg	05 02 50.6	−4.3		
			SMN	$M_L=3.4$		0.6	0.050
			SME			0.6	0.060
TIA	4.7	90	cPg	05 01 57.5	1.5		
			SMN	$M_L=3.0$		0.5	0.020
			SMZ	$M_L=3.1$		0.5	0.020

1987 10 7
O=06 18 57.0 ± 0.07s
LAT=44.83 N ± 1.89km
LONG=150.22 E ± 1.35km
DEPTH= 46 km ± 0.67km
STATIONS USED = 95, STAND DEV= 1.13s
Ms=5.0/40, m_B=5.5/ 7

MDJ	14.7	276	+P	06 22 23.0	−0.5		
			pP	06 22 34.0	1.9		
			sP	06 22 42.0	3.9		
			eS	06 25 04.0	−0.9		
			LZ	Ms=4.6		14.0	2.10
CN2	17.7	275	eP	06 22 59.5	−3.1		
			pP	06 23 09.5	−2.3		
			eS	06 26 10.0	−5.9		
			LZ	Ms=5.3		16.0	7.90
SNY	19.6	271	+iP	06 23 23.5	−0.7		
			PMZ	$m_B=5.5$		5.0	1.13
			pP	06 23 35.0	0.8		
			eS	06 26 55.0	−2.2		
			LN	Ms=4.7		12.0	1.21
			LE			12.0	0.78
			LZ	Ms=4.9		20.0	3.99
DL2	22.0	264	P	06 23 49.5	0.0		
			LN	Ms=4.7		11.0	1.00
			LE			15.0	0.87
BJI	25.5	271	eP	06 24 23.5	0.8		
			PMZ	$m_B=5.5$		4.0	0.53
			pP	06 24 37.0	3.1		
			SME	$m_B=5.3$		12.0	1.08
			LN	Ms=4.8		14.0	1.31
TIA	26.4	263	−P	06 24 32.2	0.3		
			pP	06 24 40.0	−3.1		
			LN	Ms=4.8		12.0	0.55
			LE			12.0	0.81
			LZ	Ms=4.9		12.0	1.21
SSE	26.5	249	+P	06 24 33.5	1.0		
			PMZ			1.0	0.060

			pP	06 24 46.0	2.2		
			LN	Ms=5.1		20.0	3.24
			LE			20.0	1.88
NJ2	27.5	253	+P	06 24 41.5	−0.1		
			pP	06 24 51.0	−1.8		
			sP	06 24 57.0	−0.9		
			LN	Ms=5.2		15.5	3.50
HHC	28.4	276	+P	06 24 50.8	0.6		
			eS	06 29 32.0	−0.7		
			LN	Ms=5.2		12.0	1.81
			LE			16.0	1.81
TIY	29.1	269	+iP	06 24 56.5	0.7		
			PMZ			1.0	0.070
			eS	06 29 48.5	5.8		
			LZ	Ms=5.0		20.0	2.24
BTO	29.6	276	P	06 25 01.0	0.3		
			epP	06 25 12.5	0.5		
			ePP	06 25 59.0	2.0		
			eS	06 29 51.0	−0.6		
			LN	Ms=5.1		14.0	1.60
			LE			15.0	1.70
			LZ	Ms=5.0		15.0	1.90
WHN	31.5	255	−iP	06 25 16.5	−0.6		
			PMZ			0.7	0.10
			ipP	06 25 28.5	0.1		
			S	06 30 22.0	2.3		
			LN	Ms=5.0		16.0	1.70
			LZ	Ms=5.2		18.0	2.70
QZH	32.4	243	P	06 25 24.0	−0.7		
			pP	06 25 37.0	0.9		
			S	06 30 39.0	5.6		
			LE	Ms=4.8		16.0	1.10
XAN	33.3	266	+P	06 25 32.6	−0.7		
			eS	06 30 50.5	0.8		
			LE	Ms=4.7		13.0	0.58
LZH	35.9	272	+P	06 25 56.5	0.8		
			PMZ			1.0	0.36
			pP	06 26 04.0	−3.1		
			eS	06 31 28.0	−2.0		
GZH	37.0	247	eP	06 26 06.2	1.4		
			eS	06 31 50.0	3.2		
			LN	Ms=5.4		18.0	3.43
GTA	37.3	280	+P	06 26 07.6	0.6		
			eS	06 31 54.0	3.2		
CD2	38.7	265	+iP	06 26 18.4	−0.3		
GYA	39.3	257	+P	06 26 23.6	−0.3		
			sP	06 26 39.8	−0.7		
			PcP	06 28 32.8	1.3		
			S	06 32 22.4	2.1		
			LN	Ms=5.4		16.0	1.80

			LE			16.0	2.10
QZN	42.2	246	P	06 26 49.0	1.2		
KMI	42.9	259	+P	06 26 54.0	0.5		
			pP	06 27 07.0	2.0		
			S	06 33 19.0	5.7		
WMQ	43.7	292	P	06 27 02.1	1.8		
			PMZ			1.0	0.080
			pP	06 27 11.7	−0.2		
			sP	06 27 18.5	1.6		
			LN	Ms=5.5		16.0	2.86
KSH	53.5	292	+iP	06 28 17.0	0.9		
			pP	06 28 29.5	1.6		
			PP	06 30 17.0	−0.2		
			S	06 35 45.0	2.1		
			sS	06 36 07.0	2.6		
			LN	Ms=5.5		12.0	1.60

1987 10 7
O=06 42 35.3 ± 0.12s
LAT=27.59 N ± 1.80km
LONG=129.58 E ± 1.85km
DEPTH= 33 km ± 0.44km
STATIONS USED = 44, STAND DEV= 1.93s
Ms=4.1/ 6,

SSE	8.1	297	+P	06 44 34.6	0.8		
			PMZ			1.0	0.020
			pP	06 44 40.0	−0.6		
			LZ	Ms=4.2		16.0	2.67
QZH	10.2	257	eP	06 45 01.5	−1.3		
			LE	Ms=4.0		16.0	1.19
NJ2	10.3	298	−P	06 45 05.5	1.2		
WHN	13.6	286	P	06 45 54.5	5.5		
SNY	15.0	342	+P	06 46 09.5	2.3		
BJI	16.7	322	eP	06 46 29.5	1.5		
TIY	17.6	309	eP	06 46 41.7	1.9		
			S	06 49 50.0	−2.0		
			sS	06 50 05.0	0.5		
			LN	Ms=4.5		13.0	0.63
			LE			13.0	0.94
XAN	18.9	295	+P	06 46 53.7	−1.8		
HHC	19.9	316	eP	06 47 06.0	−0.9		
GYA	20.4	272	P	06 47 13.4	0.4		
BTO	20.7	314	eP	06 47 14.2	−1.4		
CD2	22.8	285	eP	06 47 33.4	−2.8		
LZH	23.4	298	eP	06 47 42.0	−0.6		
KMI	24.2	270	+P	06 47 50.5	0.5		
GTA	27.4	303	eP	06 48 17.6	−2.3		

1987 10 7
O=19 21 13.9 ± 0.10s

LAT=17.43 S ± 1.90km
LONG=172.07 W ± 2.42km
DEPTH= 33 km ± 0.18km
STATIONS USED = 27, STAND DEV= 1.19s

WHN	85.3	304	eP	19 33 50.5	0.9		
BJI	87.8	313	eP	19 34 02.0	0.2		
TIY	89.5	310	−P	19 34 11.0	0.8		
GYA	90.1	298	P	19 34 13.6	0.6		
XAN	90.8	305	eP	19 34 16.0	−0.4		
KMI	93.0	295	+P	19 34 27.5	0.8		

1987 10 7
O=19 54 34.3 ± 0.11s
LAT=30.90 N ± 0.75km
LONG= 51.25 E ± 0.86km
DEPTH= 46 km ± 0.64km
STATIONS USED = 24, STAND DEV= 0.97s

WMQ	31.5	56	eP	20 00 54.1	−0.1		
GTA	40.2	64	eP	20 02 09.2	0.7		
KMI	45.5	84	eP	20 02 50.5	−1.2		
XAN	48.2	70	eP	20 03 12.3	−0.6		
GYA	48.4	81	P	20 03 15.0	0.5		

1987 10 7
O=21 15 18.0 ± 0.08s
LAT= 9.02 N ± 1.03km
LONG=126.49 E ± 1.62km
DEPTH= 73 km ± 0.50km
STATIONS USED = 49, STAND DEV= 1.23s
Ms=4.1/ 1,

QZN	19.0	303	cP	21 19 35.8	−0.4		
			cS	21 23 04.0	2.3		
SSE	22.5	348	+P	21 20 13.0	0.2		
			PMZ			1.0	0.030
			sP	21 20 35.0	−3.2		
			cS	21 24 12.0	1.7		
			sS	21 24 35.0	−2.6		
			LZ	Ms=4.1		24.0	0.51
NJ2	24.0	344	cP	21 20 27.0	−0.1		
GYA	25.6	315	P	21 20 45.6	3.2		
KMI	27.7	308	eP	21 21 02.0	−0.1		
XAN	29.7	330	eP	21 21 16.7	−2.9		
BJI	32.2	345	eP	21 21 40.5	−1.4		
SNY	32.8	356	+iP	21 21 46.5	−0.2		
LZH	33.9	326	eP	21 22 00.0	3.2		
BTO	34.7	338	eP	21 22 02.0	−1.3		
MDJ	35.6	4	eP	21 22 10.7	0.1		
GTA	38.5	326	eP	21 22 34.4	−1.2		
WMQ	48.3	323	P	21 23 54.3	−0.4		

1987 10 7
O=22 29 24.0 ± 0.12s
LAT= 6.29 N ± 1.90km
LONG= 37.76 E ± 1.84km
DEPTH= 9 km ± 0.16km
STATIONS USED = 35, STAND DEV= 1.12s
Ms=5.2/ 3,

KSH	47.7	40	eP	22 38 03.0	−0.3		
			ePP	22 39 53.0	−0.3		
			LN	Ms=5.2		11.0	1.00
WMQ	57.4	41	P	22 39 15.7	−0.5		
GTA	64.6	49	eP	22 40 03.8	−0.7		
KMI	64.7	65	+P	22 40 05.5	−0.2		
CD2	66.2	59	eP	22 40 13.8	−1.4		
LZH	67.0	54	eP	22 40 20.0	−0.5		
			PMZ			2.5	0.040
GYA	68.4	64	P	22 40 28.0	−0.7		
XAN	70.9	56	eP	22 40 43.4	−0.9		
BJI	77.1	50	eP	22 41 20.0	−0.4		
CN2	84.0	47	−P	22 41 57.5	0.3		
			eS	22 52 17.0	−3.7		
			LZ	Ms=5.3		15.0	0.60

1987 10 8
O=02 30 42.4 ± 0.05s
LAT=43.54 N ± 1.37km
LONG=142.16 E ± 0.83km
DEPTH=184 km ± 0.73km
STATIONS USED =103, STAND DEV= 1.11s
m_B=5.3/10

MDJ	9.1	281	−iP	02 32 51.8	0.4		
			iS	02 34 35.0	2.9		
CN2	12.1	277	−iP	02 33 29.5	−0.7		
			PMZ	m_B=5.3		4.0	0.50
			sP	02 34 15.0	−0.7		
			S	02 35 43.0	1.3		
SNY	13.8	269	−iP	02 33 51.0	−0.4		
			sP	02 34 37.0	−1.3		
			S	02 36 24.0	4.0		
			LE			16.0	0.41
			LZ			14.0	0.47
DL2	16.1	260	P	02 34 19.0	−1.4		
			eS	02 37 16.0	2.7		
BJI	19.7	269	+P	02 34 58.0	−1.3		
			sP	02 35 51.0	−2.8		
			eS	02 38 29.0	2.7		
			SME	m_B=5.6		7.0	1.67
TIA	20.5	258	−P	02 35 06.7	−1.3		
			eS	02 38 39.5	−2.7		
			SMN	m_B=5.4		9.0	1.03

			SME			9.0	0.88
SSE	20.7	240	eP	02 35 10.0	−0.1		
			S	02 38 48.0	2.6		
			SMN	$m_B = 5.3$		10.0	1.09
			SME			10.0	0.71
			LN			16.0	0.44
			LE			16.0	0.54
NJ2	21.6	246	+P	02 35 18.2	−0.6		
			S	02 39 04.0	2.6		
HHC	22.8	274	eP	02 35 30.2	0.1		
			S	02 39 27.0	5.9		
TIY	23.2	266	eP	02 35 33.9	−0.6		
			SMN	$m_B = 5.3$		8.0	0.45
			SME			8.5	0.99
BTO	24.0	274	P	02 35 42.5	0.9		
			cpP	02 36 17.0	0.0		
			cS	02 39 44.5	2.2		
WHN	25.6	249	P	02 35 57.0	0.5		
			pP	02 36 31.0	−1.8		
			S	02 40 09.0	0.8		
			SMN	$m_B = 5.3$		10.0	1.80
QZH	26.8	234	−P	02 36 11.3	4.0		
XAN	27.4	261	−P	02 36 13.4	−0.2		
LZH	30.2	269	P	02 36 38.5	0.6		
			PMZ			1.5	0.10
			eS	02 41 22.0	−0.5		
GTA	31.7	277	+iP	02 36 51.2	−0.6		
GYA	33.4	251	P	02 37 05.6	−0.3		
			PcP	02 39 42.2	−0.4		
			S	02 42 11.0	−0.8		
			ScS	02 47 09.0	0.8		
QZN	36.5	238	cP	02 37 34.0	1.9		
			cS	02 43 07.0	6.6		
KMI	37.0	253	+P	02 37 36.5	0.3		
WMQ	38.8	290	+P	02 37 52.1	0.9		
			PcP	02 39 59.5	0.8		
			S	02 43 35.5	1.6		
			SMN			1.5	0.040
KSH	48.6	289	cP	02 39 10.0	0.4		

1987 10 8
O = 03 20 45.1 ± 0.11s
LAT = 19.68 S ± 1.93km
LONG = 173.02 W ± 1.97km
DEPTH = 38 km ± 0.47km
STATIONS USED = 90, STAND DEV = 1.26s
Ms = 6.0 / 45, $m_B = 6.4 / 34$

QZH	79.9	301	+P	03 32 52.0	−0.7		
			iS	03 42 54.5	1.9		
			SMN			14.0	7.09
			SME			12.0	5.54
			SS	03 48 10.0	6.0		
			LE	Ms = 5.9		20.0	3.14
SSE	80.8	308	−iP	03 32 58.6	1.2		
			PMZ			1.0	0.10
			S	03 42 56.0	−4.2		
			SKS	03 43 04.0	−2.9		
			sS	03 43 20.0	0.4		
			LN	Ms = 5.8		20.0	1.84
			LE			20.0	1.99
MDJ	82.6	323	+iP	03 33 06.5	−0.2		
			iS	03 43 22.0	1.7		
			SMN	$m_B = 6.3$		12.0	3.10
			LZ	Ms = 6.3		25.0	9.80
NJ2	83.0	307	+iP	03 33 08.0	−0.8		
			iS	03 43 30.0	5.6		
			SMN	$m_B = 6.5$		10.5	3.70
			LE	Ms = 6.0		21.0	4.20
GZH	83.5	297	eP	03 33 12.0	1.0		
			S	03 43 33.0	6.0		
			SMN	$m_B = 6.6$		10.0	3.36
			SME			8.0	2.56
DL2	84.4	315	P	03 33 15.0	−0.8		
			S	03 43 42.0	5.4		
			LN	Ms = 6.1		18.0	3.53
			LE			18.0	2.71
CN2	84.6	320	+iP	03 33 16.0	−0.7		
			PMZ	$m_B = 6.4$		6.0	2.30
			eS	03 43 37.0	−2.9		
			SMN	$m_B = 6.4$		11.0	3.70
			LZ	Ms = 6.5		24.0	13.6
SNY	84.7	318	+iP	03 33 16.5	−0.6		
			PMZ			18.0	3.91
			iS	03 43 47.0	6.3		
			SMN	$m_B = 6.6$		11.0	4.72
			SME			9.0	2.33
			LN	Ms = 6.1		32.0	6.61
			LE			38.0	5.12
			LZ	Ms = 6.0		40.0	7.61
QZN	84.8	292	P	03 33 18.5	0.5		
			sP	03 33 30.0	−2.8		
			cPP	03 36 36.0	0.9		
			S	03 43 41.5	0.8		
			SMN	$m_B = 6.1$		12.0	2.00
			SS	03 49 16.5	0.0		
			LE	Ms = 6.0		22.0	4.30
WHN	85.8	304	+P	03 33 23.0	0.4		
			PMZ			1.2	0.21
			iS	03 43 56.0	4.4		
			SMN	$m_B = 6.7$		10.0	6.30

			SME			9.0	2.70
			LZ	Ms=6.0		22.0	3.90
TIA	86.2	310	+P	03 33 24.7	−0.2		
			PMZ	m_B=6.4		8.0	2.61
			eS	03 43 53.7	−2.4		
			SMN	m_B=6.3		11.0	2.15
			SME			8.0	1.60
			LE	Ms=5.9		20.0	2.89
BJI	88.7	314	+P	03 33 37.0	0.5		
			eS	03 44 19.0	0.1		
			SMN			13.0	4.27
			SME			12.0	3.33
			eSS	03 50 08.0	−4.0		
			LN	Ms=6.2		36.0	8.14
			LE			23.0	4.80
			LZ	Ms=6.0		20.0	3.40
TIY	90.3	310	+P	03 33 44.5	0.3		
			PP	03 37 15.0	−4.4		
			SKS	03 44 09.0	−0.1		
			S	03 44 27.0	−5.0		
			LE	Ms=6.2		22.0	6.13
GYA	90.4	298	+P	03 33 45.0	0.3		
			pP	03 33 55.0	−0.2		
			SKS	03 44 14.0	4.4		
			LN	Ms=5.9		24.0	2.00
			LE			24.0	2.60
XAN	91.4	306	+P	03 33 49.5	0.0		
			eSKS	03 44 17.5	1.8		
			S	03 44 42.5	0.5		
			SMN	m_B=6.6		10.0	4.29
			SME			10.0	3.02
			LE	Ms=5.9		19.0	2.37
HHC	92.2	313	cP	03 33 53.0	−0.2		
BTO	93.2	312	+P	03 33 57.5	−0.1		
			PP	03 37 42.0	−0.6		
			cSKS	03 44 31.0	5.4		
			S	03 44 57.0	−0.4		
			SMN	m_B=6.3		12.0	2.70
			SME			11.0	1.00
			LN	Ms=6.1		17.0	1.40
			LE			18.0	3.80
			LZ	Ms=6.2		18.0	4.70
KMI	93.2	295	+P	03 33 59.0	1.1		
			pP	03 34 12.0	3.7		
			SKS	03 44 30.0	4.2		
			LE	Ms=6.3		24.0	8.40
CD2	94.3	301	P	03 34 05.0	2.1		
			LN	Ms=6.1		10.0	2.00
LZH	96.0	306	cP	03 34 11.0	0.3		
			PMZ			1.5	0.18
			cS	03 45 25.0	1.0		
			LN	Ms=5.9		30.0	1.96
			LE			38.0	4.53
GTA	100.1	308	cP	03 34 28.0	−1.3		
			cPP	03 38 34.0	−2.3		
			cS	03 46 02.0	3.7		
			SMN			22.0	1.60
			LE	Ms=6.3		26.0	7.70
			LZ	Ms=6.4		25.0	8.98
LSA	104.4	297	cP	03 34 50.0	1.4		

1987 10 8
O=03 24 12.6 ± 0.01s
LAT=36.53 N ± 0.09km
LONG=105.42 E ± 0.09km
DEPTH= 10 km ± 0.00km
STATIONS USED = 5, STAND DEV= 0.81s
M_L=2.8/ 4,

LZH	1.3	251	Pg	03 24 36.0	−0.7		
			Sg	03 24 54.0	−0.9		
			SMN	M_L=2.9		0.5	0.18
			SME			0.5	0.19
XAN	3.8	130	Pg	03 25 19.5	−0.2		
			Sg	03 26 06.4	−5.1		

1987 10 8
O=04 42 12.8 ± 0.07s
LAT=53.02 N ± 1.74km
LONG=160.01 E ± 1.24km
DEPTH= 32 km ± 0.14km
STATIONS USED = 35, STAND DEV= 0.95s

MDJ	21.6	259	cP	04 47 01.6	−0.4		
CN2	24.5	262	cP	04 47 29.0	−1.8		
NJ2	36.2	251	cP	04 49 14.5	−0.2		
GTA	42.6	276	cP	04 50 08.2	0.3		
WMQ	46.9	289	P	04 50 43.5	0.5		
GYA	47.4	258	P	04 50 46.2	−0.6		
QZN	51.4	248	cP	04 51 18.8	1.9		

1987 10 8
O=08 24 57.4 ± 0.09s
LAT=36.42 N ± 1.15km
LONG=105.24 E ± 0.68km
DEPTH= 9 km ± 0.21km
STATIONS USED = 11, STAND DEV= 2.58s
M_L=3.3/ 11,

LZH	1.2	254	Pg	08 25 20.0	1.6		
			Sg	08 25 38.0	3.8		
			SMN	M_L=3.4		0.5	0.66
			SME			1.0	0.76

XAN	3.8	127	Pg	08 26 03.6	−1.7		
			Sg	08 26 53.2	−4.4		
GTA	5.2	306	cPn	08 26 15.0	−1.2		
			Pg	08 26 32.0	2.4		
			Sn	08 27 16.4	−2.2		
			Sg	08 27 39.5	−1.6		
			SMN	M_L=3.1		0.8	0.020
			SME			0.8	0.020
TIY	5.9	75	Pg	08 26 44.6	2.9		
			SMN	M_L=3.6		0.5	0.050
			SME			0.8	0.040

1987 10 8
O=08 51 10.0 ± 0.10s
LAT=14.29 N ± 1.76km
LONG=124.35 E ± 1.89km
DEPTH= 13 km ± 0.24km
STATIONS USED = 69, STAND DEV= 1.55s
Ms=4.5/27, m_B=5.1/ 3

QZH	11.9	334	eP	08 54 05.0	2.3		
			eS	08 56 21.0	4.5		
			LN	Ms=4.1		26.0	1.69
GZH	13.6	312	eP	08 54 25.5	0.1		
QZN	14.7	291	eP	08 54 38.7	−0.8		
			eS	08 57 22.0	−1.0		
			SS	08 57 38.0	−1.3		
			LN	Ms=4.5		19.0	2.10
SSE	17.0	351	P	08 55 09.0	−0.2		
			sS	08 58 22.0	−2.9		
			SS	08 58 37.0	0.2		
			LE	Ms=4.2		12.0	0.55
NJ2	18.4	345	eP	08 55 25.0	−1.6		
			S	08 58 53.0	4.8		
			LE	Ms=4.4		10.0	0.60
WHN	18.6	332	P	08 55 29.5	0.0		
			pP	08 55 36.0	1.7		
			S	08 59 00.0	6.6		
			SMN	m_B=5.1		8.0	0.80
			LN	Ms=4.4		12.0	0.80
			LZ	Ms=4.2		24.0	1.00
GYA	20.5	309	P	08 55 50.6	−0.3		
			S	08 59 41.0	6.5		
			LN	Ms=4.8		15.0	1.40
			LE			15.0	1.20
TIA	22.8	345	eP	08 56 13.2	−0.5		
			S	09 00 19.5	2.4		
			SMN	m_B=5.1		9.5	0.78
			LN	Ms=4.7		10.0	0.87
KMI	23.0	301	−P	08 56 17.0	0.9		
			pP	08 56 23.5	2.0		
			eS	09 00 24.0	1.9		
			LN	Ms=4.5		14.0	0.80
XAN	24.1	327	+P	08 56 26.7	−0.2		
			eS	09 00 44.0	2.3		
			LN	Ms=4.6		11.0	0.69
CD2	25.1	315	eP	08 56 36.1	−0.6		
			S	09 01 03.0	5.2		
			LN	Ms=5.1		15.0	2.50
			LE			13.0	1.55
TIY	25.6	338	eP	08 56 41.0	−0.3		
			S	09 01 04.0	−2.0		
			LZ	Ms=4.4		26.0	0.94
BJI	26.6	346	eP	08 56 51.0	0.4		
			eS	09 01 20.0	−3.6		
SNY	27.4	359	eP	08 56 57.6	−0.5		
			eS	09 01 32.0	−4.8		
			LN	Ms=4.7		20.0	0.72
			LE			16.0	0.93
			LZ	Ms=4.5		20.0	0.79
LZH	28.4	323	eP	08 57 07.5	0.3		
			PMZ			1.5	0.13
			eS	09 01 50.0	−3.0		
HHC	28.7	340	eP	08 57 09.8	0.1		
BTO	29.0	337	eP	08 57 12.0	−0.7		
			eS	09 01 58.0	−4.8		
			LN	Ms=4.4		13.0	0.30
			LE			13.0	0.30
MDJ	30.6	7	eP	08 57 28.0	2.0		
GTA	33.0	324	eP	08 57 47.5	−0.4		
			LN	Ms=4.6		12.5	0.25
			LE			17.0	0.48
			LZ	Ms=4.5		18.0	0.55
WMQ	42.9	321	P	08 59 11.0	0.2		

1987 10 8
O=13 28 46.6 ± 0.05s
LAT=54.90 N ± 1.24km
LONG=161.44 W ± 0.74km
DEPTH= 49 km ± 0.59km
STATIONS USED = 50, STAND DEV= 0.74s

CN2	46.8	288	+iP	13 37 13.5	−0.2
SNY	49.1	287	+iP	13 37 32.6	0.7
BJI	54.4	291	eP	13 38 11.0	−0.6
BTO	57.3	295	eP	13 38 32.5	0.0
TIY	58.1	291	P	13 38 38.6	0.4
SSE	58.1	280	+P	13 38 38.5	0.3
NJ2	58.8	282	+P	13 38 41.8	−0.7
WHN	62.4	284	P	13 39 07.0	−0.4
XAN	62.8	291	P	13 39 09.3	−0.5
GTA	63.4	301	P	13 39 13.4	−0.6

WMQ	65.5	312	P	13 39 28.6	0.7		
CD2	67.9	292	eP	13 39 43.6	0.5		
GYA	69.8	287	P	13 39 55.0	0.1		
KMI	73.1	289	+P	13 40 14.0	−0.3		
LSA	75.4	301	+P	13 40 28.1	−0.1		

1987 10 9
O = 01 13 48.3 ± 0.08s
LAT = 36.56 N ± 1.20km
LONG = 71.43 E ± 1.13km
DEPTH = 99 km ± 0.49km
STATIONS USED = 28, STAND DEV = 1.74s

KSH	4.6	50	P	01 15 01.0	3.7		
			S	01 15 52.0	2.2		
			SME			2.0	1.20
WMQ	14.4	55	P	01 17 07.0	−1.5		
			S	01 19 43.5	−1.8		
			SMN			1.5	0.060
GTA	22.5	74	P	01 18 43.0	2.3		
CD2	27.4	92	eP	01 19 27.8	1.1		

1987 10 9
O = 05 37 59.4 ± 0.08s
LAT = 3.68 S ± 1.17km
LONG = 140.05 E ± 1.33km
DEPTH = 20 km ± 0.12km
STATIONS USED = 45, STAND DEV = 1.39s
Ms = 4.5 / 3,

QZN	37.3	308	eP	05 45 12.4	−0.3		
SSE	39.0	334	P	05 45 27.0	0.5		
NJ2	40.8	332	eP	05 45 40.5	−1.5		
			S	05 51 48.0	−3.4		
GYA	44.0	315	P	05 46 09.0	0.6		
KMI	46.2	310	eP	05 46 26.0	0.6		
XAN	47.6	324	P	05 46 36.8	0.0		
BJI	48.7	336	P	05 46 45.0	−0.1		
			eS	05 53 40.0	−5.9		
			LN	Ms = 4.5		24.0	0.37
CD2	48.8	317	eP	05 46 46.8	1.0		
CN2	49.1	346	+P	05 46 47.0	−0.7		
			eS	05 53 49.0	−1.7		
			LZ	Ms = 5.1		22.0	1.40
LZH	52.1	323	eP	05 47 10.0	−0.8		
GTA	56.6	323	P	05 47 44.0	−0.4		
WMQ	66.6	321	eP	05 48 50.0	−1.2		

1987 10 9
O = 10 17 38.4 ± 0.09s
LAT = 7.88 S ± 1.48km
LONG = 105.23 E ± 1.84km
DEPTH = 30 km ± 0.14km
STATIONS USED = 94, STAND DEV = 0.97s
Ms = 5.8 / 60, m_B = 5.9 / 16

QZN	27.1	10	+P	10 23 21.0	−0.2		
			sS	10 28 11.0	0.9		
			PcS	10 30 15.0	−6.5		
			LN	Ms = 5.9		16.0	10.9
			LE			15.0	9.90
GZH	31.8	14	+P	10 24 02.0	−0.8		
			cS	10 29 09.5	−0.5		
			LN	Ms = 5.5		20.0	4.26
			LE			18.0	4.55
KMI	32.9	356	+P	10 24 14.0	1.3		
			pP	10 24 24.0	2.9		
			LN	Ms = 6.0		12.0	8.55
			LE			13.0	9.66
GYA	34.2	2	+P	10 24 23.0	−0.5		
			PMZ	m_B = 5.8		5.0	0.70
			pP	10 24 34.0	1.9		
			S	10 29 50.4	4.2		
			ScS	10 34 45.0	3.0		
			LN	Ms = 5.8		16.0	6.80
			LE			16.0	6.60
QZH	35.1	21	+P	10 24 31.0	−0.7		
			PP	10 25 51.0	0.6		
			S	10 30 05.0	3.9		
			LN	Ms = 5.7		18.0	5.43
			LE			18.0	6.64
CD2	38.6	358	P	10 25 00.4	−0.5		
			S	10 30 56.0	1.8		
			sS	10 31 05.0	−4.6		
			LE	Ms = 6.1		18.0	15.1
WHN	39.2	12	+iP	10 25 06.0	0.2		
			PMZ			1.5	0.050
			pP	10 25 16.0	1.4		
			PP	10 26 40.0	0.1		
			S	10 31 08.0	4.7		
			LN	Ms = 5.7		14.0	5.00
			LZ	Ms = 5.7		18.0	5.90
LSA	39.7	341	+P	10 25 10.8	−0.1		
			S	10 31 12.0	0.5		
SSE	41.7	21	−P	10 25 27.0	0.7		
			PMZ			1.5	0.26
			pP	10 25 36.0	1.0		
			ScP	10 31 13.0	3.6		
			S	10 31 40.0	−0.1		
			sS	10 31 56.0	0.5		
			ScS	10 35 24.0	−0.4		
			LN	Ms = 5.4		16.0	1.93
			LE			16.0	2.05

NJ2	41.8	17	+iP	10 25 28.0	0.7		
			sP	10 25 38.0	−1.9		
			iS	10 31 49.0	6.2		
			LE	Ms=5.8		14.0	5.20
XAN	41.8	5	P	10 25 27.4	−0.4		
			S	10 31 42.0	−0.6		
			LN	Ms=6.0		16.0	4.81
			LE			14.0	7.19
LZH	43.7	358	+iP	10 25 44.5	1.0		
			PMZ			1.5	0.77
			LN	Ms=6.1		14.0	8.95
			LE			16.0	6.23
TIA	45.3	14	cP	10 25 54.6	−0.9		
			S	10 32 30.5	−1.9		
			SMN	m_B=5.7		11.5	1.31
			SME			12.0	0.65
			LN	Ms=5.9		13.0	4.56
			LE			12.5	2.36
TIY	45.8	8	+iP	10 26 00.5	0.2		
			PMZ			1.1	0.22
			S	10 32 46.0	5.1		
			LZ	Ms=5.6		18.0	4.24
GTA	47.3	354	+iP	10 26 12.0	0.1		
			PMZ	m_B=6.2		3.5	1.24
			pP	10 26 20.5	0.0		
			PP	10 28 00.0	−1.9		
			SME	m_B=5.6		6.0	0.48
			LN	Ms=5.9		15.0	5.60
			LZ	Ms=5.9		17.0	7.80
BTO	48.4	5	+iP	10 26 21.0	0.4		
			pP	10 26 29.5	0.2		
			PP	10 28 12.0	−0.1		
			S	10 33 22.5	5.0		
			cSS	10 36 49.0	6.3		
			LN	Ms=6.0		13.0	5.80
			LE			18.0	5.90
			LZ	Ms=5.9		13.0	4.70
BJI	48.7	11	+iP	10 26 22.0	−0.8		
			PMZ	m_B=5.9		5.0	0.84
			cS	10 33 24.0	1.2		
			SMN	m_B=5.5		12.0	0.72
			SME			10.0	0.38
			LN	Ms=5.9		14.0	4.37
			LE			14.0	4.17
HHC	48.8	6	+P	10 26 24.5	0.8		
			S	10 33 27.0	3.9		
			LN	Ms=6.1		13.5	7.60
			LE			14.0	2.40
			LZ	Ms=5.9		14.0	5.63
DL2	49.0	17	+P	10 26 23.5	−1.1		
			S	10 33 28.0	2.9		
			LN	Ms=5.9		14.0	4.48
			LE			14.0	2.30
SNY	52.2	17	+iP	10 26 48.0	−1.5		
			PMZ	m_B=6.2		4.0	1.15
			pP	10 26 58.0	−0.4		
			PP	10 28 52.0	4.0		
			S	10 34 12.0	1.8		
			SMN	m_B=5.8		7.0	0.81
			sS	10 34 27.0	0.9		
			LN	Ms=5.6		17.0	2.76
			LE			17.0	1.85
			LZ	Ms=5.8		17.0	5.15
WMQ	53.8	344	+P	10 27 01.6	0.1		
			pP	10 27 10.6	0.2		
			S	10 34 36.5	4.5		
			LE	Ms=5.6		18.0	3.13
KSH	54.3	332	cP	10 27 04.0	−1.2		
			sP	10 27 20.0	2.3		
			iS	10 34 43.0	2.9		
			LN	Ms=6.1		4.0	2.20
CN2	54.6	18	+iP	10 27 05.4	−1.6		
			PMZ	m_B=6.1		4.0	1.10
			pP	10 27 14.0	−1.9		
			cS	10 34 44.0	0.6		
			LZ	Ms=6.2		16.0	11.6
MDJ	56.7	21	cP	10 27 20.1	−1.9		
			sP	10 27 32.0	−2.7		
			cS	10 35 09.0	−2.2		
			SS	10 39 04.0	5.3		
			LZ	Ms=5.6		14.0	2.10

1987 10 9

O=18 18 53.0 ± 0.08s
LAT=39.90 N ± 0.76km
LONG=118.79 E ± 0.66km
DEPTH= 10 km ± 0.25km
STATIONS USED = 8, STAND DEV= 1.80s
M_L=2.8 / 9,

BJI	2.0	275	Pg	18 19 28.0	−0.7		
			Sg	18 19 54.5	−1.7		
			SMN	M_L=2.5		0.5	0.040
			SME			0.5	0.040

1987 10 9

O=23 41 54.6 ± 0.06s
LAT=18.22 S ± 1.88km
LONG=172.72 W ± 2.64km
DEPTH= 38 km ± 0.50km
STATIONS USED = 23, STAND DEV= 1.41s

CN2	83.7	320	eP	23 54 20.4	−1.0		
BJI	87.9	313	eP	23 54 42.0	−0.1		
GYA	89.9	298	P	23 54 53.0	0.9		

1987 10 10
O = 12 26 59.8 ± 0.02s
LAT = 32.64 N ± 0.18km
LONG = 102.63 E ± 0.20km
DEPTH = 12 km ± 0.05km
STATIONS USED = 8, STAND DEV = 0.95s
M_L = 3.3 / 3,

CD2	2.0	151	ePn	12 27 33.2	−0.3		
			Pg	12 27 34.9	0.2		
			Sg	12 27 59.6	−2.2		
			SMN	M_L = 3.3		0.5	0.19
			SME			0.8	0.28
XAN	5.4	73	ePg	12 28 35.8	−0.3		

1987 10 10
O = 14 26 36.6 ± 0.14s
LAT = 6.02 S ± 1.81km
LONG = 113.27 E ± 2.17km
DEPTH = 575 km ± 0.44km
STATIONS USED = 100, STAND DEV = 1.23s
m_B = 5.8 / 46

QZN	25.1	352	+iP	14 31 21.0	2.0		
			PMZ	m_B = 6.1		5.0	2.50
			PcP	14 34 30.0	−3.3		
			ScP	14 37 19.2	1.4		
			ScS	14 41 08.0	1.2		
GZH	28.9	0	P	14 31 52.5	0.3		
			PMZ	m_B = 5.9		5.0	1.68
			S	14 36 05.0	1.2		
			SMN	m_B = 5.4		11.0	2.40
QZH	31.2	9	+iP	14 32 12.0	0.3		
			pP	14 32 47.0	2.8		
			S	14 36 36.0	−3.1		
			SMN	m_B = 5.5		12.0	3.01
KMI	32.6	342	+iP	14 32 26.0	2.3		
			PMZ			3.0	2.30
			iS	14 37 03.0	1.3		
			iSS	14 40 05.0	−1.9		
GYA	32.9	349	P	14 32 27.0	0.8		
			PMZ			1.2	1.00
			S	14 37 06.0	0.9		
			SMN	m_B = 5.8		6.0	2.80
			SME			6.0	1.50
			ScP	14 37 44.0	1.4		
			ScS	14 41 46.0	1.9		
WHN	36.4	2	−P	14 32 55.5	0.8		
			PMZ			1.0	0.30
			iS	14 37 56.0	−1.9		
			SMN	m_B = 5.8		8.0	4.20
SSE	37.7	11	+iP	14 33 06.8	1.4		
			PMZ			0.7	0.51
			pP	14 34 52.0	−5.4		
			ScP	14 38 01.0	1.1		
			eS	14 38 12.0	−5.1		
			SMN	m_B = 5.5		6.0	0.26
			SME			6.0	1.49
CD2	37.8	347	+iP	14 33 06.7	0.0		
			S	14 38 17.0	−1.5		
			SME	m_B = 5.8		6.0	3.10
NJ2	38.2	8	+iP	14 33 12.0	2.1		
			PMZ	m_B = 5.9		5.0	1.70
			PP	14 34 52.0	−3.8		
			iScP	14 38 03.8	1.8		
			iS	14 38 27.0	1.8		
			SMN	m_B = 5.6		8.0	2.30
			iScS	14 42 16.0	2.4		
XAN	40.1	354	P	14 33 24.5	−0.2		
			pP	14 35 09.0	4.7		
			S	14 38 49.5	−1.2		
			SMN	m_B = 5.8		6.0	2.41
			SME			6.0	1.41
LSA	41.4	330	+iP	14 33 34.6	−1.1		
			PcP	14 35 17.0	−2.6		
			iS	14 39 08.5	−3.2		
			SME	m_B = 6.1		5.0	3.92
			ScS	14 42 28.0	−4.5		
TIA	42.2	5	+P	14 33 40.6	−0.9		
			PMZ	m_B = 5.5		4.0	0.54
			pP	14 35 25.0	2.4		
			ScP	14 38 19.1	1.6		
			S	14 39 20.0	−0.9		
			SMN	m_B = 5.6		9.0	1.89
			SME			9.0	0.88
			ScS	14 42 36.5	−0.8		
LZH	42.8	349	+iP	14 33 47.0	0.3		
			PMZ			2.0	1.23
			PcP	14 35 26.0	1.6		
			ScP	14 38 22.0	1.9		
			S	14 39 31.0	1.0		
			SME			2.0	0.41
TIY	43.5	359	+P	14 33 51.3	−0.8		
			PMZ			1.0	0.33
			pP	14 35 30.0	−3.9		
			sP	14 36 37.0	0.7		
			S	14 39 39.0	−1.0		
			sS	14 42 48.0	5.2		

DL2	45.4	9	+iP	14 34 06.0	−0.3		
			PMZ	$m_B = 5.8$		4.0	1.15
			pP	14 35 50.0	0.7		
			ScP	14 38 31.0	0.5		
			S	14 40 04.0	−1.9		
			SMN	$m_B = 5.8$		7.0	1.90
			SME			6.0	0.89
			ScS	14 42 58.0	0.2		
BJI	45.9	3	eP	14 34 10.0	−0.5		
			PMZ	$m_B = 5.8$		4.0	1.06
			PcP	14 35 36.0	0.7		
			pP	14 35 52.0	−1.8		
			ScP	14 38 34.0	1.2		
			SMN	$m_B = 5.5$		11.0	1.48
			eScS	14 43 03.0	1.6		
			esS	14 43 12.0	−6.6		
BTO	46.5	357	+iP	14 34 15.0	0.0		
			pP	14 36 01.0	2.5		
			ScP	14 38 35.0	−0.2		
			iS	14 40 20.0	−2.7		
			SMN	$m_B = 5.6$		8.0	1.10
			SME			7.0	0.70
			sS	14 43 30.5	3.4		
HHC	46.7	358	+iP	14 34 16.8	0.4		
			S	14 40 22.0	−1.9		
GTA	46.9	346	+iP	14 34 17.8	−0.3		
			PcP	14 35 39.8	1.0		
			ScP	14 38 38.2	1.3		
			S	14 40 20.3	−6.7		
			SMN	$m_B = 5.7$		12.0	1.81
			SME			13.0	1.66
SNY	48.5	10	+iP	14 34 28.5	−1.9		
			pP	14 36 15.0	−0.3		
			SMN	$m_B = 6.0$		7.0	2.53
			SME			8.0	0.98
CN2	50.8	11	−iP	14 34 45.3	−1.8		
			PMZ			3.0	0.80
			pP	14 36 33.0	−0.4		
			PP	14 36 47.0	−5.8		
			ScP	14 38 54.0	0.5		
			S	14 41 15.0	−5.2		
			SMN	$m_B = 5.7$		7.0	1.30
			ScS	14 43 35.0	0.7		
MDJ	52.5	15	+P	14 34 58.0	−1.3		
			pP	14 36 48.5	1.8		
			iS	14 41 40.0	−4.0		
			SMN	$m_B = 5.6$		7.0	1.00
			ScS	14 43 42.0	−4.3		
WMQ	54.7	338	P	14 35 14.2	−0.8		
			PMZ			1.5	0.27
			pP	14 37 06.0	2.2		
			sP	14 38 05.5	1.2		
			iS	14 42 12.0	−1.2		
			SMN	$m_B = 6.1$		6.0	1.08
			SME			7.0	2.22
			iScS	14 44 03.0	0.9		
			SS	14 46 10.0	3.1		
KSH	56.9	326	+iP	14 35 30.0	0.2		
			pP	14 37 20.0	0.0		
			iS	14 42 42.0	1.0		

1987 10 10
O = 15 58 48.8 ± 0.13s
LAT = 5.26 S ± 1.39km
LONG = 153.17 E ± 0.76km
DEPTH = 49 km ± 1.59km
STATIONS USED = 46, STAND DEV = 1.29s
Ms = 4.7 / 2,

SSE	47.3	322	cP	16 07 24.0	3.9		
			LZ	Ms = 4.6		20.0	0.42
TIA	53.3	324	cP	16 08 05.1	−0.5		
MDJ	54.0	339	+P	16 08 09.5	−1.1		
CN2	54.9	336	eP	16 08 15.5	−1.6		
GYA	55.0	307	P	16 08 18.6	0.6		
BJI	56.5	326	eP	16 08 27.0	−1.7		
TIY	57.1	322	P	16 08 32.5	−0.9		
			LZ	Ms = 4.8		28.0	0.72
KMI	57.5	304	eP	16 08 37.0	0.4		
CD2	59.3	311	eP	16 08 48.4	−0.3		
BTO	60.4	323	eP	16 08 56.0	−0.1		
LZH	61.8	316	eP	16 09 06.5	0.7		
GTA	66.2	317	+iP	16 09 35.0	0.3		
WMQ	76.3	317	P	16 10 36.0	0.8		
KSH	83.5	311	eP	16 11 16.6	2.9		

1987 10 11
O = 01 48 36.8 ± 0.11s
LAT = 37.85 N ± 1.41km
LONG = 101.80 E ± 0.93km
DEPTH = 4 km ± 0.46km
STATIONS USED = 20, STAND DEV = 2.96s
M_L = 4.0 / 11,

GTA	2.2	316	iPg	01 49 16.0	0.1		
			Sg	01 49 45.2	−0.6		
LZH	2.4	136	Pn	01 49 20.0	2.6		
			Pg	01 49 22.5	3.2		
			Sg	01 49 52.5	0.4		
			SMN	$M_L = 4.1$		1.5	1.36
			SME			1.5	1.06
XAN	6.9	121	cPn	01 50 22.2	2.9		

			Sg	01 52 10.0	−3.4			
			SMN	M_L=3.7		0.8	0.040	
			SME			0.8	0.030	
BTO	6.9	64	ePn	01 50 23.4	3.6			
HHC	8.1	65	eP	01 50 35.2	−3.6			
			SMN	M_L=4.4		0.8	0.15	
			SME			0.7	0.060	
GYA	12.1	159	P	01 51 31.6	−1.5			

1987 10 11
O=09 00 43.8 ± 0.06s
LAT=12.85 S ± 1.34km
LONG=165.69 E ± 1.66km
DEPTH= 31 km ± 0.42km
STATIONS USED = 46, STAND DEV= 1.06s

NJ2	63.3	316	eP	09 11 13.0	0.7			
MDJ	65.9	333	eP	09 11 30.0	0.5			
TIA	66.9	319	eP	09 11 35.1	−0.8			
CN2	67.3	330	eP	09 11 37.4	−0.6			
BJI	69.8	322	eP	09 11 52.5	−1.6			
TIY	70.8	318	eP	09 12 00.0	−0.3			
XAN	71.3	313	P	09 12 03.0	0.0			
HHC	73.2	320	eP	09 12 15.2	1.0			
CD2	73.7	308	eP	09 12 17.7	0.8			
BTO	74.0	319	eP	09 12 19.0	0.0			
LZH	75.9	313	eP	09 12 30.5	0.3			
GTA	80.3	314	eP	09 12 55.6	1.5			
WMQ	90.3	315	P	09 13 44.0	0.0			

1987 10 11
O=11 07 19.8 ± 0.06s
LAT=28.70 N ± 0.41km
LONG=103.47 E ± 0.50km
DEPTH= 8 km ± 0.25km
STATIONS USED = 6, STAND DEV= 2.35s
M_L=2.9 / 6,

CD2	2.2	6	ePg	11 07 58.0	−1.1			
			Sg	11 08 27.0	−2.3			
			SMN	M_L=3.4		0.3	0.24	
GYA	3.6	127	Pn	11 08 15.8	−0.7			
			Sg	11 09 10.6	−2.2			
			SMN	M_L=2.9		1.0	0.040	
			SME			1.0	0.030	

1987 10 11
O=22 45 47.8 ± 0.11s
LAT= 6.34 S ± 1.08km
LONG=146.66 E ± 1.20km
DEPTH=115 km ± 0.69km
STATIONS USED = 93, STAND DEV= 1.10s

QZH	41.4	320	eP	22 53 25.0	0.4			
			S	22 59 31.0	1.2			
GZH	43.8	313	P	22 53 45.4	1.4			
QZN	44.2	306	−P	22 53 48.6	1.4			
SSE	44.5	328	iP	22 53 50.0	0.3			
			PMZ			1.0	0.070	
			pP	22 54 20.6	4.8			
			S	23 00 14.0	−0.9			
			esS	23 01 06.0	4.5			
			LN			24.0	0.60	
			LE			24.0	1.02	
NJ2	46.5	327	−iP	22 54 06.0	0.5			
			pP	22 54 35.5	3.8			
WHN	48.0	322	P	22 54 18.5	1.2			
TIA	50.6	329	−P	22 54 36.0	−1.3			
DL2	50.6	335	eP	22 54 37.5	−0.2			
GYA	50.6	312	P	22 54 39.0	1.1			
SNY	52.4	338	−iP	22 54 50.0	−0.7			
KMI	52.9	308	−P	22 54 56.5	1.3			
			pP	22 55 25.5	3.8			
MDJ	53.0	345	−P	22 54 54.5	−0.9			
			sP	22 55 35.0	−0.4			
CN2	53.5	341	−P	22 54 57.0	−1.8			
			cpP	22 55 24.0	−1.6			
			PcP	22 56 02.0	−1.6			
			eS	23 02 18.0	−3.1			
			ScS	23 04 30.0	−2.5			
XAN	53.7	321	−P	22 55 00.0	−0.8			
BJI	54.0	331	eP	22 55 02.0	−0.9			
			PMZ			2.0	0.090	
			epP	22 55 33.5	3.7			
TIY	54.2	327	−iP	22 55 03.6	−0.7			
			S	23 02 33.0	3.2			
CD2	55.3	315	P	22 55 11.9	−0.1			
HHC	56.9	329	P	22 55 23.3	−0.7			
BTO	57.6	327	−P	22 55 28.0	−0.5			
			epP	22 55 56.5	1.0			
			eS	23 03 12.0	−4.0			
GTA	62.8	321	+iP	22 56 03.8	−0.3			
			PMZ			0.8	0.27	
LSA	64.2	307	−iP	22 56 13.5	0.0			
WMQ	72.8	320	−P	22 57 06.6	0.1			
KSH	79.3	312	P	22 57 45.5	2.2			

1987 10 12
O=05 43 13.2 ± 0.03s
LAT= 3.34 N ± 0.38km
LONG=128.48 E ± 0.85km
DEPTH= 33 km ± 0.24km
STATIONS USED = 19, STAND DEV= 0.65s

XAN	35.6	331	P	05 50 09.6	−0.3			
TIY	37.2	339	+P	05 50 24.0	0.0			
BJI	38.2	345	P	05 50 31.5	−0.4			
LZH	39.7	328	eP	05 50 45.5	0.5			
HHC	40.3	340	eP	05 50 50.1	0.2			
GTA	44.3	328	eP	05 51 22.0	−0.7			
WMQ	54.0	324	P	05 52 36.5	−0.8			

1987 10 12
O = 10 43 08.8 ± 0.10s
LAT = 5.77 S ± 1.76km
LONG = 103.91 E ± 2.08km
DEPTH = 33 km ± 0.10km
STATIONS USED = 59, STAND DEV = 1.29s
Ms = 4.8 / 3,

QZN	25.3	13	eP	10 48 34.0	−0.4			
			eS	10 52 58.0	1.9			
			LN	Ms = 4.5		15.0	0.70	
GYA	32.1	5	P	10 49 37.8	1.8			
CD2	36.5	360	eP	10 50 12.5	−0.6			
LSA	37.3	342	eP	10 50 19.1	−1.7			
XAN	39.9	6	P	10 50 40.8	−0.7			
LZH	41.6	360	eP	10 50 57.0	0.8			
TIY	44.0	10	eP	10 51 15.4	0.2			
			eS	10 57 44.0	−0.8			
			LN	Ms = 4.8		13.0	0.32	
			LE			13.0	0.31	
GTA	45.1	356	−iP	10 51 24.8	0.4			
HHC	46.9	8	eP	10 51 40.0	1.4			
BJI	47.0	13	eP	10 51 40.0	1.2			
			PMZ			1.0	0.010	
WMQ	51.5	345	−P	10 52 14.0	0.3			
KSH	51.9	333	−P	10 52 17.0	0.3			
			sP	10 52 26.0	−4.0			
			eS	10 59 31.0	−5.2			
CN2	53.0	19	+P	10 52 24.0	−1.3			
MDJ	55.2	22	eP	10 52 38.6	−2.7			

1987 10 12
O = 13 57 03.8 ± 0.08s
LAT = 7.23 S ± 1.29km
LONG = 154.44 E ± 1.32km
DEPTH = 24 km ± 0.07km
STATIONS USED = 99, STAND DEV = 0.98s
Ms = 6.8 / 59, m_B = 7.0 / 53

QZH	47.3	314	−P	14 05 39.0	0.7			
			PMZ	m_B = 7.1		8.0	21.7	
			pP	14 05 47.0	1.0			
			PP	14 07 33.0	4.6			
			iS	14 12 32.0	2.0			
			SME	m_B = 7.3		10.0	39.9	
			SS	14 15 47.0	−3.2			
			LN	Ms = 6.7		13.0	33.7	
SSE	49.7	322	−iP	14 05 57.0	0.8			
			PMZ	m_B = 7.0		9.0	19.1	
			pP	14 06 04.0	0.1			
			sP	14 06 08.0	0.7			
			PP	14 07 54.0	3.4			
			PcS	14 11 08.0	−4.2			
			iS	14 13 05.0	2.6			
			SMN	m_B = 7.5		12.0	70.0	
			SME			12.0	40.0	
			LN	Ms = 6.8		16.0	44.4	
			LE			14.0	11.2	
GZH	50.2	308	−P	14 06 01.5	0.9			
			PMZ	m_B = 6.9		11.0	20.6	
			iS	14 13 16.0	5.6			
			SMN	m_B = 7.4		11.0	39.6	
			SME			13.0	39.6	
			SS	14 16 40.0	0.3			
			LN	Ms = 6.9		20.0	51.0	
			LE			20.0	53.4	
QZN	51.1	301	−P	14 06 07.5	0.2			
			PP	14 08 02.5	−1.5			
			S	14 13 26.5	4.9			
			SMN			15.0	31.6	
			SME			15.0	23.7	
			ScS	14 15 48.0	−4.4			
			SS	14 16 58.0	3.4			
			LN	Ms = 6.6		15.0	11.3	
			LE			16.0	29.2	
NJ2	51.8	321	−iP	14 06 13.0	0.9			
			S	14 13 26.0	−4.4			
			LE	Ms = 6.9		16.0	63.5	
WHN	53.7	316	−P	14 06 27.0	0.1			
			PMZ	m_B = 6.8		5.0	7.00	
			sP	14 06 37.0	−1.1			
			PP	14 08 26.0	−2.5			
			iS	14 14 04.0	5.5			
			SME	m_B = 7.1		10.0	23.6	
			SS	14 17 40.0	2.6			
			LN	Ms = 6.6		12.0	19.0	
			LZ	Ms = 6.8		22.0	64.0	
DL2	55.1	329	−P	14 06 36.0	−0.8			
			S	14 14 16.0	0.4			
			ScS	14 16 14.0	−6.2			
			SMN	m_B = 7.1		10.0	19.3	
			SME			12.0	21.3	
			LN	Ms = 6.8		16.0	34.7	
			LE			14.0	19.3	

TIA	55.6	324	−P	14 06 40.1	−0.7		
			ScP	14 11 40.5	5.4		
			S	14 14 21.5	−1.4		
			SMN	m_B=7.4		10.5	46.1
			SME			8.0	20.3
			SS	14 18 11.0	3.2		
			ScS	14 16 30.5	6.4		
			LN	Ms=6.9		13.5	34.6
			LE			13.5	21.1
			LZ	Ms=6.7		13.5	24.9
MDJ	56.3	339	−P	14 06 44.5	−0.8		
			pP	14 06 52.0	−1.1		
			PP	14 08 50.0	−1.4		
			iS	14 14 32.0	−0.5		
			sS	14 14 44.0	−1.4		
			SS	14 18 20.0	1.9		
			LZ	Ms=6.6		15.0	22.8
SNY	56.4	333	−iP	14 06 45.0	−1.3		
			PMZ			14.0	22.2
			pP	14 06 51.0	−3.1		
			iS	14 14 36.0	1.7		
			SMN	m_B=6.8		10.0	9.56
			SME			9.0	7.95
			LN	Ms=6.9		14.0	33.0
			LE			14.0	23.2
			LZ	Ms=6.6		14.0	24.2
GYA	57.2	308	P	14 06 52.0	0.1		
			PMZ	m_B=6.8		5.0	7.00
			sP	14 07 02.8	−0.2		
			S	14 14 50.0	6.8		
			SMN	m_B=7.2		11.0	24.2
			SME			11.0	25.4
			ScS	14 16 38.0	2.9		
			SS	14 18 30.0	−3.5		
			LN	Ms=7.2		17.0	71.4
			LE			17.0	61.0
CN2	57.2	335	−iP	14 06 50.0	−1.9		
			PMZ	m_B=7.1		5.0	12.6
			pP	14 06 58.0	−1.7		
			PP	14 09 00.0	0.4		
			S	14 14 42.0	−1.3		
			SMN	m_B=6.9		8.0	11.5
			LN	Ms=6.8		14.0	31.2
BJI	58.8	326	−P	14 07 02.5	−0.8		
			PMZ	m_B=6.9		11.0	18.0
			S	14 15 03.0	−1.8		
			SMN	m_B=7.0		12.0	25.5
			LN	Ms=6.7		17.0	31.9
			LZ	Ms=6.8		18.0	45.1
TIY	59.4	322	−iP	14 07 07.0	−0.8		
			PMZ	m_B=7.0		10.0	18.8
			pP	14 07 12.5	−3.0		
			S	14 15 15.0	2.1		
			SMN			15.0	39.2
			LN	Ms=6.8		15.5	16.2
			LE			15.5	34.4
			LZ	Ms=7.1		22.0	94.3
XAN	59.5	317	−P	14 07 07.3	−0.9		
			PMZ	m_B=7.0		10.0	18.3
			pP	14 07 15.0	−0.9		
			sP	14 07 19.0	−0.3		
			cPP	14 09 22.0	1.5		
			SMN			13.0	46.8
			SME			9.0	29.9
			LN	Ms=6.9		13.0	21.1
			LE			14.0	28.8
KMI	59.7	305	−iP	14 07 10.0	0.3		
			sP	14 07 20.0	−0.6		
			PcP	14 07 58.0	2.7		
			iS	14 15 18.0	0.1		
			sS	14 15 29.0	−1.4		
			ScS	14 16 50.0	−3.7		
			LE	Ms=6.5		17.0	20.2
CD2	61.6	311	−iP	14 07 22.0	−0.1		
			S	14 15 41.0	1.0		
			SMN	m_B=7.3		11.0	44.0
			LE	Ms=7.0		17.0	62.7
HHC	62.0	324	−P	14 07 24.8	−0.2		
			S	14 15 51.0	5.8		
			LN	Ms=6.7		22.0	21.6
			LE			22.0	34.8
			LZ	Ms=6.9		22.0	53.8
BTO	62.7	323	−iP	14 07 30.0	0.0		
			pP	14 07 39.0	1.3		
			PP	14 09 48.0	−0.6		
			PcS	14 12 08.0	−1.3		
			iS	14 15 55.0	−1.1		
			SMN	m_B=7.0		12.0	10.6
			SME			12.0	16.7
			sS	14 16 12.0	3.1		
			SS	14 20 00.0	−1.3		
			LN	Ms=6.8		15.0	28.1
			LE			12.0	15.1
			LZ	Ms=6.9		15.0	36.2
LZH	64.1	316	−iP	14 07 39.0	−0.2		
			PMZ			2.0	1.84
			sP	14 07 55.0	4.7		
			S	14 16 10.0	−1.9		
			SMN			16.0	40.2
			LN	Ms=7.0		22.0	42.1

			LE			20.0	42.2
GTA	68.5	317	−iP	14 08 07.8	0.4		
			PMZ	$m_B = 6.7$		10.0	10.1
			PcP	14 08 28.4	−3.1		
			PP	14 10 45.0	5.0		
			iS	14 17 10.0	2.6		
			SMN	$m_B = 7.2$		10.0	22.8
			SME			10.0	12.9
			LN	Ms = 6.6		13.0	13.2
LSA	71.0	305	+iP	14 08 22.0	−0.6		
			iS	14 17 40.5	4.1		
			SME			13.0	26.6
WMQ	78.6	317	−P	14 09 07.0	0.7		
			PcP	14 09 17.0	2.5		
			iS	14 19 04.0	2.9		
			SMN	$m_B = 7.2$		11.0	19.4
			LZ	Ms = 6.7		32.0	37.6
KSH	85.7	310	−iP	14 09 46.0	2.7		
			SMN	$m_B = 7.4$		10.0	38.5

1987 10 12
O = 14 09 47.0 ± 0.08s
LAT = 7.12 S ± 1.21km
LONG = 154.41 E ± 1.07km
DEPTH = 17 km ± 0.09km
STATIONS USED = 50, STAND DEV = 1.07s

SSE	49.5	322	cP	14 18 40.5	1.1
QZN	51.0	301	cP	14 18 51.4	0.6
NJ2	51.6	321	cP	14 18 56.0	0.6
WHN	53.6	316	P	14 19 11.0	0.7
MDJ	56.1	339	eP	14 19 27.0	−1.6
BJI	58.7	326	eP	14 19 46.0	−0.7
BTO	62.6	323	eP	14 20 12.6	−0.8
GTA	68.4	317	eP	14 20 51.4	0.4
WMQ	78.5	317	eP	14 21 50.4	0.5

1987 10 12
O = 14 21 00.5 ± 0.13s
LAT = 7.17 S ± 1.74km
LONG = 154.37 E ± 1.47km
DEPTH = 23 km ± 0.23km
STATIONS USED = 63, STAND DEV = 1.28s

SSE	49.6	322	cP	14 29 51.5	−0.7
QZN	51.0	301	P	14 30 04.8	1.4
NJ2	51.7	321	cP	14 30 04.5	−3.7
WHN	53.6	316	P	14 30 23.0	0.0
MDJ	56.2	339	cP	14 30 40.0	−1.5
SNY	56.3	333	−P	14 30 41.4	−1.0
CN2	57.1	335	+iP	14 30 47.4	−0.6
BJI	58.7	326	cP	14 30 59.0	−0.4
XAN	59.4	317	−P	14 31 03.5	−0.8
HHC	61.9	324	P	14 31 21.6	0.5
BTO	62.6	323	eP	14 31 26.4	0.3
GTA	68.4	317	P	14 32 04.2	0.6
LSA	70.9	305	eP	14 32 16.0	−2.8
WMQ	78.5	317	P	14 33 03.2	0.6
KSH	85.6	310	eP	14 33 42.5	2.9

1987 10 12
O = 14 49 20.9 ± 0.09s
LAT = 6.94 S ± 1.40km
LONG = 154.14 E ± 1.55km
DEPTH = 22 km ± 0.28km
STATIONS USED = 40, STAND DEV = 1.34s

NJ2	51.3	321	eP	14 58 28.0	1.7
WHN	53.3	316	P	14 58 45.5	4.4
MDJ	55.9	339	eP	14 58 59.0	−0.9
CN2	56.8	335	eP	14 59 05.0	−1.4
BJI	58.4	326	eP	14 59 17.0	−0.7
XAN	59.1	317	P	14 59 22.0	−0.6
GTA	68.1	317	P	15 00 21.0	−1.1
WMQ	78.2	317	P	15 01 22.1	0.8

1987 10 12
O = 15 13 05.6 ± 0.07s
LAT = 7.27 S ± 1.28km
LONG = 154.42 E ± 0.93km
DEPTH = 33 km ± 0.08km
STATIONS USED = 31, STAND DEV = 0.74s

CN2	57.2	335	eP	15 22 51.0	−1.3
BJI	58.8	326	eP	15 23 03.0	−0.7
XAN	59.5	317	P	15 23 08.0	−0.5
GTA	68.6	317	P	15 24 08.3	0.6
LSA	71.0	305	eP	15 24 22.4	−0.4
WMQ	78.6	317	P	15 25 08.0	1.4

1987 10 12
O = 18 56 22.7 ± 0.13s
LAT = 7.15 S ± 1.58km
LONG = 154.43 E ± 1.14km
DEPTH = 19 km ± 0.32km
STATIONS USED = 22, STAND DEV = 1.53s

CN2	57.1	335	eP	19 06 07.0	−3.9
XAN	59.4	317	eP	19 06 26.5	−0.8
CD2	61.5	311	eP	19 06 41.2	−0.1
GTA	68.5	317	eP	19 07 26.8	0.2
WMQ	78.6	317	eP	19 08 29.0	3.4

1987 10 12
O = 19 34 51.2 ± 0.07s

LAT= 7.14 S ± 1.58km
LONG=154.43 E ± 1.40km
DEPTH= 36 km ± 0.65km
STATIONS USED = 28, STAND DEV= 1.22s

CN2	57.1	335	eP	19 44 35.0	−1.9		
XAN	59.4	317	P	19 44 53.0	−0.3		
CD2	61.5	311	eP	19 45 07.6	0.3		
BTO	62.6	323	eP	19 45 16.0	0.9		
LZH	64.0	316	eP	19 45 22.5	−1.8		
GTA	68.5	317	P	19 45 53.4	0.9		

1987 10 12
O=20 48 40.3 ± 0.07s
LAT= 6.97 S ± 1.01km
LONG=154.21 E ± 0.75km
DEPTH= 18 km ± 0.13km
STATIONS USED = 32, STAND DEV= 0.84s

WHN	53.4	316	eP	20 58 01.8	0.2		
TIA	55.3	324	eP	20 58 15.0	−0.6		
BJI	58.5	326	eP	20 58 37.0	−1.2		
XAN	59.1	317	eP	20 58 42.2	−0.9		
CD2	61.2	311	eP	20 58 56.1	−1.1		
BTO	62.4	323	eP	20 59 05.0	0.0		
GTA	68.2	317	eP	20 59 42.6	0.0		
WMQ	78.3	317	eP	21 00 42.5	0.7		

1987 10 12
O=21 41 36.0 ± 0.11s
LAT=41.43 N ± 1.73km
LONG=139.29 E ± 1.51km
DEPTH= 22 km ± 0.33km
STATIONS USED = 60, STAND DEV= 1.65s
Ms=3.8/ 9,

MDJ	7.8	297	ePn	21 43 29.5	0.9		
			eSn	21 44 56.0	−2.5		
			LZ	Ms=3.8		15.0	0.90
CN2	10.5	288	eP	21 44 08.0	−0.3		
			pP	21 44 12.0	−2.6		
			eS	21 46 03.0	−3.2		
			LZ	Ms=3.8		15.0	0.60
SNY	11.8	277	eP	21 44 26.0	0.0		
BJI	17.6	273	P	21 45 45.0	3.5		
SSE	17.8	240	eP	21 45 47.0	2.1		
			PMZ			1.0	0.030
			sP	21 45 54.5	−0.6		
			LN	Ms=4.2		12.0	0.52
TIA	18.0	260	P	21 45 49.0	1.7		
NJ2	18.8	247	−P	21 45 57.8	0.7		
			pP	21 46 02.0	−1.2		
			LE	Ms=4.5		14.0	1.00
HHC	20.9	278	eP	21 46 19.8	0.3		
TIY	21.0	269	eP	21 46 20.0	−0.9		
BTO	22.1	278	eP	21 46 31.5	−0.1		
			esP	21 46 38.5	−3.6		
			eS	21 50 25.0	−4.1		
			LN	Ms=4.3		13.0	0.30
			LE			15.0	0.50
			LZ	Ms=4.5		15.0	0.80
WHN	22.8	250	P	21 46 39.0	−0.2		
XAN	25.0	263	P	21 46 59.6	−1.0		
LZH	28.0	271	−P	21 47 27.0	−1.3		
			PMZ			1.0	0.040
GTA	29.9	279	−iP	21 47 44.2	−1.3		
			iPcP	21 50 48.4	1.3		
GYA	30.7	251	P	21 47 51.4	−0.7		
LSA	40.4	269	eP	21 49 14.0	−1.2		

1987 10 12
O=22 09 45.9 ± 0.07s
LAT=32.58 N ± 0.98km
LONG=137.75 E ± 1.15km
DEPTH=358 km ± 0.31km
STATIONS USED = 85, STAND DEV= 0.89s
m_B=5.1/23

MDJ	13.6	334	−P	22 12 46.0	−1.5		
			sP	22 14 12.0	3.6		
			iS	22 15 12.0	−0.6		
			SME	m_B=4.6		7.0	0.70
			ScS	22 24 19.0	0.4		
SSE	14.2	268	eP	22 12 51.5	−2.3		
			S	22 15 24.0	0.1		
			ScS	22 24 22.0	2.1		
			LN			10.0	0.88
DL2	14.5	300	eP	22 12 58.0	0.2		
			S	22 15 38.0	6.7		
			LN			10.0	1.40
SNY	14.6	313	−iP	22 12 58.1	−0.1		
			PMZ			3.0	1.10
			sP	22 14 27.0	5.3		
			S	22 15 37.5	5.4		
			LN			9.0	0.82
			LE			11.0	0.84
			LZ			9.0	1.18
CN2	14.8	323	−iP	22 13 00.0	−0.5		
			PMZ	m_B=5.7		4.0	1.00
			sP	22 14 25.0	0.4		
			eS	22 15 35.0	−1.9		
			ScP	22 20 44.5	−0.2		
			ScS	22 24 21.0	−0.5		
NJ2	16.0	273	−P	22 13 12.4	−0.8		

			S	22 16 03.0	3.4		
TIA	17.4	288	eP	22 13 27.5	−0.3		
			PMZ	m_B = 5.7		5.0	1.66
			esP	22 14 59.6	0.5		
			S	22 16 27.0	0.7		
			LN			9.0	0.94
			LE			7.0	0.39
			LZ			7.0	0.87
QZH	18.4	251	eP	22 13 38.0	−0.1		
			S	22 16 44.0	−1.3		
			SMN	m_B = 4.6		10.0	0.61
BJI	18.9	299	−P	22 13 43.0	0.3		
			PMZ	m_B = 5.7		4.0	1.28
			esP	22 15 23.0	4.8		
			S	22 16 54.0	0.2		
			SMN	m_B = 5.1		6.0	1.07
WHN	20.0	270	−iP	22 13 55.0	1.0		
			PMZ			0.9	0.10
			iS	22 17 19.0	4.3		
			iScP	22 20 55.0	−0.5		
			LN			8.0	0.80
TIY	21.3	291	−P	22 14 07.0	0.7		
			PMZ	m_B = 5.5		5.0	1.12
			sP	22 15 47.5	−0.3		
			S	22 17 37.0	1.3		
			SME	m_B = 4.9		9.0	0.78
			LE			11.0	0.74
HHC	22.5	299	−iP	22 14 18.6	0.9		
BTO	23.6	298	−P	22 14 28.0	0.2		
			esP	22 16 10.0	−1.7		
			S	22 18 15.0	1.1		
			LN			12.0	0.30
			LE			13.0	0.90
			LZ			13.0	1.30
XAN	24.1	281	−iP	22 14 32.5	0.0		
			eS	22 18 22.5	−0.7		
GYA	27.7	265	P	22 15 04.6	0.0		
			S	22 19 20.0	0.8		
LZH	28.1	287	−P	22 15 08.0	−0.8		
			PMZ			2.5	0.15
			pP	22 16 15.5	1.7		
			S	22 19 25.0	−1.6		
			SME	m_B = 5.0		9.0	0.69
			sS	22 21 25.0	0.8		
CD2	28.9	276	eP	22 15 14.6	−0.7		
			eS	22 19 38.0	−1.3		
			PcS	22 21 55.0	−0.1		
GTA	31.3	293	−iP	22 15 36.0	0.0		
			PP	22 16 57.4	0.8		
			S	22 20 14.5	−1.2		
			ScP	22 21 29.6	1.9		
			SS	22 22 33.0	−5.5		
			ScS	22 25 26.1	1.1		
KMI	31.5	265	+P	22 15 38.0	0.4		
			PMZ	m_B = 5.2		4.0	0.40
			eS	22 20 21.0	1.3		
LSA	39.8	279	−iP	22 16 47.8	0.4		
WMQ	40.3	301	−iP	22 16 53.0	1.1		
			PMZ			1.5	0.13
			pP	22 18 03.3	1.5		
			PP	22 18 33.0	−1.7		
			ScP	22 22 03.0	2.2		
			S	22 22 34.5	1.8		
			SME	m_B = 5.4		5.0	0.68
			ScS	22 26 16.0	0.8		
KSH	49.6	296	eP	22 18 06.0	1.6		

1987 10 12

O = 22 22 26.2 ± 0.09s
LAT = 7.12 S ± 1.25km
LONG = 154.30 E ± 1.14km
DEPTH = 12 km ± 0.20km
STATIONS USED = 49, STAND DEV = 1.01s

NJ2	51.6	321	eP	22 31 35.0	0.1	
TIA	55.5	324	eP	22 32 03.4	−0.2	
MDJ	56.1	339	eP	22 32 07.1	−1.2	
CN2	57.0	335	eP	22 32 13.6	−1.2	
BJI	58.6	326	eP	22 32 25.5	−0.7	
XAN	59.3	317	P	22 32 30.8	−0.2	
CD2	61.4	311	eP	22 32 45.2	0.2	
BTO	62.5	323	eP	22 32 52.5	−0.4	
LZH	63.9	316	+P	22 33 02.5	0.4	
GTA	68.4	317	P	22 33 31.0	0.5	
LSA	70.8	305	eP	22 33 45.5	−0.1	
WMQ	78.4	317	eP	22 34 30.2	0.7	

1987 10 13

O = 06 41 09.4 ± 0.06s
LAT = 45.24 N ± 2.02km
LONG = 150.19 E ± 1.18km
DEPTH = 54 km ± 0.67km
STATIONS USED = 70, STAND DEV = 1.11s
Ms = 4.2 / 11,

MDJ	14.6	275	eP	06 44 32.0	−2.6		
			eS	06 47 08.0	−6.9		
			LZ	Ms = 4.5		20.0	2.10
CN2	17.7	274	−P	06 45 13.5	−0.2		
			pP	06 45 20.0	−3.9		
			eS	06 48 30.0	4.0		
			LZ	Ms = 4.2		20.0	0.90

SNY	19.6	269	+iP	06 45 36.9	1.3		
			S	06 49 06.0	−1.2		
			LN	Ms=4.1		26.0	0.40
			LE			26.0	0.65
			LZ	Ms=4.1		24.0	0.77
DL2	22.1	263	+P	06 46 03.5	2.2		
BJI	25.4	270	eP	06 46 33.0	−1.0		
			eS	06 50 56.0	1.6		
			LE	Ms=4.0		24.0	0.39
			LZ	Ms=4.3		24.0	0.65
TIA	26.5	262	−P	06 46 43.6	−0.2		
SSE	26.6	248	P	06 46 46.5	1.2		
			PMZ			0.7	0.020
			LZ	Ms=4.2		24.0	0.51
NJ2	27.6	252	eP	06 46 53.2	−0.8		
HHC	28.4	275	P	06 47 01.6	0.4		
TIY	29.1	268	+P	06 47 07.5	0.3		
			S	06 51 53.5	1.2		
			LE	Ms=4.4		15.0	0.43
WHN	31.6	255	+iP	06 47 29.2	−0.2		
XAN	33.4	265	+P	06 47 44.3	−0.7		
LZH	35.9	272	+iP	06 48 07.0	0.1		
			PMZ			1.5	0.080
GTA	37.2	279	−iP	06 48 18.3	0.5		
			PcP	06 50 37.8	1.7		
CD2	38.7	265	+iP	06 48 30.5	0.2		
GYA	39.4	257	P	06 48 36.2	0.2		
			PcP	06 50 44.8	1.8		
KMI	43.0	259	eP	06 49 05.0	−0.5		
WMQ	43.6	291	P	06 49 10.2	−0.1		
LSA	48.3	272	+P	06 49 48.0	−0.3		

1987 10 13
O=10 40 38.8 ± 0.07s
LAT= 7.09 S ± 1.30km
LONG=154.19 E ± 1.75km
DEPTH= 31 km ± 0.47km
STATIONS USED = 28, STAND DEV= 1.15s

CN2	56.9	335	eP	10 50 23.0	−1.1		
BJI	58.6	326	eP	10 50 34.0	−1.4		
TIY	59.2	322	eP	10 50 41.4	1.6		
CD2	61.3	311	eP	10 50 54.7	0.6		
GTA	68.3	317	P	10 51 40.4	0.9		

1987 10 13
O=11 51 36.3 ± 0.14s
LAT=57.72 S ± 2.40km
LONG= 25.09 W ± 3.43km
DEPTH= 10 km ± 0.58km
STATIONS USED = 20, STAND DEV= 2.55s

NJ2	144.5	121	ePKP	12 11 12.8	−1.3		
TIY	145.9	107	ePKP	12 11 16.6	0.0		
TIA	147.1	114	−PKP	12 11 20.4	1.9		
BJI	149.6	109	ePKP	12 11 27.0	4.5		

1987 10 13
O=13 54 41.9 ± 0.16s
LAT= 7.16 S ± 2.15km
LONG=154.40 E ± 2.52km
DEPTH= 16 km ± 0.37km
STATIONS USED = 87, STAND DEV= 1.43s
Ms=5.1/25, m_B=5.9/38

QZH	47.3	314	P	14 03 18.0	1.1		
			S	14 10 13.5	5.6		
			SMN	m_B=6.1		10.0	1.91
			SME			10.0	1.65
SSE	49.6	322	P	14 03 36.0	1.2		
			PMZ	m_B=5.8		6.0	0.86
			S	14 10 44.0	3.7		
			SMN	m_B=5.9		8.0	1.26
			LN	Ms=5.0		10.0	0.44
GZH	50.1	308	P	14 03 40.5	1.2		
QZN	51.0	301	eP	14 03 46.0	−0.1		
			PP	14 05 43.0	0.4		
			S	14 11 06.0	5.4		
			sS	14 11 15.5	3.0		
			ScS	14 13 35.0	2.8		
			LE	Ms=5.0		14.0	0.60
NJ2	51.7	321	−P	14 03 52.0	1.2		
			PMZ	m_B=6.0		5.0	1.10
			pP	14 03 56.5	−0.7		
			sP	14 04 01.5	1.3		
			S	14 11 10.0	0.7		
WHN	53.6	316	P	14 04 06.5	0.9		
			sP	14 04 16.0	1.0		
			iS	14 11 42.0	4.5		
			SMN	m_B=6.1		8.0	1.90
			LZ	Ms=5.0		24.0	1.00
DL2	55.0	329	−P	14 04 15.0	−0.5		
			PcP	14 05 18.0	1.8		
			eS	14 11 55.0	−0.6		
			LN	Ms=4.9		15.0	0.53
TIA	55.5	324	+P	14 04 18.9	−0.6		
			PMZ	m_B=5.8		6.0	0.89
			epP	14 04 25.4	−0.5		
			S	14 12 02.3	0.5		
			LN	Ms=5.2		12.5	0.76
			LE			12.0	0.38
MDJ	56.2	339	+P	14 04 23.0	−1.0		
			pP	14 04 33.0	2.5		

			iS	14 12 12.0	0.6		
			SME	m_B=5.8		10.0	1.30
			ScS	14 14 11.0	2.8		
			LZ	Ms=5.1		25.0	1.30
SNY	56.3	333	-P	14 04 22.0	-3.0		
			PMZ	m_B=6.1		6.0	1.41
			S	14 12 06.0	-6.1		
			LN	Ms=5.2		34.0	1.78
			LE			34.0	1.41
GYA	57.1	308	P	14 04 31.0	0.3		
			pP	14 04 38.6	1.6		
			iS	14 12 30.0	6.4		
			LE	Ms=5.1		16.0	0.80
CN2	57.1	335	-P	14 04 29.0	-1.6		
			PMZ	m_B=5.9		5.0	0.80
			pP	14 04 36.0	-1.1		
			eS	14 12 22.0	-1.5		
			LZ	Ms=5.1		28.0	1.40
BJI	58.7	326	eP	14 04 41.0	-1.0		
			PMZ	m_B=5.9		5.0	0.73
			eS	14 12 44.0	-0.9		
			SMN	m_B=5.8		7.0	0.79
TIY	59.4	322	+P	14 04 46.0	-0.5		
			sS	14 12 58.0	-5.8		
			LE	Ms=5.2		13.0	0.78
XAN	59.4	317	P	14 04 45.8	-1.1		
			pP	14 04 53.5	0.2		
			S	14 12 59.0	6.3		
			SMN	m_B=6.1		9.0	1.54
			SME			8.0	1.36
KMI	59.6	304	-P	14 04 49.0	0.5		
			pP	14 04 58.0	3.3		
			S	14 13 02.0	6.6		
			SMN	m_B=5.7		8.0	0.70
			SME			8.0	0.40
CD2	61.5	311	P	14 05 00.6	-0.3		
			S	14 13 23.0	3.9		
			ScS	14 14 48.0	0.9		
			LE	Ms=5.2		11.0	0.62
HHC	61.9	324	eP	14 05 03.7	-0.1		
			S	14 13 24.0	-0.2		
			LN	Ms=5.2		20.0	0.62
			LE			20.0	0.78
BTO	62.6	323	-P	14 05 08.0	-0.7		
			cpP	14 05 15.5	0.4		
			cPP	14 07 23.0	-4.2		
			S	14 13 34.0	0.4		
			SMN	m_B=5.8		10.0	0.90
			SME			10.0	0.70
LZH	64.0	316	-P	14 05 18.0	0.0		
			PMZ			1.5	0.18
			pP	14 05 26.5	2.1		
			eS	14 13 52.0	-0.7		
			SMN	m_B=5.8		9.0	0.92
			LN	Ms=5.2		26.0	0.86
			LE			18.0	0.85
GTA	68.5	317	-iP	14 05 46.6	0.3		
			PMZ	m_B=5.6		5.0	0.40
			pP	14 05 57.5	4.9		
			S	14 14 48.0	3.1		
			SMN	m_B=5.9		12.0	1.21
			SME			11.0	0.61
			LN	Ms=4.8		10.0	0.20
LSA	70.9	305	cP	14 06 00.0	-1.5		
			S	14 15 16.5	3.1		
			SMN	m_B=5.6		8.0	0.48
WMQ	78.5	317	P	14 06 45.0	-0.2		
			PMZ	m_B=5.9		6.0	0.94
			sP	14 06 57.0	2.6		
			S	14 16 42.0	3.4		
			SMN	m_B=5.9		8.0	0.85
KSH	85.6	310	cP	14 07 24.0	1.7		
			sP	14 07 33.0	1.6		
			PP	14 10 48.0	6.6		
			SKS	14 17 48.0	5.5		
			SMN	m_B=6.4		8.0	2.70

1987 10 13
O=14 35 57.6 ± 0.37s
LAT=36.67 N ± 3.11km
LONG= 77.48 E ± 1.92km
DEPTH= 13 km ± 0.31km
STATIONS USED = 9, STAND DEV= 1.81s
M_L=4.6/ 4,

KSH	3.0	337	Pn	14 36 46.5	0.8		
			Sn	14 37 21.8	-1.7		
			SMN	M_L=4.3		0.4	0.90
			SME			0.5	1.50
WMQ	10.6	44	P	14 38 32.6	0.2		
			S	14 40 31.6	0.2		
			SMN			0.6	0.030
			SME			0.7	0.050

1987 10 13
O=17 43 23.8 ± 0.12s
LAT=34.13 S ± 1.54km
LONG= 56.23 E ± 3.73km
DEPTH= 10 km ± 0.21km
STATIONS USED = 17, STAND DEV= 1.22s

GYA	76.9	45	P	17 55 19.0	-0.2		

CD2	78.7	40	eP	17 55 27.8	−1.1		
GTA	83.5	33	−P	17 55 54.5	0.0		
XAN	83.9	42	P	17 55 56.0	−0.2		

1987 10 14
O = 01 48 33.5 ± 0.05s
LAT = 32.52 N ± 0.64km
LONG = 121.84 E ± 0.50km
DEPTH = 25 km ± 0.67km
STATIONS USED = 8, STAND DEV = 1.46s
M_L = 3.5 / 10,

SSE	1.5	201	Pn	01 49 00.4	0.7		
			Pg	01 49 01.0	0.2		
			Sn	01 49 19.2	−1.1		
			Sg	01 49 20.6	−1.3		
			SMN	M_L = 3.5		0.5	0.21
			SME			0.5	1.03
NJ2	2.6	260	−Pg	01 49 17.8	−1.3		
			Sg	01 49 49.2	−5.1		
			SMN	M_L = 3.7		0.5	0.35
			SME			0.5	0.43
WHN	6.7	255	Pg	01 50 33.0	1.2		
			SMN	M_L = 3.8		1.0	0.050

1987 10 14
O = 02 11 16.6 ± 0.10s
LAT = 34.30 S ± 1.55km
LONG = 179.95 E ± 1.72km
DEPTH = 78 km ± 0.65km
STATIONS USED = 34, STAND DEV = 1.47s

QZN	85.1	297	P	02 23 47.0	0.8
GZH	85.2	302	P	02 23 47.6	1.3
NJ2	87.5	312	−P	02 23 58.0	0.3
WHN	89.3	308	P	02 24 01.5	−4.9
MDJ	90.9	327	eP	02 24 14.0	0.3
TIA	91.4	314	−P	02 24 16.5	0.5
GYA	92.0	301	P	02 24 18.6	−0.4
CN2	92.2	324	−P	02 24 19.0	−0.9

1987 10 14
O = 07 37 27.6 ± 0.07s
LAT = 21.32 N ± 0.95km
LONG = 121.86 E ± 0.98km
DEPTH = 111 km ± 0.52km
STATIONS USED = 98, STAND DEV = 1.22s
m_B = 5.5 / 7

QZH	4.7	321	−iP	07 38 36.0	−1.7		
			S	07 39 25.0	−6.2		
			LE			10.0	2.99
GZH	8.1	284	eP	07 39 23.2	−0.6		
			LN			4.0	8.50
			LE			3.0	2.50
SSE	9.8	357	eP	07 39 46.5	0.2		
			S	07 41 35.0	0.7		
			LE			7.0	2.18
NJ2	11.0	347	+P	07 40 03.4	0.2		
			S	07 42 01.0	−3.5		
			LE			5.0	3.60
WHN	11.4	325	+iP	07 40 07.5	−0.7		
			PMZ			0.7	0.080
			SMN			1.5	1.00
			SME			1.1	0.40
QZN	11.5	261	P	07 40 09.3	−0.4		
			PP	07 40 22.0	−0.5		
			eS	07 42 14.2	−2.4		
			LN			16.0	3.30
GYA	14.8	293	P	07 40 52.6	−0.1		
			S	07 43 29.0	−4.7		
			LN			5.0	5.40
			LE			5.0	1.90
TIA	15.4	345	+P	07 41 01.3	1.1		
			S	07 43 42.0	−5.5		
			LN			11.5	1.26
XAN	17.1	321	P	07 41 22.2	1.4		
			eS	07 44 28.5	2.9		
			SMN	m_B = 5.7		8.0	1.84
			SME			8.0	1.03
			LN			9.0	1.46
			LE			9.0	1.04
KMI	18.0	286	+P	07 41 33.0	0.9		
TIY	18.3	336	+iP	07 41 35.8	0.6		
			PMZ			1.0	0.37
			eS	07 44 57.5	5.4		
			LE			10.5	1.07
CD2	18.8	304	P	07 41 41.0	−0.5		
			S	07 45 08.0	4.3		
BJI	19.3	347	+eP	07 41 45.5	−0.7		
			eS	07 45 20.0	6.3		
			LN			13.0	0.89
			LE			13.0	0.65
SNY	20.5	4	+P	07 41 57.6	−1.3		
			S	07 45 37.0	0.5		
			LN			21.0	0.79
			LE			18.0	1.11
HHC	21.3	338	+P	07 42 08.0	0.5		
			LN			10.0	0.54
			LE			10.0	0.43
LZH	21.5	317	+iP	07 42 10.5	1.0		
			PMZ			1.5	0.26
			pP	07 42 28.0	−3.7		

			S	07 46 00.0	4.3		
			SMN	m_B=5.5		10.0	1.14
			LE			7.0	0.62
BTO	21.7	335	+P	07 42 11.0	0.0		
			pP	07 42 31.0	−2.3		
			PP	07 42 42.0	1.2		
			S	07 46 00.0	1.5		
			LN			11.0	0.80
			LE			12.0	0.60
			LZ			12.0	0.90
CN2	22.6	7	eP	07 42 19.0	−0.9		
			pP	07 42 41.0	−1.8		
			PP	07 42 54.0	0.7		
			eS	07 46 14.0	−1.6		
			LZ			17.0	1.50
MDJ	24.1	14	−P	07 42 35.0	0.8		
			pP	07 42 56.0	−1.4		
			eS	07 46 44.0	2.9		
			LZ			18.0	1.30
GTA	26.1	319	+iP	07 42 53.4	0.2		
			ipP	07 43 21.0	4.4		
			PcP	07 46 18.0	0.2		
			S	07 47 12.9	−0.6		
			iScP	07 49 44.6	−1.2		
			ScS	07 53 34.6	0.3		
			LN			9.5	0.34
			LZ			14.0	0.59
LSA	28.9	293	+iP	07 43 18.6	−0.1		
WMQ	36.1	316	+P	07 44 21.5	0.5		
			PMZ			1.7	0.060
			S	07 49 50.0	−0.9		
			ScP	07 50 19.5	0.6		
			ScS	07 54 25.0	1.5		
			LZ			12.0	0.45
KSH	43.0	305	eP	07 45 20.0	1.9		
			sP	07 45 55.0	−1.4		
			PP	07 47 02.0	1.1		

1987 10 14
O=08 38 25.7 ± 0.09s
LAT= 5.70 N ± 1.01km
LONG=133.31 E ± 1.30km
DEPTH= 24 km ± 0.12km
STATIONS USED = 85, STAND DEV= 1.01s
Ms=5.0/37, m_B=5.5/5

QZH	23.8	325	eP	08 43 38.0	0.3		
			sP	08 43 47.0	−1.7		
			S	08 47 50.0	2.0		
			SME	m_B=5.6		12.0	2.41
			LN	Ms=4.7		10.0	0.90
GZH	25.9	314	eP	08 43 58.0	0.2		
			eS	08 48 30.0	5.9		
			SMN			13.0	1.82
			SME			12.0	0.90
QZN	26.4	302	+P	08 44 03.0	0.1		
			S	08 48 38.5	6.1		
SSE	27.7	337	eP	08 44 12.0	−2.6		
			eS	08 48 58.0	4.0		
			sS	08 49 11.0	4.2		
			SS	08 50 15.0	1.8		
			LE	Ms=4.5		12.0	0.52
NJ2	29.5	334	−P	08 44 31.0	0.3		
			LE	Ms=5.0		13.0	1.60
WHN	30.5	326	eP	08 44 36.0	−3.4		
			S	08 49 44.0	6.6		
			LN	Ms=5.0		10.0	1.10
			LZ	Ms=4.7		16.0	0.90
GYA	32.8	312	P	08 45 00.6	1.1		
			sP	08 45 10.0	−0.4		
			LN	Ms=5.3		16.0	1.80
			LE			16.0	2.60
TIA	33.8	336	+P	08 45 08.0	−0.5		
			cpP	08 45 14.2	−2.0		
			eS	08 50 32.6	2.3		
			LN	Ms=5.0		11.5	0.84
			LE			11.5	0.52
KMI	35.1	307	+P	08 45 20.0	0.3		
			sP	08 45 31.5	0.9		
			eS	08 50 53.0	2.5		
			LN	Ms=4.9		16.0	1.00
XAN	36.1	324	eP	08 45 28.0	−0.5		
			pP	08 45 34.0	−2.2		
			sP	08 45 37.0	−2.6		
			ePP	08 46 50.0	−0.5		
			eS	08 51 05.0	−1.5		
SNY	37.0	348	+iP	08 45 35.0	−0.7		
			S	08 51 20.5	1.7		
			LN	Ms=5.1		20.0	1.38
			LE			15.0	0.99
			LZ	Ms=4.9		20.0	1.21
TIY	37.1	332	P	08 45 37.0	0.3		
			LE	Ms=5.2		16.0	1.78
			LZ	Ms=5.0		19.0	1.60
CD2	37.4	316	eP	08 45 39.3	0.2		
			pP	08 45 46.0	−0.7		
			sP	08 45 50.0	−0.2		
			S	08 51 23.4	−1.3		
			LN	Ms=5.1		10.0	1.01
BJI	37.5	338	eP	08 45 39.5	−0.4		
			PMZ	m_B=5.4		8.0	0.50

			pP	08 45 44.5	−3.2		
			PcP	08 47 52.0	−5.8		
			eS	08 51 26.0	−1.3		
			LN	Ms=4.8		20.0	0.85
			LE			24.0	0.77
			LZ	Ms=5.0		18.0	1.30
CN2	38.6	351	+P	08 45 47.8	−1.1		
			pP	08 45 54.5	−2.2		
			PcP	08 48 00.0	−1.1		
			eS	08 51 42.0	−1.6		
			LZ	Ms 5.2		18.0	2.00
MDJ	38.9	356	eP	08 45 51.0	−0.6		
			PcP	08 48 02.0	−0.1		
			eS	08 51 43.0	−5.5		
			LZ	Ms=5.0		20.0	1.30
HHC	40.1	334	eP	08 46 01.7	0.4		
			S	08 52 08.0	3.1		
			LN	Ms=5.2		15.0	1.41
			LE			15.0	0.52
BTO	40.5	332	+P	08 46 05.5	0.1		
			pP	08 46 11.5	−1.5		
			PP	08 47 43.0	1.0		
			eS	08 52 10.5	−2.9		
			LN	Ms=5.1		16.0	0.70
			LE			16.0	1.20
			LZ	Ms=4.9		16.0	0.90
LZH	40.6	322	+iP	08 46 06.0	0.4		
			PMZ			2.0	0.33
			eS	08 52 08.0	−5.9		
			LN	Ms=4.9		20.0	1.20
GTA	45.2	323	+iP	08 46 43.1	0.2		
			PcP	08 48 24.2	1.5		
			eS	08 53 20.0	−0.9		
			LN	Ms=4.8		11.0	0.26
			LE			25.0	0.69
LSA	46.3	306	−iP	08 46 52.9	0.2		
WMQ	55.1	321	+iP	08 47 59.1	0.1		
			PMZ			1.1	0.19
			sP	08 48 10.3	0.2		
			PcP	08 48 56.0	−3.1		
			S	08 55 43.6	5.9		
			ScS	08 57 46.5	4.3		
			LZ	Ms=4.9		16.0	0.51
KSH	61.4	312	+iP	08 48 44.0	0.8		
			sP	08 48 55.0	0.7		
			S	08 57 06.0	5.8		
			sS	08 57 16.0	1.5		
			LN	Ms=5.3		15.0	1.10

1987 10 14

O=11 39 39.3 ± 0.13s
LAT= 7.26 S ± 1.73km
LONG=154.47 E ± 2.06km
DEPTH= 34 km ± 0.28km
STATIONS USED = 62, STAND DEV= 1.40s
Ms=4.8 / 3,

QZN	51.1	301	eP	11 48 43.2	1.6		
			eS	11 55 57.0	0.8		
NJ2	51.8	321	+P	11 48 49.0	2.6		
WHN	53.8	316	P	11 49 02.0	0.9		
			LZ	Ms=4.8		20.0	0.50
MDJ	56.3	339	eP	11 49 18.5	−1.0		
CN2	57.2	335	eP	11 49 25.0	−1.1		
			epP	11 49 34.0	−1.7		
			eS	11 57 20.0	2.0		
			LZ	Ms=4.8		26.0	0.70
BJI	58.8	326	eP	11 49 35.0	−2.5		
			eS	11 57 44.0	4.6		
TIY	59.5	322	eP	11 49 43.5	1.5		
			LZ	Ms=4.9		20.0	0.62
XAN	59.5	317	P	11 49 41.5	−0.9		
CD2	61.6	311	eP	11 49 55.6	−0.7		
HHC	62.0	324	eP	11 50 00.0	0.8		
BTO	62.7	323	+P	11 50 05.5	1.3		
			esP	11 50 19.0	1.3		
			eS	11 58 34.0	4.5		
LZH	64.1	316	eP	11 50 14.5	1.2		
			PMZ			1.5	0.080
GTA	68.6	317	−P	11 50 42.5	0.9		
LSA	71.0	305	eP	11 50 55.7	−1.0		
WMQ	78.6	317	eP	11 51 40.6	0.2		
			PMZ			2.0	0.080

1987 10 14

O=12 18 14.0 ± 0.06s
LAT=36.38 N ± 1.21km
LONG= 70.62 E ± 1.07km
DEPTH=143 km ± 0.42km
STATIONS USED = 47, STAND DEV= 1.25s
m_B=5.0 / 2

KSH	5.2	52	P	12 19 33.5	1.9		
			sP	12 20 07.0	3.1		
			S	12 20 32.0	1.0		
			SME			3.0	4.50
WMQ	15.0	55	P	12 21 39.4	−0.9		
			S	12 24 20.0	−2.4		
			SMN	m_B=5.2		6.0	0.54
LSA	18.4	105	+P	12 22 21.0	−0.7		
			eS	12 25 43.5	3.4		
			SME	m_B=4.9		5.0	0.18

GTA	23.2	74	P	12 23 10.9	1.7		
BTO	30.9	70	eP	12 24 20.8	0.7		
XAN	31.2	83	eP	12 24 22.2	−0.5		
GYA	32.2	98	P	12 24 31.2	0.5		
TIY	33.2	75	eP	12 24 40.4	0.7		
WHN	36.7	86	eP	12 25 09.5	0.3		
QZN	38.5	106	eP	12 25 24.0	−0.1		
NJ2	39.8	82	−P	12 25 36.0	1.1		
SSE	42.0	82	P	12 25 53.7	0.7		
			PMZ			1.0	0.010

1987 10 14
O = 17 05 11.0 ± 0.10s
LAT = 16.97 N ± 1.61km
LONG = 119.89 E ± 1.95km
DEPTH = 52 km ± 0.69km
STATIONS USED = 94, STAND DEV = 1.83s
Ms = 4.7 / 39, m_B = 5.2 / 4

QZH	8.0	352	+P	17 07 04.5	−3.3		
			LN	Ms = 4.3		16.0	3.16
GZH	8.7	316	P	17 07 11.8	−4.6		
			LN	Ms = 4.3		12.0	1.19
			LE			14.0	1.74
QZN	9.8	284	P	17 07 26.3	−5.6		
			LN	Ms = 4.3		13.5	0.80
			LE			17.0	2.00
SSE	14.1	5	P	17 08 30.2	0.2		
			PMZ			1.0	0.030
			pP	17 08 38.0	−1.2		
			eSS	17 11 25.0	3.1		
			LZ	Ms = 4.8		20.0	4.67
WHN	14.4	340	eP	17 08 32.0	−2.1		
			LZ	Ms = 4.7		16.0	2.70
NJ2	15.0	357	eP	17 08 42.0	−0.1		
			LN	Ms = 4.6		14.0	2.00
GYA	15.5	310	P	17 08 46.4	−1.5		
			pP	17 08 56.4	−0.8		
			LN	Ms = 4.7		12.0	1.40
			LE			12.0	1.40
KMI	17.9	300	−P	17 09 20.0	1.2		
			S	17 12 36.0	3.3		
			sS	17 12 52.0	2.3		
			LE	Ms = 4.3		15.0	0.70
TIA	19.3	353	−P	17 09 35.1	0.2		
			pP	17 09 48.6	3.3		
			SMN	m_B = 5.5		9.0	1.35
			SME			9.0	0.53
			LN	Ms = 4.8		14.0	1.92
			LE			14.0	0.87
			LZ	Ms = 4.6		14.0	1.40
XAN	19.6	332	−P	17 09 38.5	0.0		
			eS	17 13 09.0	−2.7		
CD2	20.2	316	eP	17 09 44.4	−0.1		
			S	17 13 22.0	−0.6		
			sS	17 13 42.0	1.5		
			LE	Ms = 4.7		12.0	1.37
TIY	21.7	344	eP	17 10 00.0	0.5		
			S	17 13 52.5	2.3		
			LE	Ms = 4.7		17.0	1.80
DL2	21.9	4	eP	17 10 02.5	0.8		
BJI	23.2	353	eP	17 10 15.5	1.0		
			cpP	17 10 28.0	1.4		
			csP	17 10 34.5	2.1		
			eS	17 14 24.0	5.5		
			SMN	m_B = 5.2		8.0	0.53
			LN	Ms = 4.6		16.0	0.61
			LE			16.0	0.83
LZH	23.8	326	−iP	17 10 22.5	2.3		
			PMZ			2.0	0.27
			eS	17 14 31.0	2.2		
			LN	Ms = 5.0		15.0	2.13
			LE			17.0	1.46
HHC	24.9	345	−P	17 10 32.4	1.8		
SNY	25.0	7	−iP	17 10 31.7	0.1		
			S	17 14 54.0	6.0		
			LN	Ms = 4.8		19.0	1.66
			LZ	Ms = 4.7		19.0	1.43
BTO	25.0	342	eP	17 10 33.5	1.1		
			epP	17 10 47.0	2.5		
			ePP	17 11 12.5	2.2		
			S	17 14 51.0	1.8		
			LN	Ms = 4.7		16.0	1.00
			LE			12.0	0.40
			LZ	Ms = 4.6		16.0	0.90
CN2	27.2	9	eP	17 10 51.0	−0.9		
			epP	17 11 05.0	0.8		
			eS	17 15 21.0	−3.6		
			LZ	Ms = 5.2		16.0	3.00
GTA	28.4	326	−iP	17 11 03.7	0.6		
			eS	17 15 50.0	5.4		
			ScP	17 17 51.4	2.5		
			ScS	17 21 42.6	2.1		
			LN	Ms = 4.8		18.0	1.21
			LE			16.0	0.71
			LZ	Ms = 4.9		20.0	1.87
MDJ	28.7	14	eP	17 11 06.0	−0.2		
			sP	17 11 28.0	3.7		
			eS	17 15 48.0	−2.2		
			LZ	Ms = 4.8		24.0	1.90
LSA	29.2	301	eP	17 11 10.6	0.1		

WMQ	38.1	321	cP	17 12 29.7	2.2		
			pP	17 12 42.0	1.8		
			eS	17 18 20.0	3.6		
			LZ	Ms = 5.1		20.0	1.98
KSH	44.2	310	eP	17 13 20.0	3.0		
			eS	17 19 49.0	3.2		
			LE	Ms = 4.9		16.0	0.70

1987 10 14

O = 18 26 35.0 ± 0.11s
LAT = 7.13 S ± 1.56km
LONG = 154.33 E ± 1.64km
DEPTH = 29 km ± 0.20km
STATIONS USED = 45, STAND DEV = 1.17s

NJ2	51.6	321	eP	18 35 42.0	0.6		
WHN	53.6	316	P	18 35 57.2	1.0		
MDJ	56.1	339	eP	18 36 13.0	−1.7		
CN2	57.0	335	eP	18 36 20.0	−1.3		
BJI	58.7	326	eP	18 36 32.0	−0.7		
XAN	59.3	317	P	18 36 36.6	−0.9		
CD2	61.4	311	eP	18 36 50.6	−0.9		
BTO	62.6	323	eP	18 37 01.0	1.6		
LZH	64.0	316	−P	18 37 09.0	0.4		
GTA	68.4	317	P	18 37 37.3	0.4		
LSA	70.8	305	eP	18 37 51.0	−1.0		
WMQ	78.5	317	P	18 38 36.0	0.1		

1987 10 14

O = 19 05 58.7 ± 0.27s
LAT = 13.47 N ± 1.75km
LONG = 89.57 W ± 1.15km
DEPTH = 56 km ± 2.42km
STATIONS USED = 57, STAND DEV = 1.33s
Ms = 5.8 / 5,

BJI	121.6	337	ePKP	19 24 47.0	0.1		
HHC	122.5	341	ePKP	19 24 50.0	1.2		
WMQ	122.9	2	PKP	19 24 50.6	1.0		
BTO	123.2	342	ePKP	19 24 50.6	0.4		
TIY	125.1	339	ePKP	19 24 54.0	0.3		
			LE	Ms = 5.8		19.0	1.25
KSH	125.7	14	ePKP	19 24 57.0	2.1		
			PP	19 26 48.0	−2.4		
			SKS	19 32 03.0	5.2		
GTA	126.7	351	−PKP	19 24 57.8	0.9		
			LN	Ms = 5.8		24.0	1.35
			LE			22.0	0.77
			LZ	Ms = 5.8		22.0	1.29
SSE	126.7	327	ePKP	19 24 57.5	0.7		
NJ2	127.2	330	−PKP	19 24 58.0	0.3		
LZH	129.1	346	PKP	19 25 02.5	0.9		
XAN	129.6	340	PKP	19 25 02.5	0.1		
WHN	130.6	333	PKP	19 25 04.5	0.4		
			LZ	Ms = 5.7		20.0	0.90
CD2	134.1	344	ePKP	19 25 11.5	0.6		
GYA	137.3	338	PKP	19 25 18.0	1.1		
KMI	139.8	343	ePKP	19 25 17.0	−4.6		
QZN	142.5	329	ePKP	19 25 24.8	−1.2		
			sPKP	19 25 40.0			
			PP	19 28 36.0	−0.4		

1987 10 14

O = 20 13 41.9 ± 0.10s
LAT = 46.69 N ± 3.44km
LONG = 153.30 E ± 2.45km
DEPTH = 46 km ± 0.76km
STATIONS USED = 20, STAND DEV = 2.24s

MDJ	16.7	272	eP	20 17 34.0	−0.3		
CN2	19.8	272	eP	20 18 08.0	−3.3		
SNY	21.8	268	+iP	20 18 31.1	−0.6		
XAN	35.6	265	P	20 20 36.0	−1.9		
CD2	41.0	265	eP	20 21 22.1	−0.6		
GYA	41.8	258	P	20 21 28.6	−0.9		

1987 10 14

O = 22 26 34.9 ± 0.07s
LAT = 3.68 N ± 0.83km
LONG = 128.22 E ± 1.06km
DEPTH = 169 km ± 0.74km
STATIONS USED = 80, STAND DEV = 0.92s

QZH	23.1	337	eP	22 31 28.5	1.8		
QZN	23.6	312	+P	22 31 32.0	0.6		
			pP	22 32 04.0	−0.2		
			sP	22 32 26.5	2.1		
			LN			8.0	0.30
GZH	24.1	325	eP	22 31 36.5	0.3		
SSE	28.1	347	eP	22 32 12.6	−0.4		
NJ2	29.6	344	−P	22 32 25.8	−0.5		
WHN	29.8	335	P	22 32 29.0	0.9		
GYA	30.7	320	P	22 32 36.6	0.5		
			PcP	22 35 30.0	0.6		
KMI	32.5	313	eP	22 32 53.0	0.9		
XAN	35.2	332	+P	22 33 14.3	−0.4		
DL2	35.6	351	eP	22 33 18.4	0.3		
CD2	35.6	322	P	22 33 18.1	−0.2		
TIY	36.8	339	eP	22 33 28.6	−0.2		
			S	22 38 56.0	−3.4		
BJI	37.8	345	eP	22 33 36.5	−0.4		
SNY	38.2	354	+P	22 33 40.0	−0.3		
LZH	39.3	328	+iP	22 33 51.0	1.4		
			PMZ			2.0	0.25

CN2	40.0	357	eP	22 33 55.0	−0.3		
MDJ	40.8	1	+P	22 34 01.7	0.2		
LSA	43.6	310	+P	22 34 24.9	0.1		
GTA	43.9	328	+iP	22 34 27.0	−0.1		
			PcP	22 36 10.4	0.6		
			ScP	22 39 46.9	3.0		
WMQ	53.6	324	−iP	22 35 41.7	0.2		
KSH	59.1	314	P	22 36 22.0	1.5		

1987 10 14
O = 23 30 25.0 ± 0.09s
LAT = 4.08 N ± 1.51km
LONG = 95.33 E ± 1.22km
DEPTH = 59 km ± 0.54km
STATIONS USED = 91, STAND DEV = 0.96s
Ms = 4.9 / 13, m_B = 5.5 / 2

QZN	20.5	43	+P	23 35 01.8	0.6		
			sP	23 35 21.0	0.3		
			PP	23 35 29.0	5.9		
			eS	23 38 42.0	−0.2		
			SS	23 39 11.0	−3.1		
			LN	Ms = 4.8		18.0	1.80
			LE			18.0	1.20
KMI	22.1	18	+P	23 35 18.5	1.3		
			sP	23 35 41.5	4.7		
			LN	Ms = 5.4		14.0	6.90
GYA	24.8	25	P	23 35 44.0	1.1		
			sP	23 36 03.0	0.3		
			S	23 40 01.8	4.7		
GZH	25.7	41	+P	23 35 51.7	0.0		
LSA	25.8	352	+iP	23 35 52.0	−1.0		
			PMZ			0.7	0.070
			S	23 40 18.2	4.1		
			SMN			1.6	0.18
CD2	27.8	16	+iP	23 36 10.4	−1.1		
			PMZ			0.8	0.37
			S	23 40 49.0	1.4		
QZH	30.5	45	−P	23 36 35.8	0.7		
WHN	31.9	32	+iP	23 36 47.0	0.0		
			LZ	Ms = 4.5		28.0	0.90
XAN	32.4	21	+iP	23 36 50.5	−1.2		
			LN	Ms = 5.1		7.0	0.87
LZH	32.8	13	+P	23 36 54.0	−1.5		
			PMZ			1.7	0.080
GTA	35.4	6	+iP	23 37 16.4	−1.4		
NJ2	35.5	36	+P	23 37 19.0	0.5		
SSE	36.3	39	−P	23 37 25.5	0.7		
			PMZ			1.0	0.030
			ScS	23 47 36.0	3.3		
			LE	Ms = 4.8		20.0	0.94
TIY	37.0	23	+P	23 37 30.0	−0.7		
			cS	23 43 13.5	2.6		
			LE	Ms = 4.8		12.0	0.61
			LZ	Ms = 4.7		21.0	0.89
TIA	37.8	29	+P	23 37 36.7	−0.7		
BTO	38.7	18	cP	23 37 45.0	−0.3		
			pP	23 38 00.0	0.6		
			cS	23 43 36.0	−1.4		
			LN	Ms = 5.0		16.0	1.00
			LE			14.0	0.60
			LZ	Ms = 5.0		16.0	1.10
KSH	39.3	336	P	23 37 52.5	1.7		
			sP	23 38 14.0	2.7		
			S	23 43 52.0	5.9		
			SMF	m_B = 5.6		5.0	0.60
HHC	39.4	20	+P	23 37 52.0	0.7		
WMQ	40.1	351	P	23 37 57.0	−0.3		
			PMZ			2.0	0.040
			pP	23 38 10.0	−1.5		
			sP	23 38 20.5	2.6		
			S	23 44 00.0	2.0		
			SMN			2.0	0.060
BJI	40.5	25	cP	23 38 01.0	1.3		
			cS	23 44 08.0	4.5		
DL2	42.1	31	−iP	23 38 14.0	0.7		
SNY	45.3	30	+P	23 38 38.8	−0.2		
CN2	47.7	29	+P	23 38 57.0	−0.9		
			cpP	23 39 12.0	−0.2		
			PcP	23 40 26.0	0.1		
			cS	23 45 48.0	−0.1		
			LZ	Ms = 5.0		16.0	0.80
MDJ	50.3	31	+P	23 39 18.5	0.0		
			cS	23 46 20.0	−5.4		
			LZ	Ms = 4.8		20.0	0.60

1987 10 15
O = 01 06 00.5 ± 0.11s
LAT = 6.38 S ± 1.70km
LONG = 129.22 E ± 1.95km
DEPTH = 33 km ± 0.10km
STATIONS USED = 89, STAND DEV = 1.19s
Ms = 5.4 / 46, m_B = 5.6 / 5

QZN	31.6	323	−P	01 12 25.5	2.2		
			PP	01 13 29.0	1.1		
			S	01 17 31.0	2.5		
			sS	01 17 42.0	−2.6		
			LE	Ms = 5.6		17.0	6.70
QZH	32.8	342	eP	01 12 35.0	1.7		
			S	01 17 49.0	2.5		
			sS	01 17 58.0	−4.6		

			LN		Ms=5.5	14.0	1.48
			LE			22.0	5.81
GZH	33.1	333	eP	01 12 36.0	−0.2		
			eS	01 17 50.0	−2.6		
			LE		Ms=5.3	11.0	1.90
SSE	38.0	349	eP	01 13 18.5	0.6		
			PMZ			1.0	0.020
			PP	01 14 44.0	−4.0		
			SS	01 21 44.0	−1.5		
			LN		Ms=5.3	18.0	2.69
GYA	39.3	327	P	01 13 27.2	−1.2		
			pP	01 13 32.6	−5.0		
			S	01 19 22.0	−4.2		
			LN		Ms=5.8	14.0	4.90
			LE			14.0	3.50
WHN	39.4	340	eP	01 13 30.0	1.0		
			sP	01 13 42.0	−0.3		
			iS	01 19 31.0	2.6		
			LZ		Ms=5.2	20.0	2.30
NJ2	39.5	346	+P	01 13 30.4	0.6		
KMI	40.5	322	eP	01 13 41.0	2.0		
			sP	01 13 53.0	1.0		
			iS	01 19 52.0	5.6		
			LE		Ms=5.3	16.0	2.00
TIA	43.9	346	eP	01 14 05.0	−0.9		
			epP	01 14 10.0	−5.2		
			eS	01 20 34.0	−0.7		
			SMN			14.0	1.48
			SME			13.0	1.24
			LN		Ms=5.4	12.0	1.72
			LE			10.0	0.73
CD2	44.4	328	eP	01 14 08.8	−1.2		
			S	01 20 42.5	1.5		
			LN		Ms=5.7	12.0	3.68
XAN	44.5	336	P	01 14 10.5	−1.0		
			eS	01 20 44.0	−0.8		
			LN		Ms=5.8	16.0	4.23
			LE			20.0	4.18
DL2	45.6	352	eP	01 14 23.5	3.7		
			S	01 20 58.0	−0.7		
			LN		Ms=5.7	12.0	0.89
			LE			12.0	3.05
TIY	46.6	342	+P	01 14 27.5	−0.1		
			sP	01 14 36.5	−4.2		
			S	01 21 16.0	3.5		
			SME			20.0	2.49
			SS	01 24 34.0	2.6		
			LN		Ms=5.4	12.0	0.56
			LE			15.0	1.93
BJI	47.7	346	eP	01 14 36.0	−0.6		
			eS	01 21 28.0	−2.0		
			SME		m_B=5.4	12.0	0.66
			LN		Ms=5.2	13.0	1.12
SNY	48.2	354	eP	01 14 39.7	−0.9		
			S	01 21 31.0	−5.3		
			SMN			24.0	3.47
			SME			21.0	2.10
			LN		Ms=5.9	20.0	7.03
			LE			18.0	3.14
			LZ		Ms=5.6	24.0	4.69
LZH	48.5	332	eP	01 14 42.5	−0.2		
			PMZ			2.0	0.27
			pP	01 14 52.0	0.1		
			LN		Ms=5.6	33.0	4.91
			LE			38.0	4.73
HHC	49.7	342	eP	01 14 52.4	0.3		
			S	01 22 03.0	6.3		
			LN		Ms=5.2	10.0	0.60
			LE			12.0	0.73
BTO	50.0	341	P	01 14 54.0	−0.1		
			sP	01 15 03.0	−4.1		
			PP	01 16 50.0	0.9		
			S	01 22 04.0	3.7		
			LN		Ms=5.3	17.0	1.50
			LE			15.0	0.80
			LZ		Ms=5.4	17.0	2.20
CN2	50.1	356	+P	01 14 55.0	0.4		
			sP	01 15 05.0	−2.8		
			eS	01 22 04.0	1.4		
			LZ		Ms=5.4	20.0	2.40
MDJ	50.8	0	eP	01 15 00.0	0.1		
			sP	01 15 09.0	−4.1		
			eS	01 22 07.0	−5.3		
			LZ		Ms=5.5	34.0	5.30
LSA	51.2	317	eP	01 15 02.3	−1.6		
			S	01 22 17.0	−0.4		
			SME		m_B=5.6	9.0	0.75
			LE		Ms=5.6	5.5	1.02
GTA	53.1	332	P	01 15 16.8	−0.6		
			eS	01 22 40.0	−4.1		
			LN		Ms=5.6	32.0	4.40
			LE			21.0	2.78
			LZ		Ms=5.4	26.0	2.83
WMQ	62.4	327	P	01 16 23.1	−0.3		
			PMZ			1.7	0.12
			pP	01 16 29.5	−3.3		
			S	01 24 50.0	4.4		
			LN		Ms=5.7	14.0	2.21
KSH	67.0	318	P	01 16 54.0	1.0		
			sP	01 17 03.0	−3.3		

		LN	Ms=5.6	15.0	1.80	

1987 10 15
O=06 07 34.3 ± 0.06s
LAT=15.07 S ± 1.08km
LONG=175.40 W ± 1.09km
DEPTH=329 km ± 0.49km
STATIONS USED = 31, STAND DEV= 0.81s

CN2	79.6	321	+P	06 19 06.6	−1.0	
BJI	83.8	314	eP	06 19 30.0	0.6	
GYA	86.2	299	−P	06 19 42.2	1.1	
XAN	86.9	306	−P	06 19 45.0	0.7	
KMI	89.1	296	−P	06 19 56.5	1.3	
GTA	95.5	309	P	06 20 24.2	−0.1	

1987 10 15
O=07 27 00.4 ± 0.12s
LAT=51.80 N ± 2.60km
LONG=175.36 W ± 1.42km
DEPTH= 63 km ± 0.20km
STATIONS USED = 71, STAND DEV= 0.95s
Ms=4.9/ 7,

MDJ	36.6	281	eP	07 34 00.0	−2.8		
CN2	39.6	282	eP	07 34 27.5	0.1		
SNY	41.8	281	−iP	07 34 47.7	1.8		
			LN	Ms=4.8		25.0	0.98
			LZ	Ms=4.8		25.0	1.05
DL2	44.8	279	P	07 35 10.8	1.0		
BJI	47.4	284	eP	07 35 31.0	0.5		
TIA	49.2	279	+P	07 35 45.6	0.7		
SSE	50.1	271	+P	07 35 53.3	1.4		
			PMZ			1.0	0.050
BTO	50.7	288	eP	07 35 56.0	−0.3		
NJ2	50.9	274	+P	07 35 57.8	−0.2		
TIY	51.1	284	eP	07 36 00.0	0.7		
			eS	07 43 11.5	0.8		
			LZ	Ms=5.1		24.0	1.35
WHN	54.8	276	P	07 36 24.5	−1.9		
XAN	55.7	283	P	07 36 32.8	−0.3		
QZH	56.1	268	eP	07 36 36.0	−0.1		
LZH	57.3	288	eP	07 36 45.0	0.1		
GTA	57.4	294	eP	07 36 44.0	−1.4		
			PcP	07 37 38.6	1.4		
			ScP	07 41 35.0	5.3		
			LN	Ms=5.1		16.0	0.71
			LE			22.0	0.64
			LZ	Ms=4.9		18.0	0.61
GZH	60.7	271	eP	07 37 08.3	0.0		
WMQ	60.9	305	P	07 37 09.0	−0.6		
CD2	61.0	284	eP	07 37 10.2	0.1		
GYA	62.4	278	+P	07 37 20.0	0.3		
KMI	65.8	280	+P	07 37 42.5	0.6		
LSA	69.3	292	+P	07 38 04.0	−0.2		

1987 10 15
O=14 08 18.1 ± 0.06s
LAT= 1.26 N ± 0.93km
LONG=122.87 E ± 1.22km
DEPTH= 30 km ± 0.26km
STATIONS USED = 55, STAND DEV= 1.03s
Ms=4.7/ 3,

QZN	21.8	325	eP	14 13 11.2	1.5		
GYA	29.5	329	P	14 14 22.4	0.0		
WHN	30.2	345	eP	14 14 28.0	−0.6		
			LZ	Ms=4.6		22.0	1.00
KMI	30.7	322	eP	14 14 33.5	0.7		
CD2	34.6	330	eP	14 15 06.1	−0.8		
XAN	35.1	340	P	14 15 10.7	−0.7		
TIY	37.5	346	eP	14 15 32.0	0.3		
			LZ	Ms=4.7		22.0	0.91
BJI	39.1	352	eP	14 15 44.0	−0.5		
BTO	40.9	345	eP	14 16 01.3	1.8		
GTA	43.4	334	eP	14 16 20.7	0.3		
			pP	14 16 32.6	3.4		

1987 10 15
O=15 13 45.5 ± 0.10s
LAT=38.11 N ± 1.19km
LONG=106.39 E ± 0.68km
DEPTH= 7 km ± 0.36km
STATIONS USED = 8, STAND DEV= 3.20s
M_L=3.1/ 6,

LZH	2.9	226	cPg	15 14 34.5	−1.9		
			eSn	15 15 07.0	−1.7		
			SMN	M_L=3.1		1.5	0.080
			SME			1.0	0.090
XAN	4.5	152	cPg	15 15 04.7	−1.3		
TIY	4.8	93	cPg	15 15 10.8	0.5		
			eSg	15 16 08.7	−7.0		
			SMN	M_L=3.2		0.6	0.030
GTA	5.3	286	cPg	15 15 22.4	3.0		
			Sg	15 16 27.4	−4.2		
			SMN	M_L=2.8		0.7	0.010
			SME			0.6	0.010

1987 10 15
O=16 22 50.5 ± 0.14s
LAT=27.30 N ± 1.62km
LONG= 93.03 E ± 1.38km
DEPTH= 48 km ± 0.06km

STATIONS USED = 52, STAND DEV= 2.11s

Ms=4.3/ 4,

LSA	2.9	326	iP	16 23 40.8	4.7		
KMI	9.0	102	eP	16 25 03.5	2.6		
			eS	16 26 47.5	6.4		
			LN	Ms=3.9		9.0	0.60
CD2	10.1	67	eP	16 25 19.2	3.9		
GYA	12.2	91	P	16 25 44.8	0.2		
LZH	12.7	44	-P	16 25 50.5	-0.8		
			PMZ			1.5	0.10
			LN	Ms=4.3		10.0	0.93
GTA	13.3	23	P	16 25 57.7	-1.9		
XAN	15.2	60	P	16 26 23.0	-1.2		
WMQ	17.0	347	-P	16 26 49.2	2.1		
QZN	17.5	115	eP	16 26 55.2	2.2		
KSH	18.7	315	eP	16 27 07.5	0.3		
WHN	18.9	75	P	16 27 11.5	1.1		
BTO	19.3	42	eP	16 27 14.2	-0.5		
			pP	16 27 19.0	-5.4		
			eS	16 30 44.0	-0.3		
			LN	Ms=4.4		12.0	0.60
			LE			14.0	0.40
			LZ	Ms=4.4		12.0	0.70
TIY	19.3	53	P	16 27 14.0	-1.0		
			eS	16 30 43.5	-1.6		
HHC	20.4	44	eP	16 27 26.8	0.5		
NJ2	22.9	72	eP	16 27 49.8	-1.6		
BJI	23.0	51	eP	16 27 53.5	1.2		
CN2	30.8	49	eP	16 29 06.0	1.3		

1987 10 15

O=22 30 29.7 ± 0.09s
LAT=37.84 N ± 0.91km
LONG=100.68 E ± 0.86km
DEPTH= 12 km ± 0.19km
STATIONS USED = 9, STAND DEV= 2.85s
M_L=3.1/ 8,

GTA	1.7	337	Pg	22 31 00.0	-0.1		
			Sg	22 31 24.4	1.2		
			SMN	M_L=2.8		0.7	0.060
			SME			1.0	0.14
LZH	3.1	124	Pg	22 31 23.5	-0.9		
			Sg	22 32 00.0	-6.2		
			SME	M_L=3.6		1.5	0.20

1987 10 16

O=10 28 00.7 ± 0.08s
LAT= 7.38 S ± 1.08km
LONG=148.46 E ± 1.08km
DEPTH= 43 km ± 1.03km

STATIONS USED = 67, STAND DEV= 1.07s

Ms=4.9/ 1,

QZN	46.2	305	P	10 36 24.8	0.8		
SSE	46.3	327	+P	10 36 24.5	-0.1		
			PMZ			1.0	0.040
			LN	Ms=4.9		20.0	0.94
NJ2	48.3	326	+P	10 36 41.0	0.6		
WHN	49.9	321	P	10 36 53.2	0.6		
TIA	52.4	328	eP	10 37 10.8	-0.7		
GYA	52.7	311	P	10 37 14.0	0.4		
SNY	54.0	337	eP	10 37 22.4	-0.9		
MDJ	54.5	344	eP	10 37 26.2	-0.6		
KMI	55.0	308	+P	10 37 32.0	1.3		
XAN	55.7	320	+P	10 37 34.6	-0.8		
BJI	55.8	330	eP	10 37 36.0	-0.4		
TIY	56.0	326	eP	10 37 38.0	-0.3		
CD2	57.3	314	eP	10 37 46.6	-0.4		
HHC	58.8	328	eP	10 37 57.4	-0.1		
LZH	60.2	319	+iP	10 38 08.0	0.6		
GTA	64.7	320	+iP	10 38 37.8	0.3		
LSA	66.2	307	P	10 38 47.5	0.0		
WMQ	74.8	319	+P	10 39 39.4	0.5		
KSH	81.3	312	eP	10 40 17.0	1.7		

1987 10 16

O=11 13 58.1 ± 0.08s
LAT=35.12 N ± 0.57km
LONG=111.05 E ± 0.81km
DEPTH= 10 km ± 0.28km
STATIONS USED = 10, STAND DEV= 2.51s
M_L=3.1/ 11,

XAN	2.1	239	+Pg	11 14 33.8	-0.8		
			Sg	11 15 01.6	-1.1		
			SMN	M_L=2.7		0.5	0.060
			SME			0.5	0.050
TIY	2.8	23	ePg	11 14 50.0	2.0		
			Sg	11 15 24.0	-2.4		
			SMN	M_L=3.1		0.7	0.070
			SME			0.8	0.090
GYA	9.4	205	P	11 16 16.4	-0.7		

1987 10 16

O=11 42 15.0 ± 0.11s
LAT=44.76 N ± 1.40km
LONG=101.14 E ± 1.09km
DEPTH= 34 km ± 0.13km
STATIONS USED = 50, STAND DEV= 2.04s
Ms=4.3/ 9, M_L=4.9/ 8,

GTA	5.4	191	-iPn	11 43 35.4	1.2		
			Pg	11 43 52.2	1.1		

			Sn	11 44 35.0	−2.1		
			Sg	11 45 00.0	−5.5		
			SMN	M_L=4.4		1.0	0.20
			SME			1.0	0.49
			LN	Ms=4.3		8.5	3.61
BTO	7.7	119	ePn	11 44 08.0	2.0		
			eSn	11 45 34.0	−0.4		
			LN	Ms=3.9		8.0	0.50
			LE			8.0	0.40
			LZ	Ms=4.0		8.0	0.80
HHC	8.6	113	P	11 44 18.0	−2.3		
			S	11 45 54.4	−2.4		
			SMN	M_L=5.0		1.0	0.33
			SME			1.0	0.28
LZH	8.9	166	eP	11 44 24.0	−0.6		
			LN	Ms=4.5		6.0	0.83
			LE			5.0	1.09
WMQ	9.7	269	eP	11 44 33.3	−2.0		
			SMN			1.5	0.63
TIY	11.0	126	eP	11 44 53.2	−0.6		
			LE	Ms=4.3		6.0	0.78
BJI	12.1	108	eP	11 45 08.0	0.3		
CN2	17.4	85	eP	11 46 18.5	1.3		
NJ2	18.8	127	eP	11 46 36.5	2.8		
GYA	18.8	164	P	11 46 34.2	−0.2		
KMI	19.6	176	eP	11 46 43.0	−1.0		
MDJ	20.2	80	eP	11 46 53.0	3.2		
SSE	20.8	124	eP	11 46 57.2	1.0		

1987 10 16
O=15 03 45.6 ± 0.06s
LAT=28.62 N ± 0.45km
LONG=103.39 E ± 0.60km
DEPTH= 9 km ± 0.01km
STATIONS USED = 5, STAND DEV= 2.63s
M_L=2.6 / 5,

CD2	2.3	8	ePg	15 04 26.2	−0.3		
			Sg	15 04 54.5	−3.5		
			SME	M_L=3.1		0.4	0.13
GYA	3.6	126	Pg	15 04 51.4	1.7		
			Sg	15 05 35.0	−3.9		
			SMN	M_L=2.7		1.0	0.020

1987 10 16
O=15 22 03.7 ± 0.13s
LAT=31.72 N ± 0.94km
LONG=103.89 E ± 0.93km
DEPTH= 4 km ± 0.52km
STATIONS USED = 13, STAND DEV= 3.04s
M_L=3.6 / 10,

CD2	0.8	188	−iPg	15 22 21.0	2.8		
			Sg	15 22 34.6	5.3		
			SME	M_L=3.2		0.6	0.68
LZH	4.4	360	ePg	15 23 21.5	0.7		
			eSg	15 24 16.0	−4.1		
			SMN	M_L=3.4		1.5	0.080
			SME			1.5	0.050
XAN	4.8	60	ePn	15 23 17.2	−0.2		
			Pg	15 23 31.8	3.0		
			Sg	15 24 33.8	−0.9		
			SMN	M_L=3.7		0.5	0.11
			SME			0.6	0.090
GYA	5.8	154	Pn	15 23 33.4	2.8		
			Sn	15 24 41.4	1.9		
			SMN	M_L=3.9		1.2	0.10
			SME			1.2	0.10

1987 10 16
O=16 42 52.9 ± 0.06s
LAT= 7.00 S ± 1.20km
LONG=154.16 E ± 1.12km
DEPTH= 17 km ± 0.66km
STATIONS USED = 17, STAND DEV= 1.28s

CN2	56.8	335	+P	16 52 38.5	−1.1
CD2	61.2	311	eP	16 53 10.0	0.3
WMQ	78.3	317	eP	16 54 52.5	−1.9
KSH	85.4	311	eP	16 55 34.5	2.9

1987 10 16
O=18 30 47.4 ± 0.10s
LAT=44.22 N ± 1.44km
LONG= 82.83 E ± 1.21km
DEPTH= 21 km ± 0.47km
STATIONS USED = 46, STAND DEV= 2.19s
M_L=4.5 / 6,

WMQ	3.5	95	Pn	18 31 46.4	4.6		
			Sn	18 32 30.7	5.9		
KSH	7.0	229	ePn	18 32 34.2	4.9		
			Sg	18 34 27.7	1.3		
			SMN	M_L=4.6		0.8	0.30
			SME			0.6	0.20
GTA	13.5	105	P	18 33 59.7	−1.6		
			SMN			1.0	0.050
LSA	15.9	153	P	18 34 37.3	4.5		
LZH	18.0	110	eP	18 34 59.0	0.8		
BTO	20.4	91	eP	18 35 24.0	−1.8		
CD2	21.2	122	eP	18 35 34.3	0.1		
HHC	21.4	89	eP	18 35 36.6	0.2		
XAN	22.6	108	P	18 35 48.4	0.4		
TIY	23.2	96	eP	18 35 54.1	−0.2		

BJI	25.0	88	P	18 36 09.0	−2.4		
GYA	26.2	125	−P	18 36 24.2	1.5		
WHN	28.3	108	eP	18 36 41.7	−0.6		

1987 10 16
O = 18 51 11.0 ± 0.12s
LAT = 43.07 N ± 1.22km
LONG = 117.54 E ± 1.10km
DEPTH = 17 km ± 0.46km
STATIONS USED = 19, STAND DEV = 2.71s
M_L = 3.7 / 19,

BJI	3.2	199	Pg	18 52 06.0	−1.4		
			eSg	18 52 45.0	−6.0		
			SMN	M_L = 4.1		0.5	0.52
			SME			0.5	0.94
SNY	4.6	103	Pg	18 52 36.2	3.2		
			Sg	18 53 31.7	−4.7		
			SMN	M_L = 3.6		0.6	0.10
			SME			0.5	0.090
HHC	5.0	246	cPg	18 52 39.8	0.8		
			Sg	18 53 42.0	−4.8		
			SMN	M_L = 3.9		0.6	0.14
			SME			0.6	0.13
CN2	5.8	80	cPg	18 52 57.0	3.3		
			eSg	18 54 10.4	−2.6		
			SMN	M_L = 3.5		1.0	0.050
			SME			1.0	0.020
BTO	6.1	249	cPg	18 53 00.2	0.7		
			Sg	18 54 18.6	−4.5		
TIY	6.6	218	ePg	18 53 10.4	2.4		
			Sg	18 54 32.1	−6.1		
			SMN	M_L = 3.8		0.6	0.050
			SME			0.6	0.060

1987 10 16
O = 19 08 17.8 ± 0.14s
LAT = 6.34 S ± 0.87km
LONG = 149.30 E ± 0.62km
DEPTH = 58 km ± 1.37km
STATIONS USED = 39, STAND DEV = 1.24s

DL2	51.8	333	eP	19 17 23.5	0.9		
MDJ	53.7	343	eP	19 17 37.0	0.1		
BJI	55.3	329	eP	19 17 49.0	0.4		
XAN	55.4	319	eP	19 17 48.8	−0.4		
CD2	57.2	313	eP	19 18 01.7	0.0		
BTO	59.0	326	eP	19 18 16.0	1.2		
LZH	60.0	318	eP	19 18 20.0	−1.4		
WMQ	74.5	319	eP	19 19 49.4	−3.6		

1987 10 16
O = 20 20 54.6 ± 0.09s
LAT = 24.23 S ± 0.58km
LONG = 179.20 E ± 0.81km
DEPTH = 535 km ± 0.85km
STATIONS USED = 24, STAND DEV = 0.76s

MDJ	82.1	327	eP	20 32 20.0	−1.0		
CN2	83.7	324	−P	20 32 28.6	−0.3		
TIA	83.9	314	eP	20 32 29.8	−0.2		
BJI	86.8	317	eP	20 32 44.0	0.4		
CD2	90.6	304	P	20 33 03.0	1.2		

1987 10 16
O = 20 48 00.6 ± 0.09s
LAT = 6.22 S ± 0.97km
LONG = 149.13 E ± 1.65km
DEPTH = 51 km ± 0.52km
STATIONS USED = 100, STAND DEV = 1.16s
Ms = 7.1 / 58, m_B = 6.6 / 26

QZH	42.9	317	+P	20 55 57.0	0.4		
			PMZ	m_B = 6.6		12.0	11.0
			iS	21 02 14.0	−3.3		
			SMN			16.0	19.4
			SME			16.0	25.8
			sS	21 02 38.0	−1.0		
			LN	Ms = 7.2		20.0	138
			LE			20.0	128
GZH	45.5	311	+P	20 56 17.8	0.4		
			PMZ	m_B = 7.0		11.0	23.8
			S	21 03 00.0	6.2		
			LN	Ms = 6.8		16.0	16.0
			LE			17.0	60.1
SSE	45.7	326	eP	20 56 20.6	1.5		
			PMZ	m_B = 6.4		8.0	4.29
			ePP	20 58 06.0	−0.2		
			PcS	21 01 54.0	5.4		
			S	21 02 52.0	−4.8		
			ScS	21 06 08.0	1.2		
			LN	Ms = 7.5		20.0	212
			LE			20.0	280
			LZ	Ms = 6.8		20.0	68.2
QZN	46.1	304	+P	20 56 22.0	−0.3		
			PMZ			18.0	20.3
			PcP	20 57 55.0	−2.2		
			PP	20 58 10.0	−0.2		
			sS	21 03 24.0	−1.3		
			LN	Ms = 7.1		28.0	24.3
			LE			27.0	178
NJ2	47.8	325	+iP	20 56 35.0	−0.1		
			pP	20 56 45.0	−2.8		
			S	21 03 23.0	−2.7		

1987 10 16

			LE	Ms=7.3	19.0	188	
WHN	49.5	320	eP	20 56 48.0	−0.2		
			PMZ	m_B=6.6	8.0	6.00	
			pP	20 56 58.0	−2.9		
			S	21 03 56.0	6.6		
			SS	21 07 24.0	6.3		
			LN	Ms=7.0	22.0	102	
			LZ	Ms=7.1	24.0	142	
DL2	51.6	333	+iP	20 57 05.0	0.2		
			pP	20 57 15.0	−2.6		
			PP	20 59 03.0	1.0		
			eS	21 04 25.0	4.5		
			LN	Ms=7.5	20.0	241	
			LE		20.0	181	
TIA	51.8	327	eP	20 57 04.9	−1.1		
			PMZ	m_B=6.3	8.0	2.90	
			pP	20 57 14.0	−4.8		
			PcS	21 02 16.6	2.3		
			S	21 04 22.0	0.3		
			SMN		15.0	14.3	
			SME		15.0	8.34	
			SS	21 08 03.0	6.8		
			LN	Ms=7.5	21.0	260	
			LE		19.0	188	
			LZ	Ms=7.5	20.0	273	
GYA	52.4	310	+P	20 57 11.0	0.1		
			PMZ	m_B=6.3	6.0	2.40	
			pP	20 57 19.8	−3.8		
			S	21 04 34.0	3.6		
			LN	Ms=7.0	18.0	33.0	
			LE		18.0	66.0	
SNY	53.2	336	+iP	20 57 16.0	−0.6		
			PP	20 59 21.0	3.6		
			PPMZ		24.0	21.3	
			S	21 04 47.0	6.0		
			SMN		13.0	8.02	
			LN	Ms=7.2	17.0	96.1	
			LE		19.0	97.0	
			LZ	Ms=7.3	18.0	166	
MDJ	53.6	343	eP	20 57 19.2	−0.1		
			pP	20 57 27.0	−5.1		
			PP	20 59 26.0	5.5		
			iS	21 04 46.0	−1.0		
			LZ	Ms=7.3	18.0	159	
CN2	54.2	339	−P	20 57 23.0	−0.9		
			PMZ	m_B=7.0	6.0	11.4	
			S	21 04 57.0	2.7		
			SMN	m_B=7.1	10.0	22.8	
			LZ	Ms=7.4	19.0	209	
KMI	54.8	307	+iP	20 57 28.0	−0.7		
			pP	20 57 38.0	−3.3		
			PP	20 59 30.0	−1.8		
			eS	21 05 04.0	−0.3		
			sS	21 05 20.0	−6.0		
			ScS	21 07 10.0	1.7		
			SS	21 08 45.0	−0.6		
			LN	Ms=6.9	20.0	45.5	
			LE		20.0	40.2	
BJI	55.1	329	eP	20 57 29.0	−1.8		
			PMZ	m_B=6.1	4.5	0.99	
			cpP	20 57 39.0	−4.7		
			PP	20 59 28.0	−6.8		
			eS	21 05 07.0	−1.2		
			SMN		15.0	9.51	
			LN	Ms=7.3	17.0	105	
			LE		18.0	81.0	
			LZ	Ms=7.3	17.0	138	
XAN	55.2	319	+P	20 57 29.0	−2.3		
			ePP	20 59 33.0	−2.4		
			S	21 05 04.0	−4.0		
			LN	Ms=7.2	21.0	101	
			LE		22.0	107	
TIY	55.5	325	+iP	20 57 32.0	−1.3		
			PMZ		24.0	43.2	
			pP	20 57 41.0	−5.1		
			S	21 05 13.5	1.9		
			LN	Ms=7.3	24.0	65.4	
			LE		23.0	188	
CD2	57.0	313	eP	20 57 43.0	−0.9		
			S	21 05 32.0	0.9		
			LE	Ms=7.0	17.0	62.5	
			LZ	Ms=7.1	20.0	90.0	
HHC	58.1	327	+iP	20 57 52.0	−0.3		
			PMZ	m_B=6.2	10.0	2.76	
			pP	20 58 10.0	4.9		
			S	21 05 48.0	1.3		
			SMN		15.0	19.9	
			SME		20.0	63.6	
BTO	58.8	326	+iP	20 57 56.0	−1.0		
			PMZ	m_B=6.3	10.0	4.03	
			S	21 05 57.0	1.4		
			LN	Ms=7.3	18.0	125	
			LE		18.0	18.9	
LZH	59.8	318	+P	20 58 03.0	−0.6		
			PMZ		13.0	11.7	
			PP	21 00 23.0	6.6		
			S	21 06 06.0	−1.8		
			SMN	m_B=6.5	12.0	8.83	
			LN	Ms=6.8	20.0	18.4	
			LE		19.0	41.5	

GTA	64.3	319	eP	20 58 32.8	−0.9		
			PMZ			30.0	36.6
			S	21 07 08.0	3.4		
			SMN	m_B=6.4		12.0	5.95
			LN	Ms=6.8		17.0	33.2
			LZ	Ms=7.2		20.0	91.2
LSA	66.1	306	eP	20 58 45.0	−0.6		
WMQ	74.3	319	+P	20 59 34.5	−1.0		
			pP	20 59 43.5	−5.0		
			PcP	20 59 51.0	2.0		
			PP	21 02 21.0	−1.3		
			S	21 09 07.0	4.0		
			SMN	m_B=6.6		8.0	4.75
			sS	21 09 26.0	−1.1		
			LN	Ms=7.1		17.0	57.2
KSH	81.1	311	+iP	21 00 13.5	0.5		
			S	21 10 20.0	4.5		
			LN	Ms=6.9		19.0	29.9

1987 10 17
O=22 30 50.8 ± 0.07s
LAT=27.58 N ± 0.52km
LONG=100.60 E ± 0.75km
DEPTH= 5 km ± 0.35km
STATIONS USED = 6, STAND DEV= 4.10s
M_L=2.7 / 3,

KMI	3.1	141	cPg	22 31 45.0	−1.0		
			Sg	22 32 27.5	−0.7		
			SMN	M_L=2.7		0.5	0.030
			SME			0.5	0.030
CD2	4.3	39	Pg	22 32 11.4	4.3		

1987 10 17
O=01 13 44.3 ± 0.06s
LAT=36.50 N ± 1.39km
LONG= 70.01 E ± 1.37km
DEPTH=221 km ± 0.73km
STATIONS USED = 63, STAND DEV= 1.25s

KSH	5.6	56	+P	01 15 09.0	1.7		
			S	01 16 12.0	0.7		
			SME			2.0	3.00
WMQ	15.4	56	−iP	01 17 11.8	0.3		
			S	01 20 01.0	5.9		
			SMN			1.5	0.12
LSA	18.9	105	+P	01 17 51.8	0.3		
GTA	23.6	74	+P	01 18 32.8	−4.4		
CD2	28.5	91	eP	01 19 22.2	0.2		
KMI	30.2	103	+P	01 19 36.5	−0.1		
XAN	31.7	83	eP	01 19 49.2	−0.7		
GYA	32.7	97	+P	01 19 57.8	−0.3		
			PcP	01 22 37.4	−0.6		
BJI	36.1	70	eP	01 20 28.0	0.8		
WHN	37.2	86	P	01 20 36.5	0.2		
TIA	37.6	76	−P	01 20 40.7	0.6		
QZN	39.0	106	P	01 20 50.4	−0.9		
GZH	39.6	97	P	01 20 56.6	0.4		
NJ2	40.3	82	−P	01 21 02.2	0.5		
DL2	40.5	70	−P	01 21 04.0	0.6		
SNY	41.3	66	+iP	01 21 10.0	−0.3		

1987 10 17
O=06 37 29.8 ± 0.20s
LAT=56.07 S ± 3.05km
LONG= 27.14 W ± 3.88km
DEPTH= 95 km ± 1.29km
STATIONS USED = 30, STAND DEV= 2.52s

XAN	142.8	108	PKP	06 56 49.8	−3.5
NJ2	146.3	121	+PKP	06 57 05.0	5.8
TIY	147.4	107	+PKP	06 57 03.5	2.2
BTO	148.2	101	cPKP	06 57 05.5	3.0
TIA	148.8	114	PKP	06 57 06.6	3.3
HHC	149.2	102	cPKP	06 57 08.4	4.3
BJI	151.1	108	cPKP	06 57 12.0	5.1

1987 10 17
O=07 43 38.3 ± 0.07s
LAT= 6.39 S ± 0.68km
LONG=149.45 E ± 0.69km
DEPTH= 46 km ± 0.55km
STATIONS USED = 14, STAND DEV= 1.52s

TIA	52.1	327	P	07 52 47.4	0.8		
XAN	55.6	319	eP	07 53 13.2	1.2		
CD2	57.3	313	P	07 53 24.0	−0.5		

1987 10 17
O=14 36 55.4 ± 0.12s
LAT= 9.62 N ± 1.38km
LONG=122.78 E ± 1.56km
DEPTH= 49 km ± 0.44km
STATIONS USED = 60, STAND DEV= 1.28s
Ms=4.4 / 8,

QZH	15.8	346	eP	14 40 40.0	4.3		
			sS	14 43 43.0	−0.3		
			LN	Ms=4.3		20.0	1.20
SSE	21.4	356	+P	14 41 41.8	0.3		
			PMZ			1.0	0.050
			eS	14 45 36.0	5.1		
			LE	Ms=4.4		20.0	0.92
WHN	22.3	341	P	14 41 51.5	1.8		
			S	14 45 52.0	6.4		

			LZ	Ms=4.4	20.0	0.90
NJ2	22.6	351	eP	14 41 55.0	1.7		
GYA	22.7	320	P	14 41 56.0	2.2		
			LN	Ms=4.5	14.0	0.60
			LE		14.0	0.50
KMI	24.5	312	-P	14 42 12.0	0.0		
TIA	27.0	350	eP	14 42 36.0	1.2		
XAN	27.4	334	eP	14 42 37.0	-2.1		
CD2	27.6	323	eP	14 42 39.2	-1.5		
TIY	29.5	343	eP	14 42 56.6	-0.9		
			LZ	Ms=4.4	20.0	0.62
BJI	30.9	350	P	14 43 07.0	-2.6		
SNY	32.1	1	eP	14 43 19.4	-1.0		
			eS	14 48 28.5	0.7		
			LE	Ms=4.5	30.0	0.93
CN2	34.1	3	eP	14 43 37.0	-1.1		
MDJ	35.4	8	-P	14 43 48.2	-0.5		
GTA	36.1	329	eP	14 43 53.8	-1.0		
			LN	Ms=4.6	19.0	0.61
WMQ	45.7	324	eP	14 45 13.0	-0.7		

1987 10 17
O=18 41 09.3 ± 0.08s
LAT=35.46 N ± 1.54km
LONG=139.30 E ± 1.65km
DEPTH= 60 km ± 0.99km
STATIONS USED = 68, STAND DEV= 1.67s
Ms=4.3/ 9,

MDJ	11.8	324	eP	18 43 59.2	2.2		
			sP	18 44 18.0	3.4		
			eS	18 46 08.0	1.4		
			LZ	Ms=4.4	15.0	2.09
SNY	13.8	302	+P	18 44 26.3	2.3		
DL2	14.5	289	eP	18 44 37.9	5.1		
SSE	15.8	259	eP	18 44 52.5	3.5		
			SS	18 48 00.0	-0.1		
			LE	Ms=4.1	12.0	0.55
NJ2	17.3	265	-P	18 45 11.5	2.7		
TIA	18.0	279	eP	18 45 17.5	0.5		
			LN	Ms=4.2	12.0	0.33
			LE		12.0	0.43
BJI	18.8	291	eP	18 45 25.5	-1.4		
			PMZ		1.5	0.10
WHN	21.5	264	P	18 45 55.5	0.7		
			PMZ		1.0	0.080
			LZ	Ms=4.4	16.0	0.70
TIY	21.7	284	eP	18 45 55.6	-1.2		
			eS	18 49 43.0	-4.6		
			LE	Ms=4.3	12.0	0.48
			LZ	Ms=4.3	20.0	0.75
HHC	22.4	292	eP	18 46 02.4	-1.9		
BTO	23.6	291	eP	18 46 14.7	-0.8		
XAN	25.0	276	P	18 46 28.0	-0.9		
GZH	25.7	248	eP	18 46 36.5	0.7		
LZH	28.7	282	eP	18 47 02.0	-1.2		
			PMZ			2.0	0.050
GYA	29.3	261	P	18 47 07.2	-1.3		
CD2	30.0	272	eP	18 47 15.4	0.7		
GTA	31.4	289	eP	18 47 26.8	-0.7		
KMI	33.0	262	-P	18 47 41.0	-0.7		
WMQ	40.0	298	P	18 48 41.5	0.9		
LSA	40.7	276	P	18 48 45.7	-0.4		

1987 10 17
O=23 05 37.4 ± 0.06s
LAT=41.51 N ± 0.46km
LONG= 77.49 E ± 0.60km
DEPTH= 10 km
STATIONS USED = 7, STAND DEV= 2.96s
M_L=3.4/ 6,

KSH	2.4	210	Pn	23 06 16.1	-0.6		
			Sg	23 06 48.5	-2.7		
			SMN	M_{L_a}=3.7		0.5	0.40
			SME			0.5	0.50
WMQ	7.9	70	cPn	23 07 34.6	2.1		
			Sn	23 09 07.3	3.2		
			SME	M_L=3.4		0.8	0.010

1987 10 18
O=02 37 59.8 ± 0.09s
LAT=24.73 N ± 1.33km
LONG=123.28 E ± 1.13km
DEPTH=107 km ± 0.89km
STATIONS USED = 58, STAND DEV= 1.70s

QZH	4.3	274	cP	02 39 02.0	-2.0		
			S	02 39 46.2	-6.6		
			SMN			0.7	0.31
			SME			0.7	0.20
SSE	6.6	344	+P	02 39 35.0	-0.9		
			PMZ			1.0	0.20
			sP	02 40 04.0	1.2		
			eS	02 40 51.0	0.8		
			LN			6.0	0.64
			LE			6.0	1.58
NJ2	8.3	333	-P	02 39 57.5	-1.1		
			eS	02 41 25.5	-5.3		
			LE			4.0	1.20
GZH	9.2	262	eP	02 40 14.5	2.8		
			eS	02 41 56.5	2.0		
WHN	9.8	308	eP	02 40 18.5	-0.8		

			eS	02 42 05.5	−2.6		
			LN			8.6	0.50
QZN	13.7	248	eP	02 41 11.8	1.0		
GYA	15.1	280	P	02 41 30.8	2.0		
XAN	15.6	310	+iP	02 41 38.0	3.4		
			eS	02 44 28.0	3.8		
TIY	15.9	327	eP	02 41 39.8	0.8		
			S	02 44 26.0	−5.3		
BJI	16.4	340	eP	02 41 46.0	1.1		
CD2	18.3	294	eP	02 42 07.1	−1.2		
KMI	18.6	276	−P	02 42 15.0	3.0		
HHC	18.8	331	eP	02 42 14.0	0.1		
CN2	19.1	5	eP	02 42 18.6	1.7		
			ePP	02 42 38.0	−0.3		
BTO	19.3	328	+P	02 42 19.5	0.1		
LZH	20.2	309	eP	02 42 27.5	−1.0		
			PMZ			1.5	0.12
GTA	.24.6	312	eP	02 43 09.5	−2.2		

1987 10 18
O = 03 13 52.0 ± 0.13s
LAT = 36.43 N ± 1.63km
LONG = 69.70 E ± 1.94km
DEPTH = 47 km ± 0.34km
STATIONS USED = 60, STAND DEV = 1.60s
Ms = 4.6 / 2, M_L = 4.9 / 2,

KSH	5.8	57	+iP	03 15 21.3	3.2		
			S	03 16 28.0	4.9		
WMQ	15.6	56	eP	03 17 29.0	−1.7		
			pP	03 17 37.5	−1.9		
			SS	03 20 36.5	−3.5		
			LZ			2.0	0.11
LSA	19.2	104	eP	03 18 14.6	−0.5		
GTA	23.9	74	eP	03 19 04.0	1.3		
LZH	27.5	80	eP	03 19 36.5	0.3		
CD2	28.8	91	eP	03 19 47.8	−0.2		
KMI	30.4	102	eP	03 20 02.0	−0.6		
BTO	31.6	70	eP	03 20 13.3	0.0		
XAN	32.0	83	eP	03 20 15.6	−0.7		
HHC	32.8	69	eP	03 20 23.8	0.5		
GYA	32.9	97	P	03 20 24.0	−0.4		
TIY	33.9	75	P	03 20 33.5	0.4		
			LZ	Ms = 4.5		28.0	0.89
BJI	36.4	70	eP	03 20 55.0	1.1		
WHN	37.4	86	eP	03 21 00.0	−3.0		
TIA	37.9	76	eP	03 21 07.0	0.1		
QZN	39.2	105	P	03 21 22.0	4.3		
NJ2	40.5	81	eP	03 21 28.5	−0.1		
SSE	42.7	82	P	03 21 47.6	0.9		
			PMZ			1.0	0.010
			pP	03 21 54.5	−4.1		
			LZ	Ms = 4.7		16.0	0.45

1987 10 18
O = 03 26 22.4 ± 0.10s
LAT = 34.36 N ± 0.76km
LONG = 100.27 E ± 1.04km
DEPTH = 12 km ± 0.14km
STATIONS USED = 11, STAND DEV = 2.06s
M_L = 3.5 / 6,

LZH	3.4	58	ePn	03 27 16.0	0.2		
			Pg	03 27 21.0	−1.3		
			Sn	03 27 54.0	−3.7		
			Sg	03 28 05.5	−3.2		
			SMN	M_L = 3.7		0.6	0.23
			SME			0.6	0.24
GTA	5.1	356	ePg	03 27 52.2	0.3		
XAN	7.2	90	ePg	03 28 31.0	1.8		
			Sg	03 30 05.0	−2.1		
			SMN	M_L = 3.6		1.2	0.030
			SME			1.2	0.020

1987 10 18
O = 05 20 45.2 ± 0.09s
LAT = 43.79 N ± 1.23km
LONG = 87.21 E ± 0.72km
DEPTH = 8 km ± 0.30km
STATIONS USED = 8, STAND DEV = 2.66s
M_L = 3.2 / 7,

WMQ	0.4	87	iPg	05 20 53.8	2.0		
			Sg	05 21 01.0	4.3		
			SMN	M_L = 2.4		0.5	0.32
			SME			0.4	0.33

1987 10 18
O = 05 29 16.6 ± 0.08s
LAT = 27.64 N ± 0.65km
LONG = 100.87 E ± 0.65km
DEPTH = 12 km ± 0.29km
STATIONS USED = 6, STAND DEV = 3.09s
M_L = 2.7 / 2,

KMI	3.0	146	ePg	05 30 07.0	−3.2		
			Sg	05 30 52.0	0.9		
			SMN	M_L = 2.6		0.5	0.020
			SME			0.5	0.030
CD2	4.1	37	ePg	05 30 28.8	−0.7		
			SME	M_L = 2.8		0.6	0.020

1987 10 18
O = 14 24 48.0 ± 0.15s

LAT= 6.55 S ± 1.45km
LONG=149.26 E ± 1.93km
DEPTH= 38 km ± 0.75km
STATIONS USED = 43, STAND DEV= 1.99s
Ms=5.1/ 1,

QZN	46.4	304	eP	14 33 14.6	1.3		
			eS	14 39 58.0	0.3		
WHN	49.8	320	eP	14 33 43.5	4.0		
TIA	52.1	327	eP	14 33 58.7	1.4		
			LN	Ms=5.1		18.0	1.02
GYA	52.7	310	P	14 34 02.3	0.3		
BJI	55.5	329	eP	14 34 21.5	−0.5		
XAN	55.5	319	eP	14 34 20.8	−1.7		
CD2	57.3	313	eP	14 34 36.4	1.5		
BTO	59.2	326	eP	14 34 47.8	−0.4		
LZH	60.1	318	eP	14 34 58.0	3.3		
WMQ	74.7	319	eP	14 36 25.2	−1.0		

1987 10 18
O=17 33 01.6 ± 0.07s
LAT=41.77 N ± 1.32km
LONG= 79.10 E ± 1.23km
DEPTH= 15 km
STATIONS USED = 6, STAND DEV= 4.00s
M_L=3.4/ 6,

KSH	3.3	227	ePn	17 33 54.5	0.8		
			Sg	17 34 42.4	−3.2		
			SMN	M_L=3.3		0.5	0.10
			SME			0.6	0.10
WMQ	6.6	69	ePn	17 34 41.3	1.9		
			Sn	17 35 57.9	0.8		
			Sg	17 36 33.1	3.2		
			SME	M_L=3.1		1.0	0.010

1987 10 18
O=17 39 28.2 ± 0.07s
LAT= 5.47 S ± 1.14km
LONG=154.06 E ± 1.54km
DEPTH= 11 km ± 0.20km
STATIONS USED = 38, STAND DEV= 1.09s

WHN	52.2	316	eP	17 48 42.5	0.7		
CN2	55.4	335	eP	17 49 03.3	−2.2		
GYA	55.8	307	P	17 49 09.6	1.3		
XAN	58.0	316	P	17 49 23.2	−0.5		
KMI	58.4	304	−P	17 49 28.5	1.6		
CD2	60.1	310	eP	17 49 38.6	−0.1		
LZH	62.6	315	eP	17 49 56.0	0.6		
GTA	67.0	317	eP	17 50 24.2	0.1		
KSH	84.3	310	eP	17 52 01.0	−1.5		

1987 10 18
O=22 23 48.8 ± 0.10s
LAT=52.34 N ± 2.83km
LONG=169.42 W ± 1.48km
DEPTH= 32 km ± 0.21km
STATIONS USED = 62, STAND DEV= 1.02s
Ms=4.8/ 1,

CN2	43.0	286	−P	22 31 46.6	−0.7		
SNY	45.3	284	−P	22 32 06.1	0.5		
BJI	50.8	287	eP	22 32 48.0	−0.4		
TIA	52.7	283	eP	22 33 02.9	−0.2		
SSE	53.8	275	+P	22 33 11.5	0.6		
BTO	53.9	292	−iP	22 33 12.9	0.5		
TIY	54.5	288	P	22 33 17.0	0.7		
			LZ	Ms=4.8		22.0	0.52
NJ2	54.5	278	+P	22 33 15.5	−0.9		
WHN	58.3	280	−iP	22 33 43.7	0.2		
			PMZ			1.0	0.050
XAN	59.1	287	P	22 33 48.4	−0.6		
GTA	60.5	297	−iP	22 33 57.6	−1.0		
LZH	60.6	292	eP	22 34 00.0	0.6		
WMQ	63.5	308	eP	22 34 19.2	0.2		
CD2	64.3	288	eP	22 34 24.6	0.2		
GYA	65.9	282	+P	22 34 34.4	−0.1		
KMI	69.2	284	+P	22 34 56.0	0.5		
LSA	72.4	296	P	22 35 15.0	−0.1		

1987 10 19
O=00 38 23.8 ± 0.08s
LAT= 1.68 N ± 0.66km
LONG=127.03 E ± 0.44km
DEPTH=112 km ± 0.91km
STATIONS USED = 18, STAND DEV= 1.12s

QZN	24.1	317	P	00 43 31.7	1.3
XAN	36.4	334	eP	00 45 18.0	−1.4
GTA	45.0	330	P	00 46 30.4	0.0
WMQ	54.6	326	P	00 47 44.4	1.1

1987 10 19
O=02 00 11.7 ± 0.13s
LAT=27.03 N ± 1.49km
LONG=128.79 E ± 1.78km
DEPTH= 52 km ± 0.66km
STATIONS USED = 54, STAND DEV= 1.87s

SSE	7.8	303	eP	02 02 03.5	−1.6
NJ2	10.0	302	eP	02 02 35.0	−0.5
WHN	13.1	289	eP	02 03 15.0	−2.9
TIA	13.5	316	eP	02 03 25.1	2.5
SNY	15.4	345	eP	02 03 49.8	2.9
BJI	16.7	324	eP	02 04 05.0	1.5

CN2	16.9	352	eP	02 04 10.0	3.1
TIY	17.4	312	eP	02 04 13.7	0.8
XAN	18.5	297	eP	02 04 24.4	−1.4
QZN	19.2	249	eP	02 04 37.3	3.5
GYA	19.8	273	P	02 04 41.0	0.4
HHC	19.8	318	eP	02 04 42.0	1.1
BTO	20.6	316	eP	02 04 51.4	2.2
CD2	22.2	286	eP	02 05 04.2	−1.4
LZH	23.0	299	eP	02 05 15.0	1.2
KMI	23.5	271	+P	02 05 20.0	2.1
GTA	27.1	304	+iP	02 05 50.2	−1.8
WMQ	37.0	308	eP	02 07 16.5	−2.1

1987 10 19
O = 06 54 50.5 ± 0.09s
LAT = 2.73 S ± 1.01km
LONG = 102.25 E ± 1.25km
DEPTH = 162 km ± 1.19km
STATIONS USED = 55, STAND DEV = 1.09s

QZN	22.9	19	iP	06 59 43.6	2.7
			pP	07 00 16.0	3.7
			S	07 03 40.0	5.6
			SS	07 04 36.5	2.9
GYA	29.3	8	P	07 00 40.8	0.2
CD2	33.5	2	eP	07 01 15.7	−1.0
WHN	35.0	18	+iP	07 01 31.0	1.1
XAN	37.1	9	+iP	07 01 47.2	−0.2
			eS	07 07 20.0	−1.5
NJ2	38.0	23	−iP	07 01 56.0	1.1
LZH	38.6	2	eP	07 02 00.0	−0.3
TIA	41.2	18	eP	07 02 20.3	−0.5
GTA	42.0	357	P	07 02 28.2	0.4
			PcP	07 04 19.8	0.0
BTO	43.7	9	eP	07 02 38.8	−2.8
HHC	44.2	10	P	07 02 46.8	1.3
BJI	44.4	15	eP	07 02 47.0	−0.3
WMQ	48.1	346	P	07 03 17.0	0.5
CN2	50.8	22	+iP	07 03 35.6	−1.1
MDJ	53.1	24	eP	07 03 52.3	−1.5

1987 10 19
O = 14 40 59.6 ± 0.08s
LAT = 31.92 N ± 0.78km
LONG = 101.81 E ± 0.58km
DEPTH = 12 km ± 0.23km
STATIONS USED = 9, STAND DEV = 2.63s
M_L = 3.6 / 4,

CD2	1.9	121	cPg	14 41 32.2	−1.9	
			Sg	14 41 58.3	−2.3	
			SMN	M_L = 3.2	0.8	0.17
			SME		0.4	0.23
LZH	4.5	22	cPg	14 42 22.0	3.0	
XAN	6.3	69	Pg	14 42 49.4	−2.2	

1987 10 19
O = 19 14 50.6 ± 0.10s
LAT = 42.62 N ± 0.74km
LONG = 116.45 E ± 1.05km
DEPTH = 8 km ± 0.36km
STATIONS USED = 5, STAND DEV = 4.59s
M_L = 3.0 / 6,

BJI	2.6	185	cPg	19 15 36.0	−0.3	
			cSg	19 16 10.0	−1.6	
			SMN	M_L = 2.3	0.5	0.010
			SME		0.8	0.020

1987 10 19
O = 22 03 02.1 ± 0.05s
LAT = 52.52 N ± 2.88km
LONG = 169.47 W ± 1.38km
DEPTH = 27 km ± 0.85km
STATIONS USED = 38, STAND DEV = 0.95s

CN2	42.9	285	eP	22 10 59.0	−1.6
TIA	52.6	283	eP	22 12 17.3	0.7
SSE	53.7	275	+P	22 12 25.0	0.5
BTO	53.9	292	eP	22 12 26.0	0.3
TIY	54.4	287	eP	22 12 30.2	0.6
NJ2	54.5	278	−P	22 12 29.5	−0.5
WHN	58.3	280	P	22 12 57.2	0.1
XAN	59.0	287	P	22 13 00.1	−2.3
GTA	60.4	297	P	22 13 10.8	−1.0
WMQ	63.4	308	eP	22 13 33.0	0.9
CD2	64.3	288	eP	22 13 38.4	0.6
GYA	65.8	282	+P	22 13 48.0	0.0
KMI	69.2	284	−P	22 14 10.0	0.9
LSA	72.3	296	P	22 14 28.4	0.0

1987 10 20
O = 03 52 05.2 ± 0.06s
LAT = 41.77 N ± 1.69km
LONG = 144.01 E ± 1.23km
DEPTH = 33 km ± 0.88km
STATIONS USED = 71, STAND DEV = 1.31s
Ms = 5.0 / 32, m_B = 5.2 / 1

CN2	13.8	285	+P	03 55 20.0	−0.8	
			cS	03 57 56.0	2.1	
			LZ	Ms = 5.0	18.0	7.60
SNY	15.2	277	+P	03 55 39.0	−0.8	
			LN	Ms = 4.8	16.0	3.88
			LZ	Ms = 4.9	16.0	4.69

BJI	21.1	275	eP	03 56 47.0	−2.3	
			PMZ		1.8	0.060
			S	04 00 36.0	−0.6	
			LE	Ms = 5.2	15.0	5.05
SSE	21.2	247	eP	03 56 51.5	1.3	
			esS	04 00 55.0	2.2	
			SS	04 01 12.0	−0.2	
			LN	Ms = 4.7	15.0	1.63
TIA	21.6	264	eP	03 56 51.9	−2.4	
			LN	Ms = 4.3	25.0	0.79
			LE		25.0	0.57
			LZ	Ms = 4.3	25.0	0.93
NJ2	22.3	252	eP	03 57 01.2	0.1	
			LE	Ms = 5.2	13.0	3.50
HHC	24.3	279	eP	03 57 21.0	−0.4	
TIY	24.5	271	eP	03 57 23.0	−0.5	
			LE	Ms = 4.8	16.0	1.65
BTO	25.5	279	eP	03 57 33.0	0.1	
			cPP	03 58 12.5	0.7	
			eS	04 02 00.0	4.0	
			LN	Ms = 5.2	14.0	0.80
			LE		17.0	3.60
			LZ	Ms = 5.2	17.0	4.00
WHN	26.3	254	P	03 57 41.0	0.9	
			LN	Ms = 5.0	15.0	2.10
			LZ	Ms = 5.1	18.0	3.20
XAN	28.6	266	eP	03 58 01.1	0.2	
			S	04 02 50.0	5.1	
			LE	Ms = 4.9	14.0	1.37
LZH	31.5	273	eP	03 58 28.5	1.2	
			PMZ		2.0	0.070
			eS	04 03 35.0	2.1	
			LN	Ms = 5.1	14.0	1.45
			LE		14.0	1.10
GTA	33.4	281	P	03 58 43.6	0.4	
			LE	Ms = 5.1	15.0	1.98
			LZ	Ms = 5.3	15.5	3.06
CD2	33.9	265	eP	03 58 47.6	−0.1	
			eS	04 04 16.0	6.5	
GYA	34.2	255	P	03 58 50.0	−0.2	
			S	04 04 18.0	5.2	
			LN	Ms = 5.1	16.0	1.10
			LE		16.0	1.20
KMI	37.8	257	eP	03 59 22.0	0.9	
			eS	04 05 11.0	0.9	
			sS	04 05 26.0	1.0	
			LE	Ms = 5.2	18.0	2.40
WMQ	40.7	293	P	03 59 45.8	1.0	
			eS	04 05 57.0	4.0	
			LZ	Ms = 5.5	15.0	2.91
LSA	43.9	272	P	04 00 12.7	0.9	
KSH	50.5	291	eP	04 01 03.6	1.1	
			LN	Ms = 5.3	12.0	1.10

1987 10 20

O = 09 23 36.1 ± 0.12s
LAT = 52.80 N ± 2.50km
LONG = 172.19 E ± 1.18km
DEPTH = 35 km ± 0.21km
STATIONS USED = 96, STAND DEV = 1.03s
Ms = 5.9 / 63, m_B = 6.1 / 30

MDJ	28.9	271	+P	09 29 34.0	−0.4	
			sP	09 29 45.0	−3.0	
			PP	09 30 28.0	0.3	
			eS	09 34 23.0	1.7	
			SS	09 35 56.0	6.3	
			LZ	Ms = 5.6	14.0	5.96
CN2	31.9	273	+iP	09 29 59.0	−1.6	
			PMZ	m_B = 5.9	5.0	1.10
			pP	09 30 06.5	−3.5	
			PP	09 31 02.0	−4.1	
			PPMZ		6.0	1.40
			eS	09 35 02.0	−5.9	
			LZ	Ms = 6.2	15.0	26.2
SNY	34.1	271	+iP	09 30 20.0	−0.1	
			PMZ		20.0	1.87
			PP	09 31 32.0	−2.3	
			S	09 35 40.0	−2.0	
			SMN		22.0	2.29
			ScS	09 40 34.0	−4.1	
			LN	Ms = 6.0	18.0	14.8
			LE		18.0	7.86
DL2	37.1	269	eP	09 30 45.8	0.6	
			PP	09 32 14.0	2.2	
			S	09 36 26.0	−1.6	
			LN	Ms = 5.8	14.0	4.48
			LE		14.0	5.52
BJI	39.7	274	eP	09 31 06.0	−0.9	
			PMZ	m_B = 6.0	5.0	1.16
			cPP	09 32 42.0	−0.4	
			eS	09 37 04.0	−4.0	
			LN	Ms = 5.8	15.0	6.72
TIA	41.5	269	+P	09 31 23.0	0.6	
			PMZ		14.0	1.43
			PP	09 33 04.0	2.2	
			PPMZ		16.0	1.23
			S	09 37 40.0	5.1	
			SMN		16.0	1.99
			SME		16.0	0.88
			LN	Ms = 5.6	17.0	4.32

			LZ		Ms=5.8	17.0	6.43
HHC	42.0	279	+P	09 31 26.5	0.6		
			PP	09 33 06.0	−0.3		
			eS	09 37 44.0	1.7		
			LZ		Ms=5.7	5.0	1.45
SSE	42.6	260	−P	09 31 32.0	1.0		
			PMZ		m_B=6.2	5.0	1.75
			pP	09 31 44.0	3.2		
			sP	09 31 47.5	2.6		
			PP	09 33 07.0	−5.7		
			SMN			16.0	3.55
			SME			16.0	3.57
			sS	09 38 10.0	2.5		
			cS$	09 41 00.0	4.1		
			ScS	09 41 28.0	1.5		
			LN		Ms=5.9	20.0	11.1
			LZ		Ms=5.7	20.0	6.54
BTO	43.0	279	+iP	09 31 36.0	1.2		
			sP	09 31 46.5	−2.0		
			cPP	09 33 19.0	2.0		
			S	09 37 58.0	1.1		
			ScS	09 41 33.0	3.8		
			LN		Ms=6.2	16.0	4.50
			LE			16.0	15.4
			LZ		Ms=6.2	16.0	16.2
NJ2	43.3	263	+iP	09 31 37.5	0.5		
			PMZ		m_B=6.0	5.5	1.30
			sP	09 31 47.5	−3.3		
			iS	09 38 02.0	0.0		
			SMN		m_B=5.8	9.0	1.50
			LN		Ms=5.7	15.0	4.40
TIY	43.4	274	+iP	09 31 38.7	1.0		
			PMZ		m_B=5.9	12.0	2.41
			PP	09 33 23.0	2.4		
			S	09 38 08.0	5.8		
			SMN			16.0	3.09
			SME			15.0	1.77
			SS	09 41 16.0	5.4		
			ScS	09 41 35.0	3.5		
			LZ		Ms=5.9	16.0	8.56
WHN	47.1	265	eP	09 32 06.5	−0.6		
			PMZ		m_B=6.3	5.0	2.20
			pP	09 32 14.0	−2.8		
			iS	09 38 58.0	1.7		
			SMN		m_B=6.4	7.0	2.80
			SME			6.0	1.50
			iScS	09 41 58.0	2.9		
			LN		Ms=5.6	16.0	3.30
			LZ		Ms=5.5	20.0	3.30
XAN	48.0	273	+P	09 32 14.1	0.1		
			PMZ		m_B=6.0	5.0	1.00
			sP	09 32 25.0	−2.7		
			PP	09 34 04.9	0.2		
			S	09 39 09.9	2.3		
			iScS	09 42 02.9	2.2		
			SS	09 42 33.9	2.5		
			LN		Ms=5.9	13.0	3.22
			LE			14.0	5.14
QZH	48.7	257	+P	09 32 19.0	−0.4		
			PP	09 34 12.0	0.4		
			eS	09 39 14.0	−4.5		
			SME			16.0	2.97
			ScS	09 42 10.0	4.7		
			LN		Ms=5.6	16.0	2.26
			LE			16.0	2.20
LZH	49.7	279	+iP	09 32 28.0	0.9		
			PMZ			14.0	1.70
			PP	09 34 24.0	2.5		
			S	09 39 37.0	6.0		
			SMN		m_B=6.1	7.0	1.91
			ScS	09 42 17.0	5.1		
			LN		Ms=6.3	15.0	9.10
			LE			15.0	11.3
GTA	49.8	285	+iP	09 32 28.7	0.1		
			PP	09 34 25.5	2.2		
			PPMZ			7.0	1.14
			S	09 39 38.0	4.3		
			SMN			17.0	1.80
			SME			20.0	2.48
			ScS	09 42 17.0	3.8		
			LE		Ms=6.0	15.0	7.32
			LZ		Ms=6.3	15.5	14.0
GZH	53.2	260	P	09 32 54.0	0.3		
			eS	09 40 19.2	−1.7		
			LN		Ms=5.6	20.0	3.40
CD2	53.3	274	P	09 32 54.1	−0.2		
			sP	09 33 05.0	−3.1		
			S	09 40 25.0	4.2		
			LE		Ms=5.9	14.0	4.40
			LZ		Ms=6.0	14.0	6.00
WMQ	53.8	297	+iP	09 32 58.3	0.0		
			PMZ		m_B=6.2	6.0	1.79
			sP	09 33 08.2	−4.0		
			PP	09 35 01.5	1.5		
			S	09 40 33.3	5.1		
			SMN			16.0	2.15
			sS	09 40 42.0	−3.7		
			ScS	09 42 42.0	1.5		
			LN		Ms=6.2	26.0	18.0
			LZ		Ms=6.3	17.0	15.0

GYA	54.7	268	+P	09 33 04.4	−0.6		
			PMZ	m_B=6.2		5.0	1.50
			pP	09 33 11.8	−2.9		
			S	09 40 43.0	2.7		
			ScS	09 42 49.0	2.1		
			LN	Ms=6.0		18.0	4.60
			LE			18.0	4.80
KMI	58.1	270	+iP	09 33 29.0	−0.2		
			PMZ	m_B=5.8		6.0	0.70
			PP	09 35 42.0	3.4		
			iS	09 41 29.0	2.5		
			ScS	09 43 11.0	−0.2		
			LE	Ms=6.0		17.0	6.40
QZN	58.4	260	+P	09 33 32.0	0.9		
			cPP	09 35 43.0	1.7		
			SMN	m_B=6.1		9.0	1.80
			SME			9.0	1.30
			ScS	09 43 14.0	0.5		
			LN	Ms=5.8		19.0	3.20
			LE			16.0	2.00
LSA	61.7	283	+P	09 33 53.4	−0.9		
			iS	09 42 16.0	2.3		
			sS	09 42 29.0	−0.3		
			ScS	09 43 44.0	6.0		
			LN	Ms=5.9		15.0	2.59
			LE			16.0	3.75
KSH	63.1	300	+iP	09 34 04.0	0.6		
			sP	09 34 14.0	−3.3		
			PP	09 36 26.0	3.1		
			S	09 42 35.0	5.7		
			sS	09 42 46.0	−1.1		
			LE	Ms=6.2		14.0	7.30

1987 10 20
O=14 18 51.0 ± 0.10s
LAT=27.67 N ± 1.64km
LONG=140.89 E ± 1.97km
DEPTH= 43 km ± 0.49km
STATIONS USED = 85, STAND DEV= 1.46s
Ms=4.8/40, m_B=5.3/10

SSE	17.5	286	+iP	14 22 55.0	1.3		
			PMZ	m_B=5.5		10.0	2.26
			SS	14 26 28.0	1.4		
			LZ	Ms=4.6		20.0	2.34
MDJ	19.2	335	cP	14 23 15.0	1.0		
			cS	14 26 40.0	−2.5		
			LE	Ms=4.9		15.0	2.91
DL2	19.6	310	P	14 23 17.0	−1.3		
			LN	Ms=4.9		14.0	1.79
			LE			14.0	1.84
NJ2	19.6	288	−P	14 23 19.0	0.5		
			S	14 26 56.5	5.3		
			LN	Ms=4.6		12.0	1.00
SNY	20.0	319	+P	14 23 22.4	−0.5		
			LN	Ms=4.9		12.0	1.20
			LE			14.0	1.93
QZH	20.2	267	+P	14 23 25.0	0.3		
			PMZ	m_B=5.1		12.0	1.20
			S	14 27 08.0	4.8		
			LN	Ms=4.7		20.0	1.24
			LE			16.0	1.65
TIA	21.9	299	eP	14 23 41.9	0.0		
			PMZ	m_B=5.1		10.0	0.96
			S	14 27 41.2	6.4		
			LN	Ms=4.6		14.0	0.83
			LE			20.0	1.07
			LZ	Ms=4.5		20.0	1.28
WHN	23.3	283	−iP	14 23 57.0	0.4		
			LN	Ms=4.9		8.0	1.00
			LZ	Ms=4.6		24.0	1.50
BJI	23.9	307	eP	14 24 00.0	−1.5		
			PMZ	m_B=4.9		10.0	0.57
			eS	14 28 16.0	4.6		
			SMN			14.0	0.76
			LN	Ms=4.6		16.0	0.93
GZH	25.3	266	eP	14 24 15.5	0.3		
			eS	14 28 42.0	6.6		
TIY	25.9	300	P	14 24 21.0	0.1		
			S	14 28 41.5	−2.9		
			LE	Ms=4.7		10.5	0.83
			LZ	Ms=4.8		22.0	1.94
HHC	27.4	306	P	14 24 35.3	0.0		
XAN	28.1	291	−P	14 24 40.1	−1.1		
			eS	14 29 20.0	−1.5		
			LE	Ms=4.9		12.0	1.28
BTO	28.5	305	eP	14 24 44.0	−0.6		
			PP	14 25 34.0	−2.1		
			S	14 29 26.5	0.0		
			LN	Ms=4.8		11.0	0.70
			LE			12.0	0.50
			LZ	Ms=4.7		12.0	0.70
QZN	29.7	260	eP	14 24 57.0	1.5		
			ePP	14 25 52.0	−0.2		
			eS	14 29 50.0	2.9		
			LE	Ms=4.7		17.0	1.00
GYA	30.4	276	P	14 25 01.6	−0.6		
			S	14 30 04.0	6.1		
			LN	Ms=5.0		16.0	0.70
			LE			16.0	1.60
LZH	32.4	294	+P	14 25 19.0	−0.5		

			PMZ			1.2	0.090
			LE	Ms=4.8		16.0	1.10
CD2	32.5	285	eP	14 25 18.8	−1.0		
KMI	34.2	275	+P	14 25 35.5	0.6		
			sP	14 25 49.0	−1.5		
			eS	14 31 02.0	4.5		
			LN	Ms=5.0		16.0	1.40
GTA	35.9	300	P	14 25 48.4	−1.1		
			eS	14 31 24.0	0.1		
			LN	Ms=5.1		17.0	1.80
			LE			19.0	0.92
			LZ	Ms=4.8		20.0	1.00
LSA	43.4	285	eP	14 26 52.0	−0.2		
WMQ	45.3	305	−P	14 27 06.5	−0.4		
			PMZ			1.7	0.14
			LN	Ms=5.0		14.0	0.79

1987 10 20

O=21 11 01.0 ± 0.20s
LAT= 0.87 N ± 2.91km
LONG= 86.98 W ± 3.02km
DEPTH= 6 km ± 1.33km
STATIONS USED = 33, STAND DEV= 2.75s

WMQ	135.3	5	ePKP	21 30 25.5	2.5		
TIY	137.6	337	ePKP	21 30 33.0	5.7		
GTA	139.4	352	ePKP	21 30 31.0	0.3		
XAN	142.2	338	ePKP	21 30 35.1	−0.4		
WHN	142.7	329	ePKP	21 30 38.0	1.7		
CD2	146.8	343	ePKP	21 30 44.4	1.0		
GYA	149.8	335	PKP	21 30 52.0	3.7		
KMI	152.5	341	ePKP	21 30 52.5	0.1		

1987 10 20

O=21 30 32.8 ± 0.48s
LAT=36.82 N ± 4.11km
LONG= 80.67 E ± 1.21km
DEPTH= 10 km
STATIONS USED = 6, STAND DEV= 2.25s
M_L=3.4 / 5,

KSH	4.5	307	cPn	21 31 41.8	−0.4		
			eSg	21 33 00.5	5.5		
			SMN	M_L=3.9		0.5	0.20
			SME			0.5	0.20
WMQ	8.8	35	eP	21 32 46.2	2.7		
			S	21 34 25.2	1.6		
			SME	M_L=3.5		0.8	0.010

1987 10 21

O=01 35 19.3 ± 0.13s
LAT=24.05 N ± 1.69km
LONG=120.78 E ± 1.45km
DEPTH= 96 km ± 2.77km
STATIONS USED = 22, STAND DEV= 3.36s

QZH	2.2	294	−P	01 35 54.0	−0.7		
			SMN			0.5	0.24
			SME			0.5	0.16
GZH	6.9	263	eP	01 36 55.0	−4.4		
			S	01 38 13.5	−3.2		
			SMN			0.9	0.080
			SME			0.9	0.050
WHN	8.6	320	eP	01 37 19.5	−3.6		
QZN	11.3	246	eP	01 38 03.6	4.0		
			eS	01 40 09.3	4.4		
GYA	13.0	284	P	01 38 23.6	1.8		
XAN	14.4	317	eP	01 38 44.0	4.7		

1987 10 21

O=02 52 06.7 ± 0.10s
LAT=18.84 S ± 1.49km
LONG=168.78 E ± 1.33km
DEPTH=107 km ± 0.45km
STATIONS USED = 37, STAND DEV= 1.18s

DL2	72.4	323	eP	03 03 24.0	0.2		
MDJ	72.6	332	eP	03 03 24.5	−0.1		
CN2	73.9	329	−P	03 03 31.8	−0.6		
BJI	76.4	321	eP	03 03 46.0	−0.4		
XAN	77.5	313	P	03 03 53.1	0.1		
KMI	77.7	302	eP	03 03 55.0	0.8		
CD2	79.6	308	eP	03 04 03.4	−1.3		
GTA	86.5	314	+P	03 04 40.0	0.2		

1987 10 21

O=03 05 54.4 ± 0.13s
LAT=33.90 N ± 0.83km
LONG=119.74 E ± 1.66km
DEPTH= 8 km ± 0.25km
STATIONS USED = 13, STAND DEV= 2.78s
M_L=3.8 / 17,

NJ2	2.0	202	ePn	03 06 29.8	1.1		
			Pg	03 06 35.4	5.8		
			Sg	03 07 00.0	3.2		
			SMN	M_L=3.5		0.2	0.42
			SME			0.2	0.39
SSE	3.1	156	ePn	03 06 45.7	2.3		
			Sn	03 07 24.0	1.9		
			Sg	03 07 34.3	4.1		
			SMN	M_L=3.0		0.6	0.040
			SME			0.7	0.080
TIA	3.1	318	Pg	03 06 48.7	−1.3		
			Sn	03 07 24.6	0.3		

			SMN	$M_L=3.6$	0.3	0.22
			SME		0.3	0.24
			SMZ	$M_L=3.8$	0.3	0.23
WHN	5.7	235	cPg	03 07 38.5	4.1	
			SMN	$M_L=3.8$	0.6	0.080
			SME		0.7	0.070

1987 10 21
O = 06 11 34.3 ± 0.14s
LAT = 22.88 S ± 3.85km
LONG = 114.18 W ± 3.79km
DEPTH = 5 km ± 0.67km
STATIONS USED = 33, STAND DEV = 2.64s

GYA	142.8	284	PKP	06 31 09.8	−0.3	
LZH	144.6	301	−PKP	06 31 11.0	−2.3	
CD2	145.4	292	ePKP	06 31 13.4	−1.1	
KMI	146.3	281	−PKP	06 31 17.0	0.8	
GTA	146.8	308	−PKP	06 31 16.0	−1.1	
KSH	161.4	335	ePKP	06 31 38.0	1.0	

1987 10 21
O = 07 25 17.7 ± 0.07s
LAT = 7.25 S ± 1.06km
LONG = 128.77 E ± 1.10km
DEPTH = 127 km ± 0.13km
STATIONS USED = 94, STAND DEV = 0.86s
$m_B = 5.5 / 1$

QZN	32.1	325	P	07 31 35.2	0.0		
QZH	33.5	343	+P	07 31 47.0	−0.3		
GZH	33.7	334	P	07 31 49.0	−0.2		
SSE	38.8	350	−iP	07 32 32.5	0.4		
			PMZ			1.0	0.15
			pP	07 32 58.3	−1.9		
			PcP	07 34 40.5	−0.3		
GYA	39.8	328	+P	07 32 41.0	0.7		
			sP	07 33 24.0	0.7		
			PcP	07 34 44.0	0.0		
			ScP	07 38 20.5	1.0		
			S	07 38 33.0	−0.9		
WHN	40.0	340	+iP	07 32 43.7	1.4		
			PMZ			1.0	0.30
			pP	07 33 11.5	1.1		
NJ2	40.2	347	+iP	07 32 43.5	−0.1		
			iPcP	07 34 46.0	0.7		
			iScP	07 38 22.8	1.7		
KMI	41.0	323	+iP	07 32 52.0	1.9		
			PMZ			2.0	1.00
			sP	07 33 34.0	1.1		
TIA	44.6	347	+P	07 33 18.5	−0.8		
			PcP	07 35 00.0	0.1		
CD2	44.9	329	+iP	07 33 21.1	−0.5		
			PMZ			1.1	0.57
			cS	07 39 46.0	−3.4		
XAN	45.2	337	+iP	07 33 23.2	−0.7		
			PcP	07 35 01.5	−0.4		
			ScP	07 38 41.2	0.2		
DL2	46.4	352	eP	07 33 33.0	−0.6		
TIY	47.3	342	+P	07 33 40.1	−0.3		
			PMZ			0.8	0.22
			PcP	07 35 10.0	0.7		
			cS	07 40 20.0	−3.4		
			LE			13.0	0.23
BJI	48.5	347	+P	07 33 49.0	−0.7		
			PcP	07 35 14.0	0.3		
			ScP	07 38 56.0	1.2		
LZH	49.1	333	+iP	07 33 55.5	1.0		
			PMZ			2.0	1.15
SNY	49.1	355	+iP	07 33 53.6	−0.7		
			sP	07 34 33.0	−4.9		
HHC	50.4	343	+iP	07 34 04.8	0.0		
BTO	50.7	342	eP	07 34 05.5	−1.1		
CN2	50.9	357	+iP	07 34 07.0	−1.3		
			csP	07 34 52.0	0.0		
			PcP	07 35 22.0	−0.5		
			ScP	07 39 05.0	−0.1		
			cS	07 41 12.0	−1.9		
			sS	07 42 03.0	−1.8		
LSA	51.5	317	+P	07 34 13.3	−0.4		
MDJ	51.6	1	−P	07 34 13.0	−0.8		
			pP	07 34 44.0	1.0		
			PcP	07 35 25.0	−0.2		
GTA	53.6	332	+iP	07 34 28.4	−0.3		
			PMZ			1.0	0.86
			LN			18.0	0.55
WMQ	62.9	328	+iP	07 35 33.7	0.1		
KSH	67.4	318	P	07 36 03.1	1.1		
			sP	07 36 48.0	1.5		
			PP	07 38 35.0	2.1		
			cS	07 44 49.0	2.7		

1987 10 21
O = 17 47 29.7 ± 0.24s
LAT = 51.97 N ± 2.15km
LONG = 179.36 E ± 0.89km
DEPTH = 98 km ± 1.88km
STATIONS USED = 72, STAND DEV = 1.12s

MDJ	33.4	277	eP	17 54 00.0	−1.0
CN2	36.3	279	eP	17 54 25.0	−1.2
SNY	38.6	277	eP	17 54 45.8	1.0
DL2	41.5	275	eP	17 55 09.8	0.8

BJI	44.1	280	eP	17 55 31.0	0.4		
			pP	17 55 54.0	0.7		
TIA	46.0	275	+P	17 55 45.7	0.5		
			pP	17 56 08.2	0.3		
HHC	46.4	284	eP	17 55 50.2	1.2		
SSE	46.9	267	eP	17 55 50.0	−2.3		
			pP	17 56 15.5	0.3		
BTO	47.5	285	P	17 55 59.4	1.9		
NJ2	47.7	270	eP	17 55 56.5	−2.0		
			pP	17 56 21.4	0.1		
TIY	47.9	280	P	17 56 01.9	1.7		
WHN	51.5	272	eP	17 56 27.0	−0.8		
			pP	17 56 50.2	−0.8		
XAN	52.4	279	P	17 56 34.2	−0.8		
			pP	17 56 57.7	−0.4		
			ScP	18 01 31.0	0.8		
LZH	54.1	285	−P	17 56 48.0	0.4		
			PMZ			1.5	0.060
			pP	17 57 11.0	0.3		
GTA	54.3	290	−P	17 56 49 0	0.2		
			pP	17 57 09.6	−2.3		
			ScP	18 01 39.0	0.8		
			S	18 04 19 6	3.4		
			ScS	18 06 25.7	1.8		
CD2	57.7	280	P	17 57 13.4	0.0		
WMQ	58.1	301	P	17 57 16.1	0.5		
			pP	17 57 41.0	1.9		
			S	18 05 10.5	4.4		
			SMN			2.0	0.030
GYA	59.1	274	P	17 57 23.0	−0.1		
			pP	17 57 46.0	−0.6		
			S	18 05 26.8	6.8		
KMI	62.5	276	eP	17 57 44.0	−2.2		
			pP	17 58 10.0	0.2		
KSH	67.3	305	P	17 58 18.0	1.2		

1987 10 21

O = 19 08 08.7 ± 0.12s
LAT = 36.36 N ± 1.27km
LONG = 103.03 E ± 0.92km
DEPTH = 12 km ± 0.12km
STATIONS USED = 10, STAND DEV = 2.70s
M_L = 3.4 / 9,

LZH	0.7	112	Pg	19 08 19.3	−2.3		
			SMN	M_L = 3.2		0.2	0.97
			SME			0.2	0.87
XAN	5.3	114	cPn	19 09 27.1	−1.7		
			Pg	19 09 44.0	0.9		
			Sn	19 10 27.0	−5.4		
			Sg	19 10 51.7	−4.5		
			SMN	M_L = 3.1		0.6	0.020
			SME			0.6	0.020
TIY	7.6	77	ePg	19 10 26.8	3.0		
			SMN	M_L = 3.6		0.8	0.020
			SME			0.8	0.020

1987 10 21

O = 23 25 50.7 ± 0.35s
LAT = 21.03 S ± 2.38km
LONG = 69.88 W ± 0.70km
DEPTH = 58 km ± 3.01km
STATIONS USED = 36, STAND DEV = 2.65s

KSH	145.5	50	ePKP	23 45 24.0	0.8
WMQ	150.6	34	ePKP	23 45 31.5	0.1
MDJ	151.5	330	ePKP	23 45 33.0	0.4
SNY	156.4	334	$ePKP_2$	23 46 08.2	−1.3
GTA	159.7	23	+PKP	23 45 44.0	0.4
HHC	160.2	357	+PKP	23 45 45.5	1.3
BJI	160.4	346	ePKP	23 45 45.0	0.8
XAN	167.0	4	PKP	23 45 51.0	0.5

1987 10 22

O = 00 04 32.4 ± 0.16s
LAT = 26.06 S ± 3.07km
LONG = 70.94 E ± 4.13km
DEPTH = 8 km ± 0.15km
STATIONS USED = 32, STAND DEV = 2.58s

LSA	58.7	21	P	00 14 33.2	−0.9
KMI	59.4	34	eP	00 14 43.5	4.7
GYA	62.5	36	P	00 15 04.4	4.6
CD2	64.8	31	eP	00 15 17.8	3.6
LZH	69.2	28	eP	00 15 41.5	−0.8
XAN	69.8	33	eP	00 15 44.5	−1.5
WHN	69.9	39	eP	00 15 49.5	2.6
GTA	70.5	23	eP	00 15 49.3	−1.1
WMQ	71.2	13	eP	00 15 53.6	−1.1

1987 10 22

O = 00 21 18.9 ± 0.11s
LAT = 5.76 S ± 1.65km
LONG = 104.19 E ± 1.98km
DEPTH = 22 km ± 0.06km
STATIONS USED = 75, STAND DEV = 1.25s
Ms = 5.3 / 19,

QZN	25.3	13	eP	00 26 46.0	0.5		
			PP	00 27 26.0	2.7		
			eS	00 31 11.0	3.4		
			LN	Ms = 5.2		13.0	2.50
			LE			13.0	2.30
KMI	30.7	357	eP	00 27 36.5	1.1		

GYA	32.1	4	P	00 27 47.0	−0.5		
			S	00 32 58.0	1.2		
			sS	00 33 08.0	−1.9		
			LN	Ms=5.3		16.0	1.20
			LE			16.0	3.00
CD2	36.5	359	P	00 28 23.8	−1.0		
			eS	00 34 07.0	1.8		
			LE	Ms=5.3		12.0	2.13
WHN	37.4	15	P	00 28 30.0	−2.4		
			LZ	Ms=5.2		20.0	2.50
LSA	37.4	341	P	00 28 30.8	−2.4		
XAN	39.8	6	eP	00 28 52.0	−1.0		
			eS	00 34 56.0	−0.4		
			LN	Ms=5.5		16.0	3.56
NJ2	40.1	19	+P	00 28 59.0	3.8		
			sP	00 29 05.0	−0.9		
LZH	41.6	360	eP	00 29 07.0	−0.9		
TIA	43.5	15	eP	00 29 22.5	−0.3		
			LN	Ms=5.5		18.0	1.53
			LE			18.0	2.82
			LZ	Ms=5.6		18.0	4.12
TIY	43.9	9	eP	00 29 28.8	2.2		
GTA	45.1	355	eP	00 29 35.8	−0.5		
BTO	46.4	6	eP	00 29 49.7	3.0		
			esP	00 30 00.0	2.8		
			eS	00 36 38.0	5.0		
			LN	Ms=5.3		18.0	1.70
			LE			14.0	0.80
			LZ	Ms=5.3		14.0	1.60
HHC	46.9	8	eP	00 29 49.5	−0.6		
BJI	46.9	13	eP	00 29 50.0	−0.1		
			eS	00 36 42.0	2.8		
			LE	Ms=5.3		18.0	2.06
			LZ	Ms=5.2		20 0	1.82
SNY	50.6	19	eP	00 30 18.5	0.0		
WMQ	51.5	345	P	00 30 26.0	0.0		
KSH	52.0	332	eP	00 30 30.5	1.0		
CN2	52.9	19	+P	00 30 36.0	−0.4		
			eS	00 38 02.0	−1.3		
			LZ	Ms=5.6		20.0	3.60
MDJ	55.1	22	eP	00 30 52.0	−0.3		

1987 10 22

O=00 42 06.0 ± 0.07s
LAT= 5.75 S ± 1.28km
LONG=104.13 E ± 1.31km
DEPTH= 50 km ± 0.85km
STATIONS USED = 33, STAND DEV= 1.30s

GYA	32.1	4	P	00 48 31.6	0.3		
CD2	36.4	359	eP	00 49 07.4	−1.1		
XAN	39.8	6	−P	00 49 35.7	−0.9		
GTA	45.1	355	P	00 50 19.8	0.0		
BJI	46.9	13	eP	00 50 34.0	0.2		
WMQ	51.5	345	P	00 51 09.2	−0.3		
KSH	52.0	332	eP	00 51 16.0	3.2		
CN2	52.9	19	eP	00 51 18.0	−2.1		

1987 10 22

O=04 00 25.8 ± 0.09s
LAT=29.48 N ± 0.82km
LONG=103.73 E ± 0.86km
DEPTH= 7 km ± 0.35km
STATIONS USED = 7, STAND DEV= 2.98s
M_L=3.0 / 5,

CD2	1.4	1	Pg	04 00 52.2	1.1		
			Sg	04 01 13.5	3.0		
			SMN	M_L=3.4		0.4	0.50
			SME			0.6	0.48
GYA	4.0	139	Pn	04 01 28.6	1.0		
			SMN	M_L=3.0		1.0	0.030
			SME			1.0	0.030
XAN	6.3	43	cPn	04 01 58.6	−1.4		
			Pg	04 02 23.0	5.3		
			Sn	04 03 13.3	−1.6		
			Sg	04 03 49.5	5.2		
			SMN	M_L=3.3		1.0	0.020
			SME			1.0	0.020

1987 10 22

O=04 58 53.1 ± 0.09s
LAT=29.61 N ± 1.70km
LONG=130.87 E ± 1.66km
DEPTH= 29 km ± 0.79km
STATIONS USED = 80, STAND DEV= 1.62s
Ms=4.9 / 38, m_B=5.5 / 3

SSE	8.5	282	+P	05 00 57.5	0.1		
			PMZ			1.5	0.19
			S	05 02 28.0	−5.2		
			LN	Ms=4.5		24.0	4.97
			LE			24.0	5.11
			LZ	Ms=4.7		20.0	9.81
NJ2	10.6	286	−P	05 01 26.2	−0.4		
			LE	Ms=4.8		13.0	5.70
DL2	12.0	323	eP	05 01 50.4	4.9		
			eS	05 04 04.0	4.4		
			LN	Ms=4.8		13.0	2.52
			LE			12.0	2.88
TIA	13.3	303	eP	05 02 03.8	1.1		
			eS	05 04 30.0	−0.5		
SNY	13.5	336	+iP	05 02 06.0	0.0		

			PMZ		$m_B = 5.5$		8.0	0.71
			eS	05 04 39.0		2.4		
			LN		Ms = 5.0		16.0	4.01
			LE				16.0	4.92
			LZ		Ms = 5.0		16.0	6.92
WHN	14.3	278	P	05 02 18.2		1.7		
			LZ		Ms = 4.6		20.0	2.80
CN2	14.8	344	+P	05 02 23.0		0.4		
			eS	05 05 04.0		−2.6		
			LZ		Ms = 5.3		15.0	9.70
MDJ	15.0	356	eP	05 02 26.0		0.8		
			SS	05 05 28.0		−0.2		
			LZ		Ms = 4.4		10.0	0.80
BJI	15.9	315	eP	05 02 36.0		−0.9		
			sP	05 02 48.0		−0.1		
			eS	05 05 32.0		−0.5		
			esS	05 05 42.0		−1.4		
			LN		Ms = 4.8		18.0	3.53
			LZ		Ms = 4.9		16.0	4.51
TIY	17.3	303	P	05 02 55.6		0.7		
			sP	05 03 08.0		1.9		
			PP	05 03 14.0		5.0		
			S	05 06 04.5		−0.1		
			sS	05 06 15.5		−0.7		
			SS	05 06 32.0		6.0		
			LN		Ms = 4.7		13.0	0.48
			LE				15.0	2.14
XAN	19.2	289	+P	05 03 15.6		−1.8		
			pP	05 03 27.0		2.7		
			LN		Ms = 5.0		11.0	1.75
			LE				13.0	1.87
HHC	19.3	311	eP	05 03 18.6		−0.5		
			S	05 06 51.0		1.9		
			LN		Ms = 4.9		13.0	1.46
			LE				12.5	1.78
BTO	20.2	308	eP	05 03 28.0		−1.1		
			cPP	05 03 44.0		−4.7		
			LN		Ms = 4.9		15.0	1.80
			LE				15.0	1.90
			LZ		Ms = 4.9		15.0	2.60
GYA	21.6	267	−P	05 03 44.2		1.1		
			S	05 07 38.6		3.5		
			LE		Ms = 4.9		14.0	2.20
QZN	21.8	246	eP	05 03 46.4		1.0		
			eS	05 07 45.0		4.7		
			LN		Ms = 4.6		14.0	1.10
CD2	23.4	280	−iP	05 04 02.6		1.3		
			eS	05 08 09.0		−0.4		
			LE		Ms = 5.0		12.0	2.13
LZH	23.6	293	eP	05 04 00.5		−2.1		
			PMZ				2.0	0.22
			LE		Ms = 5.1		15.0	3.03
KMI	25.4	267	+P	05 04 19.5		−0.4		
			pP	05 04 30.0		2.1		
			eS	05 08 46.0		3.6		
			LE		Ms = 4.9		15.0	1.70
GTA	27.3	299	P	05 04 36.3		−1.4		
			LE		Ms = 4.9		24.0	2.29
			LZ		Ms = 4.9		20.0	2.19
LSA	34.4	280	P	05 05 40.2		−0.7		
WMQ	37.0	305	P	05 06 01.7		−0.6		
			PMZ				1.5	0.030
			ScS	05 16 12.0		−0.3		

1987 10 22

O = 09 26 37.7 ± 0.14s
LAT = 23.46 N ± 1.46km
LONG = 121.69 E ± 1.78km
DEPTH = 31 km ± 0.50km
STATIONS USED = 28, STAND DEV = 1.86s
M_L = 4.2 / 11,

QZH	3.2	298	−Pn	09 27 27.4		1.2		
			iSn	09 28 01.2		−3.5		
			Sg	09 28 22.6		4.5		
			SMN		M_L = 4.3		0.6	1.32
			SME				0.6	0.97
SSE	7.6	357	eP	09 28 28.5		−0.9		
			SMN		M_L = 3.9		1.0	0.030
			SME				1.0	0.050
GZH	7.7	269	eP	09 28 30.5		0.2		
			SMN		M_L = 4.1		0.7	0.070
			SME				0.7	0.050
NJ2	8.9	344	+P	09 28 45.7		−1.8		
			S	09 30 22.8		−5.0		
			SME		M_L = 4.4		0.1	0.070
WHN	9.6	319	eP	09 28 54.5		−2.7		
			SMN				1.0	0.060
			SME				1.0	0.090
QZN	11.9	250	eP	09 29 25.8		−2.4		
GYA	14.0	285	P	09 29 57.4		1.6		
XAN	15.4	316	eP	09 30 14.0		−0.1		
GTA	24.4	316	P	09 31 56.4		1.3		

1987 10 22

O = 12 12 13.9 ± 0.15s
LAT = 26.48 S ± 2.39km
LONG = 175.40 W ± 2.57km
DEPTH = 32 km ± 1.79km
STATIONS USED = 46, STAND DEV = 1.97s

NJ2	85.5	309	+P	12 24 54.0		3.3		

MDJ	86.8	324	eP	12 24 56.2	−0.7
WHN	87.9	306	P	12 25 02.0	−0.3
SNY	88.3	319	+P	12 25 05.8	1.5
CN2	88.5	322	eP	12 25 03.0	−2.1
TIA	89.0	312	eP	12 25 07.7	−0.2
GYA	91.6	299	P	12 25 24.0	3.8
BJI	91.8	314	P	12 25 19.5	−1.2
TIY	93.0	311	eP	12 25 26.7	0.3
XAN	93.6	306	P	12 25 29.9	0.8
KMI	94.1	296	+P	12 25 33.0	1.3

1987 10 22
O = 13 10 33.6 ± 0.11s
LAT = 20.13 S ± 1.89km
LONG = 173.55 W ± 1.79km
DEPTH = 32 km ± 0.28km
STATIONS USED = 48, STAND DEV = 1.22s

MDJ	82.7	323	+P	13 22 56.5	0.3
			pP	13 23 07.5	1.9
NJ2	82.9	308	−P	13 22 58.0	0.7
			sP	13 23 09.5	−1.2
CN2	84.6	320	+P	13 23 06.0	0.0
			pP	13 23 16.0	0.5
TIA	86.2	311	+P	13 23 14.0	0.4
			pP	13 23 24.7	1.7
BJI	88.6	314	P	13 23 25.0	−0.4
GYA	90.1	298	P	13 23 34.0	1.2
TIY	90.2	310	eP	13 23 33.0	0.0
XAN	91.3	306	P	13 23 38.8	0.8
HHC	92.1	313	eP	13 23 42.0	0.0
KMI	92.9	296	eP	13 23 47.5	1.6
BTO	93.1	312	eP	13 23 47.0	0.5
LZH	95.9	306	eP	13 24 00.5	1.2
GTA	100.0	308	eP	13 24 16.2	−1.7

1987 10 22
O = 13 48 32.5 ± 0.06s
LAT = 2.42 S ± 1.00km
LONG = 139.40 E ± 1.01km
DEPTH = 32 km ± 0.18km
STATIONS USED = 41, STAND DEV = 1.03s

GYA	42.7	314	−P	13 56 30.0	1.2
TIA	43.7	334	eP	13 56 36.4	−0.2
KMI	44.9	310	eP	13 56 47.0	0.7
BJI	47.3	336	eP	13 57 04.0	−1.4
CD2	47.4	317	P	13 57 06.8	0.4
BTO	50.5	331	eP	13 57 30.6	0.2
LZH	50.7	322	+P	13 57 32.0	0.5
GTA	55.2	323	+iP	13 58 05.2	−0.4
WMQ	65.2	321	P	13 59 13.5	−0.1

1987 10 22
O = 14 20 30.2 ± 0.07s
LAT = 50.44 N ± 1.87km
LONG = 155.56 E ± 1.33km
DEPTH = 125 km ± 0.41km
STATIONS USED = 56, STAND DEV = 1.04s

MDJ	18.4	262	eP	14 24 37.0	−1.5
CN2	21.4	264	+P	14 25 08.0	−1.7
			pP	14 25 37.0	2.6
SNY	23.6	261	+iP	14 25 31.5	0.5
BJI	29.3	265	eP	14 26 26.0	2.7
NJ2	32.7	250	+P	14 26 53.5	0.3
TIY	33.0	264	+P	14 26 56.0	0.0
WHN	36.5	253	P	14 27 25.0	−0.5
XAN	37.5	262	P	14 27 33.7	−0.5
LZH	39.5	269	−P	14 27 50.5	0.0
			pP	14 28 22.0	3.9
GTA	40.1	276	P	14 27 55.3	−0.2
GYA	44.1	256	P	14 28 28.6	0.1
WMQ	45.2	289	P	14 28 36.6	−0.1
			pP	14 29 09.0	4.2
KMI	47.6	258	eP	14 28 55.5	0.0

1987 10 22
O = 16 44 34.8 ± 0.08s
LAT = 19.21 S ± 1.42km
LONG = 169.21 E ± 1.43km
DEPTH = 156 km ± 0.48km
STATIONS USED = 43, STAND DEV = 1.29s

MDJ	73.1	332	eP	16 55 49.5	−0.9
CN2	74.4	329	+P	16 55 56.6	−1.5
			pP	16 56 36.6	1.1
GYA	75.8	305	P	16 56 07.0	1.0
BJI	76.9	321	eP	16 56 11.0	−1.1
TIY	77.8	317	eP	16 56 19.2	2.0
XAN	78.1	313	eP	16 56 18.1	−0.5
KMI	78.2	302	eP	16 56 21.0	1.3
HHC	80.2	319	eP	16 56 27.8	−2.3
CD2	80.2	307	eP	16 56 31.5	1.4
BTO	81.0	319	eP	16 56 36.5	2.1
LZH	82.7	312	eP	16 56 44.0	0.7
GTA	87.1	313	eP	16 57 04.8	−0.2
			pP	16 57 43.1	0.0

1987 10 22
O = 17 52 18.6 ± 0.07s
LAT = 34.68 N ± 0.39km
LONG = 26.22 E ± 0.46km
DEPTH = 48 km ± 0.81km

STATIONS USED = 16, STAND DEV = 0.94s

WMQ	47.5	60	eP	18 00 50.5	−1.0	
GTA	57.4	62	P	18 02 05.2	−0.3	
CD2	63.7	69	eP	18 02 49.2	0.8	

1987 10 22

O = 21 23 57.9 ± 0.10s
LAT = 26.95 N ± 1.46km
LONG = 89.20 E ± 1.13km
DEPTH = 33 km ± 0.02km
STATIONS USED = 18, STAND DEV = 2.31s

LSA	3.2	32	+Pn	21 24 51.5	4.1		
			Pg	21 24 57.2	1.9		
			LN			3.0	2.32
GTA	15.3	33	eP	21 27 33.4	0.4		
GYA	15.6	88	P	21 27 35.6	−2.0		
WMQ	16.9	356	eP	21 27 56.9	3.4		
XAN	18.4	63	eP	21 28 10.5	−1.9		

1987 10 23

O = 00 59 43.1 ± 0.08s
LAT = 53.02 N ± 1.97km
LONG = 159.84 E ± 1.62km
DEPTH = 32 km ± 0.23km
STATIONS USED = 69, STAND DEV = 1.01s
Ms = 4.6 / 5,

MDJ	21.5	259	−P	01 04 31.5	0.2		
			eS	01 08 20.0	−3.0		
			LZ	Ms = 4.6		20.0	1.47
CN2	24.4	262	+P	01 04 59.0	−1.1		
			pP	01 05 06.0	−2.9		
			S	01 09 15.0	0.5		
			LZ	Ms = 4.9		18.0	2.20
BJI	32.2	264	eP	01 06 09.0	−1.8		
TIA	34.1	258	eP	01 06 26.7	−0.8		
			PcP	01 09 04.2	0.3		
NJ2	36.1	251	−P	01 06 44.4	0.2		
WHN	39.8	254	P	01 07 15.0	−0.2		
XAN	40.5	263	eP	01 07 20.5	−0.7		
			PcP	01 09 23.8	0.5		
LZH	42.2	269	eP	01 07 35.0	−0.1		
			PMZ			1.5	0.040
GTA	42.5	276	+P	01 07 37.3	−0.1		
			PcP	01 09 30.4	0.7		
CD2	45.8	264	P	01 08 04.1	−0.1		
WMQ	46.8	289	+P	01 08 13.0	0.5		
GYA	47.3	257	P	01 08 16.2	−0.1		
LSA	54.3	273	P	01 09 08.5	−0.9		

1987 10 23

O = 04 53 28.6 ± 0.12s
LAT = 5.86 N ± 1.63km
LONG = 126.28 E ± 2.14km
DEPTH = 73 km ± 0.51km
STATIONS USED = 87, STAND DEV = 1.53s
Ms = 4.9 / 11,

QZH	20.4	340	eP	04 58 02.2	0.4		
QZN	20.7	311	eP	04 58 06.0	0.9		
GZH	21.2	325	eP	04 58 12.0	1.7		
SSE	25.6	350	eP	04 58 53.2	0.5		
			PMZ			2.0	0.28
			eS	05 03 17.0	4.1		
			LZ	Ms = 4.8		18.0	1.82
NJ2	27.0	346	+P	04 59 06.4	0.7		
WHN	27.0	337	−P	04 59 08.7	2.7		
GYA	27.7	320	P	04 59 15.8	2.8		
			PcP	05 02 28.0	0.5		
KMI	29.6	313	−P	04 59 29.5	0.0		
TIA	31.4	346	eP	04 59 44.6	−0.3		
XAN	32.3	332	P	04 59 50.7	−2.8		
CD2	32.7	322	eP	04 59 54.2	−2.3		
DL2	33.2	353	eP	05 00 00.8	0.1		
TIY	34.1	340	−iP	05 00 10.4	1.4		
			PMZ			1.0	0.090
			S	05 05 35.0	6.9		
			LZ	Ms = 4.7		30.0	1.24
BJI	35.2	346	eP	05 00 17.5	−0.8		
SNY	35.9	357	+iP	05 00 24.2	0.2		
			eS	05 05 59.0	2.6		
			LN	Ms = 4.8		24.0	0.90
			LE			21.0	0.72
LZH	36.5	329	eP	05 00 27.5	−1.5		
			PMZ			2.0	0.17
			LN	Ms = 5.0		17.0	1.45
HHC	37.3	341	P	05 00 36.8	1.3		
BTO	37.5	340	eP	05 00 38.6	0.7		
CN2	37.8	359	eP	05 00 39.0	−1.0		
			eS	05 06 24.0	−1.4		
			LE	Ms = 4.8		20.0	0.90
MDJ	38.7	4	eP	05 00 48.0	0.4		
			eS	05 06 42.0	2.7		
			LZ	Ms = 5.0		20.0	1.47
LSA	40.7	310	eP	05 01 02.6	−2.1		
GTA	41.1	328	+P	05 01 05.8	−1.4		
			PcP	05 03 06.0	0.4		
			LE	Ms = 4.7		28.0	1.03
			LZ	Ms = 4.9		30.0	1.56
WMQ	50.7	324	P	05 02 22.6	−1.2		
KSH	56.2	314	eP	05 03 03.0	−1.2		

1987 10 23
O=06 50 37.1 ± 0.04s
LAT=42.44 N ± 0.95km
LONG= 43.37 E ± 0.62km
DEPTH= 32 km ± 0.08km
STATIONS USED = 22, STAND DEV= 0.89s

WMQ	32.1	72	P	06 57 03.5	−0.5			
LSA	40.2	93	−P	06 58 13.3	0.5			
GTA	42.1	74	P	06 58 28.2	−0.1			
			PP	07 00 10.6	1.7			
XAN	51.0	77	eP	06 59 38.2	−0.5			
BJI	53.2	66	eP	06 59 54.0	−1.1			

1987 10 23
O=14 02 59.3 ± 0.07s
LAT= 6.54 S ± 0.91km
LONG=129.86 E ± 1.21km
DEPTH=173 km ± 0.28km
STATIONS USED = 37, STAND DEV= 1.12s

NJ2	39.8	345	−P	14 10 18.0	0.7			
XAN	45.0	335	eP	14 10 58.2	−1.2			
TIY	46.9	341	−P	14 11 14.7	−0.1			
BJI	48.0	346	eP	14 11 25.0	1.6			
SNY	48.5	354	−P	14 11 26.4	−0.3			
LZH	48.9	332	eP	14 11 28.0	−2.5			
CN2	50.3	356	eP	14 11 39.0	−1.4			
MDJ	50.9	360	eP	14 11 45.0	−0.4			
LSA	51.8	316	P	14 11 52.2	0.0			
GTA	53.5	331	P	14 12 04.8	0.1			
WMQ	62.9	327	P	14 13 10.5	0.4			

1987 10 23
O=19 38 57.0 ± 0.15s
LAT=28.03 N ± 1.78km
LONG=127.85 E ± 1.85km
DEPTH=149 km ± 2.76km
STATIONS USED = 25, STAND DEV= 2.85s

SSE	6.6	299	eP	19 40 29.0	−3.2			
NJ2	8.8	299	eP	19 41 00.0	−1.7			
BJI	15.4	324	eP	19 42 31.0	3.5			
CN2	15.9	354	eP	19 42 34.0	0.6			
XAN	17.3	295	eP	19 42 51.1	0.3			
GYA	18.9	270	P	19 43 13.0	4.0			
BTO	19.3	315	eP	19 43 13.5	0.5			
CD2	21.2	284	eP	19 43 32.1	0.2			
GTA	25.8	303	P	19 44 16.0	−0.8			

1987 10 24
O=01 27 00.0 ± 0.08s
LAT=27.76 N ± 1.68km
LONG= 65.93 E ± 1.42km
DEPTH= 33 km ± 0.22km
STATIONS USED = 49, STAND DEV= 1.45s
Ms=5.1/ 8,

KSH	14.3	33	P	01 30 21.5	−1.6			
			LN	Ms=5.2		11.0	7.40	
LSA	22.2	79	+P	01 31 54.4	−1.3			
WMQ	23.7	42	+P	01 32 11.8	1.3			
			LN	Ms=5.1		20.0	4.10	
GTA	30.4	59	+P	01 33 11.6	0.1			
			LN	Ms=5.0		26.0	3.10	
CD2	33.0	75	eP	01 33 34.1	−0.8			
GYA	36.2	82	P	01 34 02.6	0.7			
XAN	37.2	69	P	01 34 09.6	−1.0			
TIY	40.0	63	P	01 34 33.6	−0.3			
			LZ	Ms=4.8		22.0	1.04	
BJI	42.9	60	eP	01 34 58.0	0.0			
TIA	43.8	66	eP	01 35 05.2	0.2			
NJ2	45.7	71	eP	01 35 20.0	−0.2			

1987 10 24
O=04 03 04.9 ± 0.13s
LAT= 3.05 N ± 1.86km
LONG=126.10 E ± 3.05km
DEPTH= 33 km ± 0.25km
STATIONS USED = 34, STAND DEV= 2.65s

KMI	31.4	316	eP	04 09 31.0	5.1			
BJI	37.9	348	eP	04 10 21.0	−0.1			
SNY	38.7	357	eP	04 10 29.2	1.7			
LZH	38.8	331	eP	04 10 31.5	2.9			
MDJ	41.5	4	eP	04 10 49.0	−2.0			

1987 10 24
O=07 51 24.4 ± 0.22s
LAT=28.08 N ± 2.81km
LONG=128.18 E ± 2.44km
DEPTH= 29 km ± 0.59km
STATIONS USED = 31, STAND DEV= 2.80s
Ms=4.5/ 5,

SSE	6.8	298	eP	07 53 03.7	−1.2			
			eS	07 54 27.0	5.0			
NJ2	9.0	298	eP	07 53 34.0	−1.6			
			SME			1.6	0.30	
BJI	15.5	323	eP	07 55 06.0	2.9			
CN2	15.8	353	eP	07 55 11.0	3.7			
			eS	07 58 08.0	5.8			
			LZ	Ms=4.6		12.0	1.50	
GYA	19.2	270	P	07 55 51.6	2.5			
CD2	21.4	283	P	07 56 11.0	−1.7			
LZH	22.1	297	eP	07 56 23.0	3.7			

GTA	26.1	303	−P	07 56 58.2	0.5	
			LN	Ms=4.5	18.0	0.85

1987 10 24
O=14 37 15.9 ± 0.10s
LAT=10.85 S ± 1.03km
LONG=166.21 E ± 1.42km
DEPTH=175 km ± 0.81km
STATIONS USED = 76, STAND DEV= 1.01s
m_B=5.7/ 1

SSE	60.0	316	eP	14 47 06.5	−0.5	
NJ2	62.2	315	+P	14 47 22.0	0.4	
			pP	14 47 59.5	−2.5	
MDJ	64.4	332	eP	14 47 36.0	0.0	
			pP	14 48 13.0	−3.6	
DL2	64.6	323	P	14 47 37.0	−0.3	
WHN	64.6	311	eP	14 47 33.0	−4.3	
SNY	65.4	326	+P	14 47 42.6	0.0	
TIA	65.8	318	eP	14 47 43.9	−1.0	
CN2	65.8	329	−P	14 47 44.0	−1.1	
BJI	68.6	321	eP	14 48 02.5	−0.1	
			epP	14 48 40.0	−3.7	
GYA	68.7	304	−P	14 48 03.0	−0.2	
			pP	14 48 43.0	−1.1	
			S	14 56 48.0	−1.6	
TIY	69.7	317	P	14 48 09.6	0.1	
XAN	70.3	312	P	14 48 12.8	−0.3	
KMI	71.4	301	+P	14 48 21.0	1.2	
HHC	72.0	319	eP	14 48 23.8	0.7	
BTO	72.8	319	eP	14 48 29.0	0.8	
CD2	72.9	307	P	14 48 27.4	−0.7	
LZH	75.0	312	+P	14 48 42.0	1.5	
GTA	79.3	314	−iP	14 49 05.0	0.9	
			pP	14 49 41.0	−5.0	
			eS	14 58 53.9	5.0	
			SKS	14 58 56.0	−1.4	
			SME	m_B=5.7	6.0	0.59
WMQ	89.3	315	P	14 49 53.5	−0.7	
			pP	14 50 33.5	−3.5	
			SKS	15 00 10.0	5.6	
			S	15 00 24.5	−0.7	

1987 10 24
O=16 46 55.1 ± 0.09s
LAT= 9.49 N ± 0.55km
LONG=126.13 E ± 0.63km
DEPTH=100 km ± 0.95km
STATIONS USED = 18, STAND DEV= 0.95s

NJ2	23.4	344	eP	16 51 57.0	0.7
BJI	31.7	345	eP	16 53 10.0	−1.6
SNY	32.3	356	eP	16 53 16.4	−0.4
MDJ	35.1	4	−P	16 53 42.0	0.8

1987 10 24
O=19 12 33.9 ± 0.06s
LAT=34.07 N ± 0.81km
LONG=105.22 E ± 0.80km
DEPTH= 33 km ± 0.07km
STATIONS USED = 83, STAND DEV= 1.78s
Ms=4.8/24, M_L=5.0/17,

LZH	2.3	331	Pn	19 13 12.5	2.3	
			Pg	19 13 15.0	0.0	
			Sn	19 13 41.0	2.4	
			Sg	19 13 44.0	−2.8	
			SME	M_L=5.7	0.5	44.6
XAN	3.1	90	−iPn	19 13 23.2	2.6	
			Pg	19 13 28.4	0.0	
			Sn	19 13 54.5	−3.1	
			Sg	19 14 08.1	−2.5	
			SMN		4.0	12.9
			SME		5.0	12.7
CD2	3.4	202	Pn	19 13 27.2	2.3	
			Pg	19 13 35.3	1.4	
			Sg	19 14 20.8	0.4	
			SMN	M_L=4.9	1.0	4.02
			SME		1.1	3.37
GTA	6.9	322	iPn	19 14 13.4	0.5	
			iSn	19 15 30.3	−1.4	
			iSg	19 16 16.0	6.6	
			LN	Ms=4.6	14.0	6.17
			LE		14.0	5.07
TIY	6.9	56	cPn	19 14 13.8	0.7	
			Pg	19 14 40.9	5.3	
			Sn	19 15 26.8	−5.3	
			SMN	M_L=5.0	1.0	0.51
			SME		1.0	0.81
			LE	Ms=4.6	10.0	4.83
			LZ	Ms=4.4	18.0	6.06
BTO	7.6	29	Pn	19 14 23.8	1.6	
			eSn	19 15 48.0	−0.5	
			LN	Ms=4.8	8.0	5.10
			LE		8.0	3.60
			LZ	Ms=4.7	8.0	4.00
GYA	7.7	170	Pn	19 14 27.4	3.2	
			Sn	19 15 55.4	3.5	
			SMN	M_L=5.3	1.2	0.70
			SME		1.2	1.10
HHC	8.4	35	P	19 14 35.6	−1.4	
WHN	8.5	112	eP	19 14 36.5	−1.1	
			S	19 16 15.0	2.0	

			SMN		M_L=5.3	1.0	0.70
			SME			1.0	0.50
KMI	9.2	194	eP	19 14 45.5	−1.8		
			S	19 16 33.5	3.5		
			LE		Ms=4.6	10.0	3.20
TIA	10.0	74	eP	19 14 56.5	−1.7		
BJI	10.6	53	eP	19 15 05.0	−1.5		
			LN		Ms=4.9	13.0	5.02
			LE			12.0	3.31
			LZ		Ms=4.7	12.0	3.92
NJ2	11.6	96	+P	19 15 19.4	−1.1		
			S	19 17 27.0	−2.8		
GZH	13.1	145	eP	19 15 37.5	−2.4		
			eS	19 18 00.0	−5.0		
			SMN			1.6	0.26
			SME			1.9	1.12
QZN	15.5	163	eP	19 16 13.2	0.8		
SNY	16.4	56	eP	19 16 19.6	−3.7		
			eS	19 19 25.0	1.2		
			LE		Ms=4.4	17.0	1.16
			LZ		Ms=4.3	18.0	1.07
WMQ	16.7	311	P	19 16 25.2	−2.2		
			S	19 19 31.0	0.5		
			LN		Ms=5.1	10.0	3.40
CN2	18.5	52	eP	19 16 49.0	0.0		
			eS	19 20 10.0	−0.6		
			LZ		Ms=4.8	12.0	1.90
MDJ	21.5	53	eP	19 17 24.5	2.2		
KSH	24.0	291	P	19 17 50.0	3.3		
			S	19 22 04.0	6.4		
			LN		Ms=4.9	11.0	1.40

1987 10 25

O=19 43 16.9 ± 0.09s
LAT=14.77 S ± 0.67km
LONG=167.25 E ± 0.53km
DEPTH=146 km ± 0.89km
STATIONS USED = 17, STAND DEV= 1.07s

MDJ	68.3	332	eP	19 54 05.0	0.1
CN2	69.7	329	eP	19 54 13.0	−0.2
GYA	71.7	305	P	19 54 26.0	0.3
BJI	72.3	321	eP	19 54 29.0	0.2
TIY	73.3	317	eP	19 54 35.8	1.0
GTA	82.7	314	+P	19 55 27.7	1.3

1987 10 25

O=01 01 21.5 ± 0.07s
LAT= 0.18 S ± 0.99km
LONG=124.50 E ± 1.40km
DEPTH= 75 km ± 0.19km

STATIONS USED = 60, STAND DEV= 1.04s

QZN	23.9	324	eP	01 06 31.0	1.5
GYA	31.6	328	P	01 07 40.4	0.9
WHN	32.0	343	P	01 07 44.0	0.5
NJ2	32.5	351	eP	01 07 48.0	0.5
CD2	36.7	329	eP	01 08 23.1	0.0
TIA	36.9	350	eP	01 08 23.7	−1.0
XAN	37.0	338	eP	01 08 25.5	−0.9
TIY	39.3	345	+P	01 08 46.4	1.1
BJI	40.7	350	eP	01 08 56.0	−1.0
LZH	40.9	334	eP	01 09 00.5	2.2
MDJ	44.8	5	+P	01 09 31.0	0.7
GTA	45.4	333	+P	01 09 34.6	−0.5
WMQ	54.7	328	P	01 10 45.8	−0.2
KSH	59.3	318	P	01 11 20.5	2.2

1987 10 25

O=13 01 58.7 ± 0.06s
LAT=36.31 N ± 0.85km
LONG= 28.37 E ± 0.69km
DEPTH= 15 km ± 0.15km
STATIONS USED = 40, STAND DEV= 0.86s

WMQ	45.2	61	P	13 10 18.8	1.5
GTA	55.1	64	P	13 11 33.1	−0.3
			PcP	13 12 34.7	1.2
HHC	62.8	58	+P	13 12 27.4	0.5
XAN	64.0	66	+P	13 12 34.0	−0.5
GYA	65.9	74	P	13 12 46.4	−0.6
BJI	66.3	57	eP	13 12 49.0	−0.5
SNY	70.3	52	eP	13 13 12.9	−1.4
CN2	70.5	50	eP	13 13 14.0	−1.2

1987 10 25

O=16 26 45.6 ± 0.04s
LAT= 2.32 S ± 0.72km
LONG=138.43 E ± 0.61km
DEPTH= 33 km ± 0.10km
STATIONS USED = 21, STAND DEV= 0.94s

GYA	42.0	315	P	16 34 36.2	0.6
CD2	46.7	318	P	16 35 14.2	0.4
GTA	54.6	324	P	16 36 13.2	−0.7
WMQ	64.5	322	P	16 37 23.0	0.8

1987 10 25

O=16 46 12.9 ± 0.09s
LAT= 5.47 N ± 1.72km
LONG= 36.79 E ± 1.77km
DEPTH= 12 km ± 0.13km
STATIONS USED = 80, STAND DEV= 1.25s
Ms=6.7/ 7, m_B=6.4/10

KSH	48.9	40	−iP	16 55 02.0	0.5		
			PP	16 56 53.0	−1.0		
			S	17 02 03.0	−0.1		
LSA	56.5	58	P	16 55 56.2	−2.5		
WMQ	58.7	41	−P	16 56 12.5	−1.0		
			PMZ	m_B=6.4		8.0	4.18
			S	17 04 11.0	−4.3		
GTA	65.8	49	P	16 57 00.0	−1.2		
			PMZ	m_B=6.3		9.0	3.06
KMI	65.9	65	+iP	16 57 03.0	0.9		
CD2	67.5	59	eP	16 57 15.2	3.6		
LZH	68.3	53	−P	16 57 15.5	−1.4		
			PMZ	m_B=6.3		8.0	2.91
GYA	69.6	64	P	16 57 24.0	−0.8		
XAN	72.2	56	eP	16 57 39.0	−1.3		
BTO	73.7	49	−iP	16 57 50.0	0.3		
			PP	17 00 35.0	0.3		
			eS	17 07 18.0	−1.7		
			LN	Ms=6.3		14.0	4.10
			LE			14.0	5.90
			LZ	Ms=6.3		15.0	7.80
HHC	74.9	49	eP	16 57 56.7	0.1		
TIY	75.3	53	−iP	16 57 58.0	−0.8		
			PMZ	m_B=6.4		10.0	4.45
			S	17 07 41.0	5.3		
WHN	76.5	60	P	16 58 08.0	2.4		
			PMZ	m_B=6.5		8.0	4.20
BJI	78.4	50	−P	16 58 15.5	−0.3		
			PMZ			3.0	0.41
			PP	17 01 08.0	−6.1		
TIA	79.0	54	eP	16 58 19.2	−0.1		
			PP	17 01 16.5	−2.4		
			eS	17 08 17.0	−0.2		
NJ2	80.4	59	+P	16 58 27.5	0.7		
DL2	82.6	52	eP	16 58 40.0	1.8		
SNY	84.0	49	−iP	16 58 45.0	−0.5		
			PP	17 02 00.0	0.1		
CN2	85.3	47	−iP	16 58 51.0	−0.9		
			PMZ	m_B=6.7		5.0	4.00
			eS	17 09 18.0	−3.4		
MDJ	88.2	46	eP	16 59 05.0	−1.1		

1987 10 25

O=16 54 04.9 ± 0.09s

LAT= 2.28 S ± 1.40km

LONG=138.40 E ± 1.68km

DEPTH= 33 km ± 0.16km

STATIONS USED = 86, STAND DEV= 1.32s

Ms=6.8/55, m_B=6.9/24

QZH	33.2	326	eP	17 00 40.8	−0.3		
			cPP	17 01 58.0	5.8		
			iS	17 05 56.0	−1.7		
			LE	Ms=6.7		17.0	72.0
GZH	35.1	317	+iP	17 00 56.5	−1.0		
			eS	17 06 34.0	6.6		
			LN	Ms=6.8		34.0	139
			LE			36.0	109
			LZ	Ms=6.6		21.0	67.7
QZN	35.2	308	+P	17 00 58.0	−0.1		
			PP	17 02 18.0	1.0		
			PPMZ			10.0	13.2
			S	17 06 31.0	3.5		
			sS	17 06 46.0	2.2		
			PcS	17 07 12.0	−2.2		
			SS	17 08 50.0	5.1		
			ScS	17 11 13.0	0.1		
			LN	Ms=6.8		17.0	66.6
			LE			17.0	48.5
SSE	37.0	335	P	17 01 13.7	0.0		
			PMZ	m_B=6.6		6.0	6.48
			PP	17 02 46.0	5.9		
			S	17 06 58.0	2.0		
			eScP	17 07 14.0	−3.1		
			eSS	17 09 33.0	6.7		
			ScS	17 11 26.0	2.9		
			LN	Ms=6.9		20.0	129
			LE			20.0	38.9
NJ2	38.9	333	−iP	17 01 30.0	0.9		
			LN	Ms=6.5		19.0	41.2
WHN	39.9	327	+iP	17 01 38.0	0.3		
			PMZ	m_B=6.5		8.0	6.36
			SMN			18.0	53.9
			SME			20.0	36.3
			LN	Ms=6.6		16.0	41.7
			LZ	Ms=6.5		20.0	40.2
GYA	41.9	315	P	17 01 56.0	1.6		
			S	17 08 14.0	4.6		
			LN	Ms=6.7		22.0	48.0
			LE			22.0	42.0
TIA	43.1	335	eP	17 02 02.8	−1.6		
			PMZ	m_B=6.6		6.0	5.06
			SMN			13.0	14.0
			SME			14.0	28.4
			LN	Ms=7.0		19.0	110
			LE			19.0	53.2
			LZ	Ms=6.9		20.0	99.3
DL2	43.8	341	P	17 02 10.0	0.2		
			S	17 08 36.0	−1.1		
			ScS	17 12 08.0	4.8		
			LN	Ms=6.9		18.0	65.3

			LE			20.0	65.6
KMI	44.0	310	+P	17 02 13.0	1.3		
			pP	17 02 22.0	1.1		
			PP	17 03 56.0	0.4		
			S	17 08 43.0	2.8		
			LE	Ms=6.8		18.0	62.9
XAN	45.5	325	−iP	17 02 24.3	0.4		
			PMZ	m_B=6.8		6.0	8.82
			S	17 09 05.0	2.7		
			SMN	m_B=7.1		12.0	24.4
			SME			17.0	31.3
			LN	Ms=6.9		16.0	42.8
			LE			17.0	56.4
SNY	45.9	345	−iP	17 02 27.0	0.3		
			PMZ	m_B=7.1		5.0	13.2
			epP	17 02 37.0	0.8		
			S	17 09 12.5	5.0		
			SMN	m_B=6.9		8.0	14.2
			SME			11.0	9.94
			LN	Ms=6.8		16.0	48.1
			LE			16.0	22.4
			LZ	Ms=6.7		20.0	60.2
TIY	46.5	331	eP	17 02 30.5	−0.9		
CD2	46.7	318	P	17 02 34.0	1.4		
			LE	Ms=6.8		15.0	47.5
BJI	46.8	337	+P	17 02 33.0	−0.5		
			eS	17 09 24.0	3.2		
			SMN	m_B=6.7		8.0	8.44
			LN	Ms=7.0		19.0	104
			LZ	Ms=7.1		20.0	148
CN2	47.3	347	+iP	17 02 36.0	−1.8		
			PMZ	m_B=6.7		6.0	6.90
			eS	17 09 28.0	−0.6		
			SMN			14.0	29.5
			LZ	Ms=7.1		18.0	112
MDJ	47.3	351	+P	17 02 37.0	−1.0		
			pP	17 02 51.0	3.6		
			iS	17 09 33.0	4.1		
			LZ	Ms=6.7		20.0	55.7
HHC	49.4	333	eP	17 02 53.4	−0.7		
			S	17 10 02.0	5.2		
			SMN			20.0	38.5
			SME			20.0	39.1
			LE	Ms=7.0		20.0	99.8
BTO	49.9	332	eP	17 02 58.0	−0.1		
			ePP	17 04 56.5	3.4		
			S	17 10 06.0	2.0		
			LN	Ms=7.3		20.0	146
			LE			20.0	115
			LZ	Ms=7.2		19.0	157
LZH	50.0	323	eP	17 02 58.0	−0.4		
			PMZ	m_B=7.0		4.0	7.86
			eS	17 10 05.0	−0.8		
			SMN			12.5	33.5
			LN	Ms=7.0		18.0	66.1
			LE			20.0	63.6
GTA	54.5	324	+iP	17 03 31.0	−1.7		
			PMZ	m_B=6.8		5.5	7.28
			SME			28.0	36.1
			LN	Ms=6.6		34.0	61.5
			LZ	Ms=6.9		18.0	58.7
LSA	55.2	309	P	17 03 36.0	−1.9		
			sP	17 03 55.0	4.1		
			S	17 11 20.0	4.0		
			SMN			13.0	8.82
			SME			12.0	13.8
			LN	Ms=6.7		20.0	15.1
			LE			19.0	38.0
WMQ	64.5	322	P	17 04 40.2	−0.9		
			PMZ	m_B=7.0		5.0	10.6
			PcS	17 09 20.0	3.2		
			S	17 13 12.0	−3.3		
			SMN	m_B=6.9		9.0	12.3
			LN	Ms=6.9		16.0	44.6
KSH	70.5	313	P	17 05 22.0	2.7		
			PP	17 08 00.0	3.2		
			S	17 14 34.0	6.0		
			LE	Ms=7.2		11.0	45.3

1987 10 25

O = 17 36 43.4 ± 0.08s
LAT = 2.44 S ± 1.40km
LONG = 138.40 E ± 1.59km
DEPTH = 32 km ± 0.09km
STATIONS USED = 27, STAND DEV = 1.51s

GYA	42.0	315	P	17 44 34.2	0.2
XAN	45.7	325	+P	17 45 02.8	−0.8
CD2	46.8	318	eP	17 45 16.2	4.0
BJI	46.9	337	eP	17 45 16.5	3.2
GTA	54.7	324	P	17 46 10.6	−1.7
WMQ	64.6	322	eP	17 47 19.5	−1.1

1987 10 25

O = 19 14 52.1 ± 0.06s
LAT = 2.28 S ± 0.83km
LONG = 138.12 E ± 1.47km
DEPTH = 33 km ± 0.37km
STATIONS USED = 27, STAND DEV = 1.12s

GYA	41.7	315	P	19 22 43.4	3.3
XAN	45.4	325	eP	19 23 09.2	−0.7

BJI	46.7	337	P	19 23 20.5	0.6
LZH	49.8	323	eP	19 23 43.5	−0.9
GTA	54.4	324	eP	19 24 18.0	−0.8
WMQ	64.3	322	+P	19 25 27.5	0.2

1987 10 25
O = 19 37 20.8 ± 0.07s
LAT = 2.42 S ± 1.04km
LONG = 138.33 E ± 1.53km
DEPTH = 33 km ± 0.12km
STATIONS USED = 54, STAND DEV = 1.21s

NJ2	38.9	333	+P	19 44 47.0	1.3
GYA	41.9	315	P	19 45 12.0	1.3
TIA	43.2	335	eP	19 45 19.7	−1.4
XAN	45.6	325	+P	19 45 40.0	−0.4
SNY	46.0	345	eP	19 45 43.6	0.0
CD2	46.7	318	eP	19 45 50.0	1.1
BJI	46.9	337	eP	19 45 50.0	−0.2
CN2	47.4	347	−P	19 45 54.8	0.1
MDJ	47.5	352	eP	19 45 54.0	−0.9
BTO	50.0	332	eP	19 46 14.7	0.0
LZH	50.0	323	eP	19 46 15.5	0.7
GTA	54.6	324	+P	19 46 48.9	−0.2
WMQ	64.5	322	P	19 47 58.0	0.5

1987 10 25
O = 19 49 18.3 ± 0.14s
LAT = 12.12 N ± 2.00km
LONG = 144.14 E ± 2.08km
DEPTH = 9 km ± 0.21km
STATIONS USED = 40, STAND DEV = 1.59s

BJI	37.2	323	eP	19 56 32.0	0.1
GYA	38.0	298	P	19 56 40.4	1.5
TIY	38.1	317	eP	19 56 39.5	−0.3
XAN	38.8	310	eP	19 56 44.4	−1.0
BTO	41.3	320	eP	19 57 08.0	1.9
CD2	41.7	303	eP	19 57 09.2	−0.2
LZH	43.4	310	eP	19 57 23.5	−0.2
GTA	47.6	313	P	19 57 56.0	−1.4
WMQ	57.6	314	eP	19 59 11.2	−0.7

1987 10 25
O = 20 26 30.0 ± 0.07s
LAT = 22.03 S ± 1.00km
LONG = 179.39 E ± 0.43km
DEPTH = 638 km ± 1.01km
STATIONS USED = 20, STAND DEV = 0.89s

MDJ	80.4	326	+P	20 37 38.5	−0.5
CN2	82.0	324	P	20 37 46.4	−1.0
TIA	82.5	314	eP	20 37 50.0	0.2
BJI	85.3	317	eP	20 38 03.0	−0.3
GYA	85.3	301	P	20 38 03.6	0.1

1987 10 25
O = 22 25 45.0 ± 0.07s
LAT = 2.22 S ± 0.86km
LONG = 138.30 E ± 1.57km
DEPTH = 32 km ± 0.11km
STATIONS USED = 27, STAND DEV = 1.11s

CD2	46.6	318	eP	22 34 13.0	1.0
BJI	46.7	337	P	22 34 13.5	0.5
CN2	47.2	347	eP	22 34 15.0	−2.4
LZH	49.9	323	eP	22 34 38.5	0.7
GTA	54.4	324	P	22 35 12.2	0.0
WMQ	64.4	322	P	22 36 21.0	0.3

1987 10 25
O = 22 52 47.7 ± 0.07s
LAT = 7.09 S ± 1.00km
LONG = 129.90 E ± 1.29km
DEPTH = 93 km ± 0.17km
STATIONS USED = 68, STAND DEV = 1.05s

QZN	32.6	323	eP	22 59 12.8	−0.3
GYA	40.3	327	P	23 00 17.8	0.2
WHN	40.3	339	P	23 00 18.0	0.4
KMI	41.5	321	−P	23 00 29.0	0.9
TIA	44.7	345	eP	23 00 52.0	−1.8
CD2	45.3	328	eP	23 00 58.0	−0.7
XAN	45.5	335	−P	23 00 59.2	−0.7
DL2	46.4	351	eP	23 01 10.0	2.9
TIY	47.5	341	eP	23 01 15.0	−0.6
BJI	48.6	346	eP	23 01 24.0	−0.1
SNY	49.0	354	−P	23 01 26.8	−0.8
LZH	49.4	332	+P	23 01 30.5	−0.5
CN2	50.8	356	eP	23 01 40.0	−1.3
BTO	50.9	340	eP	23 01 39.6	−2.2
MDJ	51.5	360	eP	23 01 45.6	−0.6
GTA	54.0	331	+P	23 02 04.6	−0.6
WMQ	63.4	327	−P	23 03 10.6	0.2
KSH	68.0	318	eP	23 03 41.5	1.8
			pP	23 04 06.0	3.4
			eS	23 12 30.0	−0.6

1987 10 26
O = 02 53 47.7 ± 0.09s
LAT = 2.45 S ± 1.14km
LONG = 138.19 E ± 2.05km
DEPTH = 33 km ± 0.13km
STATIONS USED = 31, STAND DEV = 1.44s

GYA	41.9	315	P	03 01 36.2	−0.8

KMI	44.0	311	eP	03 01 55.0	0.9			
XAN	45.6	325	P	03 02 06.2	−0.6			
CD2	46.6	318	eP	03 02 15.0	−0.3			
BJI	46.9	337	eP	03 02 14.0	−2.8			
LZH	50.0	323	+P	03 02 40.0	−1.2			
GTA	54.6	324	eP	03 03 19.7	4.1			
WMQ	64.5	322	P	03 04 23.8	−0.1			

1987 10 26
O = 04 49 49.4 ± 0.07s
LAT = 2.35 S ± 0.95km
LONG = 138.28 E ± 2.35km
DEPTH = 34 km ± 0.33km
STATIONS USED = 27, STAND DEV = 1.33s

NJ2	38.9	333	eP	04 57 14.0	0.5			
GYA	41.9	315	P	04 57 40.0	1.4			
KMI	44.0	311	eP	04 57 57.0	1.2			
XAN	45.5	325	P	04 58 07.5	−0.7			
CD2	46.6	318	eP	04 58 16.0	−0.8			
LZH	49.9	323	eP	04 58 43.0	0.3			
GTA	54.5	324	eP	04 59 16.6	−0.4			
WMQ	64.5	322	P	05 00 25.0	−0.4			

1987 10 26
O = 06 03 46.4 ± 0.05s
LAT = 2.38 S ± 0.63km
LONG = 138.42 E ± 1.48km
DEPTH = 37 km ± 0.17km
STATIONS USED = 17, STAND DEV = 1.09s

XAN	45.6	325	P	06 12 05.0	−0.7			
CD2	46.7	318	cP	06 12 14.7	0.3			
GTA	54.6	324	+P	06 13 14.1	−0.3			
WMQ	64.6	322	P	06 14 23.0	0.2			

1987 10 26
O = 17 07 53.1 ± 0.08s
LAT = 44.04 N ± 0.82km
LONG = 87.12 E ± 0.62km
DEPTH = 17 km ± 0.27km
STATIONS USED = 7, STAND DEV = 2.74s
M_L = 2.9 / 6,

WMQ	0.5	118	Pg	17 07 59.4	−2.8			
			Sg	17 08 05.0	−4.0			
			SMN	M_L = 2.6		0.3	0.33	
			SME			0.3	0.32	

1987 10 26
O = 18 46 15.8 ± 0.06s
LAT = 6.36 S ± 0.64km
LONG = 130.51 E ± 1.12km
DEPTH = 134 km ± 0.47km
STATIONS USED = 46, STAND DEV = 0.86s

NJ2	39.8	344	eP	18 53 38.0	0.5			
WHN	39.8	338	P	18 53 40.0	2.1			
GYA	40.0	326	P	18 53 39.6	0.2			
CD2	45.0	327	eP	18 54 19.8	−0.5			
XAN	45.1	334	−P	18 54 20.0	−0.6			
TIY	47.0	340	−iP	18 54 35.5	−0.1			
			LE			24.0	0.40	
BJI	48.0	345	eP	18 54 43.0	−0.7			
			PMZ			1.0	0.010	
LZH	49.1	331	eP	18 54 52.0	0.0			
			PMZ			1.0	0.040	
CN2	50.1	355	+P	18 54 58.8	−1.1			
LSA	52.1	316	+P	18 55 14.6	−0.5			
GTA	53.7	331	+P	18 55 26.4	0.0			
WMQ	63.1	327	+P	18 56 32.5	0.3			
KSH	67.9	317	eP	18 57 03.6	1.1			

1987 10 27
O = 03 15 30.0 ± 0.05s
LAT = 40.48 N ± 0.65km
LONG = 28.46 E ± 0.59km
DEPTH = 18 km ± 0.13km
STATIONS USED = 21, STAND DEV = 0.88s

WMQ	43.2	65	P	03 23 33.7	1.0			
GTA	53.3	66	−iP	03 24 50.6	−0.2			
CD2	60.2	73	P	03 25 39.6	−0.5			
XAN	62.3	68	P	03 25 53.3	−0.7			

1987 10 27
O = 10 22 44.1 ± 0.18s
LAT = 12.18 N ± 1.38km
LONG = 144.14 E ± 1.50km
DEPTH = 37 km ± 1.03km
STATIONS USED = 89, STAND DEV = 1.36s
Ms = 5.2 / 36, m_B = 5.5 / 7

QZH	27.3	301	cP	10 28 30.0	2.5			
			LE	Ms = 5.4		20.0	6.29	
SSE	28.3	315	P	10 28 36.0	−1.1			
NJ2	30.5	314	−P	10 28 55.0	−1.5			
			S	10 33 56.0	2.5			
			LE	Ms = 4.8		11.0	0.70	
WHN	33.1	308	P	10 29 20.0	1.2			
			pP	10 29 32.0	3.4			
			S	10 34 36.0	2.7			
			LZ	Ms = 5.1		20.0	2.30	
DL2	33.3	327	cP	10 29 20.8	0.1			
			cS	10 34 36.0	−1.7			
			LN	Ms = 5.2		15.0	2.16	

TIA	34.1	319	+P	10 29 27.0	−1.0		
			cPP	10 30 39.0	−3.3		
			PPMZ			6.0	0.55
			SMN	m_B = 5.4		6.5	0.42
			SME			6.5	0.27
			LN	Ms = 5.3		20.0	2.22
			LE			20.0	3.02
			LZ	Ms = 5.4		20.0	4.13
SNY	34.6	332	+P	10 29 30.0	−1.7		
			PP	10 30 48.0	−0.1		
			S	10 34 58.0	1.4		
			sS	10 35 10.0	−4.0		
			LN	Ms = 5.3		16.0	2.33
			LE			18.0	1.46
			LZ	Ms = 5.3		17.0	3.00
MDJ	34.6	342	eP	10 29 31.0	−1.4		
			PP	10 30 46.0	−3.2		
			PcP	10 32 05.0	−0.7		
			cS	10 34 58.0	−0.8		
			LZ	Ms = 5.5		15.0	4.07
CN2	35.4	336	+P	10 29 37.0	−1.8		
			cPP	10 30 55.0	−3.5		
			LZ	Ms = 5.2		17.0	2.30
BJI	37.1	323	+P	10 29 53.0	−0.4		
			cPP	10 31 18.0	−2.2		
			SMN			18.0	0.59
			SME			18.0	0.53
			LN	Ms = 5.1		17.0	1.16
			LE			17.0	1.18
GYA	38.0	298	+P	10 30 01.8	1.3		
			pP	10 30 14.8	4.4		
			S	10 35 54.0	5.4		
			LN	Ms = 5.1		18.0	1.00
			LE			18.0	1.30
TIY	38.1	317	+iP	10 30 01.6	0.3		
			PP	10 31 35.0	3.6		
			S	10 35 47.0	−3.2		
			LZ	Ms = 5.1		18.0	1.82
XAN	38.7	310	+P	10 30 07.3	0.4		
			S	10 36 04.1	3.7		
			LE	Ms = 5.2		18.0	2.01
HHC	40.4	321	eP	10 30 21.2	0.4		
			ScS	10 40 26.0	5.2		
KMI	41.1	294	+P	10 30 28.5	1.6		
			LE	Ms = 5.1		16.0	1.21
BTO	41.2	320	+P	10 30 28.0	0.4		
			cPP	10 32 08.0	2.2		
			cS	10 36 40.0	1.2		
			csS	10 37 00.0	4.8		
			LN	Ms = 5.3		15.0	1.10
			LE			18.0	1.90
			LZ	Ms = 5.3		18.0	2.60
CD2	41.6	303	P	10 30 31.2	0.2		
			PMZ			1.0	0.26
			pP	10 30 43.0	2.1		
			cS	10 36 47.0	2.0		
LZH	43.4	310	+iP	10 30 46.0	0.7		
			PMZ			1.5	0.20
			cS	10 37 08.0	−2.5		
			SME	m_B = 5.3		12.0	0.55
			LN	Ms = 5.4		8.0	1.02
			LE			10.0	0.79
GTA	47.6	313	+iP	10 31 18.7	−0.1		
			pP	10 31 32.2	3.5		
			PcP	10 32 49.0	1.2		
			S	10 38 10.0	0.3		
			ScS	10 41 10.7	5.0		
			LE	Ms = 5.4		20.0	2.50
LSA	52.0	298	P	10 31 49.0	−4.1		
			S	10 39 15.0	3.8		
			LN	Ms = 5.4		21.0	2.56
WMQ	57.6	314	P	10 32 33.5	0.2		
			pP	10 32 44.5	1.1		
			sP	10 32 51.0	3.4		
			cS	10 40 32.0	4.7		
			LN	Ms = 5.7		18.0	3.64
KSH	65.5	308	P	10 33 28.5	1.7		

1987 10 27
O = 12 57 59.6 ± 0.06s
LAT = 21.30 S ± 0.97km
LONG = 178.73 W ± 1.05km
DEPTH = 542 km ± 0.76km
STATIONS USED = 65, STAND DEV = 0.71s
m_B = 5.6 / 13

QZH	76.3	304	eP	13 08 53.0	−1.6		
			S	13 17 56.0	1.3		
SSE	77.7	310	+P	13 09 02.0	−0.2		
			sP	13 11 52.0	0.9		
			S	13 18 10.0	0.7		
			LZ			20.0	0.47
NJ2	79.9	310	−P	13 09 14.3	0.6		
MDJ	80.8	325	−P	13 09 18.9	0.4		
			PMZ			3.0	0.10
			sP	13 12 08.0	−0.2		
			iS	13 18 44.0	1.2		
			sS	13 22 10.0	3.9		
DL2	81.8	317	P	13 09 23.0	−0.9		
			S	13 18 48.0	−3.7		
WHN	82.4	307	P	13 09 27.0	0.4		

			PMZ			2.0	0.40
			pP	13 11 24.0	1.0		
			S	13 19 00.0	3.1		
SNY	82.4	320	−iP	13 09 26.3	−0.3		
			PMZ	$m_B = 5.7$		4.0	1.15
			S	13 18 54.0	−3.0		
			ScS	13 19 04.0	−3.1		
CN2	82.5	323	−iP	13 09 27.0	−0.3		
			PMZ	$m_B = 5.8$		4.0	1.40
			pP	13 11 26.0	2.2		
			cPP	13 12 48.0	0.5		
			eS	13 19 00.0	0.0		
			SME	$m_B = 5.6$		6.0	0.60
			sS	13 22 30.0	5.5		
TIA	83.3	313	−P	13 09 31.6	0.3		
			esP	13 12 22.6	1.0		
			SMN	$m_B = 5.7$		6.0	0.46
			SME			6.0	0.55
BJI	86.0	316	−P	13 09 44.5	0.2		
			PMZ	$m_B = 5.6$		4.0	0.64
			SKS	13 19 16.0	−0.6		
			eS	13 19 36.0	2.8		
			SMN	$m_B = 5.6$		7.0	0.27
			SME			7.0	0.58
GYA	86.5	300	−P	13 09 47.2	0.5		
TIY	87.3	312	−P	13 09 51.0	0.4		
			PMZ	$m_B = 5.9$		3.5	0.92
			SKS	13 19 26.5	1.4		
			S	13 19 47.0	3.4		
XAN	88.1	308	−P	13 09 55.0	0.8		
KMI	89.1	297	−P	13 10 00.0	0.7		
HHC	89.4	315	cP	13 10 01.0	0.4		
BTO	90.3	314	P	13 10 04.0	−0.8		
			pP	13 12 05.0	1.6		
			PP	13 13 47.0	−3.1		
			cS	13 20 16.0	3.2		
CD2	90.6	303	cP	13 10 07.0	0.8		
LZH	92.7	308	−P	13 10 16.5	0.7		
			PMZ			2.5	0.14
GTA	97.0	309	−P	13 10 34.4	−0.7		
			SKS	13 20 18.0	−0.6		
			S	13 21 14.0	6.8		
			SME	$m_B = 5.1$		6.0	0.32

1987 10 27

O = 14 01 37.1 ± 0.05s
LAT = 51.43 N ± 2.06km
LONG = 176.29 W ± 1.00km
DEPTH = 30 km ± 0.58km
STATIONS USED = 31, STAND DEV = 0.88s

SNY	41.3	281	−iP	14 09 23.1	1.1		
BJI	46.9	284	eP	14 10 08.0	1.0		
TIA	48.7	279	+P	14 10 21.2	0.0		
SSE	49.6	271	eP	14 10 29.0	1.2		
TIY	50.6	284	eP	14 10 37.0	1.0		
XAN	55.2	283	P	14 11 09.2	−0.7		
CD2	60.5	283	eP	14 11 45.7	−1.5		
GYA	61.9	278	P	14 11 56.4	−0.2		
KMI	65.3	280	−P	14 12 19.0	0.0		

1987 10 27

O = 21 49 07.4 ± 0.10s
LAT = 42.21 N ± 0.89km
LONG = 84.25 E ± 0.62km
DEPTH = 8 km ± 0.20km
STATIONS USED = 7, STAND DEV = 2.22s
M_L = 3.0 / 7,

WMQ	3.0	56	ePn	21 49 59.0	3.3		
			Sn	21 50 36.5	2.9		
			Sg	21 50 39.0	−2.4		
			SME	$M_L = 2.9$		0.5	0.050

1987 10 27

O = 21 58 17.0 ± 0.13s
LAT = 28.66 S ± 1.99km
LONG = 62.93 W ± 0.65km
DEPTH = 603 km ± 1.42km
STATIONS USED = 98, STAND DEV = 1.02s
m_B = 6.0 / 17

KSH	144.6	61	iPKP	22 16 47.0	0.0		
			pPKP	22 19 02.0	−1.8		
			PP	22 20 14.0	1.0		
WMQ	152.1	49	PKP	22 16 59.0	0.1		
			PKP_2	22 17 21.0			
			PP	22 20 56.0	0.5		
			SKS	22 23 02.5	−4.8		
			SKKS	22 26 43.0			
LSA	157.4	81	−iPKP	22 17 06.2	−0.1		
			PKP_2	22 17 41.0			
			PP	22 21 23.0	−1.5		
			PPMZ	$m_B = 6.3$		5.0	1.99
MDJ	161.2	331	+PKP	22 17 09.0	−1.1		
			PKP_2	22 17 57.5			
			pPKP	22 19 28.0	−1.4		
			PP	22 21 42.0	−3.2		
			iSKKS	22 27 28.0			
			SS	22 41 04.0	−6.4		
GTA	162.2	49	iPKP	22 17 11.2	0.0		
			pPKP	22 19 34.0	3.5		
			PP	22 21 50.0	0.2		

			SKKS	22 27 35.0				
			SS	22 41 20.0	−0.6			
CN2	163.5	338	−PKP	22 17 10.0	−2.4			
			pPKP	22 19 31.0	−0.9			
			sPKP	22 20 29.0				
			PP	22 21 52.0	−4.5			
			PPMZ	$m_B = 6.0$		5.0	1.00	
			SKKS	22 27 37.0				
SNY	165.8	340	cPKP	22 17 13.0	−1.5			
			pPKP	22 19 35.5	1.4			
			sPKP	22 20 32.0				
			PP	22 22 06.0	−2.7			
			SKKS	22 27 52.0				
LZH	166.6	53	PKP	22 17 15.5	0.3			
			PKP_2	22 18 23.0				
			pPKP	22 19 39.0	4.2			
			sPKP	22 20 37.5				
			PP	22 22 14.0	1.5			
			PPMZ	$m_B = 6.2$		6.0	2.15	
KMI	166.7	102	−PKP	22 17 15.5	0.1			
			PKP_2	22 18 22.0				
			pPKP	22 19 39.5	4.7			
			sPKP	22 20 39.0				
			iPP	22 22 15.5	2.4			
			iSKKS	22 28 00.0				
			SS	22 42 02.0	−4.4			
BTO	166.8	24	PKP	22 17 15.0	−0.3			
			PKP_2	22 18 23.0				
			pPKP	22 19 36.0	1.1			
			PP	22 22 11.0	−2.3			
			SS	22 42 03.5	−3.2			
HHC	167.0	19	cPKP	22 17 14.0	−1.5			
			PKP_2	22 18 26.0				
			pPKP	22 19 37.0	2.0			
			PP	22 22 12.0	−2.6			
			PPMZ	$m_B = 5.7$		6.0	0.69	
CD2	168.2	76	PKP	22 17 15.8	−0.3			
			PP	22 22 23.7	3.3			
			PPMZ	$m_B = 6.5$		6.0	4.08	
			SKKS	22 28 05.3				
QZN	168.4	144	PKP	22 17 17.3	1.2			
			pPKP	22 19 39.0	3.2			
			SKS	22 23 25.0	3.6			
			SKKS	22 28 08.0				
			SS	22 42 21.5	−0.8			
BJI	168.6	3	cPKP	22 17 15.5	−0.8			
			PKP_2	22 18 30.0				
			pPKP	22 19 37.0	1.1			
			PP	22 22 19.0	−3.4			
			SKKS	22 28 06.0				
DL2	169.1	341	PKP	22 17 18.0	1.4			
			pPKP	22 19 40.0	3.7			
			PP	22 22 20.0	−4.8			
TIY	170.2	22	−PKP	22 17 17.2	−0.1			
			PKP_2	22 18 40.0				
			pPKP	22 19 41.5	4.5			
			PP	22 22 26.5	−3.6			
			PPMZ	$m_B = 6.0$		7.0	1.85	
GYA	170.5	101	PKP	22 17 17.0	−0.6			
			pPKP	22 19 40.0	2.8			
			PP	22 22 33.0	1.2			
			SKKS	22 28 19.0				
XAN	171.2	50	−PKP	22 17 17.9	0.0			
			pPKP	22 19 40.0	2.4			
			SKKS	22 28 18.0				
TIA	172.5	360	−PKP	22 17 18.3	−0.3			
			PKP_2	22 18 47.4				
			pPKP	22 19 40.5	2.2			
			PP	22 22 38.7	−2.8			
			PPMZ	$m_B = 5.8$		5.0	0.80	
			SKS	22 23 18.0	−5.2			
			SKKS	22 28 28.0				
			SS	22 42 56.0	−5.7			
GZH	173.5	148	cPKP	22 17 19.0	0.1			
			$iPKP_2$	22 18 52.2				
			PP	22 22 44.0	−2.7			
SSE	175.7	305	PKP	22 17 20.0	0.5			
			PKP_2	22 19 02.0				
			pPKP	22 19 39.5	0.1			
			SKKS	22 28 40.0				
			SS	22 43 34.0	2.6			
QZH	176.1	201	cPKP	22 17 20.0	0.4			
			cPP	22 23 00.0	0.7			
			SS	22 43 38.0	3.3			
NJ2	176.3	336	+PKP	22 17 19.8	0.1			
			pPKP	22 19 36.0	−3.6			
			PP	22 22 56.0	−4.4			
WHN	177.0	51	PKP	22 17 20.5	0.7			
			pPKP	22 19 44.0	4.3			
			PP	22 23 04.0	1.0			
			PPMZ	$m_B = 6.2$		6.0	3.00	
			SKKS	22 28 46.0				

1987 10 27

O = 23 32 01.8 ± 0.09s

LAT = 33.96 N ± 0.92km

LONG = 105.62 E ± 1.04km

DEPTH = 8 km ± 0.35km

STATIONS USED = 21, STAND DEV = 2.48s

M_L = 3.7 / 13,

LZH	2.6	326	Pn	23 32 45.0	0.8		
			Pg	23 32 48.0	0.8		
			Sn	23 33 15.5	−1.9		
			Sg	23 33 20.0	−2.4		
			SMN	M_L=4.2		1.0	1.18
			SME			1.0	1.39
XAN	2.7	87	Pn	23 32 47.2	0.8		
			Pg	23 32 50.9	0.7		
			Sg	23 33 26.4	−1.3		
TIY	6.7	54	Pg	23 34 03.4	3.5		
			Sn	23 34 57.2	−1.9		
			SMN	M_L=3.8		0.7	0.040
			SME			0.7	0.050
GTA	7.2	321	Pn	23 33 46.7	−0.6		
			Sg	23 35 44.7	−1.4		
			SMN	M_L=3.6		1.0	0.030
			SME			0.8	0.020
GYA	7.5	173	Pn	23 33 56.2	3.9		
			SMN	M_L=4.1		1.4	0.060
			SME			1.4	0.060
WHN	8.1	112	cP	23 34 03.2	0.0		

1987 10 28
O=00 12 32.2 ± 0.08s
LAT=31.62 N ± 0.93km
LONG=116.39 E ± 0.82km
DEPTH= 16 km ± 0.24km
STATIONS USED = 18, STAND DEV= 2.07s
M_L=3.6 / 16,

WHN	2.0	239	cPn	00 13 09.0	2.4		
			Pg	00 13 10.5	2.0		
			Sn	00 13 32.5	−1.2		
			Sg	00 13 36.5	−0.1		
			SMN	M_L=4.1		0.5	1.50
			SME			0.5	1.56
NJ2	2.1	78	cPn	00 13 07.4	−0.5		
			iPg	00 13 11.6	1.4		
			Sg	00 13 39.7	0.1		
			SMN	M_L=3.7		0.4	0.50
			SME			0.4	0.60
SSE	4.1	96	Pn	00 13 36.0	0.7		
			Pg	00 13 48.5	3.1		
			Sn	00 14 25.0	−0.5		
			Sg	00 14 45.0	3.0		
			SMN	M_L=3.5		1.0	0.10
TIA	4.6	7	Pn	00 13 43.0	1.0		
			Pg	00 13 58.7	4.9		
			Sg	00 14 52.2	−4.8		
			SMN	M_L=3.5		0.7	0.050
			SME			0.7	0.090
			SMZ	M_L=3.5		0.7	0.050
XAN	6.7	293	Pn	00 14 11.9	0.9		
			Pg	00 14 34.4	3.4		
			Sn	00 15 25.4	−4.2		
			Sg	00 16 03.9	0.8		
			SMN	M_L=3.9		1.0	0.060
			SME			1.0	0.060

1987 10 28
O=06 36 09.8 ± 0.05s
LAT=52.27 N ± 1.87km
LONG=170.73 W ± 0.85km
DEPTH= 35 km ± 0.39km
STATIONS USED = 51, STAND DEV= 0.83s
Ms=4.7 / 2,

CN2	42.2	285	cP	06 44 01.0	−0.7		
SNY	44.5	284	+P	06 44 20.5	0.3		
BJI	50.0	287	cP	06 45 03.5	0.2		
TIA	51.9	282	cP	06 45 17.5	−0.5		
HHC	52.2	290	cP	06 45 20.3	0.5		
SSE	53.0	275	+P	06 45 26.5	0.8		
			PMZ			1.0	0.050
			LZ	Ms=4.7		20.0	0.47
BTO	53.2	291	−iP	06 45 28.4	0.7		
NJ2	53.7	277	−P	06 45 30.7	−0.6		
TIY	53.7	287	P	06 45 30.8	−0.6		
			LZ	Ms=4.6		26.0	0.42
WHN	57.5	279	P	06 45 59.4	0.7		
XAN	58.3	286	P	06 46 03.2	−1.2		
GTA	59.8	296	P	06 46 13.1	−1.4		
WMQ	62.9	307	P	06 46 35.5	−0.3		
CD2	63.6	287	eP	06 46 39.8	−0.3		
GYA	65.1	282	P	06 46 50.0	−0.2		
KMI	68.5	283	eP	06 47 12.0	0.6		
LSA	71.7	295	+P	06 47 31.2	−0.3		

1987 10 28
O=07 15 28.5 ± 0.05s
LAT=37.90 N ± 0.56km
LONG=102.28 E ± 0.45km
DEPTH= 7 km ± 0.07km
STATIONS USED = 13, STAND DEV= 2.59s
M_L=3.8 / 11,

LZH	2.2	145	Pg	07 16 06.0	−1.5		
			Sg	07 16 34.5	−2.8		
			SMN	M_L=4.2		1.0	1.55
			SME			0.5	1.69
GTA	2.5	309	Pn	07 16 09.2	−0.2		
			Pg	07 16 12.4	0.6		
			Sg	07 16 45.5	0.1		

BTO	6.6	63	cPg	07 17 24.8	−0.1		
HHC	7.8	65	Pg	07 17 50.0	4.1		
			SME	M_L = 3.9	0.8	0.040	

1987 10 28
O = 08 58 28.4 ± 0.08s
LAT = 5.74 N ± 1.29km
LONG = 36.78 E ± 1.41km
DEPTH = 10 km ± 0.20km
STATIONS USED = 96, STAND DEV = 0.88s
Ms = 6.0 / 51, m_B = 6.0 / 24

KSH	48.7	41	−iP	09 07 16.5	0.8		
			PP	09 09 07.0	−0.7		
			S	09 14 22.0	5.8		
			LN	Ms = 6.4	11.0	13.2	
LSA	56.4	58	P	09 08 12.4	−1.1		
			LN	Ms = 5.7	18.0	3.62	
WMQ	58.5	41	P	09 08 26.0	−1.8		
			PMZ		2.0	0.25	
			ScP	09 13 14.5	−1.5		
			S	09 16 30.0	1.4		
			sS	09 16 38.0	−1.1		
			LN	Ms = 5.9	24.0	7.23	
GTA	65.6	49	−iP	09 09 15.5	−0.3		
			PMZ	m_B = 5.8	9.0	1.20	
			PP	09 11 45.0	3.4		
			SMN		17.0	1.32	
			LE	Ms = 6.0	14.0	4.40	
			LZ	Ms = 5.9	17.0	4.40	
KMI	65.8	65	−P	09 09 17.0	−0.1		
			PMZ		18.0	0.90	
			sP	09 09 24.0	−1.1		
			PP	09 11 46.0	2.8		
			S	09 18 08.0	6.8		
			LE	Ms = 5.8	17.0	2.90	
CD2	67.3	59	cP	09 09 25.9	−0.6		
			LE	Ms = 6.1	18.0	6.99	
LZH	68.1	53	−iP	09 09 32.0	0.3		
			PMZ		1.5	0.20	
			eS	09 18 36.0	5.3		
			SME	m_B = 5.7	11.0	0.75	
			LN	Ms = 6.2	20.0	7.19	
			LE		20.0	3.77	
GYA	69.5	64	−P	09 09 39.0	−0.8		
			sP	09 09 46.0	−1.9		
			S	09 18 48.0	3.3		
			LN	Ms = 5.9	18.0	3.70	
			LE		18.0	2.40	
XAN	72.0	56	−P	09 09 54.4	−0.8		
			S	09 19 19.0	4.6		
			LN	Ms = 5.9	18.0	2.68	
			LE		18.0	2.68	
QZN	72.2	72	P	09 09 56.0	0.0		
			S	09 19 16.0	−0.1		
			SME	m_B = 6.1	10.0	1.80	
			LN	Ms = 5.8	17.0	1.70	
			LE		17.0	2.50	
BTO	73.6	49	cP	09 10 04.6	0.2		
			PMZ	m_B = 5.9	9.0	1.30	
			sP	09 10 12.0	−0.5		
			PP	09 12 53.0	4.0		
			S	09 19 38.5	6.5		
			LN	Ms = 6.0	15.0	2.30	
			LE		16.0	3.10	
			LZ	Ms = 6.0	16.0	4.20	
HHC	74.8	49	−P	09 10 11.8	0.4		
			PP	09 13 00.0	0.4		
TIY	75.2	53	−iP	09 10 13.0	−0.6		
			PMZ	m_B = 6.0	10.0	1.65	
			S	09 19 53.0	3.1		
			SS	09 24 45.0	3.8		
			LN	Ms = 6.0	30.0	6.85	
			LE		36.0	3.53	
			LZ	Ms = 6.0	20.0	4.98	
GZH	75.4	68	P	09 10 14.0	−1.0		
			S	09 19 58.0	5.2		
WHN	76.4	60	−P	09 10 21.0	0.4		
			pP	09 10 26.0	−0.1		
			S	09 20 10.0	6.5		
			LN	Ms = 5.6	13.0	1.20	
			LZ	Ms = 5.8	20.0	2.80	
BJI	78.2	50	−P	09 10 31.0	0.4		
			PMZ		2.0	0.10	
			PP	09 13 26.0	−2.4		
			eS	09 20 30.0	5.3		
			SME	m_B = 5.7	9.0	0.59	
			eSS	09 25 32.0	4.1		
			LN	Ms = 6.1	22.0	6.73	
TIA	78.8	54	−P	09 10 34.5	0.3		
			sP	09 10 39.0	−3.3		
			S	09 20 36.5	6.7		
			SMN	m_B = 6.0	8.0	0.46	
			SME		8.0	0.91	
			LN	Ms = 5.8	15.0	1.48	
			LE		18.0	2.07	
			LZ	Ms = 5.7	19.0	1.98	
QZH	80.2	66	−P	09 10 43.0	1.6		
			PMZ	m_B = 5.8	9.0	0.84	
			ePP	09 13 46.0	1.7		
			eS	09 20 48.5	2.9		

			LN	Ms 5.8	16.0	2.17
NJ2	80.3	59	+P	09 10 43.0	1.2		
			sP	09 10 50.0	0.0		
			S	09 20 47.0	2.2		
			LE	Ms=5.8	15.0	2.00
SSE	82.3	59	−P	09 10 52.5	0.1		
			PMZ	m_B=6.0	8.0	1.29
			PP	09 14 00.0	−1.9		
			sS	09 21 16.0	−0.4		
			SS	09 26 24.0	−5.0		
			LN	Ms=6.2	20.0	5.54
			LE		20.0	3.29
DL2	82.4	52	eP	09 10 53.0	−0.1		
			LN	Ms=6.1	18.0	3.61
			LE		18.0	3.05
SNY	83.8	49	−iP	09 11 00.0	−0.3		
			PMZ	m_B=6.0	12.0	1.82
			PP	09 14 14.0	−0.3		
			S	09 21 24.0	2.9		
			SMN		22.0	1.49
			SME		18.0	1.63
			LN	Ms=6.2	18.0	4.00
			LE		16.0	3.36
			LZ	Ms=6.0	19.0	3.58
CN2	85.1	47	−iP	09 11 07.0	0.2		
			PMZ	m_B=6.3	5.0	1.30
			pP	09 11 11.5	−0.8		
			PP	09 14 25.0	0.5		
			S	09 21 33.0	−0.8		
			SME	m_B=6.0	11.0	1.40
			SS	09 27 07.0	−3.3		
			LZ	Ms=6.1	21.0	5.30
MDJ	88.0	46	eP	09 11 21.0	0.0		
			eSKS	09 21 50.0	4.1		
			S	09 22 04.0	2.5		
			LZ	Ms=6.1	25.0	6.32

1987 10 28
O=18 21 29.8 ± 0.10s
LAT=28.27 S ± 1.32km
LONG=176.62 W ± 1.33km
DEPTH= 44 km ± 0.92km
STATIONS USED = 68, STAND DEV= 0.99s
Ms=5.5/17, m_B=5.4/2

QZH	81.7	304	eP	18 33 45.0	−1.2	
			eS	18 44 01.0	6.4	
			LE	Ms=5.3	20.0	0.87
SSE	83.6	310	+P	18 33 56.0	0.1	
			PMZ	m_B=5.5	8.0	0.43
			sS	18 44 31.0	−2.9	
			SS	18 49 46.0	3.9	
			LZ	Ms=5.5	20.0	1.40
GZH	84.6	300	eP	18 34 01.6	0.7	
QZN	85.2	294	eP	18 34 04.6	0.9	
NJ2	85.8	310	+P	18 34 06.5	−0.1	
MDJ	87.6	325	eP	18 34 15.5	0.2	
			LZ	Ms=5.7	20.0	1.77
WHN	88.0	306	P	18 34 19.5	1.9	
			eS	18 44 50.0	−6.3	
			LZ	Ms=5.1	20.0	0.50
DL2	88.2	317	eP	18 34 20.0	1.6	
SNY	88.9	320	+P	18 34 20.0	−1.8	
			eS	18 44 58.0	−6.6	
			LN	Ms=5.3	18.0	0.71
CN2	89.2	322	+P	18 34 22.0	−1.0	
			eS	18 45 05.0	−2.0	
			LE	Ms=5.4	24.0	1.00
TIA	89.4	312	−P	18 34 24.6	0.5	
			S	18 45 13.7	6.3	
			LN	Ms=5.7	18.0	0.68
			LE		18.0	1.33
			LZ	Ms=5.7	18.0	1.66
GYA	91.6	299	P	18 34 35.0	0.8	
BJI	92.3	315	eP	18 34 37.0	−0.4	
			eSKS	18 45 08.0	4.3	
			SMN		14.0	0.88
TIY	93.4	311	−P	18 34 43.0	0.5	
			sS	18 46 06.0	1.5	
			LE	Ms=5.4	16.0	0.76
			LZ	Ms=5.6	32.0	1.96
XAN	93.8	307	−P	18 34 44.9	0.5	
KMI	93.9	296	eP	18 34 45.5	0.2	
CD2	96.0	302	eP	18 34 55.0	0.6	
LZH	98.4	306	eP	18 35 05.0	−0.6	
GTA	102.8	308	eP	18 35 25.0	−0.2	

1987 10 28
O=22 41 52.6 ± 0.08s
LAT=28.43 S ± 1.71km
LONG=176.57 W ± 1.97km
DEPTH= 32 km ± 0.32km
STATIONS USED = 34, STAND DEV= 0.97s
Ms=5.1/2,

SSE	83.8	310	eP	22 54 20.1	−0.7	
			LZ	Ms=5.1	20.0	0.47
NJ2	85.9	310	eP	22 54 32.0	0.4	
MDJ	87.7	325	eP	22 54 40.0	−0.3	
SNY	89.1	320	eP	22 54 46.0	−0.8	
CN2	89.3	322	+P	22 54 47.0	−1.1	
TIA	89.6	312	eP	22 54 49.7	0.6	

GYA	91.7	299	P	22 55 00.6	1.5		
BJI	92.4	315	eP	22 55 02.0	−0.3		
			eSKS	23 05 32.0	1.6		
TIY	93.5	311	eP	22 55 08.0	0.6		
XAN	93.9	307	P	22 55 08.0	−1.3		
KMI	94.1	296	eP	22 55 11.5	1.4		
CD2	96.1	302	eP	22 55 20.3	1.1		

1987 10 28
O = 23 02 52.3 ± 0.06s
LAT = 4.45 S ± 1.31km
LONG = 102.55 E ± 1.74km
DEPTH = 74 km ± 0.85km
STATIONS USED = 38, STAND DEV = 1.10s
Ms = 4.5 / 1,

QZN	24.4	17	eP	23 08 07.2	1.9		
GYA	31.0	7	P	23 09 05.4	0.1		
LZH	40.3	2	eP	23 10 25.0	0.2		
TIY	42.9	12	eP	23 10 46.2	0.2		
			LZ	Ms = 4.5		30.0	0.62
BJI	46.0	15	eP	23 11 10.0	−0.5		
WMQ	49.9	346	P	23 11 41.0	0.3		
CN2	52.3	21	+P	23 11 56.6	−2.2		

1987 10 29
O = 09 10 55.3 ± 0.16s
LAT = 24.00 N ± 1.62km
LONG = 121.75 E ± 1.89km
DEPTH = 29 km ± 0.55km
STATIONS USED = 29, STAND DEV = 1.98s
Ms = 4.0 / 3, M_L = 4.3 / 7,

QZH	3.0	289	ePn	09 11 41.7	−0.1		
			iSn	09 12 15.3	−3.4		
			eSg	09 12 29.3	−1.1		
			SMN	M_L = 4.1		0.7	0.78
			SME			0.7	0.53
SSE	7.1	356	P	09 12 40.2	0.4		
			S	09 14 01.5	1.5		
			LE	Ms = 4.0		6.0	0.74
GZH	7.8	265	P	09 12 48.0	−1.3		
			S	09 14 11.5	−5.5		
			SMN	M_L = 4.2		0.7	0.090
			SME			0.7	0.050
NJ2	8.4	343	−P	09 12 58.6	0.2		
			eS	09 14 28.6	−4.8		
			LE			3.0	0.80
WHN	9.3	316	P	09 13 08.5	−1.6		
			SME			1.5	0.38
QZN	12.1	248	eP	09 13 49.0	−0.4		
GYA	13.9	283	P	09 14 12.0	−0.6		
			S	09 16 43.0	−3.1		
			LE	Ms = 4.1		11.0	0.60
XAN	15.0	315	eP	09 14 26.0	−1.6		
CD2	17.4	297	eP	09 14 58.6	1.0		
LZH	19.6	312	eP	09 15 26.0	1.6		

1987 10 29
O = 14 22 01.6 ± 0.09s
LAT = 15.54 N ± 1.41km
LONG = 147.39 E ± 1.88km
DEPTH = 30 km ± 0.46km
STATIONS USED = 29, STAND DEV = 1.33s

WHN	33.7	302	eP	14 28 43.5	0.7		
XAN	39.2	305	P	14 29 28.3	−0.8		
GYA	39.4	293	P	14 29 33.0	2.2		
CD2	42.6	299	eP	14 29 57.0	−0.5		
LZH	43.8	306	eP	14 30 07.5	0.5		
GTA	47.8	309	P	14 30 39.0	0.3		
LSA	53.3	296	P	14 31 20.6	−0.6		
WMQ	57.6	312	eP	14 31 51.8	0.0		

1987 10 29
O = 16 25 27.2 ± 0.03s
LAT = 37.67 N ± 0.24km
LONG = 112.37 E ± 0.30km
DEPTH = 7 km ± 0.22km
STATIONS USED = 6, STAND DEV = 1.23s
M_L = 2.9 / 7,

TIY	0.1	48	iPg	16 25 28.7	−0.3		
			Sg	16 25 30.4	0.2		
			SMN	M_L = 2.9		0.3	2.94
			SME			0.3	2.96
BTO	3.5	329	ePg	16 26 27.2	−1.1		
			Sg	16 27 11.4	−3.9		

1987 10 29
O = 20 07 59.8 ± 0.09s
LAT = 7.29 N ± 1.14km
LONG = 126.88 E ± 2.22km
DEPTH = 71 km ± 0.35km
STATIONS USED = 53, STAND DEV = 1.65s
Ms = 4.7 / 10,

QZH	19.3	337	eP	20 12 17.0	−4.4		
			LN	Ms = 4.5		22.0	1.81
QZN	20.3	307	eP	20 12 32.5	0.5		
			LE	Ms = 4.8		16.0	2.30
GZH	20.4	322	eP	20 12 32.0	−1.4		
SSE	24.3	348	eP	20 13 10.0	−1.7		
			eS	20 17 24.0	1.2		
			esS	20 17 52.0	1.4		

			LZ		Ms=4.8	20.0	1.87
NJ2	25.7	344	eP	20 13 27.5	1.8		
			S	20 17 52.0	5.4		
			LN		Ms=4.5	12.0	0.50
WHN	25.9	335	eP	20 13 26.0	−1.6		
GYA	27.1	317	P	20 13 39.2	1.0		
			LN		Ms=5.0	18.0	1.90
			LE			18.0	1.60
KMI	29.1	310	eP	20 13 56.0	−0.4		
XAN	31.4	331	P	20 14 19.0	2.7		
BJI	34.0	345	eP	20 14 43.0	4.0		
			LN		Ms=4.6	16.0	0.59
			LZ		Ms=4.5	24.0	0.65
CN2	36.4	358	eP	20 15 01.0	1.6		
MDJ	37.3	3	eP	20 15 08.0	1.3		
GTA	40.2	327	eP	20 15 31.2	0.0		
LSA	40.3	308	P	20 15 34.8	2.4		
WMQ	49.9	323	P	20 16 49.0	0.0		

1987 10 29
O=20 23 40.4 ± 0.08s
LAT= 4.81 N ± 0.83km
LONG=127.78 E ± 1.13km
DEPTH=153 km ± 0.35km
STATIONS USED = 98, STAND DEV= 0.86s
m_B=6.4 / 33

QZH	21.9	337	+iP	20 28 21.5	−0.3		
			PMZ		m_B=6.5	5.0	8.56
			sP	20 29 05.5	−4.5		
			iS	20 32 11.0	2.1		
			SMN			21.0	14.2
			SME			21.0	16.5
QZN	22.5	310	−P	20 28 28.2	0.4		
			PMZ		m_B=6.3	6.5	7.10
			pP	20 28 56.0	−1.6		
			PP	20 29 04.0	0.9		
			PcP	20 32 22.0	4.2		
			S	20 32 18.0	−1.0		
			SMN		m_B=6.9	11.0	43.2
			SME			12.0	20.7
			ScS	20 39 28.0	4.4		
GZH	22.9	324	−iP	20 28 32.5	0.8		
			pP	20 29 07.0	5.2		
			S	20 32 27.0	1.1		
SSE	26.9	347	+iP	20 29 08.0	−1.0		
			PMZ		m_B=6.6	4.0	4.87
			pP	20 29 42.0	1.5		
			iPcP	20 32 28.0	0.7		
			S	20 33 28.0	−4.0		
			SMN			14.0	11.1
			SME			14.0	5.79
			sS	20 34 30.0	1.9		
			SS	20 34 58.0	−1.3		
			iScP	20 35 54.0	2.5		
			ePcS	20 36 08.0	0.7		
			iScS	20 39 44.0	2.7		
			LZ			20.0	16.4
NJ2	28.4	344	+P	20 29 22.0	−0.5		
			PMZ		m_B=6.2	6.0	2.90
			S	20 33 59.0	3.0		
			ScP	20 36 00.0	3.9		
			ScS	20 39 44.0	−4.0		
WHN	28.6	335	−P	20 29 25.5	1.3		
			PMZ		m_B=6.5	6.0	6.50
			iS	20 34 00.0	0.2		
			SME		m_B=6.1	8.0	8.90
			LN			10.0	3.90
			LZ			24.0	21.2
GYA	29.5	319	−P	20 29 34.8	1.9		
			pP	20 30 02.0	−2.5		
			PP	20 30 35.0	0.6		
			PcP	20 32 35.0	1.2		
			S	20 34 16.0	1.9		
			ScP	20 36 04.0	4.3		
			ScS	20 39 57.0	3.6		
			LN			17.0	7.60
			LE			17.0	13.3
KMI	31.4	313	−P	20 29 49.5	−0.1		
			pP	20 30 25.0	3.6		
			PcP	20 32 39.0	0.3		
			iS	20 34 45.0	0.1		
			ScP	20 36 09.5	3.6		
			ScS	20 40 08.0	5.5		
			LE			16.0	8.50
TIA	32.7	344	+iP	20 30 00.2	−0.9		
			PcP	20 32 44.0	1.6		
			S	20 35 06.0	1.2		
			SMN			15.0	14.5
			SME			15.0	12.6
			ScP	20 36 11.1	0.5		
			SS	20 37 15.0	0.8		
			ScS	20 40 14.0	4.6		
XAN	33.9	331	+iP	20 30 11.3	−0.1		
			PMZ		m_B=6.2	6.0	2.94
			pP	20 30 44.0	0.1		
			sP	20 31 02.0	0.3		
			iS	20 35 23.0	−1.4		
			SMN		m_B=6.6	8.0	13.3
			SME			7.0	15.2
			sS	20 36 16.0	−5.2		

			LN			13.0	14.9
			LE			16.0	25.5
DL2	34.4	351	eP	20 30 15.0	−0.1		
			eS	20 35 28.0	−3.1		
			LN			15.0	16.2
			LE			15.0	38.3
CD2	34.4	322	P	20 30 15.4	0.0		
			sP	20 31 10.0	4.2		
			PP	20 31 41.0	6.0		
			S	20 35 30.0	−0.6		
			SMN	$m_B = 6.4$		8.0	13.1
TIY	35.6	339	+iP	20 30 25.8	0.2		
			PMZ	$m_B = 6.4$		6.0	5.26
			pP	20 30 56.5	−1.9		
			iS	20 35 49.0	−1.1		
			SMN			22.0	28.8
			SME			24.0	27.3
			ScS	20 40 27.0	2.4		
BJI	36.6	345	+iP	20 30 33.0	−0.7		
			PMZ	$m_B = 6.5$		4.0	4.79
			PcP	20 32 55.0	1.5		
			iS	20 36 02.0	−2.9		
			SMN			13.0	6.74
			SME			14.0	10.1
SNY	37.0	355	+iP	20 30 37.0	−0.5		
			PMZ			18.0	10.9
			pP	20 31 12.0	1.5		
			PcP	20 32 54.0	−0.9		
			iS	20 36 08.5	−3.2		
			SMN			27.0	20.2
			SME			26.0	24.1
			SS	20 38 42.0	−6.3		
			ScS	20 40 35.5	3.0		
			LN			30.0	17.7
			LE			23.0	29.2
LZH	38.1	328	+iP	20 30 48.0	1.3		
			PMZ	$m_B = 6.4$		4.0	3.28
			pP	20 31 18.0	−1.7		
			PP	20 32 18.0	−1.0		
			S	20 36 30.0	2.8		
			SMN			15.0	14.1
			SS	20 39 13.0	0.7		
			LN			20.0	12.8
			LE			20.0	6.03
HHC	38.7	340	+iP	20 30 52.0	0.4		
CN2	38.9	357	+iP	20 30 51.5	−1.3		
			PMZ	$m_B = 6.3$		5.0	3.30
			pP	20 31 24.5	−1.5		
			PP	20 32 26.0	−1.9		
			PcP	20 33 01.0	0.4		
			eS	20 36 37.5	−2.0		
			SME			28.0	20.8
			ScP	20 36 34.0	1.2		
			sS	20 37 35.0	−2.5		
			SS	20 39 24.0	−4.4		
			ScS	20 40 42.0	−1.1		
BTO	39.0	338	+iP	20 30 54.0	−0.3		
			PMZ	$m_B = 6.3$		6.0	4.10
			pP	20 31 27.0	−0.4		
			S	20 36 41.5	0.6		
			SMN	$m_B = 6.4$		11.0	7.90
			SME			11.0	6.70
			sS	20 37 43.0	3.1		
			SS	20 39 33.5	1.7		
			LN			19.0	14.5
			LE			14.0	7.10
			LZ			19.0	15.7
MDJ	39.7	2	eP	20 30 58.6	−0.8		
			pP	20 31 32.0	−0.6		
			sP	20 31 46.0	−4.2		
			ScP	20 36 39.0	3.1		
			iS	20 36 48.0	−3.3		
			SME			14.0	10.5
			SS	20 39 40.0	−5.3		
LSA	42.5	310	−P	20 31 23.1	−0.1		
			pP	20 31 58.0	1.7		
			SMN	$m_B = 6.6$		9.0	10.1
			ScS	20 40 58.0	−6.8		
GTA	42.7	328	+iP	20 31 25.2	0.7		
			ScP	20 36 53.0	5.0		
			iS	20 37 37.0	0.5		
			SMN			15.0	19.5
			sS	20 38 30.0	−4.9		
			SS	20 40 50.0	4.6		
			LE			16.0	8.90
WMQ	52.4	324	+iP	20 32 40.0	0.1		
			PMZ			1.5	0.80
			pP	20 33 16.0	1.5		
			S	20 39 56.0	4.3		
			ScS	20 42 09.0	−0.9		
			SS	20 43 30.0	−0.1		
			LE			27.0	45.9
KSH	58.0	314	+iP	20 33 22.0	2.0		
			pP	20 33 58.0	2.8		
			sP	20 34 17.0	4.8		
			iS	20 41 12.0	4.9		
			SMN			20.0	50.9
			LN			32.0	50.6

1987 10 29

O=23 00 27.0 ± 0.05s
LAT=30.84 N ± 0.39km
LONG=111.72 E ± 0.60km
DEPTH= 21 km ± 0.12km
STATIONS USED = 13, STAND DEV= 1.72s
M_L=3.3/13,

WHN	2.3	97	ePg	23 01 09.5	2.0		
			SMN	M_L=3.3		0.5	0.23
			SME			0.5	0.17
XAN	4.0	324	Pn	23 01 26.1	−1.2		
			Pg	23 01 37.0	−0.1		
			Sg	23 02 27.6	−3.9		
			SMN	M_L=3.4		0.6	0.090
			SME			0.6	0.070
GYA	6.2	227	cPn	23 02 00.6	2.3		
			Sn	23 03 06.6	−4.3		
			SMN	M_L=3.5		1.2	0.040
			SME			1.2	0.020
TIY	6.9	5	+iPg	23 02 28.5	−0.3		
			Sg	23 03 58.5	−4.2		
			SMN	M_L=3.5		0.4	0.020
			SME			0.5	0.030

1987 10 30
O=05 42 35.7 ± 0.13s
LAT= 2.46 N ± 2.44km
LONG= 84.74 E ± 2.52km
DEPTH= 11 km ± 0.32km
STATIONS USED = 57, STAND DEV= 1.84s
Ms=4.9/16,

LSA	27.8	12	P	05 48 26.6	−0.9		
KMI	28.4	36	eP	05 48 33.5	0.2		
			sP	05 48 40.0	−1.5		
			S	05 53 14.0	−4.1		
			LZ	Ms=4.9		20.0	2.00
QZN	29.6	54	eP	05 48 44.0	0.7		
			PP	05 49 41.0	2.3		
			S	05 53 37.0	0.7		
			LN	Ms=4.9		16.0	1.10
			LE			16.0	1.00
GYA	31.8	39	P	05 49 03.2	−0.1		
			sP	05 49 09.2	−2.3		
			S	05 54 15.0	3.4		
			LE	Ms=4.7		18.0	0.90
CD2	33.5	30	eP	05 49 16.6	−1.5		
LZH	37.8	26	eP	05 49 53.5	−1.4		
XAN	38.7	33	P	05 50 04.0	2.1		
			S	05 55 57.0	−0.5		
GTA	39.3	19	+P	05 50 05.7	−1.0		
QZH	39.5	53	eP	05 50 08.0	−1.0		
			S	05 56 08.0	−2.5		
			LN	Ms=4.5		14.0	0.32
WHN	39.6	42	eP	05 50 11.5	2.4		
			S	05 56 10.0	−0.8		
			LZ	Ms=4.9		16.0	1.00
WMQ	41.3	3	P	05 50 23.5	0.3		
			sP	05 50 29.5	−2.1		
			S	05 56 35.0	−1.1		
			LN	Ms=5.0		18.0	1.12
TIY	43.3	32	+P	05 50 40.0	−0.1		
			S	05 57 08.5	2.2		
			LE	Ms=5.2		19.0	1.66
			LZ	Ms=5.0		21.0	1.25
NJ2	43.5	44	eP	05 50 43.2	1.5		
			LN	Ms=5.0		18.0	1.20
BTO	44.3	28	eP	05 50 46.6	−1.6		
			csP	05 50 53.5	−3.0		
			eS	05 57 17.0	−5.0		
			LN	Ms=5.2		18.0	1.00
			LE			18.0	1.30
SSE	44.7	46	eP	05 50 48.0	−2.8		
			ePcS	05 56 20.0	−5.3		
			S	05 57 23.0	−2.8		
			sS	05 57 38.0	1.8		
			LZ	Ms=4.9		20.0	0.94
HHC	45.2	29	eP	05 50 55.2	−0.4		
BJI	47.0	33	eP	05 51 08.0	−1.5		
			eS	05 57 54.0	−6.5		
			LN	Ms=4.8		22.0	0.50
			LE			22.0	0.63
SNY	52.4	36	eP	05 51 56.0	5.0		
			S	05 59 12.0	−2.6		
			sS	05 59 27.0	1.8		
			LN	Ms=5.1		16.0	0.93
			LZ	Ms=5.1		16.0	0.82
CN2	54.7	35	eP	05 52 11.0	3.1		
			eS	05 59 47.0	0.2		
			LZ	Ms=4.9		20.0	0.60

1987 10 30
O=14 55 43.7 ± 0.10s
LAT=15.58 S ± 1.62km
LONG=173.18 W ± 1.54km
DEPTH= 33 km ± 0.35km
STATIONS USED = 44, STAND DEV= 1.32s
Ms=5.3/12,

MDJ	79.3	322	+P	15 07 48.3	−0.1		
			eS	15 17 48.0	2.4		
			LZ	Ms=5.9		20.0	3.83
CN2	81.4	320	+P	15 07 59.0	−0.4		

			eS	15 18 08.0	0.8		
			LZ	Ms=5.3		20.0	0.90
SNY	81.6	318	+iP	15 08 00.0	−0.4		
			eS	15 18 16.0	6.9		
			LE	Ms=5.0		28.0	0.61
WHN	83.4	304	eP	15 08 11.0	1.3		
TIA	83.5	310	eP	15 08 10.0	−0.3		
			eS	15 18 32.0	3.2		
			LE	Ms=5.0		25.0	0.51
			LZ	Ms=5.2		25.0	0.87
BJI	85.7	313	eP	15 08 22.0	0.4		
			eS	15 18 50.0	−1.0		
			LN	Ms=5.1		24.0	0.58
			LZ	Ms=5.3		24.0	0.84
TIY	87.5	310	P	15 08 31.0	0.6		
			S	15 19 12.0	5.6		
			LZ	Ms=5.4		26.0	1.10
GYA	88.3	298	P	15 08 35.4	1.2		
XAN	88.9	306	P	15 08 37.4	0.4		
HHC	89.3	313	eP	15 08 39.3	0.4		
BTO	90.3	312	P	15 08 44.0	0.3		
			ePP	15 12 19.5	0.5		
			eSKS	15 19 15.0	5.9		
			S	15 19 37.0	4.9		

1987 10 31

O=00 49 33.5 ± 0.08s
LAT= 5.52 S ± 0.68km
LONG=147.17 E ± 0.97km
DEPTH=176 km ± 0.83km
STATIONS USED = 55, STAND DEV= 1.00s

SSE	44.1	327	+iP	00 57 27.2	1.2		
			PMZ			1.0	0.040
QZN	44.1	305	eP	00 57 27.5	1.1		
NJ2	46.1	326	+P	00 57 43.0	1.1		
WHN	47.7	321	P	00 57 56.0	1.7		
			pP	00 58 38.0	5.0		
GYA	50.5	311	P	00 58 16.6	0.5		
			pP	00 58 55.4	0.4		
XAN	53.4	320	P	00 58 37.6	−0.2		
			pP	00 59 16.6	−0.6		
BJI	53.6	331	eP	00 58 37.0	−1.8		
TIY	53.8	326	eP	00 58 40.6	0.0		
CD2	55.1	314	eP	00 58 48.8	−1.0		
LZH	58.0	319	eP	00 59 10.0	−0.4		
			PMZ			1.5	0.040
GTA	62.5	320	−P	00 59 40.8	−0.3		
WMQ	72.5	319	P	01 00 44.2	0.5		

1987 10 31

O=08 52 30.7 ± 0.25s
LAT= 6.93 S ± 2.69km
LONG= 80.44 W ± 3.88km
DEPTH= 27 km ± 1.60km
STATIONS USED = 60, STAND DEV= 2.17s
Ms=5.9/18,

MDJ	134.2	330	ePKP	09 11 42.0	−5.4		
			PP	09 14 19.0	−3.0		
			LZ	Ms=5.9		25.0	1.90
CN2	136.8	332	ePKP	09 11 47.5	−4.6		
			ePP	09 14 31.0	−6.3		
			LZ	Ms=5.7		22.0	1.10
WMQ	141.8	14	PKP	09 12 02.1	0.9		
			PP	09 15 04.0	−4.3		
			LZ	Ms=5.9		32.0	2.07
BJI	143.8	338	ePKP	09 12 00.0	−4.4		
			PP	09 15 16.0	−4.3		
			eSS	09 33 56.0	−2.8		
HHC	144.6	344	ePKP	09 12 03.8	−2.1		
BTO	145.2	346	+PKP	09 12 05.5	−1.6		
			pPKP	09 12 15.0	0.4		
			PP	09 15 26.0	−2.6		
			LN	Ms=5.9		19.0	0.80
			LE			19.0	0.90
TIA	146.7	334	ePKP	09 12 09.2	−0.3		
			ePP	09 15 37.0	−0.7		
			eSS	09 34 32.0	0.3		
			LE	Ms=5.4		40.0	0.81
TIY	147.2	341	+PKP	09 12 10.0	−0.4		
			PP	09 15 45.0	4.4		
			SS	09 34 35.0	−2.3		
			LE	Ms=5.7		20.0	0.97
			LZ	Ms=5.9		26.0	1.69
GTA	147.7	360	PKP	09 12 12.2	1.0		
			PP	09 15 38.0	−5.5		
			eSS	09 34 36.0	−6.3		
			LN	Ms=5.9		30.0	1.12
			LE			20.0	1.14
			LZ	Ms=5.9		30.0	1.94
SSE	148.6	323	PKP	09 12 12.1	−0.4		
			PKP_2	09 12 20.0			
			ePP	09 15 44.0	−4.2		
			eSS	09 34 50.0	−2.3		
			LZ	Ms=5.9		20.0	1.40
NJ2	149.2	327	+PKP	09 12 16.0	2.5		
LZH	150.7	353	ePKP	09 12 18.0	1.9		
XAN	151.7	343	PKP	09 12 17.4	0.0		
WHN	152.7	331	ePKP	09 12 16.0	−2.8		
			LZ	Ms=5.9		20.0	1.40
CD2	155.8	351	ePKP	09 12 25.2	2.2		

GZH	159.2	322	cPKP	09 12 28.0	0.7		
GYA	159.4	342	PKP	09 12 28.0	0.2		
			pPKP	09 12 38.0	2.6		
			PKP_2	09 13 06.0			
			PP	09 16 48.0	−0.6		
			LE	Ms=5.9		20.0	1.40
KMI	161.7	351	+PKP	09 12 31.0	0.9		
			pPKP	09 12 41.0	3.3		
			PKP_2	09 13 18.0			
			PP	09 17 00.0	−0.7		
			SKKS	09 23 44.0			
			SS	09 37 10.0	−3.3		
			LZ	Ms=5.9		22.0	1.70
QZN	164.4	321	cPKP	09 12 35.0	2.4		
			PP	09 17 13.0	−2.3		
			eSKKS	09 23 56.0			
			LE	Ms=5.8		18.0	1.20

1987 10 31

O=15 55 23.9 ± 0.14s
LAT=28.87 N ± 1.65km
LONG=142.26 E ± 2.95km
DEPTH= 34 km ± 0.38km
STATIONS USED = 26, STAND DEV = 1.98s

MDJ	18.7	331	eP	15 59 41.0	−0.6
CN2	20.1	322	P	16 00 02.0	4.6
NJ2	20.4	285	−P	16 00 00.0	−0.9
WHN	24.3	281	eP	16 00 41.5	2.2
XAN	28.8	289	eP	16 01 20.4	−1.1
GYA	31.5	274	P	16 01 44.8	−0.9
CD2	33.3	283	eP	16 01 59.4	−1.8
WMQ	45.6	304	eP	16 03 43.3	0.1

1987 10 31

O=23 34 24.9 ± 0.08s
LAT=12.15 N ± 1.01km
LONG=144.19 E ± 1.41km
DEPTH= 42 km ± 0.78km
STATIONS USED = 37, STAND DEV= 1.03s
Ms=4.5/ 1,

BJI	37.2	323	eP	23 41 34.0	−0.1		
GYA	38.0	298	P	23 41 42.4	1.1		
TIY	38.1	317	eP	23 41 42.3	0.2		
			LZ	Ms=4.5		20.0	0.50
XAN	38.8	310	P	23 41 46.5	−1.1		
BTO	41.3	320	eP	23 42 09.0	0.7		
CD2	41.7	303	eP	23 42 11.7	−0.1		
GTA	47.6	313	P	23 42 59.5	−0.1		
LSA	52.1	298	P	23 43 32.5	−1.3		
WMQ	57.6	314	P	23 44 14.0	0.0		