

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)	Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
<p>1987 11 1 $O=03\ 06\ 09.2 \pm 0.03\text{s}$ $LAT=41.21\ \text{N} \pm 0.29\text{km}$ $LONG=78.86\ \text{E} \pm 0.25\text{km}$ $DEPTH=7\ \text{km} \pm 0.29\text{km}$ $STATIONS\ USED = 7, \text{ STAND DEV} = 1.91\text{s}$ $M_L=3.2 / 7,$</p>								<p>MDJ 87.5 325 LZ $M_s=5.8$ 30.0 3.35 cP 08 54 49.2 -0.5 PP 08 58 16.0 0.0 WHN 87.7 307 +P 08 54 52.0 1.3 SKS 09 05 08.0 -1.8 LZ $M_s=6.1$ 24.0 5.60 DL2 88.0 317 cP 08 54 53.0 0.8 SNY 88.8 320 +iP 08 54 54.0 -1.9 eS 09 05 36.0 -0.6 LN $M_s=5.8$ 30.0 3.81 LZ $M_s=5.9$ 37.0 4.99 CN2 89.1 323 +P 08 54 55.5 -1.8 PMZ $m_B=6.3$ 4.0 1.00 PP 08 58 22.0 -6.7 SKS 09 05 19.0 0.8 eS 09 05 41.0 1.6 LZ $M_s=5.9$ 24.0 3.30 TIA 89.2 313 cP 08 54 57.8 0.1 cSKS 09 05 19.0 0.2 SMN 27.0 11.5 SME 27.0 12.5 GYA 91.1 300 P 08 55 07.4 0.4 P 08 55 07.0 1.2 SKS 09 05 37.0 6.5 LN $M_s=5.6$ 24.0 1.10 LE 24.0 1.50 BJI 92.1 315 cP 08 55 10.5 -0.6 PMZ 20.0 1.46 cSKS 09 05 38.0 2.3 eS 09 06 08.0 2.1 SME 24.0 1.55 SS 09 12 16.0 -1.7 LN $M_s=5.8$ 32.0 3.87 LZ $M_s=6.0$ 32.0 5.05 TIY 93.1 312 P 08 55 16.0 0.0 SKS 09 05 45.0 3.3 S 09 06 14.5 1.2 LE $M_s=6.3$ 28.0 8.80 LZ $M_s=6.3$ 26.0 8.46 XAN 93.5 307 cP 08 55 17.7 0.0 SKS 09 05 49.5 5.8 S 09 06 22.0 5.4 LN $M_s=6.0$ 21.0 2.12 LE 19.0 2.37 KMI 93.5 297 -P 08 55 19.0 1.1 PMZ $m_B=6.5$ 4.0 0.90 pP 08 55 32.0 -0.6</p>							
<p>1987 11 1 $O=08\ 12\ 56.8 \pm 0.07\text{s}$ $LAT=14.06\ \text{S} \pm 1.26\text{km}$ $LONG=166.28\ \text{E} \pm 1.93\text{km}$ $DEPTH=35\ \text{km} \pm 0.67\text{km}$ $STATIONS\ USED = 22, \text{ STAND DEV} = 1.46\text{s}$</p>								<p>GYA 70.5 305 P 08 24 11.0 0.1 BJI 71.1 322 eP 08 24 13.5 -0.9 TIY 72.1 318 eP 08 24 22.0 1.7 XAN 72.5 313 eP 08 24 23.0 0.2 GTA 81.5 314 P 08 25 14.0 0.9</p>							
<p>1987 11 1 $O=08\ 42\ 06.1 \pm 0.21\text{s}$ $LAT=28.70\ \text{S} \pm 1.50\text{km}$ $LONG=177.44\ \text{W} \pm 2.47\text{km}$ $DEPTH=57\ \text{km} \pm 1.45\text{km}$ $STATIONS\ USED = 84, \text{ STAND DEV} = 1.37\text{s}$ $M_s=6.0 / 34, \quad m_B=6.3 / 3$</p>								<p>QZH 81.4 304 +P 08 54 17.5 -1.6 LE $M_s=5.7$ 22.0 2.45 SSE 83.4 311 P 08 54 28.0 -1.2 SKS 09 04 44.0 3.1 sS 09 05 06.0 -3.8 LN $M_s=6.2$ 23.0 4.38 LE 23.0 6.50 L7 $M_s=6.3$ 22.0 8.24 GZH 84.2 300 +P 08 54 33.5 0.0 LE $M_s=5.8$ 26.0 3.23 QZN 84.7 295 P 08 54 37.3 1.3 S 09 04 55.0 -1.0 eSKS 09 04 53.0 3.0 LE $M_s=5.6$ 18.0 1.40 NJ2 85.5 310 cP 08 54 41.3 1.3</p>							

	SKS	09 05 50.0	6.2		
	LN	Ms=6.0	20.0	1.28	
	LE		20.0	3.47	
HHC	95.4 314	eP	08 55 27.7	1.2	
	LN	Ms=6.2	22.0	3.57	
	LE		24.0	5.00	
	LZ	Ms=5.9	22.0	2.75	
CD2	95.6 302	P	08 55 29.2	1.9	
	SKS	09 06 01.0	5.7		
	LE	Ms=6.0	20.0	2.95	
LZH	98.1 307	eP	08 55 39.9	1.1	
	PMZ		1.5	0.090	
	eSKS	09 06 08.0	-1.0		
	LN	Ms=5.9	21.0	1.36	
	LE		22.0	2.62	
GTA	102.5 308	P	08 55 58.8	0.3	
	SKS	09 06 33.5	3.6		
	LE	Ms=6.0	23.0	3.22	
	LZ	Ms=6.0	24.0	3.31	
KSH	119.8 301	ePKP	09 00 52.0	1.2	
	ePP	09 02 12.0	-5.5		
	eSKS	09 07 58.0	4.1		
	LE	Ms=6.2	20.0	3.80	

1987 11 1
 O = 08 45 07.5 ± 0.10s
 LAT = 20.65 N ± 0.78km
 LONG = 118.95 E ± 2.31km
 DEPTH = 22 km ± 1.58km
 STATIONS USED = 9, STAND DEV = 2.55s
 M_L = 4.1 / 7,

QZH	4.3 356	ePn	08 46 10.5	-1.3	
	SMN	M _L = 4.2	0.4	0.34	
	SME		0.4	0.43	

1987 11 1
 O = 10 30 38.8 ± 0.08s
 LAT = 44.05 N ± 0.97km
 LONG = 87.18 E ± 0.69km
 DEPTH = 27 km ± 0.34km
 STATIONS USED = 8, STAND DEV = 2.13s
 M_L = 3.1 / 5,

WMQ	0.4 122	Pg	10 30 46.7	-1.2	
	Sg		10 30 55.4	0.7	

1987 11 1
 O = 19 03 05.4 ± 0.16s
 LAT = 55.53 S ± 3.64km
 LONG = 27.96 W ± 5.59km
 DEPTH = 28 km ± 0.52km

STATIONS USED = 38, STAND DEV = 2.29s
 Ms = 5.7 / 1,

LZH	142.1 100	ePKP	19 22 35.5	-0.9	
GTA	142.2 93	ePKP	19 22 32.3	-4.1	
XAN	143.4 108	ePKP	19 22 35.5	-2.9	
WHN	143.5 117	ePKP	19 22 35.0	-3.5	
NJ2	147.0 121	-PKP	19 22 46.8	2.3	
SSE	147.3 125	ePKP	19 22 47.5	2.5	
		sPKP	19 23 05.3		
TIY	148.0 107	-PKP	19 22 49.6	3.3	
		LZ	Ms = 5.7	16.0	0.71
BTO	148.7 101	PKP	19 22 50.0	2.5	
TIA	149.4 115	ePKP	19 22 52.6	4.1	
HHC	149.8 102	ePKP	19 22 51.6	2.4	
BJI	151.7 108	ePKP	19 22 55.0	3.0	

1987 11 1
 O = 23 06 39.8 ± 0.19s
 LAT = 16.50 S ± 3.42km
 LONG = 177.49 W ± 4.24km
 DEPTH = 31 km ± 0.65km
 STATIONS USED = 56, STAND DEV = 1.88s
 Ms = 5.7 / 24, m_B = 6.0 / 6

QZH	74.7 302	eP	23 18 17.0	-1.7	
	SMN	m _B = 5.9	10.0	1.10	
	LN	Ms = 5.7	18.0	1.51	
	LE		16.0	1.19	
MDJ	77.5 324	eP	23 18 38.0	2.8	
	LZ	Ms = 5.8	20.0	3.20	
NJ2	77.7 309	eP	23 18 34.5	-1.6	
	LZ	Ms = 5.4	20.0	1.10	
GZH	78.2 298	eP	23 18 43.8	5.0	
	LE	Ms = 5.7	17.0	1.96	
CN2	79.4 322	+P	23 18 44.0	-1.6	
	PMZ	m _B = 5.8	6.0	0.70	
	pP		23 18 54.5	-0.3	
	eS		23 28 42.0	-1.8	
	SMN	m _B = 6.1	8.0	1.10	
	SS		23 33 54.0	1.2	
	LZ	Ms = 5.5	18.0	1.30	
SNY	79.5 319	eP	23 18 44.0	-1.7	
	LN	Ms = 5.8	21.0	2.68	
QZN	79.7 293	eP	23 18 45.6	-1.3	
	SKS		23 28 59.0	3.8	
	LE	Ms = 5.7	20.0	2.20	
WHN	80.5 306	eP	23 18 50.0	-1.1	
	PP		23 21 58.0	2.7	
	SKS		23 29 00.0	-0.9	
	SMN	m _B = 6.2	8.0	1.55	
	LZ	Ms = 5.4	24.0	1.20	



TIA	81.0	312	cP	23 18 57.1	3.4		
			SMN	$m_B = 6.1$	8.0	0.66	
			SME		8.0	0.82	
			LN	$M_s = 5.7$	16.5	1.67	
BJI	83.4	315	cP	23 19 06.0	-0.3		
			SME	$m_B = 5.9$	8.0	0.80	
			SS	23 34 52.0	0.1		
			LN	$M_s = 5.6$	20.0	1.51	
			LZ	$M_s = 5.5$	19.0	1.32	
TIY	85.0	312	cP	23 19 13.0	-1.3		
GYA	85.1	299	P	23 19 15.0	0.0		
			PP	23 22 34.0	1.1		
			LN	$M_s = 5.4$	40.0	1.00	
			LE		40.0	1.50	
XAN	86.1	307	cP	23 19 20.0	0.2		
			S	23 29 54.0	4.6		
			LN	$M_s = 5.7$	14.0	1.36	
HHC	86.9	314	-P	23 19 24.5	0.6		
			LN	$M_s = 6.2$	32.0	8.82	
BTO	87.9	313	cP	23 19 27.6	-0.9		
			cPP	23 22 51.0	-5.1		
			cSKS	23 29 52.5	1.7		
			S	23 30 03.0	-3.3		
			LE	$M_s = 5.7$	19.0	1.80	
			LZ	$M_s = 5.6$	19.0	1.50	
KMI	88.0	297	-P	23 19 30.0	1.0		
			pP	23 19 40.0	1.8		
			SKS	23 29 58.0	6.6		
			cS	23 30 10.0	0.8		
			sS	23 30 25.0	0.7		
			LE	$M_s = 5.9$	20.0	2.90	
CD2	89.0	303	cP	23 19 35.4	1.4		
LZH	90.7	307	-P	23 19 42.5	0.4		
			PMZ		2.5	0.11	
			cP	23 19 43.0	2.2		
			LN	$M_s = 5.7$	46.0	4.23	
GTA	94.8	310	P	23 20 03.8	3.0		
			LN	$M_s = 5.8$	36.0	3.61	
WMQ	104.6	312	cP	23 20 48.3	3.4		
			LN	$M_s = 6.0$	32.0	4.67	

1987 11 2
 O = 05 23 53.6 ± 0.25s
 LAT = 39.70 N ± 1.16km
 LONG = 118.54 E ± 1.01km
 DEPTH = 25 km ± 2.25km
 STATIONS USED = 7, STAND DEV = 4.26s
 $M_L = 3.0 / 9,$

BJI	1.9	281	cPn	05 24 23.0	-1.3		
			Sn	05 24 49.0	0.4		

			SMN	$M_L = 2.4$	0.5	0.030
			SME		0.5	0.040
TIA	3.7	198	Pg	05 24 56.4	-2.0	
			SMN	$M_L = 2.8$	0.6	0.020
			SME		1.0	0.030
TIY	5.2	249	Pg	05 25 29.8	4.6	
			cSg	05 26 33.4	-2.4	
			SMN	$M_L = 3.3$	0.8	0.030

1987 11 2
 O = 11 47 26.0 ± 0.12s
 LAT = 17.78 S ± 2.00km
 LONG = 178.98 W ± 0.56km
 DEPTH = 543 km ± 1.48km
 STATIONS USED = 20, STAND DEV = 1.4s

NJ2	77.4	310	+P	11 58 28.0	0.8	
MDJ	77.8	325	cP	11 58 28.4	-0.6	
CN2	79.6	323	cP	11 58 37.0	-1.6	
WHN	80.1	306	P	11 58 43.0	1.8	
BJI	83.3	316	cP	11 58 57.0	-0.6	
GYA	84.5	300	P	11 59 04.6	1.0	
XAN	85.7	308	P	11 59 08.5	-1.1	
GTA	94.5	310	P	11 59 49.5	-0.9	

1987 11 2
 O = 15 08 35.9 ± 0.82s
 LAT = 35.99 N ± 6.08km
 LONG = 78.55 E ± 5.16km
 DEPTH = 11 km ± 0.91km
 STATIONS USED = 9, STAND DEV = 2.39s
 $M_L = 3.5 / 3,$

KSH	4.0	330	Pn	15 09 41.0	3.0	
			SMN	$M_L = 3.5$	0.2	0.10
			SME		0.2	0.10
WMQ	10.5	39	cP	15 11 10.0	0.0	
			cS	15 13 02.5	-6.5	
			SMN		1.0	0.010

1987 11 2
 O = 21 52 57.7 ± 0.39s
 LAT = 37.27 N ± 3.50km
 LONG = 80.95 E ± 1.85km
 DEPTH = 20 km ± 0.23km
 STATIONS USED = 5, STAND DEV = 4.50s
 $M_L = 3.3 / 3,$

WMQ	8.3	36	cP	21 55 01.0	0.6	
			SMN	$M_L = 3.7$	1.0	0.020

1987 11 3
 O = 00 07 35.9 ± 0.08s

LAT = 28.78 N ± 2.08km
 LONG = 130.84 E ± 2.01km
 DEPTH = 53 km ± 1.44km
 STATIONS USED = 15, STAND DEV = 2.35s

Ms = 4.0 / 1,

CN2	15.6	345	cP	00 11 16.6	2.6		
BJI	16.5	317	cP	00 11 22.0	-3.2		
TIY	17.8	305	cP	00 11 42.6	1.3		
			LZ			Ms = 4.0	20.0 0.50
XAN	19.4	291	P	00 11 57.3	-3.4		
GYA	21.5	270	P	00 12 22.8	-0.1		
CD2	23.6	282	P	00 12 42.2	-0.6		
GTA	27.7	301	cP	00 13 19.0	-2.4		

1987 11 3

O = 01 02 05.5 ± 0.15s
 LAT = 11.81 S ± 5.53km
 LONG = 166.60 E ± 6.04km
 DEPTH = 40 km ± 1.50km
 STATIONS USED = 29, STAND DEV = 0.89s

SSE	61.0	316	+P	01 12 17.3	-0.4		
			PMZ			0.7	0.030
			pP	01 12 26.0	-2.5		
NJ2	63.1	315	+P	01 12 32.0	-0.2		
MDJ	65.4	332	cP	01 12 47.3	0.4		
WHN	65.5	311	P	01 12 47.5	-0.1		
DL2	65.6	323	P	01 12 48.0	0.0		
CN2	66.8	329	+P	01 12 55.6	-0.3		
GYA	69.5	304	P	01 13 13.0	0.0		
BJI	69.6	321	cP	01 13 12.5	-0.7		
TIY	70.7	317	+iP	01 13 20.0	0.1		
XAN	71.2	312	+P	01 13 23.0	-0.3		
KMI	72.2	301	+P	01 13 30.0	0.7		
CD2	73.7	307	P	01 13 37.8	-0.2		
LZH	75.9	312	+P	01 13 51.5	0.9		
			PMZ			2.0	0.10
GTA	80.2	314	+iP	01 14 14.2	-0.1		
WMQ	90.2	315	+iP	01 15 03.0	-1.1		

1987 11 3

O = 02 25 47.7 ± 0.11s
 LAT = 21.64 N ± 1.35km
 LONG = 122.77 E ± 2.44km
 DEPTH = 14 km ± 0.66km
 STATIONS USED = 18, STAND DEV = 2.20s

M_L = 4.0 / 6,

QZH	5.1	311	cPn	02 27 03.5	0.0		
			SMN			M _L = 4.0	0.4 0.19
			SME				0.4 0.14
QZN	12.4	260	cP	02 28 52.4	5.4		

BJI	19.2	344	cP	02 30 15.0	1.1		
CD2	19.4	302	cP	02 30 15.4	-0.6		
CN2	22.2	5	cP	02 30 48.5	2.7		

1987 11 3

O = 08 14 59.6 ± 0.09s
 LAT = 17.20 S ± 1.65km
 LONG = 173.68 W ± 1.58km
 DEPTH = 86 km ± 0.28km
 STATIONS USED = 85, STAND DEV = 1.01s

Ms = 5.8 / 23,

m_B = 6.2 / 26

QZH	78.1	301	+P	08 26 51.0	-0.7		
			PMZ			m _B = 6.1	8.0 2.25
			sP	08 27 26.5	3.0		
			cS	08 36 36.0	-2.2		
			LN			Ms = 5.9	36.0 6.17
SSE	78.8	308	+iP	08 26 55.0	-0.5		
			PMZ			m _B = 6.1	6.0 1.73
			pP	08 27 19.5	1.9		
			sP	08 27 29.0	1.7		
			cS	08 36 44.0	-1.6		
			SKS	08 36 54.0	-2.8		
			sS	08 37 28.0	4.2		
			SS	08 41 50.0	-2.9		
			LN			Ms = 6.2	36.0 7.25
			LE				38.0 12.2
			LZ			Ms = 6.2	34.0 12.9
MDJ	80.3	323	+iP	08 27 02.9	-0.5		
			PMZ			m _B = 6.5	4.0 2.70
			sP	08 27 36.0	0.9		
			iS	08 37 03.0	2.0		
			sS	08 37 42.0	2.9		
			LZ			Ms = 6.2	40.0 14.2
NJ2	81.0	307	+P	08 27 07.0	-0.4		
			sP	08 27 41.0	1.9		
			S	08 37 13.0	5.9		
			LZ			Ms = 5.5	24.0 1.63
GZH	81.8	297	+iP	08 27 12.0	0.8		
			PMZ			m _B = 6.2	6.0 2.32
			sP	08 27 41.0	-2.0		
			SME			m _B = 6.1	10.0 1.42
			LE			Ms = 5.7	45.0 5.15
			LZ			Ms = 6.0	41.0 7.78
DL2	82.2	315	+iP	08 27 14.0	0.3		
			PMZ			m _B = 6.4	6.0 3.33
			sP	08 27 49.0	3.5		
			S	08 37 24.0	4.6		
CN2	82.3	320	+iP	08 27 13.0	-0.9		
			PMZ			m _B = 6.3	6.0 2.60
			pP	08 27 38.0	1.9		



		LZ		Ms=4.9	20.0	0.50
KMI	65.4	303	+P	23 20 09.0	0.6	
HHC	66.6	322	cP	23 20 16.4	0.0	
CD2	67.0	309	P	23 20 18.5	0.1	
BTO	67.5	321	+P	23 20 22.0	0.5	
LZH	69.3	314	+P	23 20 33.5	0.7	
		PMZ			2.0	0.12
GTA	73.6	315	+iP	23 20 59.4	0.6	
LSA	76.6	303	cP	23 21 15.4	-0.8	
WMQ	83.7	316	+P	23 21 54.0	0.5	
KSH	91.1	310	P	23 22 32.0	2.5	

1987 11 4

O=01 12 06.7 ± 0.07s

LAT= 1.51 S ± 1.00km

LONG=136.85 E ± 1.72km

DEPTH= 36 km ± 0.51km

STATIONS USED = 15, STAND DEV = 1.55s

Ms=4.7/ 1,

GYA	40.3	316	P	01 19 45.0	2.5	
KMI	42.3	311	-P	01 20 00.0	0.3	
XAN	44.0	326	P	01 20 14.3	0.9	
CD2	45.1	318	cP	01 20 21.4	-0.1	
TIY	45.1	332	cP	01 20 22.5	0.7	
		LZ		Ms=4.7	26.0	0.70
BJI	45.5	338	P	01 20 21.0	-3.7	
GTA	53.0	324	P	01 21 21.8	-1.2	

1987 11 4

O=23 07 58.2 ± 0.10s

LAT= 6.56 S ± 0.78km

LONG=130.06 E ± 1.29km

DEPTH=164 km ± 1.06km

STATIONS USED = 27, STAND DEV = 1.49s

WHN	39.8	339	cP	23 15 19.0	1.4	
GYA	39.9	326	P	23 15 20.0	1.8	
XAN	45.1	335	cP	23 16 00.0	0.0	
TIY	47.0	341	cP	23 16 17.8	2.5	
BJI	48.1	346	cP	23 16 22.0	-1.7	
LSA	51.9	316	+iP	23 16 52.5	-0.7	
GTA	53.6	331	P	23 17 05.7	0.3	
WMQ	63.1	327	cP	23 18 11.3	0.4	

1987 11 5

O=03 19 51.4 ± 0.11s

LAT=56.01 S ± 2.56km

LONG= 27.43 W ± 2.91km

DEPTH=135 km ± 0.64km

STATIONS USED = 28, STAND DEV = 1.95s

GTA	141.9	93	cPKP	03 39 03.4	-5.0	
-----	-------	----	------	------------	------	--

XAN	143.0	108	cPKP	03 39 06.0	-4.2	
NJ2	146.5	121	+PKP	03 39 18.0	1.8	
SSE	146.8	125	cPKP	03 39 18.0	1.4	
TIY	147.6	107	PKP	03 39 20.6	2.4	
TIA	148.9	115	cPKP	03 39 24.0	3.8	

1987 11 5

O=04 10 34.6 ± 0.12s

LAT=42.30 N ± 1.08km

LONG=126.30 E ± 1.17km

DEPTH= 10 km ± 0.27km

STATIONS USED = 7, STAND DEV = 3.46s

Ms=3.3/ 7,

CN2	1.6	338	Pn	04 11 00.6	-3.2	
			iPg	04 11 03.4	0.0	
			Sn	04 11 21.5	-5.2	
			Sg	04 11 24.0	-1.7	
			SMN	M _L =3.5	0.4	0.64
			SME		0.4	0.43
SNY	2.1	258	+iPg	04 11 10.6	-0.9	
			Sg	04 11 37.0	-3.0	
			SMN	M _L =3.3	0.5	0.22
			SME		0.5	0.21
MDJ	3.3	45	cPg	04 11 35.8	2.3	
			Sg	04 12 19.7	0.7	
			SMN	M _L =3.3	0.4	0.10

1987 11 5

O=06 00 43.3 ± 0.02s

LAT=40.44 N ± 0.13km

LONG=121.98 E ± 0.13km

DEPTH= 12 km ± 0.09km

STATIONS USED = 9, STAND DEV = 1.09s

Ms=3.3/ 10,

DL2	1.6	190	+Pg	06 01 10.8	-0.1	
			Sg	06 01 29.7	-2.5	
			SMN	M _L =3.3	0.4	0.35
			SME		0.4	0.46
SNY	1.8	40	+iPg	06 01 16.2	0.3	
			Sg	06 01 39.8	-1.2	
			SMN	M _L =3.4	0.4	0.49
			SME		0.4	0.27
CN2	4.2	36	cPg	06 01 58.0	-0.2	
			Sg	06 02 54.4	-1.6	
			SMN	M _L =3.2	0.8	0.040
			SME		0.8	0.040

1987 11 5

O=09 12 31.7 ± 0.08s

LAT=14.87 S ± 1.52km

LONG = 167.32 E + 1.48km						cS		19 18 14.0	5.9						
DEPTH = 151 km ± 0.65km						LN		Ms = 5.2		29.0	1.22				
STATIONS USED = 34, STAND DFV = 1.36s						LE				26.0	1.18				
NJ2	65.8	316	+P	09 23 04.0	0.5	LZ		Ms = 5.1		30.0	1.60				
			LZ			24.0	0.46	MDJ	53.6	340	cP	19 10 41.3	0.9		
WHN	68.1	312	P	09 23 18.0	0.3	LZ		Ms = 5.5		20.0	2.40				
MDJ	68.4	332	cP	09 23 20.0	0.1	GYA		54.0	308	-P	19 10 44.0	1.0			
CN2	69.8	329	cP	09 23 27.0	-1.2	CN2		54.4	337	cP	19 10 48.0	1.7			
GYA	71.8	305	P	09 23 40.4	-0.2	cpP				19 11 00.0	1.0				
BJI	72.4	321	cP	09 23 43.5	-0.3	LZ		Ms = 5.2		20.0	1.20				
TIY	73.4	317	cP	09 23 49.6	-0.1	BJI		55.9	327	cP	19 10 54.0	-2.5			
			pP	09 24 24.0	-1.7	eS				19 18 36.0	-2.4				
			eS	09 33 12.0	6.4	LN		Ms = 5.2		23.0	1.39				
			LZ			36.0	0.91	LZ	Ms = 5.3	22.0	1.88				
XAN	73.8	313	P	09 23 52.0	-0.2	XAN		56.4	317	P	19 10 59.3	-1.1			
KMI	74.4	302	-P	09 23 57.0	1.2	TIY		56.4	323	+P	19 10 59.6	-0.9			
CD2	76.1	308	cP	09 24 06.2	0.9	KMI		56.5	305	+P	19 11 02.0	0.5			
LZH	78.4	312	cP	09 24 19.5	1.2	pP				19 11 12.0	-2.0				
GTA	82.8	314	-P	09 24 41.8	0.5	eS				19 18 53.0	5.4				
WMQ	92.8	315	P	09 25 29.4	0.0	sS				19 19 11.0	2.1				
1987 11 5						CD2		58.4	311	+iP	19 11 14.2	-0.3			
O = 14 40 53.0 ± 0.03s						LZ		Ms = 5.6		20.0	3.23				
LAT = 40.17 N ± 0.30km						HHC		59.0	325	P	19 11 18.0	-0.6			
LONG = 117.21 E ± 0.27km						LN		Ms = 5.3		18.0	0.98				
DEPTH = 10 km ± 0.00km						LE				18.0	0.94				
STATIONS USED = 7, STAND DEV = 1.02s						BTO		59.7	324	cP	19 11 21.8	-1.8			
M _L = 2.4 / 8,						ePP				19 13 34.0	-2.3				
1987 11 5						eS				19 19 29.0	0.0				
O = 19 01 21.1 ± 0.10s						SS				19 23 24.5	-0.4				
LAT = 5.40 S ± 1.21km						LE		Ms = 5.2		19.0	1.00				
LONG = 151.82 E ± 1.53km						LZ		Ms = 5.4		19.0	1.80				
DEPTH = 50 km ± 0.42km						LZH		61.0	317	+iP	19 11 32.0	-0.5			
STATIONS USED = 57, STAND DEV = 1.28s						PM7					2.0	0.10			
Ms = 5.3 / 22,						LN		Ms = 5.1		16.0	0.76				
SSE	46.6	323	cP	19 09 46.0	-0.7	GTA		65.4	318	+P	19 12 01.5	-0.3			
			sP	19 10 02.7	-1.8	LE		Ms = 5.2		21.0	0.95				
			PP	19 11 42.0	6.3	LZ		Ms = 5.1		22.0	0.78				
			LN			Ms = 5.3		LSA	67.8	305	+P	19 12 16.0	-0.9		
			LZ			Ms = 5.5		20.0	3.46	WMQ	75.5	318	+P	19 13 02.5	-0.3
NJ2	48.7	322	cP	19 10 03.5	0.5	eS				19 22 41.0	2.5				
			LN			Ms = 5.3		22.0	1.36	LN	Ms = 5.5	22.0	1.36		
			LZ			Ms = 5.2		20.0	1.53	LE		20.0	0.83		
WHN	50.6	317	P	19 10 19.5	1.8	KSH		82.6	311	cP	19 13 41.5	0.3			
			LZ			Ms = 5.3		20.0	2.02	1987-11 5					
TIA	52.6	325	P	19 10 32.7	-0.1	LN		Ms = 5.5		21.0	2.10				
			LE			21.0	2.20	O = 22 47 37.7 ± 0.07s		LAT = 6.00 S ± 1.43km					
SNY	53.6	334	+P	19 10 38.0	-2.0	LONG = 105.51 E ± 2.06km		DEPTH = 33 km ± 0.27km							

STATIONS USED = 26, STAND DEV = 1.79s

Ms=4.9 / 3,

QZN	25.2	10	cP	22 53 05.0	2.5		
			eS	22 57 28.0	4.5		
			LN	Ms=5.0	10.0	1.00	
			LE		10.0	1.30	
GYA	32.3	2	P	22 54 07.2	1.1		
CD2	36.7	357	cP	22 54 42.0	-2.2		
LSA	38.1	340	cP	22 54 54.6	-1.3		
XAN	39.9	4	cP	22 55 10.0	-1.0		
TIY	44.0	8	+P	22 55 40.7	-3.3		
			eS	23 02 12.5	-0.9		
			LE	Ms=4.9	11.0	0.49	
GTA	45.5	354	P	22 55 57.9	1.6		
			LE	Ms=4.8	20.0	0.68	
BJI	46.9	11	cP	22 56 08.0	1.2		
WMQ	52.1	344	cP	22 56 44.5	-3.0		
CN2	52.7	18	cP	22 56 52.0	0.0		
MDJ	54.8	21	cP	22 57 08.0	0.5		

1987 11 5

O=22 55 57.8 ± 0.15s

LAT=23.07 N ± 1.82km

LONG=120.53 E ± 1.54km

DEPTH= 7 km ± 0.45km

STATIONS USED = 24, STAND DEV = 2.22s

Ms=3.8 / 2, M_L=4.0 / 11,

QZH	2.6	317	cPn	22 56 39.5	-0.7		
			Pg	22 56 46.0	2.8		
			Sn	22 57 08.5	-5.2		
			SMN	M _L =4.0	0.6	0.79	
			SME		0.6	0.78	
GZH	6.6	272	cP	22 57 36.5	-1.6		
			eS	22 58 48.0	-6.4		
			SMN	M _L =4.4	1.0	0.30	
			SME		1.0	0.13	
SSE	8.0	4	cP	22 58 00.0	2.3		
			LN	Ms=3.6	10.0	0.44	
NJ2	9.1	351	cP	22 58 13.0	0.7		
			eS	23 00 01.4	5.7		
			LN		1.0	0.16	
QZN	10.8	250	cP	22 58 36.6	1.0		
GYA	13.0	288	P	22 59 11.4	4.7		
CD2	16.9	301	cP	22 59 58.4	2.2		
GTA	24.0	318	cP	23 01 16.5	2.2		

1987 11 6

O=00 14 01.4 ± 0.13s

LAT=19.77 N ± 1.77km

LONG=121.82 E ± 2.19km

DEPTH= 36 km ± 1.50km

STATIONS USED = 43, STAND DEV = 2.15s

Ms=4.3 / 10, M_L=4.0 / 3,

QZH	5.9	330	cP	00 15 26.0	-3.4		
			LN	Ms=3.8	10.0	1.01	
QZN	11.3	268	cP	00 16 42.4	-1.6		
			eS	00 18 43.5	-6.7		
			LN	Ms=4.2	15.0	1.30	
WHN	12.7	329	cP	00 17 08.0	5.9		
			sP	00 17 18.0	3.5		
			LN	Ms=4.1	14.0	0.80	
GYA	15.4	298	P	00 17 38.4	-0.2		
			pP	00 17 45.0	-1.0		
XAN	18.3	324	cP	00 18 13.7	-0.3		
			sP	00 18 23.9	-2.7		
			LN	Ms=4.2	12.0	0.51	
KMI	18.4	290	cP	00 18 19.0	2.9		
			pP	00 18 25.0	1.2		
			eS	00 21 42.0	4.7		
			LN	Ms=4.9	14.0	2.65	
TIY	19.7	337	+P	00 18 30.3	-0.1		
			LE	Ms=4.5	14.0	0.91	
CD2	19.7	308	cP	00 18 30.0	-0.8		
			LE	Ms=4.5	11.0	0.77	
BJI	20.8	348	cP	00 18 41.0	-1.1		
HHC	22.8	340	cP	00 19 02.8	0.7		
BTO	23.1	337	cP	00 19 05.0	-0.3		
			csP	00 19 17.0	-1.7		
			PP	00 19 35.0	-0.2		
			eS	00 23 10.0	0.0		
			LN	Ms=4.7	12.0	0.60	
			LE		13.0	0.90	
			LZ	Ms=4.4	12.0	0.50	
MDJ	25.6	13	cP	00 19 27.0	-2.5		
GTA	27.2	321	cP	00 19 44.0	-0.7		
WMQ	37.2	318	cP	00 21 10.0	-1.7		

1987 11 6

O=04 15 21.3 ± 0.07s

LAT=43.92 N ± 0.80km

LONG= 88.04 E ± 0.68km

DEPTH= 7 km ± 0.33km

STATIONS USED = 6, STAND DEV = 3.36s

M_L=3.3 / 5,

WMQ	0.3	246	Pg	04 15 26.1	-0.2		
			Sg	04 15 30.7	0.8		

1987 11 6

O=07 56 51.2 ± 0.07s

LAT=45.41 N ± 1.97km

November, 1987



LONG = 150.17 E ± 1.67km
 DEPTH = 61 km ± 0.46km
 STATIONS USED = 22, STAND DEV = 1.21s

CN2	17.7	274	cP	08 00 55.0	0.2
NJ2	27.6	252	+P	08 02 39.0	3.5
WHN	31.6	254	-iP	08 03 11.2	0.4
XAN	33.4	265	+P	08 03 24.9	-1.2
GTA	37.2	279	-P	08 03 58.4	-0.1
CD2	38.7	264	cP	08 04 11.2	-0.2
GYA	39.4	256	P	08 04 16.4	-0.9

1987 11 6

O = 15 07 47.4 ± 0.08s
 LAT = 6.86 N ± 1.10km
 LONG = 134.59 E ± 1.92km
 DEPTH = 36 km ± 0.49km

STATIONS USED = 26, STAND DEV = 1.37s

NJ2	29.0	332	+P	15 13 46.4	-0.3
XAN	36.0	322	cP	15 14 46.0	-1.2
BJI	36.9	336	cP	15 14 54.0	-1.2
CD2	37.5	314	cP	15 15 00.0	0.0
CN2	37.7	349	cP	15 15 00.0	-1.3
MDJ	37.9	354	cP	15 15 03.5	0.5
LZH	40.5	320	cP	15 15 25.0	0.2

PMZ 1.5 0.040

GTA	45.0	321	+P	15 16 01.4	-0.5
WMQ	55.0	320	-P	15 17 18.2	-0.2

1987 11 6

O = 16 08 05.7 ± 0.61s
 LAT = 37.55 N ± 1.95km
 LONG = 74.70 E ± 5.98km
 DEPTH = 15 km

STATIONS USED = 14, STAND DEV = 2.57s

M_L = 4.3 / 4,

KSH	2.2	27	+Pg	16 08 47.0	3.0
			Sn	16 09 16.0	6.1
			Sg	16 09 18.0	4.7
			SMN	M _L = 4.3	0.2 1.70
			SME		0.5 3.00
WMQ	11.7	54	P	16 10 54.5	-0.9
GTA	19.7	77	P	16 12 37.5	-0.7

1987 11 6

O = 16 09 28.7 ± 0.20s
 LAT = 37.47 N ± 1.30km
 LONG = 74.87 E ± 2.55km
 DEPTH = 32 km ± 0.13km

STATIONS USED = 13, STAND DEV = 2.49s

M_L = 4.8 / 2,

KSH	2.2	23	Pn	16 10 06.0	2.7
			Sn	16 10 35.0	4.6
			LE		4.0 9.00
WMQ	11.6	53	P	16 12 14.2	-1.5
			SMN		1.5 0.090
GTA	19.6	77	P	16 13 57.0	-0.8
LZH	23.2	85	cP	16 14 37.0	2.6

1987 11 6

O = 18 34 22.5 ± 0.09s
 LAT = 22.73 S ± 1.94km
 LONG = 63.57 W ± 2.17km
 DEPTH = 526 km ± 1.08km

STATIONS USED = 37, STAND DEV = 1.40s

KSH	141.9	55	cPKP	18 52 58.0	2.5
WMQ	148.3	42	cPKP	18 53 07.0	0.8
GTA	158.2	37	PKP	18 53 20.0	-0.1
BTO	161.4	15	PKP ₂	18 54 11.0	-1.5
HHC	161.5	12	cPKP	18 53 25.0	1.4
LZH	162.8	37	cPKP ₂	18 54 19.0	-1.5
TIY	164.7	12	cPKP	18 53 27.4	0.7
XAN	166.9	29	+PKP	18 53 29.3	0.8
			SKKS	19 04 20.8	
GYA	170.4	65	PKP	18 53 31.6	0.9

1987 11 6

O = 18 47 35.2 ± 0.06s
 LAT = 22.66 S ± 2.92km
 LONG = 63.46 W ± 3.23km
 DEPTH = 535 km ± 0.48km

STATIONS USED = 71, STAND DEV = 1.28s

m_B = 5.8 / 2

KSH	141.8	54	+PKP	19 06 02.0	-5.1
			sPKP	19 08 53.0	
WMQ	148.2	42	-PKP	19 06 18.4	0.5
			pPKP	19 08 28.0	5.1
			sPKP	19 09 17.0	
			PP	19 09 56.0	-2.2
			PPMZ		2.0 0.20
			SKKS	19 15 52.0	
MDJ	155.6	337	cPKP	19 06 28.6	0.1
LSA	156.2	68	-PKP	19 06 30.0	0.3
			iPKP ₂	19 07 02.0	
			PP	19 10 46.0	3.8
			SKKS	19 16 37.0	
			SME		7.0 0.94
CN2	157.7	343	PKP	19 06 34.0	2.8
GTA	158.1	37	-iPKP	19 06 32.0	0.2
			PKP ₂	19 07 10.0	
			PP	19 10 51.0	-1.3

		Pg	20 56 05.5	5.0			LN	Ms=4.5	15.0	0.80
		SMN		6.0	0.16	HHC	25.7 276	cP	22 32 39.8	0.9
		SME		6.0	0.18			+P	22 32 39.8	1.5
								pP	22 32 50.0	-2.4
1987 11 6								LN	Ms=4.6	15.0 0.41
	O=22 27 11.8		± 0.05s					LE		15.0 0.84
	LAT=43.49 N		± 1.44km			TIY	26.2 269	cP	22 32 43.4	0.2
	LONG=146.26 E		± 0.93km					pP	22 32 57.0	0.3
	DEPTH= 60 km		± 0.69km					sP	22 33 02.5	-0.8
	STATIONS USED = 85,		STAND DEV = 0.10s					SMN	m _B =5.6	7.5 0.67
	Ms=4.7/22,		m _B =5.6/8					SME		8.0 1.20
MDJ	12.0 281	-P	22 30 04.0	0.9				LZ	Ms=4.8	26.0 2.12
		pP	22 30 13.0	0.4		BTO	26.9 276	+P	22 32 48.5	-1.5
		PP	22 30 15.0	1.7				sP	22 33 05.0	-5.0
		sP	22 30 22.5	1.9				cPP	22 33 34.0	-2.1
		iS	22 32 20.0	4.2				SS	22 38 35.0	-1.3
		LZ	Ms=4.9	20.0	8.80			LN	Ms=4.8	13.0 0.70
CN2	15.1 278	+P	22 30 41.0	-1.8				LE		13.0 0.80
		pP	22 30 51.0	-1.9				LZ	Ms=4.8	13.0 1.00
		cS	22 33 27.0	-0.7		WHN	28.4 254	+P	22 33 03.0	0.0
		LZ	Ms=4.8	20.0	4.20			LZ	Ms=4.7	24.0 1.50
SNY	16.8 272	+iP	22 31 03.0	-1.2		QZH	29.2 240	+P	22 33 10.0	-0.4
		PP	22 31 17.0	-1.4				sP	22 33 29.0	-1.7
		cS	22 34 00.0	-6.7				cS	22 37 58.0	1.0
		LE	Ms=4.6	28.0	3.49			sS	22 38 22.0	0.7
		LZ	Ms=4.7	30.0	4.56			LN	Ms=4.7	20.0 1.12
DL2	19.1 265	+P	22 31 31.0	-1.3		XAN	30.4 265	P	22 33 20.8	-0.1
		S	22 35 00.0	2.1		LZH	33.1 272	+P	22 33 45.0	-0.1
BJI	22.6 272	cP	22 32 08.0	-1.0				PMZ		2.0 0.11
		pP	22 32 20.0	-2.3				LE	Ms=4.6	20.0 0.75
		cS	22 36 12.0	4.2		GZH	33.9 244	P	22 33 52.5	1.1
		SMN	m _B =5.5	10.0	0.55	GTA	34.7 280	P	22 33 58.0	-0.5
		SME		8.0	1.02			PcP	22 36 33.0	2.5
		LE	Ms=4.5	30.0	1.84			cS	22 39 25.0	1.9
		LZ	Ms=4.4	32.0	1.55			ScP	22 40 12.9	3.8
SSE	23.4 246	+P	22 32 18.0	1.9				ScS	22 44 15.0	4.1
		PMZ	m _B =5.7	5.0	1.83			LE	Ms=4.8	20.0 1.24
		pP	22 32 30.0	0.4				LZ	Ms=4.9	20.0 1.25
		esP	22 32 37.0	0.9		CD2	35.7 264	cP	22 34 07.0	-0.2
		esS	22 36 45.0	1.2		GYA	36.2 255	P	22 34 11.0	-0.5
		LN	Ms=4.4	10.0	0.44			sP	22 34 31.0	-0.8
		LZ	Ms=4.8	16.0	1.69	KMI	39.8 257	+P	22 34 42.0	0.4
TIA	23.4 262	+P	22 32 16.8	0.0				PMZ	m _B =5.8	4.0 0.67
		PMZ	m _B =5.4	6.0	1.10			pP	22 34 51.5	-4.1
		SMN	m _B =5.7	8.0	1.25			sP	22 34 57.0	-5.1
		SME		8.0	1.18			PP	22 36 20.5	3.3
		LE	Ms=4.4	11.0	0.46			cS	22 40 46.0	4.5
NJ2	24.4 251	+P	22 32 27.1	1.3				LZ	Ms=4.9	24.0 1.22
		PMZ	m _B =5.6	4.0	1.03	WMQ	41.6 291	+P	22 34 56.5	0.6
		pP	22 32 40.0	0.6				sP	22 35 13.4	-3.2

			PMZ		3.0	7.25	TIA	31.6	345	P	16 30 11.7	-1.2		
			pP	16 29 03.0		4.0				pP	16 30 36.0	3.0		
			iS	16 32 32.0		2.8				PcP	16 33 03.9	1.1		
			SMN		$m_B = 6.9$	8.0	19.8			SMN		$m_B = 6.5$	8.0	11.2
			SME			8.0	12.2			SME			10.0	7.71
			PcP	16 32 40.0		0.4				sS	16 35 52.5	2.9		
			LN		$M_s = 5.6$	12.0	4.91			LN		$M_s = 5.4$	10.5	2.77
			LE			10.0	7.86	XAN	32.7	332	+iP	16 30 21.6	-0.8	
SSE	25.8	349	P	16 29 20.0		-0.5				PMZ			3.0	2.10
			PMZ		$m_B = 6.2$	6.0	3.89			pP	16 30 41.0	-1.5		
			pP	16 29 42.0		1.9				PP	16 31 30.0	-3.8		
			sP	16 29 51.0		-0.2				iPcP	16 33 07.5	1.8		
			cPcP	16 32 46.0		-2.3				S	16 35 28.0	-2.4		
			SMN		$m_B = 6.7$	8.0	16.3			SMN		$m_B = 5.9$	11.0	3.46
			SME			8.0	7.20			ScP	16 36 40.0	-0.3		
			sS	16 34 17.0		1.6				ScS	16 40 44.0	5.3		
			cPcS	16 36 21.0		-3.7				LN		$M_s = 5.3$	14.0	2.74
			ScS	16 40 05.0		-1.3		CD2	33.1	322	+P	16 30 25.0	-1.0	
			LZ		$M_s = 5.5$	20.0	8.41			pP	16 30 46.0	-0.2		
NJ2	27.2	345	+P	16 29 34.5		0.6				PP	16 31 35.5	-3.5		
			sP	16 30 04.5		-0.1		DL2	33.3	353	-P	16 30 28.0	0.0	
			S	16 34 07.0		3.0				sP	16 31 00.0	0.8		
			SMN		$m_B = 6.3$	10.0	8.50			cS	16 35 44.0	2.5		
WHN	27.3	336	-P	16 29 37.5		2.7				iScS	16 40 47.0	4.9		
			PMZ			3.0	3.00			LN		$M_s = 5.5$	12.0	3.37
			pP	16 29 59.0		4.4		TIY	34.4	340	-P	16 30 37.7	0.4	
			PP	16 30 32.0		6.7				PMZ			1.2	0.64
			iPcP	16 32 55.0		3.1				pP	16 30 57.0	-0.6		
			iS	16 34 12.0		5.6				sP	16 31 06.5	-2.0		
			SMN		$m_B = 6.6$	8.0	14.5			PP	16 31 48.0	-6.6		
			SME			8.0	6.90			PcP	16 33 13.0	2.4		
			LN		$M_s = 5.6$	8.0	4.00			SMN		$m_B = 6.5$	6.0	3.24
			LZ		$M_s = 5.4$	20.0	6.10			SME			5.0	5.62
GYA	28.2	319	P	16 29 42.4		-0.4				sS	16 36 39.0	5.6		
			pP	16 30 03.6		1.2				LZ		$M_s = 5.7$	38.0	15.5
			sP	16 30 15.4		2.0		BJI	35.5	346	P	16 30 46.0	-0.1	
			PcP	16 32 56.4		2.4				pP	16 31 06.0	-0.7		
			ScS	16 40 13.0		-3.9				PcP	16 33 16.0	2.3		
			LN		$M_s = 6.0$	12.0	9.40			cS	16 36 08.0	-6.3		
			LE			12.0	11.0			SMN		$m_B = 6.6$	9.0	9.65
KMI	30.1	312	+P	16 30 00.0		0.3				SME			8.0	5.23
			PMZ			3.0	2.00			cSS	16 38 40.0	2.8		
			pP	16 30 21.0		1.6				ScS	16 41 00.0	6.6		
			sP	16 30 34.0		3.6				LN		$M_s = 5.4$	36.0	8.31
			PP	16 31 02.0		1.7				LZ		$M_s = 5.5$	40.0	10.7
			PcP	16 33 02.0		3.3		SNY	36.0	356	-iP	16 30 50.0	-1.1	
			sS	16 35 30.0		4.8				PMZ		$m_B = 5.8$	8.0	1.43
			ScP	16 36 32.0		0.5				sP	16 31 23.0	0.5		
			LN		$M_s = 5.7$	10.0	5.00			LN		$M_s = 5.7$	24.0	9.24
			LZ		$M_s = 5.7$	10.0	6.00			LZ		$M_s = 5.7$	26.0	10.4

			SMN	$m_B = 5.6$	6.0	0.70			pP	14 47 49.0	-3.6		
			LZ	$M_s = 5.2$	20.0	1.90			cPP	14 49 38.0	-2.1		
GYA	43.2	314	+P	14 46 46.0	1.9				cS	14 54 52.0	-5.0		
			sS	14 53 24.0	0.9				LN	$M_s = 5.5$	20.0	1.90	
			LN	$M_s = 5.1$	20.0	1.40			LE		20.0	2.10	
			LE		20.0	0.80			LZ	$M_s = 5.6$	20.0	3.50	
TIA	43.9	333	cP	14 46 50.1	0.0		LZH	51.1	322	-P	14 47 46.5	0.6	
			pP	14 46 58.0	-0.9				PMZ		1.5	0.18	
			cS	14 53 21.0	1.3				cS	14 55 04.0	3.5		
			LN	$M_s = 5.2$	17.0	1.73	GTA	55.6	323	P	14 48 20.0	0.3	
KMI	45.4	309	+P	14 47 03.5	1.6				pP	14 48 28.0	-0.5		
			pP	14 47 11.0	0.6				sS	14 56 17.0	0.0		
			LE	$M_s = 4.9$	16.0	0.80			LE	$M_s = 5.1$	27.0	1.25	
SNY	46.4	343	+P	14 47 10.5	0.5				LZ	$M_s = 4.9$	27.0	0.94	
			SMN		20.0	1.56	LSA	56.6	308	cP	14 48 27.3	0.2	
			SME		18.0	1.05	WMQ	65.6	321	P	14 49 29.0	1.4	
			LN	$M_s = 5.4$	20.0	1.68			pP	14 49 36.5	0.0		
			LE		22.0	2.19			LN	$M_s = 5.2$	22.0	1.16	
			LZ	$M_s = 5.4$	22.0	2.67	KSH	71.8	313	cP	14 50 06.0	-0.3	
XAN	46.6	324	-P	14 47 10.0	-1.3				pP	14 50 16.0	0.9		
			PP	14 48 58.0	-2.3				cPP	14 52 50.0	3.3		
			S	14 53 57.0	0.2								
			SMN	$m_B = 5.7$	6.0	0.63							
			SME		7.0	0.45							
			sS	14 54 10.0	-2.4								
			SS	14 57 20.0	4.3								
TIY	47.4	330	-P	14 47 17.0	-0.6								
			PMZ	$m_B = 5.5$	6.0	0.44							
			sP	14 47 27.0	-3.0								
			sS	14 54 24.0	0.4								
			LN	$M_s = 5.4$	18.0	1.81	NJ2	60.4	316	+P	03 24 48.2	0.4	
			LE		16.0	1.40							
			LZ	$M_s = 5.5$	22.0	3.37	WHN	62.7	312	cP	03 25 04.5	1.1	
BJI	47.5	335	cP	14 47 17.5	-1.1		MDJ	63.0	333	cP	03 25 05.0	-0.9	
			cS	14 54 07.0	-4.0					iS	03 33 38.0	5.1	
			LN	$M_s = 5.4$	20.0	2.34				LZ	$M_s = 5.1$	24.0	0.90
			LZ	$M_s = 5.4$	20.0	2.43	CN2	64.4	330	cP	03 25 13.8	-0.7	
MDJ	47.7	350	cP	14 47 18.0	-1.7		BJI	66.9	322	cP	03 25 30.5	-0.4	
			iS	14 54 13.0	0.0		TIY	67.9	318	cP	03 25 36.4	-1.0	
			LZ	$M_s = 5.6$	24.0	4.90				LZ	$M_s = 5.2$	26.0	1.13
CN2	47.8	346	-P	14 47 18.5	-2.0		XAN	68.4	313	P	03 25 40.0	-0.3	
			PMZ	$m_B = 5.8$	4.0	0.50	KMI	69.3	302	cP	03 25 48.0	2.2	
			pP	14 47 26.0	-3.3		CD2	70.8	308	cP	03 25 55.0	-0.1	
			cS	14 54 08.0	-6.4		LZH	73.0	313	cP	03 26 09.5	1.0	
			LZ	$M_s = 5.5$	22.0	3.60				PMZ		2.0	0.040
CD2	47.9	317	P	14 47 21.8	0.4		GTA	77.4	314	P	03 26 33.8	0.5	
HHC	50.3	332	P	14 47 39.6	-0.2								
			LN	$M_s = 5.4$	20.0	2.13							
			LE		21.0	1.23							
BTO	50.8	330	-P	14 47 42.0	-2.0								

1987 11 9

O = 03 14 39.1 ± 0.08s

LAT = 10.53 S ± 1.88km

LONG = 163.86 E ± 1.76km

DEPTH = 33 km ± 1.09km

STATIONS USED = 30, STAND DEV = 1.03s

 $M_s = 5.1 / 3,$

1987 11 9

O = 03 47 18.2 ± 0.07s

LAT = 23.40 N ± 0.36km

LONG = 117.14 E ± 0.54km

DEPTH = 27 km ± 1.00km
 STATIONS USED = 7, STAND DEV = 2.05s
 $M_L = 3.2 / 10,$

QZH	2.0	40	cPn	03 47 51.2	0.2		
			Sn	03 48 17.2	0.2		
			SMN			$M_L = 3.1$	0.3 0.14
			SME				0.3 0.17

1987 11 9

O = 04 02 09.9 ± 0.11s
 LAT = 10.67 S ± 2.85km
 LONG = 163.81 E ± 1.95km
 DEPTH = 34 km ± 1.31km

STATIONS USED = 14, STAND DEV = 2.24s

MDJ	63.1	333	cP	04 12 40.5	3.3		
CN2	64.5	330	cP	04 12 48.6	2.8		
XAN	68.5	313	cP	04 13 09.2	-2.2		
KMI	69.3	302	cP	04 13 17.5	0.8		
GTA	77.4	314	cP	04 14 03.8	-0.5		
WMQ	87.5	315	cP	04 14 54.5	-1.7		

1987 11 9

O = 06 10 37.1 ± 0.23s
 LAT = 17.29 N ± 1.54km
 LONG = 120.40 E ± 1.35km
 DEPTH = 41 km ± 2.02km

STATIONS USED = 45, STAND DEV = 1.98s

$M_s = 4.5 / 23,$

QZH	7.8	348	cP	06 12 26.7	-4.2		
			LE			$M_s = 4.0$	19.0 1.84
GZH	8.8	312	cP	06 12 45.8	1.2		
			LN			$M_s = 4.1$	15.0 1.52
SSE	13.8	3	cP	06 13 52.0	0.1		
			esS	06 16 38.0	1.0		
			LN			$M_s = 4.4$	18.0 1.80
			LZ			$M_s = 4.4$	18.0 1.91
WHN	14.3	338	P	06 14 01.5	2.5		
			cS	06 16 39.0	2.2		
			LN			$M_s = 4.1$	14.0 0.70
			LZ			$M_s = 4.5$	16.0 1.80
NJ2	14.8	355	cP	06 14 04.5	-0.5		
			LN			$M_s = 4.4$	15.0 1.40
			LZ			$M_s = 4.1$	20.0 0.92
GYA	15.7	308	P	06 14 20.4	3.5		
KMI	18.2	298	cP	06 14 53.5	4.7		
			LE			$M_s = 4.4$	15.0 1.02
TIA	19.1	352	cP	06 14 58.8	-0.2		
			cS	06 18 24.0	-2.4		
			LN			$M_s = 4.4$	15.0 0.97
XAN	19.6	330	cP	06 15 04.0	-0.9		

			S	06 18 42.0	4.3		
			LN			$M_s = 4.7$	13.0 1.17
			LE				12.0 0.77
CD2	20.3	315	P	06 15 11.2	-1.5		
TIY	21.5	343	cP	06 15 25.2	0.3		
			LE			$M_s = 4.5$	14.0 0.91
			LZ			$M_s = 4.6$	18.0 1.45
BJI	23.0	352	cP	06 15 40.0	0.9		
			LN			$M_s = 4.4$	18.0 0.86
LZH	23.8	325	P	06 15 48.5	1.1		
			PMZ				1.5 0.020
			LN			$M_s = 4.7$	13.0 0.85
			LE				12.0 0.66
SNY	24.6	6	+P	06 15 55.2	0.1		
			LE			$M_s = 4.6$	17.0 1.04
HHC	24.7	344	+P	06 15 58.0	2.0		
			LN			$M_s = 4.5$	15.0 0.76
BTO	24.9	341	cP	06 15 57.5	-0.6		
			epP	06 16 11.0	2.7		
			eS	06 20 13.5	-2.4		
			LN			$M_s = 4.6$	13.0 0.50
			LE				14.0 0.60
			LZ			$M_s = 4.5$	14.0 0.70
CN2	26.8	8	cP	06 16 11.0	-4.4		
			sP	06 16 30.5	0.0		
			LZ			$M_s = 4.6$	16.0 0.90
MDJ	28.3	14	cP	06 16 31.0	1.5		
			eS	06 21 14.0	2.5		
			LZ			$M_s = 4.7$	18.0 1.10
GTA	28.4	325	cP	06 16 29.0	-1.3		
			LE			$M_s = 4.3$	22.0 0.55
			LZ			$M_s = 4.6$	20.0 0.94
WMQ	38.2	321	cP	06 17 56.0	0.9		

1987 11 9

O = 07 21 53.9 ± 0.23s
 LAT = 36.21 N ± 0.77km
 LONG = 81.12 E ± 1.99km
 DEPTH = 19 km ± 3.06km

STATIONS USED = 7, STAND DEV = 4.66s

$M_L = 4.1 / 5,$

KSH	5.2	310	Pn	07 23 13.5	2.0		
			Pg	07 23 26.0	0.1		
			Sn	07 24 17.0	4.1		
			Sg	07 24 32.5	-4.6		
			SMN			$M_L = 4.4$	0.2 0.50
			SME				0.2 0.30
WMQ	9.1	32	cP	07 24 10.3	2.4		
			SMN				1.0 0.030

1987 11 9
 O = 09 43 33.0 ± 0.07s
 LAT = 28.78 N ± 0.76km
 LONG = 105.03 E ± 0.63km
 DEPTH = 15 km ± 0.08km
 STATIONS USED = 16, STAND DEV = 2.31s
 $M_L = 3.6 / 12,$

CD2	2.4	333	Pn	09 44 12.4	0.3		
			Pg	09 44 17.7	2.4		
			Sn	09 44 42.3	-0.6		
			Sg	09 44 49.0	1.0		
			SMN	$M_L = 3.9$	0.8	0.67	
			SME		0.8	0.72	
GYA	2.7	148	Pn	09 44 18.0	1.1		
			Pg	09 44 24.4	3.1		
			Sn	09 44 52.4	1.0		
			Sg	09 45 02.8	4.1		
			SMN	$M_L = 3.5$	1.0	0.26	
			SME		1.0	0.19	
KMI	4.2	210	cPg	09 44 51.0	3.9		
XAN	6.2	31	Pn	09 45 05.6	1.0		
			Pg	09 45 25.0	2.4		
			Sn	09 46 20.4	3.0		
			Sg	09 46 50.4	2.9		
			SMN	$M_L = 4.0$	1.0	0.13	
			SME		1.0	0.090	
WHN	8.3	76	cP	09 45 36.5	0.6		

1987 11 9
 O = 10 13 23.5 ± 0.05s
 LAT = 10.64 S ± 1.13km
 LONG = 163.89 E ± 1.00km
 DEPTH = 28 km ± 0.60km
 STATIONS USED = 10, STAND DEV = 1.15s

SSE	58.3	317	cP	10 23 20.3	1.6		
			eS	10 31 22.0	4.2		
			eSS	10 35 16.0	5.8		
CN2	64.5	330	cP	10 24 00.0	-0.4		
GTA	77.5	314	cP	10 25 19.0	-0.1		

1987 11 9
 O = 14 31 31.2 ± 0.04s
 LAT = 32.39 N ± 0.39km
 LONG = 114.78 E ± 0.44km
 DEPTH = 20 km ± 0.18km
 STATIONS USED = 5, STAND DEV = 1.97s
 $M_L = 3.0 / 6,$

WHN	1.9	191	Pg	14 32 04.0	-0.4		
			SMN	$M_L = 3.1$	0.5	0.16	
			SME		0.5	0.19	

1987 11 9
 O = 16 43 41.1 ± 0.25s
 LAT = 32.83 N ± 1.82km
 LONG = 47.69 E ± 1.48km
 DEPTH = 41 km ± 1.49km
 STATIONS USED = 31, STAND DEV = 1.48s
 $M_s = 4.8 / 2,$

KSH	23.7	66	cP	16 48 53.0	2.2		
			cPP	16 49 18.0	-5.6		
			LN	$M_s = 5.0$	10.0	1.60	
WMQ	33.0	59	cP	16 50 15.5	0.8		
GTA	42.1	66	P	16 51 32.2	0.4		
			LE	$M_s = 4.7$	20.0	0.64	
LZH	45.9	70	cP	16 52 03.0	1.0		
			PMZ		2.5	0.040	
CD2	47.2	76	cP	16 52 12.5	0.4		
KMI	48.3	84	cP	16 52 21.5	0.3		
XAN	50.4	71	P	16 52 36.4	-0.9		
GYA	51.1	81	P	16 52 40.0	-2.4		

1987 11 9
 O = 17 46 19.2 ± 0.07s
 LAT = 22.23 S ± 2.98km
 LONG = 69.62 W ± 3.96km
 DEPTH = 44 km ± 0.49km
 STATIONS USED = 53, STAND DEV = 1.48s
 $M_s = 5.4 / 2,$ $m_B = 5.6 / 1$

KSH	146.1	52	cPKP	18 05 56.0	1.5		
			sPKP	18 06 14.0			
WMQ	151.4	36	PKP	18 06 03.5	0.5		
MDJ	152.6	329	cPKP	18 06 04.5	-0.1		
CN2	155.1	333	PKP	18 06 07.0	-1.0		
SNY	157.5	333	cPKP ₂	18 06 42.4	-1.3		
GTA	160.6	25	-PKP	18 06 15.2	0.2		
HHC	161.4	357	cPKP	18 06 17.2	1.5		
BJI	161.6	346	cPKP	18 06 15.0	-0.7		
			sPKP	18 06 32.0			
			cPKP ₂	18 07 00.0			
			sPKP ₂	18 07 17.0			
			cPP	18 10 50.0	3.6		
BTO	161.7	1	cPKP	18 06 16.0	0.0		
TIY	164.5	354	cPKP	18 06 18.7	0.0		
			PKP ₂	18 07 13.8			
			sPKP ₂	18 07 30.9			
			PPMZ	$m_B = 5.6$	7.0	0.44	
			LZ	$M_s = 5.4$	26.0	0.70	
LZH	165.1	21	cPKP	18 06 20.0	0.6		
SSE	166.9	315	PKP	18 06 21.2	0.5		
			sPKP	18 06 39.5			

STATIONS USED = 51, STAND DEV = 1.28s

Ms = 5.2 / 25,

QZN	24.8	352	P	20 23 16.0	1.2		
			PP	20 23 54.0	2.7		
			eS	20 27 37.0	4.4		
			sS	20 27 48.0	0.6		
			LN	Ms = 5.2	15.0	1.70	
			LE		13.0	2.50	
QZH	30.9	9	eP	20 24 13.0	3.1		
			eS	20 29 15.0	4.6		
			sS	20 29 24.0	-2.0		
			LN	Ms = 5.0	16.0	1.78	
KMI	32.3	342	eP	20 24 25.0	2.0		
			sP	20 24 39.0	3.0		
			eS	20 29 34.0	0.2		
			LE	Ms = 5.3	12.0	2.38	
GYA	32.6	349	P	20 24 25.2	-0.1		
			LN	Ms = 5.5	14.0	3.70	
			LE		14.0	1.40	
SSE	37.3	11	eP	20 25 05.5	0.0		
			eS	20 30 45.0	-5.7		
			LN	Ms = 4.9	12.0	0.78	
			LZ	Ms = 5.1	12.0	1.09	
CD2	37.5	346	eP	20 25 06.8	-0.5		
			eS	20 30 49.5	-4.5		
			LE	Ms = 5.5	12.0	2.98	
			LZ	Ms = 5.1	10.0	1.05	
XAN	39.7	354	P	20 25 25.4	-0.2		
			eS	20 31 28.0	0.7		
			LE	Ms = 5.3	15.0	2.03	
LSA	41.1	330	eP	20 25 37.4	-0.4		
TIA	41.8	5	eP	20 25 45.2	2.4		
			eS	20 31 58.0	-0.3		
			LN	Ms = 5.3	16.0	0.78	
			LE		16.0	2.00	
LZH	42.5	349	eP	20 25 49.5	0.9		
			LN	Ms = 5.4	13.0	1.16	
			LE		12.0	1.66	
TIY	43.2	359	eP	20 25 53.6	-0.5		
			LE	Ms = 5.3	16.0	2.04	
			LZ	Ms = 5.3	16.0	1.90	
DL2	45.0	9	eP	20 26 10.0	1.3		
BJI	45.6	3	eP	20 26 12.5	-0.6		
			eS	20 32 48.0	-4.7		
			LN	Ms = 5.2	18.0	0.88	
			LE		18.0	1.48	
BTO	46.2	356	eP	20 26 17.0	-1.0		
			eS	20 32 56.0	-5.3		
			LN	Ms = 5.2	13.0	1.00	
			LE		15.0	0.80	

GTA	46.6	346	P	20 26 21.5	0.1		
			eS	20 33 12.0	4.5		
			eSS	20 36 32.0	6.8		
			LE	Ms = 5.5	16.0	2.96	
SNY	48.2	10	-P	20 26 32.6	-1.2		
			SS	20 37 00.0	6.6		
			LE	Ms = 5.0	23.0	1.11	
CN2	50.4	11	eP	20 26 49.0	-2.2		
			eS	20 33 56.0	-5.5		
			LZ	Ms = 5.1	16.0	0.90	
MDJ	52.1	15	eP	20 27 03.0	-1.0		
			eS	20 34 26.0	1.0		
			LZ	Ms = 5.4	16.0	1.70	
WMQ	54.4	337	eP	20 27 20.6	-0.5		
			eS	20 34 56.0	-0.3		
			LN	Ms = 5.2	36.0	2.38	
KSH	56.6	326	eP	20 27 39.0	1.9		
			ePP	20 29 37.0	-6.8		
			eS	20 35 26.0	0.3		
			LE	Ms = 5.4	14.0	1.50	

1987 11 11

O = 03 16 10.5 ± 0.08s
 LAT = 14.23 S ± 0.97km
 LONG = 172.49 E ± 1.37km
 DEPTH = 571 km ± 0.51km

STATIONS USED = 46, STAND DEV = 0.74s

NJ2	68.9	313	+P	03 26 21.5	0.3		
MDJ	70.3	329	-iP	03 26 29.3	-0.2		
DL2	71.0	320	+P	03 26 34.1	0.5		
WHN	71.4	309	-P	03 26 36.5	0.6		
SNY	71.7	324	+P	03 26 37.2	-0.1		
CN2	71.9	326	-P	03 26 38.0	-0.8		
TIA	72.4	316	-P	03 26 40.8	-0.7		
BII	75.1	319	eP	03 26 56.0	-0.8		
GYA	75.7	302	P	03 27 00.2	0.4		
XAN	77.1	310	-P	03 27 08.0	0.1		
KMI	78.4	300	eP	03 27 15.0	0.3		
CD2	79.8	306	eP	03 27 22.3	0.5		
LZH	81.8	310	-iP	03 27 32.0	-0.2		
GTA	86.0	312	-iP	03 27 53.2	0.1		
LSA	89.6	301	+P	03 28 10.0	-0.2		
WMQ	96.0	314	eP	03 28 38.5	-0.4		

1987 11 11

O = 06 51 38.2 ± 0.21s
 LAT = 24.53 N ± 1.45km
 LONG = 102.68 E ± 1.26km
 DEPTH = 27 km ± 0.89km

STATIONS USED = 10, STAND DEV = 3.34s
 $M_L = 3.6 / 5,$

KMI	0.6	5	-Pg	06 51 51.5	1.6		
			Sg	06 52 02.0	3.6		
			SME			2.0	2.80
GYA	4.1	61	Pn	06 52 37.8	-1.7		
			Pg	06 52 54.6	4.2		
			Sn	06 53 28.8	0.8		
			Sg	06 53 53.2	6.9		
			SMN	$M_L = 3.6$		1.2	0.12
			SME			1.2	0.10
CD2	6.4	8	Pn	06 53 16.8	5.1		
QZN	8.6	128	cP	06 53 41.4	-2.9		
			SMN	$M_L = 3.5$		0.7	0.010

1987 11 11

O = 08 10 01.8 ± 0.05s
 LAT = 36.53 N ± 0.80km
 LONG = 70.97 E ± 0.67km
 DEPTH = 206 km ± 0.34km

STATIONS USED = 17, STAND DEV = 1.20s

KSH	4.9	52	-iP	08 11 18.0	1.7		
			S	08 12 14.0	0.5		
			SMN			2.0	1.90
WMQ	14.7	55	P	08 13 20.6	-0.9		
			SMN			2.0	0.030
LSA	18.2	106	+P	08 14 03.6	1.0		
GTA	22.9	74	P	08 14 51.0	2.2		
GYA	31.9	98	P	08 16 10.4	0.0		

1987 11 11

O = 10 41 33.3 ± 0.12s
 LAT = 5.36 S ± 1.26km
 LONG = 153.34 E ± 1.65km
 DEPTH = 50 km ± 1.34km

STATIONS USED = 54, STAND DEV = 1.57s

 $M_s = 4.5 / 3,$

NJ2	49.6	321	+P	10 50 23.0	0.8		
			LZ	$M_s = 4.5$		40.0	0.57
TIA	53.5	324	cP	10 50 50.8	-0.6		
			LZ	$M_s = 4.4$		28.0	0.28
MDJ	54.1	339	cP	10 50 54.5	-1.7		
CN2	55.0	336	cP	10 51 01.0	-1.7		
			pP	10 51 14.0	-1.5		
GYA	55.2	307	P	10 51 04.4	0.6		
BJI	56.7	326	cP	10 51 13.0	-1.4		
TIY	57.3	322	+P	10 51 18.6	-0.5		
			cS	10 59 04.0	-5.8		
			LZ	$M_s = 4.9$		22.0	0.65
XAN	57.4	316	-P	10 51 19.0	-0.7		

KMI	57.7	304	cP	10 51 24.0	1.6		
CD2	59.5	311	cP	10 51 34.5	0.0		
LZH	62.0	316	-iP	10 51 52.0	0.5		
			PMZ			1.5	0.080
GTA	66.4	317	-iP	10 52 21.0	0.7		
			sP	10 52 42.6	4.2		
LSA	69.0	304	cP	10 52 36.8	0.1		
WMQ	76.5	317	P	10 53 21.5	0.8		
KSH	83.7	311	P	10 54 01.5	2.4		
			pP	10 54 11.0	-1.0		
			PP	10 57 13.0	0.3		
			cS	11 04 20.0	3.3		

1987 11 11

O = 13 18 41.2 ± 0.11s
 LAT = 40.46 N ± 1.29km
 LONG = 114.66 E ± 1.05km
 DEPTH = 17 km ± 0.46km

STATIONS USED = 26, STAND DEV = 2.59s

 $M_s = 4.2 / 1, M_L = 4.2 / 19,$

BJI	1.2	109	iPg	13 19 02.0	-1.2		
			cSg	13 19 17.5	-2.7		
			SMN	$M_L = 4.5$		0.5	6.60
			SME			0.5	9.10
HHC	2.4	280	cPn	13 19 22.5	2.4		
			Pg	13 19 27.0	3.7		
			Sg	13 20 00.0	4.0		
TIY	3.2	213	cPn	13 19 32.0	0.2		
			Pg	13 19 37.8	-0.6		
			Sg	13 20 19.0	-3.8		
			SMN			3.0	3.24
			SME			3.0	4.46
BTO	3.5	274	Pg	13 19 44.4	0.6		
			Sg	13 20 32.2	0.2		
			SMN	$M_L = 4.2$		0.5	0.88
			SME			0.5	0.45
			SMZ	$M_L = 4.3$		0.5	0.60
TIA	4.7	155	cPn	13 19 53.4	2.1		
			SMN	$M_L = 3.9$		0.6	0.10
			SME			0.6	0.22
			SMZ	$M_L = 4.1$		0.6	0.17
DL2	5.6	104	cPg	13 20 22.8	2.7		
			cSg	13 21 39.6	3.0		
			SMN	$M_L = 4.1$		1.6	0.19
			SME			1.6	0.14
SNY	6.9	76	-Pg	13 20 47.0	4.4		
			Sg	13 22 13.2	-3.3		
			SMN	$M_L = 4.2$		1.0	0.17
			SME			0.9	0.060
XAN	7.9	217	Pn	13 20 34.6	-0.8		

ePg	13 21 03.0	2.9	GTA	37.9 326	cP	15 38 10.4	-2.5	
Sg	13 22 42.5	-5.2						
SMN	$M_L = 4.5$	1.4	0.22	1987 11 12				
SME		1.2	0.090	O=00 24 40.2		± 0.12s		
MDJ	11.8 64	cP	13 21 30.5	-1.2	LAT=17.19 S	± 1.60km		
CD2	13.0 226	P	13 21 45.6	-2.6	LONG=177.22 W	± 1.39km		
GYA	15.5 208	cP	13 22 24.6	4.0	DEPTH=401 km	± 0.99km		
1987 11 11				STATIONS USED = 73, STAND DEV = 1.04s				
O=15 04 52.6	± 0.14s			$m_B = 5.6 / 14$				
LAT=6.84 N	± 2.14km			QZH	75.2 302	-P	00 35 42.0 -0.4	
LONG=76.18 W	± 3.61km					pP	00 37 08.0 -3.2	
DEPTH=31 km	± 0.55km					SMN	$m_B = 5.6$ 6.0 1.18	
STATIONS USED = 45,	STAND DEV = 1.98s			SSE	76.2 309	P	00 35 46.5 -1.1	
$M_s = 5.5 / 4,$						PMZ	1.0 0.030	
WMQ	127.5 15	PKP	15 23 59.0	3.0		cpP	00 37 14.0 -2.5	
BJI	132.0 347	cPKP	15 24 06.0	1.6		ScS	00 45 24.0 2.5	
		PP	15 26 24.0	-4.7	MDJ	78.3 324	-iP	00 35 58.9 -0.1
HHC	132.0 352	cPKP	15 24 05.0	0.4		pP	00 37 25.0 -3.4	
GTA	133.8 4	PKP	15 24 11.4	3.3		sP	00 38 04.0 -5.3	
		LE	$M_s = 5.5$	20.0	0.62	iS	00 45 20.0 -0.6	
TIY	135.0 350	cPKP	15 24 08.5	-1.6		sS	00 47 50.0 -6.8	
		LZ	$M_s = 5.6$	24.0	0.81	SS	00 50 30.0 -4.3	
LZH	137.3 360	cPKP	15 24 13.0	-1.5		SMN	$m_B = 5.6$ 8.0 1.80	
NJ2	138.8 340	cPKP	15 24 19.8	2.9		NJ2	78.4 309	
		LN	$M_s = 5.7$	17.0	0.70		-P	00 35 59.6 0.1
		LZ	$M_s = 5.3$	24.0	0.46		S	00 45 25.0 4.9
SSE	138.8 337	cPKP	15 24 17.5	0.5		GZH	78.8 298	
XAN	139.1 354	cPKP	15 24 14.4	-3.2			P	00 36 01.0 -0.7
WHN	141.5 345	cPKP	15 24 17.5	-4.3			pP	00 37 30.0 -1.2
LSA	141.7 18	cPKP	15 24 22.6	-0.1		DL2	79.9 316	
CD2	142.5 0	cPKP	15 24 21.5	-2.1			-P	00 36 07.0 -0.4
KMI	148.2 2	-PKP	15 24 38.0	4.5			PMZ	$m_B = 5.7$ 5.0 0.75
1987 11 11								
O=15 30 55.5	± 0.07s							
LAT=9.78 N	± 1.09km							
LONG=126.44 E	± 2.37km							
DEPTH=25 km	± 0.05km							
STATIONS USED = 18,	STAND DEV = 1.63s							
$M_s = 4.2 / 1,$								
SSE	21.8 348	cP	15 35 48.5	1.0			PMZ	$m_B = 5.2$ 8.0 0.61
		PMZ		1.0	0.030		cS	00 45 40.0 -0.2
WHN	23.5 333	P	15 36 08.0	3.1			SMN	$m_B = 5.6$ 5.0 1.00
		LZ	$M_s = 4.2$	18.0	0.50	SNY	80.2 319	
XAN	29.0 329	cP	15 36 54.0	-2.0			-iP	00 36 09.1 0.0
BJI	31.5 345	cP	15 37 17.0	-1.0		QZN	80.2 293	
SNY	32.0 356	-P	15 37 23.8	1.2			cP	00 36 10.0 0.7
CN2	33.9 359	cP	15 37 38.0	-1.0			pP	00 37 37.0 -2.0
MDJ	34.8 4	cP	15 37 48.0	1.2			S	00 45 45.5 6.5
							SMN	$m_B = 5.1$ 10.5 0.70
							sS	00 48 17.0 -0.8
						WHN	81.1 306	
							-P	00 36 15.0 1.0
							PMZ	$m_B = 6.1$ 4.0 1.52
							pP	00 37 44.0 0.1
							iS	00 45 54.0 4.1
							SMN	$m_B = 5.5$ 7.0 1.10
						TIA	81.6 312	
							-P	00 36 16.5 -0.1
							cS	00 45 55.5 0.5
							SME	$m_B = 5.2$ 8.0 0.63

DEPTH = 28 km ± 0.56km					SME						
STATIONS USED = 23, STAND DEV = 1.73s					SMZ						
M _L = 3.9 / 11,					M _L = 2.7						
QZH	3.1	289	Pn	08 12 44.7	0.7	1987 11 13					
			SMN	M _L = 3.9	1.0 0.49	O = 14 35 37.6 ± 0.05s					
			SME		1.0 0.47	LAT = 6.77 N ± 0.50km					
			LN		2.0 0.66	LONG = 124.05 E ± 0.38km					
SSE	7.1	356	P	08 13 42.0	0.5	DEPTH = 75 km ± 0.44km					
			SMN	M _L = 3.8	1.0 0.030	STATIONS USED = 9, STAND DEV = 1.08s					
			SME		1.0 0.050	MDJ	38.0	6	cP	14 42 50.5	0.0
GZH	7.8	265	cP	08 13 54.1	2.6	GTA	39.1	330	P	14 42 59.8	-0.2
			SMN	M _L = 4.4	1.1 0.15	1987 11 13					
			SME		1.1 0.070	O = 16 25 50.8 ± 0.05s					
NJ2	8.4	343	cP	08 13 58.0	-2.2	LAT = 43.32 N ± 0.68km					
			S	08 15 35.0	-0.3	LONG = 106.13 E ± 0.51km					
			SMN	M _L = 4.3	1.1 0.076	DEPTH = 24 km ± 0.67km					
WHN	9.3	316	cP	08 14 13.2	1.1	STATIONS USED = 12, STAND DEV = 2.39s					
			SMN		1.0 0.040	M _s = 3.6 / 1, M _L = 4.0 / 10,					
GTA	24.1	315	P	08 17 13.8	2.1	BTO	4.0	132	Pn	16 26 54.6	3.7
1987 11 13											
O = 13 05 54.2 ± 0.05s											
LAT = 36.23 N ± 0.70km											
LONG = 95.39 E ± 0.41km											
DEPTH = 26 km ± 0.03km											
STATIONS USED = 10, STAND DEV = 2.89s											
M _s = 3.2 / 1, M _L = 3.9 / 7,											
GTA	4.7	46	Pn	13 07 06.0	1.4				SMN	M _L = 3.8	0.4 0.21
			Pg	13 07 20.6	2.8				SME		0.4 0.17
			Sg	13 08 19.4	-3.1				SMZ	M _L = 4.0	0.4 0.22
			SMN	M _L = 3.2	0.9 0.020	HHC	4.7	120	Pn	16 27 02.8	1.4
			SMI		1.0 0.040				Pg	16 27 17.4	2.9
			LE	M _s = 3.2	9.0 0.34				SMN	M _L = 4.4	0.6 0.52
LZH	6.8	89	cPn	13 07 34.5	0.8				SME		0.6 0.52
			SMN	M _L = 4.6	1.5 0.30	GTA	6.1	233	Pn	16 27 23.6	2.8
			SME		1.5 0.22				Pg	16 27 41.3	1.9
WMQ	9.6	324	P	13 08 15.6	1.5				Sn	16 28 36.0	3.7
			S	13 10 00.0	-1.9				LN	M _s = 3.6	5.0 0.33
			SMN		1.0 0.060	TIY	7.4	137	cPg	16 28 02.4	1.1
1987 11 13											
O = 14 06 14.6 ± 0.16s											
LAT = 38.94 N ± 1.04km											
LONG = 118.72 E ± 1.77km											
DEPTH = 9 km ± 0.76km											
STATIONS USED = 6, STAND DEV = 4.68s											
M _L = 2.8 / 10,											
TIA	3.0	205	cPg	14 07 08.8	1.0	LZH	7.4	194	cPg	16 28 05.5	3.1
			Sg	14 07 43.4	-5.4				SMN	M _L = 4.4	1.5 0.12
			SMN	M _L = 2.6	0.3 0.018				SME		2.0 0.14
1987 11 13											
O = 16 48 01.4 ± 0.09s											
LAT = 21.57 N ± 1.06km											
LONG = 103.49 E ± 1.06km											
DEPTH = 33 km ± 0.13km											
STATIONS USED = 32, STAND DEV = 2.04s											
M _s = 4.4 / 11, M _L = 4.8 / 4,											
KMI	3.6	349	cPg	16 49 08.0	2.5				Sg	16 49 53.0	-1.5
			Sg	16 49 53.0	-1.5				LE	M _s = 4.2	5.0 3.08
			LE		5.0 3.08	GYA	5.7	30	Pn	16 49 25.0	1.2
			SMN	M _L = 2.6	0.3 0.018				Pg	16 49 47.4	5.9

1987 11 14
O = 02 17 18.4 ± 0.10s
LAT = 37.00 N ± 1.21km
LONG = 137.43 E ± 0.55km
DEPTH = 258 km ± 1.21km
STATIONS USED = 70, STAND DEV = 1.16s

MDJ	9.6	324	+iP	02 19 34.8	1.3
CN2	11.4	310	-P	02 19 55.0	-0.2
SNY	11.7	298	-iP	02 20 01.2	1.4
DL2	12.6	283	P	02 20 13.2	2.5
SSE	14.7	251	+P	02 20 37.1	1.1
NJ2	16.1	258	-P	02 20 52.0	-0.3
TIA	16.3	273	-P	02 20 53.8	-1.2
BJI	16.9	287	P	02 21 00.0	-1.4
TIY	19.9	280	cP	02 21 31.0	-0.9
WHN	20.2	258	P	02 21 36.5	1.4
HHC	20.5	289	cP	02 21 36.2	-1.6
BTO	21.6	288	cP	02 21 47.0	-2.2
XAN	23.4	271	-P	02 22 04.5	-1.1
GYA	28.1	257	P	02 22 48.2	-0.8
CD2	28.5	268	P	02 22 51.2	-1.2
GTA	29.5	286	P	02 23 00.0	-1.6
WMQ	38.0	296	P	02 24 14.0	0.2
KSH	47.5	293	cP	02 25 32.0	1.8

1987 11 14
O = 09 26 25.5 ± 0.09s
LAT = 4.63 S ± 0.90km
LONG = 101.71 E ± 1.48km
DEPTH = 43 km ± 1.25km
STATIONS USED = 52, STAND DEV = 1.00s
Ms = 4.7 / 3,

QZN	24.8	19	cP	09 31 47.6	2.0
GYA	31.3	9	P	09 32 44.0	-0.1
CD2	35.4	3	cP	09 33 18.6	-1.1
LSA	35.6	344	+P	09 33 21.5	-0.4
WHN	37.0	18	cP	09 33 32.0	-1.2
XAN	39.1	10	+P	09 33 50.0	-0.4
LZH	40.5	3	+P	09 34 03.0	0.0
			PMZ		1.5 0.050
TIY	43.3	12	+iP	09 34 25.8	0.5
			cS	09 40 50.0	0.7
			LE	Ms=4.7	14.0 0.45
			LZ	Ms=4.6	19.0 0.49
GTA	43.8	358	+iP	09 34 30.2	0.2
			LZ	Ms=4.7	21.0 0.64
BTO	45.6	9	cP	09 34 44.0	-0.3
HHC	46.1	10	P	09 34 48.8	0.5
BJI	46.4	15	P	09 34 50.5	0.4

WMQ	49.8	347	+P	09 35 18.0	0.9
KSH	49.9	334	cP	09 35 19.0	1.7
SNY	50.3	21	cP	09 35 19.3	-1.5
CN2	52.7	21	+P	09 35 37.4	-1.4
			PcP	09 36 47.0	-0.2
MDJ	55.0	24	-iP	09 35 55.4	-0.3

1987 11 14
O = 10 35 33.3 ± 0.06s
LAT = 5.12 S ± 0.84km
LONG = 153.43 E ± 1.05km
DEPTH = 61 km ± 0.71km
STATIONS USED = 29, STAND DEV = 1.23s

BJI	56.5	326	cP	10 45 10.5	-1.7
TIY	57.2	322	cP	10 45 16.8	-0.2
XAN	57.3	316	+P	10 45 17.3	-0.5
CD2	59.4	310	cP	10 45 32.5	-0.2
LZH	61.9	316	+P	10 45 50.5	0.9
GTA	66.3	317	+iP	10 46 19.0	0.6
WMQ	76.4	317	P	10 47 20.0	1.2

1987 11 14
O = 13 51 41.1 ± 0.09s
LAT = 28.72 N ± 1.65km
LONG = 130.24 E ± 1.53km
DEPTH = 60 km ± 0.91km
STATIONS USED = 41, STAND DEV = 1.78s
Ms = 4.1 / 11,

SSE	8.2	289	-P	13 53 42.5	2.4
			PMZ		1.0 0.040
			LZ	Ms=4.0	20.0 1.87
NJ2	10.4	291	cP	13 54 10.8	1.0
			LZ	Ms=3.8	20.0 0.92
TIA	13.3	307	-P	13 54 51.2	1.5
			LN	Ms=4.2	16.0 0.58
			LE		17.0 1.00
WHN	13.9	281	cP	13 54 52.5	-4.9
			LZ	Ms=4.1	20.0 0.90
CN2	15.5	347	+P	13 55 18.0	-0.1
			LZ	Ms=4.1	20.0 0.90
MDJ	15.9	358	cP	13 55 27.5	5.1
BJI	16.2	318	cP	13 55 26.5	0.4
			eS	13 58 20.0	-2.5
			LN	Ms=4.1	24.0 0.97
			LZ	Ms=4.1	22.0 0.94
TIY	17.4	306	+P	13 55 44.0	2.8
			LE	Ms=4.2	13.0 0.62
			LZ	Ms=4.4	16.0 1.19
XAN	18.9	292	-P	13 55 58.8	-1.5
HHC	19.5	313	cP	13 56 05.0	-1.3

TIA	30.9	102	+P	03 37 26.8	0.4		
			PcP	03 40 22.7	-0.3		
			ScS	03 48 02.9	2.1		
			LN	Ms=5.0	10.0	0.52	
			LE		10.0	0.86	
KMI	31.0	134	+P	03 37 27.0	-0.7		
SNY	31.9	87	+iP	03 37 34.2	-1.0		
CN2	32.1	83	+iP	03 37 36.4	-1.0		
DL2	32.1	93	eP	03 37 37.9	0.1		
WHN	33.0	112	+iP	03 37 45.5	0.7		
			PMZ		0.6	0.30	
			LE	Ms=5.5	14.0	4.35	
MDJ	34.4	79	+iP	03 37 56.2	-0.9		
NJ2	34.6	106	+iP	03 37 57.7	-1.8		
			iPcP	03 40 31.3	-2.1		
			LN	Ms=5.0	11.0	1.04	
SSE	36.8	105	-P	03 38 17.2	-0.1		
			PMZ		1.0	0.15	
			LN	Ms=4.7	10.0	0.44	
			LZ	Ms=5.0	16.0	1.34	
GZH	38.1	122	+P	03 38 28.6	0.3		
QZN	39.6	130	+iP	03 38 41.4	0.4		

1987 11 15

O=13 58 27.5 ± 0.61s
 LAT=36.36 N ± 5.61km
 LONG= 78.17 E ± 3.74km
 DEPTH= 8 km ± 1.02km
 STATIONS USED = 9, STAND DEV= 3.29s
 M_L=3.8 / 6,

KSH	3.5	331	ePn	13 59 24.5	1.1		
			eSg	14 00 12.5	-6.1		
			SMN	M _L =3.6	0.5	0.10	
			SME		0.4	0.20	
WMQ	10.4	42	eP	14 00 59.4	-1.4		
			SMN		2.0	0.050	
GTA	17.4	73	eP	14 02 33.2	1.0		

1987 11 15

O=15 13 22.2 ± 0.09s
 LAT=26.68 N ± 1.50km
 LONG= 93.29 E ± 1.01km
 DEPTH= 27 km ± 0.50km
 STATIONS USED = 25, STAND DEV= 2.08s

LSA	3.6	328	-iPg	15 14 23.0	-2.6		
GYA	12.0	88	eP	15 16 11.6	-2.9		
LZH	13.0	41	eP	15 16 27.5	-0.8		
GTA	13.8	22	+P	15 16 38.2	-0.8		
XAN	15.3	58	eP	15 16 56.0	-2.9		
WMQ	17.7	347	eP	15 17 31.7	3.1		

TIY	19.5	51	eP	15 17 49.8	-1.1		
HHC	20.7	42	eP	15 18 02.2	-1.0		

1987 11 15

O=20 57 58.0 ± 0.05s
 LAT=34.54 N ± 0.34km
 LONG=116.67 E ± 0.43km
 DEPTH= 7 km ± 0.12km
 STATIONS USED = 6, STAND DEV= 1.35s
 M_L=2.5 / 9,

TIA	1.7	12	Pg	20 58 27.5	-0.8		
			Sg	20 58 48.2	-3.4		
			SMN	M _L =2.7	0.3	0.056	
			SME		0.3	0.091	
			SMZ	M _L =2.5	0.3	0.035	

1987 11 15

O=22 00 48.6 ± 0.25s
 LAT= 9.23 S ± 3.09km
 LONG= 75.48 W ± 4.78km
 DEPTH= 19 km ± 1.77km
 STATIONS USED = 49, STAND DEV= 1.98s

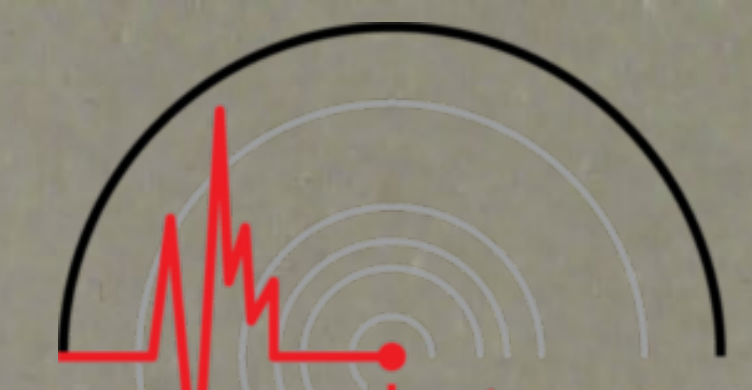
MDJ	138.6	333	ePKP	22 20 14.0	-0.5		
WMQ	142.6	20	ePKP	22 20 21.6	0.0		
DL2	146.7	335	-PKP	22 20 29.6	0.9		
BII	147.6	343	ePKP	22 20 30.0	-0.1		
HHC	147.9	350	PKP	22 20 31.4	0.7		
BTO	148.4	352	PKP	22 20 35.3	3.8		
GTA	149.7	7	+iPKP	22 20 38.0	4.4		
TIA	150.8	339	ePKP	22 20 35.3	0.1		
LZH	153.3	1	ePKP	22 20 39.0	0.1		
NJ2	153.7	332	PKP	22 20 36.0	-3.3		
XAN	155.0	351	ePKP	22 20 41.0	-0.1		
WHN	156.9	338	ePKP	22 20 45.0	1.4		
CD2	158.4	2	ePKP	22 20 46.5	0.8		
GYA	162.7	354	-PKP	22 20 51.0	0.7		
KMI	164.1	6	ePKP	22 20 53.0	1.2		

1987 11 16

O=03 26 10.3 ± 0.10s
 LAT=14.51 N ± 1.36km
 LONG= 95.97 E ± 1.37km
 DEPTH= 18 km ± 0.16km
 STATIONS USED = 63, STAND DEV= 1.51s

Ms=5.4 / 33, m_B=5.4 / 2

KMI	12.3	30	+P	03 29 12.0	3.5		
			LN	Ms=5.3	8.0	8.40	
QZN	14.0	69	eP	03 29 32.0	1.3		
			eS	03 32 02.0	-5.0		
			LN	Ms=5.0	11.0	2.30	



GYA	15.5	38	LE			12.0	3.50	KSH	30.4	328	P	03 32 25.0	0.3			
			P	03 29 51.0	0.4						cS	03 37 24.0	0.1			
			sP	03 29 57.4	-2.4						LE	Ms=5.3	13.0	2.90		
			LN	Ms=5.5		9.0	7.50	BJI	31.0	31	cP	03 32 28.5	-0.8			
			LE			9.0	4.90				cS	03 37 34.0	1.8			
CD2	17.8	22	cP	03 30 18.4	-1.1						cSS	03 39 20.0	4.7			
			LN	Ms=5.5		7.0	5.78				LN	Ms=5.3	22.0	2.80		
			LZ	Ms=5.4		7.0	4.80				LE		22.0	4.08		
GZH	18.5	60	+P	03 30 28.0	0.0						LZ	Ms=5.4	13.0	3.62		
			cS	03 33 46.0	-5.1			CN2	38.5	35	-P	03 33 33.0	-1.1			
			LN	Ms=5.2		10.0	2.52				pP	03 33 39.0	-1.9			
			LE			10.0	2.84				cPP	03 35 04.0	-1.6			
LZH	22.6	17	P	03 31 12.5	0.5						cS	03 39 26.0	-3.1			
			PMZ			2.0	0.17				cSS	03 42 08.0	-0.7			
			cS	03 35 17.0	2.5						LZ	Ms=5.5	14.0	3.00		
			SME	m _B =5.4		7.0	1.11	MDJ	41.4	37	cP	03 33 58.0	0.3			
			LN	Ms=5.5		16.0	3.10				LZ	Ms=5.3	18.0	2.60		
			LE			16.0	8.43									
XAN	22.7	29	P	03 31 11.0	-1.8											
			S	03 35 19.0	4.0											
			LN	Ms=5.8		12.0	8.72									
			LE			12.0	10.3									
WHN	23.2	44	cP	03 31 18.5	0.5											
			sS	03 35 36.0	0.0											
			LN	Ms=5.6		12.0	7.50									
			LZ	Ms=5.2		14.0	4.00	QZH	19.5	339	cP	06 04 16.5	2.1			
QZH	23.7	60	cP	03 31 23.0	1.1						pP	06 04 27.0	0.4			
			cS	03 35 31.0	-1.5						sS	06 08 02.0	-2.0			
			sS	03 35 43.0	-0.2						LN	Ms=4.9	20.0	3.73		
			LN	Ms=5.0		10.0	1.84	QZN	20.0	309	+P	06 04 21.0	0.6			
GTA	25.0	7	+iP	03 31 36.0	0.5						S	06 08 01.0	4.8			
			PMZ	m _B =5.3		6.0	0.49				SS	06 08 31.0	4.3			
			LN	Ms=5.3		12.0	2.01				LN	Ms=5.0	16.0	2.90		
			LE			12.0	2.72				LE		17.0	2.50		
NJ2	27.2	46	+P	03 31 55.4	-0.3						GZH	20.4	324	P	06 04 24.0	-0.1
			S	03 36 33.0	1.4						pP	06 04 37.0	-0.4			
			LE	Ms=5.4		10.0	3.30				SMN	m _B =6.1	8.0	2.88		
			LZ	Ms=5.1		10.0	1.61				SME		9.0	3.62		
TIY	27.3	29	+P	03 31 56.0	-0.9						SSE	24.6	350	cP	06 05 07.5	1.4
			LZ	Ms=5.3		14.0	3.33				cpP	06 05 22.0	1.8			
BTO	28.7	23	cP	03 32 06.0	-3.5						PP	06 05 42.0	-1.1			
			cpP	03 32 15.0	-1.0						cPcP	06 08 44.0	1.6			
			LN	Ms=5.4		11.0	2.80				cS	06 09 20.0	0.1			
			LE			12.0	2.50				sS	06 09 46.0	1.6			
			LZ	Ms=5.3		12.0	2.90				LN	Ms=4.8	16.0	1.45		
HHC	29.6	24	cP	03 32 16.1	-0.7						LZ	Ms=5.0	20.0	2.80		
WMQ	30.1	348	+iP	03 32 22.0	0.8						NJ2	26.1	346	+P	06 05 18.5	-1.0
			cS	03 37 21.0	3.3						S	06 09 37.0	-5.7			
			LE	Ms=5.1		17.0	2.21				LE	Ms=5.1	8.0	1.40		
			LZ	Ms=5.1		16.0	2.18	WHN	26.1	336	P	06 05 22.2	2.2			

1987 11 16
 O = 05 59 49.8 ± 0.11s
 LAT = 6.78 N ± 1.08km
 LONG = 126.20 E ± 1.50km
 DEPTH = 63 km ± 0.72km
 STATIONS USED = 78, STAND DEV = 1.23s
 Ms = 5.0 / 40, m_B = 5.7 / 8

LONG = 163.53 W ± 1.12km
 DEPTH = 34 km ± 0.14km
 STATIONS USED = 47, STAND DEV = 0.71s
 Ms = 4.9 / 4,

CN2	46.0	288	+P	11 26 38.0	-0.7		
			epP	11 26 46.0	-2.3		
			eS	11 33 26.0	5.0		
			LZ	Ms=4.7	20.0	0.50	
SNY	48.3	287	+P	11 26 57.3	0.4		
BJI	53.7	290	eP	11 27 37.0	-0.5		
HHC	55.7	294	P	11 27 52.5	0.4		
BTO	56.7	295	eP	11 28 00.0	0.6		
SSE	57.1	279	+P	11 28 03.2	0.7		
			PMZ			1.0	0.020
			eS	11 35 54.0	0.2		
			csS	11 36 07.0	-2.9		
			LZ	Ms=4.8	20.0	0.47	
TIY	57.4	291	eP	11 28 04.6	0.2		
			pP	11 28 15.0	1.0		
			LZ	Ms=5.0	22.0	0.78	
NJ2	57.8	281	-P	11 28 06.0	-1.2		
WHN	61.5	283	P	11 28 33.0	0.2		
XAN	62.0	290	P	11 28 35.8	-0.4		
GTA	62.9	300	+iP	11 28 41.5	-0.8		
			LE	Ms=5.2	15.0	0.74	
LZH	63.3	295	P	11 28 45.0	0.2		
			PMZ			2.0	0.10
WMQ	65.4	311	P	11 28 58.6	0.3		
CD2	67.2	291	eP	11 29 10.4	0.3		
GYA	69.0	286	P	11 29 21.0	-0.2		
KMI	72.3	288	+P	11 29 41.0	-0.1		
LSA	74.9	300	eP	11 29 56.3	-0.6		

1987 11 16
 O = 12 07 42.1 ± 0.05s
 LAT = 33.14 N ± 1.11km
 LONG = 138.42 E ± 1.11km
 DEPTH = 298 km ± 0.84km
 STATIONS USED = 48, STAND DEV = 1.04s

MDJ	13.4	332	-iP	12 10 42.3	-0.1		
SNY	14.6	311	eP	12 10 56.4	-1.0		
CN2	14.7	320	-P	12 10 57.4	-1.0		
SSE	14.7	267	-P	12 10 59.2	0.3		
DL2	14.7	298	P	12 11 02.0	3.0		
NJ2	16.5	272	eP	12 11 16.6	-2.0		
TIA	17.8	286	P	12 11 31.1	-0.5		
BJI	19.1	297	eP	12 11 44.5	-0.6		
WHN	20.6	269	P	12 12 01.0	1.3		
TIY	21.6	290	+P	12 12 11.4	1.5		
			sP	12 13 38.0	1.1		

			eS	12 15 49.0	2.8		
HHC	22.7	298	eP	12 12 20.5	0.1		
BTO	23.8	296	eP	12 12 30.3	-0.5		
XAN	24.6	280	-P	12 12 37.0	-0.2		
GYA	28.3	265	P	12 13 10.0	-1.0		
			pP	12 14 07.4	0.2		
LZH	28.5	286	eP	12 13 12.5	-0.7		
CD2	29.4	275	-P	12 13 19.4	-1.3		
GTA	31.6	293	-P	12 13 38.8	-1.0		
			PcP	12 16 25.5	1.4		
LSA	40.2	278	P	12 14 52.5	-0.1		
WMQ	40.5	300	P	12 14 55.5	0.6		

1987 11 16
 O = 14 23 41.0 ± 0.07s
 LAT = 40.17 N ± 1.83km
 LONG = 63.11 E ± 1.11km
 DEPTH = 33 km ± 0.25km
 STATIONS USED = 28, STAND DEV = 1.41s
 Ms = 4.6 / 2,

KSH	9.9	90	eP	14 26 01.0	-3.8		
			eS	14 27 50.0	-6.5		
			LE	Ms=5.0	7.0	4.50	
WMQ	18.6	71	eP	14 27 56.5	-1.8		
LSA	25.2	106	eP	14 29 07.1	1.5		
GTA	28.1	80	+P	14 29 32.0	-0.3		
			LE	Ms=4.3	10.0	0.25	
CD2	34.1	93	eP	14 30 25.4	0.3		
XAN	36.7	85	P	14 30 47.5	0.0		
GYA	38.5	97	P	14 31 03.0	0.6		
CN2	45.5	64	eP	14 32 01.0	1.3		

1987 11 16
 O = 14 50 58.8 ± 0.06s
 LAT = 45.30 N ± 3.86km
 LONG = 149.95 E ± 1.55km
 DEPTH = 123 km ± 1.74km
 STATIONS USED = 19, STAND DEV = 1.42s

MDJ	14.4	275	eP	14 54 21.5	3.0		
CN2	17.5	274	eP	14 54 55.0	-1.8		
SNY	19.4	269	eP	14 55 17.2	-0.5		
BJI	25.3	270	eP	14 56 17.0	1.5		
			epP	14 56 45.0	4.1		
WHN	31.4	254	eP	14 57 13.0	2.1		
XAN	33.2	265	P	14 57 26.0	-0.3		
LZH	35.7	272	eP	14 57 47.5	-0.5		
			pP	14 58 16.5	1.6		
GTA	37.0	279	+P	14 57 58.9	0.0		
CD2	38.6	264	eP	14 58 11.4	-0.1		
			pP	14 58 39.2	0.5		

WMQ 43.4 291 cP 14 58 51.0 -0.3

1987 11 16

O=14 51 07.7 ± 0.36s
 LAT=45.16 N ± 5.49km
 LONG=151.83 E ± 4.63km
 DEPTH= 50 km
 STATIONS USED = 18, STAND DEV= 1.37s
 Ms=4.3/ 3,

SNY	20.7	271	-iP	14 55 45.6	-1.0		
			eS	14 59 35.0	5.1		
			LE	Ms=4.3	16.0	0.64	
			LZ	Ms=4.3	16.0	0.70	
TIA	27.6	263	cP	14 56 53.9	0.9		
TIY	30.2	270	cP	14 57 17.0	0.7		
			LZ	Ms=4.4	24.0	0.67	
BTO	30.7	276	cP	14 57 20.0	-0.8		
			eS	15 02 25.0	6.2		
GTA	38.4	280	+iP	14 58 27.0	0.8		
GYA	40.5	258	P	14 58 44.8	0.8		

1987 11 16

O=21 24 37.2 ± 0.05s
 LAT=23.86 N ± 1.66km
 LONG=122.86 E ± 1.47km
 DEPTH= 30 km ± 2.38km
 STATIONS USED = 14, STAND DEV= 1.28s
 M_L=3.6/ 8,

QZH	4.0	286	cPn	21 25 38.0	0.5		
			SMN	M _L =3.4	0.2	0.11	
			SME		0.2	0.060	
SSE	7.4	349	cP	21 26 25.5	0.0		
			SME	M _L =3.7	1.0	0.030	
GTA	24.9	314	P	21 30 00.0	0.5		

1987 11 16

O=21 34 04.8 ± 0.09s
 LAT=40.41 N ± 1.62km
 LONG= 63.78 E ± 1.24km
 DEPTH= 32 km ± 0.18km
 STATIONS USED = 19, STAND DEV= 1.92s
 Ms=4.9/ 1,

KSH	9.4	92	P	21 36 21.9	0.3		
			eS	21 38 06.0	-1.7		
			LN	Ms=4.9	4.0	2.50	
WMQ	18.1	71	cP	21 38 15.2	0.0		
			LN		2.5	0.11	
GTA	27.5	80	cP	21 39 53.2	2.0		
TIY	37.5	78	cP	21 41 20.6	2.7		
NJ2	44.6	83	cP	21 42 12.2	-3.9		

1987 11 17

O=03 40 08.7 ± 0.10s
 LAT=12.63 N ± 3.40km
 LONG= 87.01 W ± 2.18km
 DEPTH= 75 km ± 0.78km
 STATIONS USED = 66, STAND DEV= 1.46s
 Ms=6.5/ 37, m_B=6.0/ 5

MDJ	114.1	332	Pdif	03 54 48.0	-1.8		
			PP	03 59 36.0	-3.5		
			SKS	04 05 40.0	-2.3		
			S	04 07 08.0	-0.7		
			LZ	Ms=6.5	34.0	13.7	
CN2	116.5	334	PKP	03 58 44.0	-1.1		
			LZ	Ms=6.3	26.0	6.60	
SNY	118.9	334	+PKP	03 58 45.0	-4.8		
			PP	04 00 10.0	-3.6		
			LN	Ms=6.6	24.0	10.9	
			LE		26.0	4.90	
			LZ	Ms=6.6	24.0	11.2	
DL2	122.2	334	cPKP	03 58 55.5	-0.6		
			cPP	04 00 34.0	-1.3		
			LN	Ms=6.5	21.0	4.58	
			LE		22.0	6.23	
BJI	123.3	339	+PKP	03 58 58.0	-0.3		
			PP	04 00 38.0	-5.5		
			eSKS	04 05 55.0	-4.9		
			eSKKS	04 07 28.0			
			eSS	04 17 16.0	-4.1		
			LN	Ms=6.5	22.0	7.16	
			LE		22.0	3.78	
			LZ	Ms=6.8	34.0	23.7	
WMQ	123.6	5	PKP	03 58 58.3	-0.7		
			PP	04 00 42.0	-3.6		
			SKS	04 05 56.0	-4.4		
			SKKS	04 07 28.0			
			LN	Ms=7.0	28.0	30.0	
			LZ	Ms=6.9	27.0	24.1	
HHC	124.1	343	-PKP	03 59 01.0	1.1		
			SKS	04 06 01.0	-0.3		
			LN	Ms=6.5	23.0	4.49	
			LE		23.0	6.00	
BTO	124.7	344	PKP	03 59 01.0	-0.2		
			sPKP	03 59 23.0			
			PP	04 00 49.0	-3.4		
			SKKS	04 07 37.0			
			LN	Ms=6.6	30.0	13.3	
			LZ	Ms=6.7	30.0	15.6	
KSH	125.8	16	PKP	03 59 04.0	0.8		
			cPP	04 00 57.0	-2.9		

PMZ						1.0	0.070	LE													
GTA	34.4	8	+iP	08 45 14.0	-0.6			HHC	63.1	305	+P	08 57 18.5	-0.7								
NJ2	35.2	38	+iP	08 45 21.6	0.3						LN		$M_s=7.8$	22.0	339						
SSE	36.1	41	eP	08 45 28.7	0.3						LE			21.0	303						
TIY	36.3	25	+P	08 45 29.3	-1.6			BTO	63.9	306	+P	08 57 24.0	-0.9								
TIA	37.3	31	eP	08 45 38.6	-0.3						pP	08 57 30.0	0.0								
WMQ	38.9	352	+P	08 45 53.0	0.7						sP	08 57 33.0	0.5								
BJI	39.9	26	+eP	08 46 01.0	0.7						PP	08 59 48.5	2.2								
DL2	41.7	33	P	08 46 16.0	0.8						sS	09 06 10.0	1.8								
SNY	44.8	31	+iP	08 46 40.4	-0.3						ScS	09 07 15.0	0.7								
CN2	47.2	31	+P	08 46 58.4	-1.1						SS	09 10 10.0	1.9								
MDJ	49.9	33	+P	08 47 21.0	0.3						LN		$M_s=7.6$	16.0	185						
											LE			16.0	118						
											LZ		$M_s=7.5$	16.0	155						
1987 11 17								TIA	64.4	298	-P	08 57 28.5	0.5								
O=08 46 48.2 ± 0.10s											PMZ		$m_B=6.7$	5.0	5.14						
LAT=58.81 N ± 1.99km											SMN		$m_B=6.9$	12.0	13.7						
LONG=143.25 W ± 1.56km											SME			10.0	6.19						
DEPTH= 7 km ± 0.32km											LN		$M_s=7.6$	16.0	123						
STATIONS USED = 87, STAND DEV = 1.10s											LE			15.0	164						
$M_s=7.5/41,$											LZ		$M_s=7.3$	16.0	97.4						
$m_B=6.9/11$								TIY	65.3	302	-iP	08 57 34.6	0.9								
MDJ	52.0	295	+P	08 56 00.0	-0.6						PMZ			1.4	0.60						
			pP	08 56 05.0	-0.7						pP	08 57 39.0	0.2								
			sP	08 56 09.2	0.8						sP	08 57 45.0	3.7								
			PP	08 58 02.0	3.5						PP	09 00 02.0	3.5								
			SMN		$m_B=6.9$	9.0	15.9				PPMZ			24.0	14.6						
			LZ		$M_s=7.2$	22.0	159				sPP	09 00 12.0									
CN2	54.5	297	+iP	08 56 18.4	-1.2						SMN			22.0	49.2						
			PMZ		$m_B=7.2$	6.0	20.9				SS	09 10 36.0	6.4								
			pP	08 56 24.0	-0.7						LE		$M_s=7.6$	16.0	191						
			eS	09 03 53.0	-4.7						LZ		$M_s=7.2$	42.0	213						
			SMN		$m_B=7.1$	10.0	26.7				SSE	66.7	292	eP	08 57 42.8	0.2					
			LE		$M_s=7.4$	14.0	138							PMZ		$m_B=6.9$	6.0	9.08			
SNY	56.9	297	+iP	08 56 36.0	-0.9						pP	08 57 48.5	0.7								
			pP	08 56 42.0	-0.1						sP	08 57 52.0	1.7								
			sP	08 56 45.0	0.3						PP	09 00 16.0	5.6								
			PP	08 58 50.0	5.8						ScP	09 02 16.0	2.9								
			SMN		$m_B=7.0$	9.0	11.3				sS	09 06 41.0	-1.2								
			SME			10.0	12.7				cScS	09 07 36.0	0.6								
			LN		$M_s=7.4$	18.0	84.7				SS	09 10 50.0	-1.5								
			LE			21.0	193				LE		$M_s=7.3$	15.0	82.8						
			LZ		$M_s=7.3$	16.0	119				NJ2	67.0	294	+P	08 57 44.0	-0.7					
DL2	60.1	296	eP	08 57 00.0	0.6									PcP	08 58 13.5	1.3					
			PP	08 59 17.0	3.8									S	09 06 33.0	-3.3					
			S	09 05 16.0	5.5									SME		$m_B=7.0$	11.0	15.9			
			LN		$M_s=7.6$	16.0	96.4							LE		$M_s=7.6$	17.0	210			
			LE			18.0	239							GTA	69.1	312	+P	08 57 56.5	-1.2		
			LZ		$M_s=7.3$	16.0	119											PP	09 00 29.0	-2.5	
BJI	61.7	301	eP	08 57 09.0	-1.1													iS	09 06 57.0	-5.3	
			csP	08 57 18.0	0.2																
			SMN			14.0	20.6														
			LN		$M_s=7.7$	14.0	138														

XAN	69.9	303	cP	09 49 21.2	-1.0
CD2	74.8	305	cP	09 49 51.8	0.5
GYA	77.4	300	P	09 50 06.8	0.8

1987 11 17

O=13 26 11.8 ± 0.05s
 LAT=59.20 N ± 1.12km
 LONG=135.01 W ± 0.78km
 DEPTH= 9 km ± 0.11km
 STATIONS USED = 20, STAND DEV= 1.10s

NJ2	70.7	300	cP	13 37 29.6	-0.8
GTA	71.8	318	+P	13 37 36.6	-0.9
LZH	73.3	314	cP	13 37 46.0	-0.5

1987 11 17

O=15 57 24.2 ± 0.13s
 LAT=34.26 N ± 1.30km
 LONG=131.54 E ± 1.41km
 DEPTH= 23 km ± 0.16km
 STATIONS USED = 53, STAND DEV= 1.65s

Ms=4.8 / 22,

SSE	9.3	253	cP	15 59 39.4	-0.4		
			LN		Ms=4.7	12.0	3.89
			LE			12.0	1.64
SNY	9.8	323	+P	15 59 48.8	1.5		
			LN		Ms=4.9	10.0	3.40
			LE			10.0	4.92
MDJ	10.5	352	cP	15 59 58.5	2.4		
			pP	16 00 01.7	-0.7		
			LZ		Ms=4.5	10.0	2.20
CN2	10.6	335	-P	15 59 59.6	1.0		
			pP	16 00 03.0	-1.9		
			cS	16 02 04.0	5.9		
			LZ		Ms=4.9	11.0	4.90
NJ2	10.9	262	+P	16 00 04.4	2.8		
			LE		Ms=4.6	9.0	2.20
TIA	11.9	283	cP	16 00 18.3	1.9		
			LN		Ms=4.8	12.0	2.87
			LE			12.0	2.71
BJI	13.5	300	cP	16 00 35.5	-2.1		
			LN		Ms=4.7	10.0	2.32
WHN	15.0	260	cP	16 01 00.0	3.4		
			sS	16 03 54.0	1.5		
			LN		Ms=4.9	11.0	3.10
TIY	15.8	288	cP	16 01 07.4	-0.4		
			LN		Ms=4.6	10.0	0.70
			LE			11.0	1.17
			LZ		Ms=4.7	14.0	2.50
HHC	17.1	298	cP	16 01 24.0	-0.2		
BTO	18.2	297	P	16 01 37.4	-0.2		

			cS	16 04 57.0	-0.4		
			LE		Ms=4.7	13.0	1.50
			LZ		Ms=4.8	12.0	1.90
XAN	18.7	276	P	16 01 42.9	-1.0		
			LN		Ms=4.8	12.0	1.54
			LE			10.0	0.65
LZH	22.7	283	cP	16 02 24.5	-1.4		
			PMZ			1.5	0.040
			cS	16 06 22.0	-6.5		
			LN		Ms=4.8	22.0	2.50
GYA	22.8	257	P	16 02 27.6	0.8		
			pP	16 02 31.8	-2.1		
			LN		Ms=5.0	10.0	1.40
			LE			10.0	0.90
CD2	23.6	270	cP	16 02 33.3	-1.5		
			sS	16 06 55.5	-1.0		
			LN		Ms=5.0	10.0	1.60
			LZ		Ms=5.0	10.0	1.57
GTA	25.8	291	P	16 02 54.5	-1.7		
			cS	16 07 27.0	4.6		
			LN		Ms=5.1	16.0	2.62
KMI	26.5	258	-P	16 03 03.0	0.1		
			pP	16 03 07.0	-3.0		
			LN		Ms=4.7	11.0	0.80
WMQ	35.0	299	-iP	16 04 16.0	-1.6		
			LN		Ms=5.2	21.0	2.67

1987 11 17

O=20 59 48.0 ± 0.14s
 LAT=24.15 N ± 1.63km
 LONG=122.00 E ± 1.99km
 DEPTH= 25 km ± 0.64km
 STATIONS USED = 24, STAND DEV= 2.08s

M_L=4.0 / 17,

QZH	3.2	285	-iPn	21 00 37.1	-0.2		
			SMN		M _L =3.8	0.4	0.42
			SME			0.3	0.25
SSE	7.0	354	cP	21 01 31.0	-0.1		
			SME		M _L =3.9	1.1	0.060
GZH	8.0	264	cP	21 01 45.0	-0.8		
			SMN		M _L =4.0	1.0	0.060
			SME			1.0	0.030
NJ2	8.3	341	+iP	21 01 48.6	-1.9		
			cS	21 03 18.0	-6.9		
			SMN		M _L =4.3	1.0	0.064
XAN	15.1	314	P	21 03 26.3	4.8		
CD2	17.5	297	cP	21 03 53.5	1.0		
GTA	24.1	314	cP	21 05 03.4	-0.2		

1987 11 18

O = 00 07 05.1 ± 0.05s
 LAT = 46.95 N ± 1.78km
 LONG = 151.91 E ± 0.96km
 DEPTH = 119 km ± 0.46km
 STATIONS USED = 44, STAND DEV = 0.99s

MDJ	15.7	270	cP	00 10 41.5	0.0
CN2	18.8	270	+P	00 11 15.0	-3.3
BJI	26.7	268	cP	00 12 37.0	2.0
XAN	34.7	264	+P	00 13 45.5	-0.5
LZH	37.1	271	+P	00 14 06.5	0.6
GTA	38.1	278	P	00 14 15.1	0.3
		LN		11.0	0.37
CD2	40.1	264	+P	00 14 31.4	0.6
		PMZ		1.0	0.12
GYA	41.0	256	P	00 14 38.2	0.1
WMQ	44.1	290	cP	00 15 03.8	0.2
LSA	49.4	272	+P	00 15 47.0	1.0
KSH	53.8	292	cP	00 16 19.0	0.3

1987 11 18
 O = 00 54 14.2 ± 0.10s
 LAT = 25.39 N ± 1.05km
 LONG = 106.56 E ± 1.30km
 DEPTH = 3 km ± 0.36km
 STATIONS USED = 15, STAND DEV = 2.59s
 Ms = 4.2 / 3, ML = 4.0 / 5,

GYA	1.1	5	Pg	00 54 34.0	0.7
			Sg	00 54 48.6	0.9
			LN		3.0 8.80
			LE		3.0 15.0
CD2	6.0	336	cPn	00 55 47.2	2.6
			Pg	00 56 03.0	2.4
			SMN	ML = 4.4	1.4 0.36
			SME		0.8 0.19
			LN	Ms = 4.4	6.0 2.28
			LZ	Ms = 4.2	6.0 1.46
QZN	7.0	154	cPn	00 55 57.4	-0.7
			LE	Ms = 3.8	9.0 0.70
XAN	8.9	13	P	00 56 24.0	-2.3

1987 11 18
 O = 01 33 60.0 ± 0.09s
 LAT = 8.13 S ± 1.59km
 LONG = 108.75 E ± 1.72km
 DEPTH = 67 km ± 0.68km
 STATIONS USED = 63, STAND DEV = 1.42s
 Ms = 4.9 / 19,

KMI	33.6	350	+P	01 40 37.5	1.2
			sP	01 40 57.0	-3.2
			cS	01 45 51.0	-2.2

			LE		Ms = 5.0		
GYA	34.4	357	P	01 40 43.8	0.1		
			PcP	01 43 18.4	1.1		
			sS	01 46 37.0	3.3		
			ScP	01 46 56.4	1.1		
			ScS	01 50 57.0	0.3		
			LN		Ms = 4.9	20.0	1.20
			LE			20.0	0.80
WHN	38.8	8	cP	01 41 21.0	0.6		
			LZ		Ms = 4.7	28.0	1.10
CD2	39.1	353	cP	01 41 22.6	-0.3		
			LE		Ms = 5.3	7.0	0.96
SSE	40.8	16	cP	01 41 37.5	0.8		
			pP	01 41 52.0	-0.9		
			cS	01 47 40.0	-2.6		
			LZ		Ms = 4.8	20.0	0.94
NJ2	41.1	13	-P	01 41 40.4	1.1		
			PcP	01 43 38.2	0.4		
			ScP	01 47 21.4	1.1		
			LZ		Ms = 4.7	36.0	1.29
LSA	41.2	336	-P	01 41 39.3	-1.7		
XAN	41.9	0	P	01 41 45.5	-0.7		
			S	01 47 58.0	-0.8		
			LE		Ms = 5.0	11.0	0.69
LZH	44.2	354	cP	01 42 05.0	0.1		
			pP	01 42 17.0	-4.1		
			cS	01 48 32.0	-1.4		
TIA	44.8	10	cP	01 42 08.4	-1.0		
TIY	45.7	4	+P	01 42 17.0	0.1		
			LE		Ms = 4.8	12.0	0.41
			LZ		Ms = 4.9	42.0	2.01
GTA	48.0	351	P	01 42 34.5	-0.5		
			ScP	01 47 49.0	0.4		
			ScS	01 52 17.3	-0.6		
			LN		Ms = 5.0	17.0	0.84
			LZ		Ms = 5.0	20.0	1.12
BJI	48.4	8	cP	01 42 36.5	-1.3		
			PcP	01 44 03.0	0.0		
			ScP	01 47 50.0	-0.2		
			cS	01 49 28.0	-4.7		
			cSS	01 53 04.0	6.5		
			LN		Ms = 4.7	32.0	0.77
			LZ		Ms = 4.8	32.0	1.01
BTO	48.5	1	+iP	01 42 38.6	0.0		
			cPP	01 44 30.0	-1.3		
			LN		Ms = 5.1	15.0	0.80
			LE			15.0	0.50
			LZ		Ms = 5.1	15.0	1.00
HHC	48.8	3	P	01 42 41.4	0.4		
SNY	51.5	14	cP	01 43 03.0	1.3		

			cS	01 50 10.0	-6.1		
			LN		Ms=4.9	30.0	0.88
			LE			30.0	0.71
			LZ		Ms=4.8	30.0	0.87
CN2	53.9	15	+P	01 43 15.5	-3.5		
WMQ	55.1	342	+P	01 43 27.1	-1.1		
			PcP	01 44 28.5	0.7		
			ScP	01 48 20.5	1.5		
			ScS	01 53 09.0	2.3		
			LE		Ms=5.0	28.0	1.22
MDJ	55.8	18	cP	01 43 36.0	3.1		
KSH	56.2	330	cP	01 43 34.8	-1.7		
			eS	01 51 18.0	-1.9		
			esS	01 51 47.0	-1.6		
			eScS	01 53 14.0	-0.8		

1987 11 18
 O=05 24 55.7 ± 0.08s
 LAT=13.62 N ± 1.19km
 LONG=120.92 E ± 1.66km
 DEPTH=144 km ± 0.36km
 STATIONS USED = 57, STAND DEV= 1.23s

$m_B = 4.9 / 1$

QZN	11.9	298	eP	05 27 42.4	0.4		
			eS	05 29 53.3	0.8		
			LN			14.0	1.00
SSE	17.4	1	cP	05 28 51.8	0.8		
			eS	05 32 04.0	5.9		
WHN	17.9	341	P	05 28 58.5	1.5		
			SME		$m_B = 4.9$	8.0	0.30
NJ2	18.4	354	-P	05 29 03.8	0.9		
GYA	18.5	316	P	05 29 04.0	0.5		
KMI	20.6	306	+P	05 29 26.0	0.6		
TIA	22.8	352	cP	05 29 47.1	0.6		
XAN	23.1	334	+P	05 29 49.3	-0.2		
			S	05 33 46.0	0.5		
CD2	23.4	320	cP	05 29 52.0	-0.4		
TIY	25.2	344	cP	05 30 07.3	-2.2		
BJI	26.6	352	cP	05 30 23.0	-0.1		
			eS	05 34 44.0	-2.0		
LZH	27.1	329	+iP	05 30 27.0	-0.7		
HHC	28.3	345	cP	05 30 38.3	-0.3		
BTO	28.5	342	cP	05 30 36.4	-3.9		
GTA	31.7	328	+iP	05 31 08.1	-0.4		
LSA	31.8	305	+P	05 31 08.8	-1.0		
WMQ	41.4	323	+P	05 32 29.9	0.2		
KSH	47.1	312	P	05 33 17.0	1.6		
			cPP	05 35 04.0	-3.2		

1987 11 18

			O=06 18 48.1	± 0.09s		
			LAT=59.05 N	± 2.55km		
			LONG=143.76 W	± 1.22km		
			DEPTH= 12 km	± 0.29km		
			STATIONS USED = 19,	STAND DEV = 1.56s		
			$M_s = 5.6 / 5,$			
MDJ	51.6	295	cP	06 27 57.0	-0.2	
CN2	54.2	297	cP	06 28 16.0	-0.2	
			sP	06 28 23.0	-1.9	
GTA	68.7	312	P	06 29 54.8	0.2	
			eS	06 38 58.5	1.9	
			LN		Ms=5.6	20.0 2.37
			LZ		Ms=5.7	20.0 3.12
WMQ	69.1	323	cP	06 29 55.0	-1.7	
			LZ		Ms=5.5	18.0 1.53
XAN	69.6	302	cP	06 29 59.0	-0.7	
			LN		Ms=5.6	12.0 1.03
			LE			12.0 1.03
LZH	70.0	307	cP	06 29 58.5	-3.9	
			LN		Ms=6.0	16.0 3.79
			LE			16.0 1.54
CD2	74.5	304	cP	06 30 30.0	1.0	
GYA	77.1	300	P	06 30 46.4	2.6	
			pP	06 30 52.0	2.6	
LSA	80.6	314	P	06 31 05.5	2.1	

1987 11 18
 O=06 36 16.4 ± 0.08s
 LAT= 9.66 S ± 1.31km
 LONG=119.66 E ± 1.39km
 DEPTH= 55 km ± 0.21km
 STATIONS USED = 22, STAND DEV= 0.95s

$M_s = 6.0 / 3,$

WHN	40.3	353	P	06 43 52.0	1.7	
NJ2	41.5	359	-P	06 44 01.5	1.4	
CD2	43.1	340	+P	06 44 13.8	0.1	
			PMZ			0.8 0.050
XAN	44.6	347	P	06 44 25.2	-0.7	
BJI	49.5	356	cP	06 45 03.0	-1.3	
BTO	50.8	351	cP	06 45 13.0	-1.0	
			eS	06 52 20.0	-4.2	
			LN		Ms=6.0	15.0 5.70
			LE			15.0 3.80
			LZ		Ms=6.0	15.0 6.70
GTA	52.2	341	P	06 45 24.4	-0.1	

1987 11 18
 O=07 13 17.3 ± 0.05s
 LAT=58.78 N ± 0.83km
 LONG=143.43 W ± 0.60km

DEPTH = 5 km ± 0.43km					TIY	16.1	325	+P	12 08 32.1	2.6		
STATIONS USED = 21, STAND DEV = 0.90s								sP	12 09 00.0	-3.5		
Ms = 5.3 / 2,								LE		11.0 0.37		
GTA	69.0	312	P	07 24 26.0	-0.8	BJI	16.4	338	eP	12 08 34.5	0.9	
			LE	Ms = 5.3	13.0	0.67	SNY	16.9	359	+P	12 08 39.0	0.2
			LZ	Ms = 5.3	20.0	1.25	CD2	18.8	293	-iP	12 09 00.8	-1.0
CD2	74.8	305	eP	07 25 01.0	0.0				LN		6.0 1.18	
GYA	77.3	300	P	07 25 16.0	0.4	CN2	18.9	3	-iP	12 09 02.0	-0.2	
1987 11 18						HHC	19.0	330	P	12 09 03.5	0.2	
O = 08 16 39.4				± 0.13s		KMI	19.2	275	eP	12 09 08.0	1.5	
LAT = 26.85 N				± 1.09km		BTO	19.5	327	P	12 09 08.0	-1.1	
LONG = 106.05 E				± 1.10km					pP	12 09 27.5	-2.8	
DEPTH = 18 km				± 0.32km					eS	12 12 35.0	-3.2	
STATIONS USED = 7, STAND DEV = 3.87s						LZH	20.6	307	eP	12 09 20.0	-0.1	
				M _L = 3.4 / 2,					PMZ		1.5 0.060	
GYA	0.7	125	Pg	08 16 52.0	0.1	GTA	24.9	311	P	12 10 01.0	-1.6	
			Sg	08 17 06.4	5.2	WMQ	35.0	312	+iP	12 11 31.6	-0.3	
			LN		3.0	2.20			pP	12 11 59.9	1.5	
			LE		3.0	3.90	KSH	42.6	302	eP	12 12 36.0	0.7
KMI	3.4	241	ePg	08 17 41.0	0.5	1987 11 18						
			Sg	08 18 27.5	0.2	O = 12 27 59.5			± 0.08s			
XAN	7.6	18	Pg	08 18 50.4	-3.0	LAT = 19.19 S			± 1.04km			
1987 11 18						LONG = 169.97 E			± 0.68km			
O = 12 04 48.8				± 0.06s		DEPTH = 59 km			± 1.04km			
LAT = 24.94 N				± 1.02km		STATIONS USED = 17, STAND DEV = 1.20s						
LONG = 123.97 E				± 0.72km		CN2	74.8	328	eP	12 39 35.6	-0.3	
DEPTH = 121 km				± 0.65km		BJI	77.3	321	eP	12 39 50.5	0.1	
STATIONS USED = 72, STAND DEV = 1.15s						KMI	78.8	302	+P	12 40 00.0	1.1	
QZH	4.9	271	eP	12 06 00.0	-1.5	CD2	80.8	307	eP	12 40 09.4	0.3	
			SMN		0.9	0.31	GTA	87.6	313	P	12 40 43.7	0.2
			SME		0.9	0.31	1987 11 18					
SSE	6.6	339	-P	12 06 24.5	-0.4		O = 12 46 44.7		± 0.25s			
			PMZ		0.8	0.36	LAT = 26.27 S		± 1.62km			
			eS	12 07 40.0	0.7		LONG = 70.59 W		± 3.04km			
			LE		1.4	0.32	DEPTH = 35 km		± 1.99km			
NJ2	8.4	329	+iP	12 06 48.4	-0.7		STATIONS USED = 42, STAND DEV = 1.69s					
			S	12 08 20.8	-1.7		Ms = 6.7 / 2,					
GZH	9.9	261	eP	12 07 10.0	1.0	KSH	149.2	56	PKP	13 06 31.0	4.6	
WHN	10.2	305	eP	12 07 14.5	1.5				ePP	13 10 00.0	-4.3	
			esP	12 07 47.0	2.6				eSKKS	13 16 52.0		
			eS	12 09 05.0	-0.7				LN	Ms = 6.9	13.0 8.20	
			LN		8.0	1.40	LSA	163.5	74	ePKP	13 06 45.0	0.0
TIA	12.7	334	eP	12 07 47.8	1.7		GTA	164.6	29	-iPKP	13 06 45.5	-0.3
			LN		7.0	0.29			PKP ₂	13 07 41.0		
			LE		7.0	0.50	BJI	165.2	339	ePKP	13 06 45.0	-1.2
GYA	15.7	279	P	12 08 28.0	3.5		TIA	168.1	328	ePKP	13 06 48.6	0.3
			sP	12 09 03.0	4.8		TIY	168.3	348	PKP	13 06 49.0	0.5
XAN	15.9	308	P	12 08 28.0	0.5							

			sP	16 31 51.0	0.7				SNY	28.9	358	+iP	16 33 03.0	-0.6			
			iS	16 35 24.0	4.3							PMZ			14.0	5.07	
			SMN	$m_B = 6.7$	10.0	29.3						pP	16 33 11.0	0.0			
			LE	$M_s = 6.0$	15.0	34.7						SMN	$m_B = 6.4$	6.0	5.19		
			LZ	$M_s = 6.1$	22.0	60.6						LN	$M_s = 6.2$	20.0	33.0		
GYA	21.8	311	+P	16 31 57.0	-0.4							LE		20.0	25.1		
			PMZ	$m_B = 6.2$	7.0	7.70						LZ	$M_s = 6.3$	20.0	45.3		
			pP	16 32 05.6	1.1				LZH	29.9	324	+iP	16 33 13.5	0.3			
			LN	$M_s = 6.5$	16.0	64.9						PMZ	$m_B = 6.4$	6.0	3.89		
			LE		16.0	84.6						LN	$M_s = 6.5$	16.0	39.8		
KMI	24.2	303	+iP	16 32 21.5	0.6							LE		18.0	37.2		
			sP	16 32 35.0	3.7				HHC	30.2	340	-iP	16 33 16.4	0.4			
			PP	16 33 00.0	5.0							S	16 38 13.5	1.3			
			LZ	$M_s = 6.6$	20.0	127						LN	$M_s = 6.2$	15.0	20.9		
TIA	24.3	344	+P	16 32 21.7	0.5							LE		12.5	9.41		
			PMZ	$m_B = 6.4$	5.5	8.31			BTO	30.6	337	+iP	16 33 18.5	-0.4			
			SMN	$m_B = 6.6$	12.0	12.7						PMZ	$m_B = 6.4$	6.0	4.50		
			SME		12.0	16.2						pP	16 33 26.0	-0.2			
			LN	$M_s = 6.0$	12.0	15.9						cPP	16 34 18.5	0.0			
			LE		12.0	10.3						sS	16 38 28.5	-2.3			
XAN	25.6	328	P	16 32 35.0	1.0							SS	16 39 56.0	-2.5			
			PMZ	$m_B = 6.4$	8.0	8.27						LN	$M_s = 6.1$	13.0	15.0		
			sP	16 32 48.5	3.8							LE		13.0	10.1		
			S	16 36 59.5	1.8							LZ	$M_s = 6.0$	14.0	14.1		
			LN	$M_s = 6.4$	16.0	45.2			CN2	30.8	1	+iP	16 33 20.0	-1.1			
			LE		16.0	39.9						PMZ	$m_B = 6.3$	5.0	2.60		
DL2	26.1	354	+iP	16 32 38.0	-0.4							pP	16 33 27.0	-1.4			
			S	16 37 03.0	-2.6							cS	16 38 21.0	-1.3			
			LN	$M_s = 6.2$	14.0	15.5						SMN	$m_B = 6.3$	7.0	4.10		
			LE		14.0	29.1						LZ	$M_s = 6.2$	17.0	30.0		
CD2	26.5	316	+iP	16 32 41.8	-0.7				MDJ	31.9	6	-P	16 33 30.5	0.1			
			PMZ		1.4	0.53						sP	16 33 39.0	-2.2			
			iS	16 37 10.0	-3.7							PP	16 34 32.0	-3.6			
			LE	$M_s = 6.6$	17.0	99.3						iS	16 38 37.0	-2.0			
			LZ	$M_s = 5.7$	17.0	12.0						SS	16 40 30.0	0.2			
TIY	27.1	338	+iP	16 32 48.0	-0.1							LZ	$M_s = 6.0$	16.0	16.3		
			PMZ	$m_B = 6.3$	10.0	6.02			GTA	34.5	325	+iP	16 33 53.1	-0.3			
			pP	16 32 56.0	0.6							PMZ	$m_B = 6.4$	7.0	4.66		
			PP	16 33 35.0	1.0							PcP	16 36 28.4	0.8			
			LE	$M_s = 6.2$	15.0	28.6						iS	16 39 19.0	-1.2			
			LZ	$M_s = 6.2$	16.0	35.7						ScP	16 40 12.2	2.1			
BJI	28.1	346	+iP	16 32 56.0	-1.1							SS	16 41 28.0	-2.5			
			PMZ		14.0	5.48						ScS	16 44 11.6	0.1			
			iS	16 37 38.0	-1.6							LE	$M_s = 6.3$	16.0	26.0		
			sS	16 37 51.0	-1.0							LZ	$M_s = 6.2$	20.0	28.9		
			ScS	16 43 39.0	-1.0				LSA	35.5	304	P	16 34 01.5	-0.5			
			SMN	$m_B = 6.6$	6.0	2.95						iS	16 39 33.0	-2.8			
			SME		7.0	8.73						LE	$M_s = 6.4$	18.0	35.8		
			LE	$M_s = 6.1$	15.0	21.8			WMQ	44.4	321	+iP	16 35 16.1	0.8			
			LZ	$M_s = 5.7$	16.0	10.3						PMZ	$m_B = 6.8$	5.0	7.40		

	PcS	16 40 49.0	-1.7	
	ScS	16 45 10.5	1.7	
	LE	Ms=6.6	17.0	36.3
	LZ	Ms=6.4	20.0	31.5
KSH	50.5 311 +iP	16 36 05.0	1.6	
	sP	16 36 15.0	0.9	
	PP	16 38 01.0	1.9	
	iS	16 43 20.0	4.7	
	ScS	16 45 54.0	5.1	
	LE	Ms=6.7	15.0	37.7

1987 11 18

O=17 04 17.9 ± 0.06s
 LAT=51.37 N ± 1.94km
 LONG=174.23 W ± 1.11km
 DEPTH= 28 km ± 0.65km
 STATIONS USED = 24, STAND DEV = 1.09s

SNY	42.6 282 +P	17 12 14.2	0.5	
NJ2	51.7 275 eP	17 13 22.2	-2.8	
TIY	51.9 285 eP	17 13 27.6	0.8	
WHN	55.5 277 eP	17 13 54.5	1.1	
XAN	56.5 284 eP	17 14 00.0	-0.3	
GTA	58.2 295 -P	17 14 11.8	-0.9	
CD2	61.8 285 -iP	17 14 36.8	-0.3	
GYA	63.2 279 eP	17 14 47.0	0.5	

1987 11 19

O=04 08 00.8 ± 0.10s
 LAT= 0.75 S ± 1.26km
 LONG=133.61 E ± 2.30km
 DEPTH= 43 km ± 1.06km
 STATIONS USED = 33, STAND DEV = 2.03s

SSE	33.8 341 eP	04 14 39.5	-1.7	
	cS	04 20 02.0	1.0	
NJ2	35.5 338 eP	04 14 56.5	0.8	
WHN	36.1 331 eP	04 15 02.0	1.0	
XAN	41.7 329 P	04 15 49.5	2.3	
CD2	42.4 321 eP	04 15 56.0	2.9	
TIY	43.0 335 eP	04 15 58.6	0.5	
BJI	43.6 341 P	04 16 02.0	-1.1	
	eS	04 22 28.0	-1.1	
MDJ	45.3 356 eP	04 16 16.0	-0.8	
HHC	46.0 337 eP	04 16 21.4	-1.0	
BTO	46.4 335 eP	04 16 30.0	4.3	
GTA	50.5 326 eP	04 16 55.0	-2.7	
LSA	50.5 310 eP	04 16 57.0	-1.0	
WMQ	60.3 323 eP	04 18 08.2	-0.3	

1987 11 19

O=14 30 29.9 ± 0.04s

LAT=59.87 N ± 1.28km
 LONG= 30.14 W ± 1.09km
 DEPTH= 13 km ± 0.28km
 STATIONS USED = 19, STAND DEV = 0.76s

GTA	72.8 38 P	14 42 00.0	-1.3	
BTO	74.6 30 eP	14 42 12.0	0.2	
CN2	74.8 18 eP	14 42 11.6	-0.7	
BJI	76.6 26 eP	14 42 23.0	0.0	
XAN	80.5 33 P	14 42 44.0	-0.4	
CD2	81.9 39 eP	14 42 52.0	0.4	
GYA	87.0 38 P	14 43 18.4	1.3	

1987 11 19

O=15 17 44.2 ± 0.08s
 LAT=32.93 N ± 0.67km
 LONG=104.56 E ± 0.73km
 DEPTH= 16 km ± 0.29km
 STATIONS USED = 8, STAND DEV = 1.79s

$M_L = 3.2 / 6,$

CD2	2.1 199 Pn	15 18 20.8	1.1	
	Pg	15 18 23.0	1.1	
	Sn	15 18 47.6	0.0	
	Sg	15 18 50.8	-0.2	
	SMN	$M_L = 3.3$	0.8	0.18
	SME		0.6	0.23
LZH	3.2 350 ePg	15 18 41.0	0.0	
	eSg	15 19 23.5	-1.0	
	SMN	$M_L = 3.1$	1.0	0.050
	SME		1.0	0.070
XAN	3.8 72 Pn	15 18 41.5	-1.3	
	Pg	15 18 51.8	0.3	
	Sn	15 19 25.2	-4.0	
	Sg	15 19 37.7	-5.9	
	SMN	$M_L = 3.3$	0.6	0.070
	SME		0.6	0.070
GYA	6.7 164 Pn	15 19 23.0	0.3	

1987 11 19

O=16 15 33.1 ± 0.10s
 LAT=24.36 N ± 1.49km
 LONG=142.83 E ± 2.02km
 DEPTH= 41 km ± 0.22km
 STATIONS USED = 93, STAND DEV = 1.32s
 $M_s = 5.6 / 46,$

SSE	20.3 294 +P	16 20 08.5	0.3	
	PMZ		1.0	0.13
	pP	16 20 18.0	0.1	
	PP	16 20 31.0	2.6	
	sS	16 24 04.0	1.0	
	LF	$M_s = 5.6$	16.0	12.3

			LZ	Ms = 5.9	18.0	34.0				PP	16 22 51.0	-0.4		
QZH	22.0	277	+P	16 20 26.0	0.0					S	16 26 51.0	1.7		
			pP	16 20 37.0	0.8					LN	Ms = 5.7	14.0	6.16	
			LN	Ms = 5.7	20.0	13.1				LE		14.0	5.14	
			LE		20.0	13.6			QZN	31.1	267	-P	16 21 52.2	2.3
NJ2	22.4	295	+P	16 20 30.5	0.5					ePP	16 22 57.5	5.4		
			S	16 24 28.0	-0.2					eS	16 26 53.0	2.1		
			LE	Ms = 5.8	16.0	18.2				LE	Ms = 5.5	20.0	6.70	
			LZ	Ms = 5.2	20.0	5.19			BTO	31.8	309	cP	16 21 55.4	-1.5
MDJ	22.9	335	cP	16 20 34.0	-0.6					cpP	16 22 08.0	0.8		
			pP	16 20 45.0	0.2					cPP	16 23 01.5	-0.7		
			sP	16 20 49.5	0.0					cS	16 27 01.0	-2.4		
			iS	16 24 40.0	2.8					LN	Ms = 5.7	16.0	6.30	
			SS	16 25 25.0	3.5					LE		16.0	4.90	
			LZ	Ms = 6.0	16.0	28.2				LZ	Ms = 5.7	17.0	7.80	
DL2	23.1	314	P	16 20 38.7	2.4				GYA	32.7	281	+P	16 22 04.0	-0.1
			LE	Ms = 5.5	14.0	7.28				PP	16 23 18.0	4.9		
SNY	23.6	322	+iP	16 20 39.0	-2.8					ScP	16 28 25.0	-2.7		
			S	16 24 44.0	-5.5					LN	Ms = 5.8	18.0	3.70	
			LZ	Ms = 5.4	21.0	7.96				LE		18.0	9.60	
CN2	24.1	328	+P	16 20 46.0	0.2				CD2	35.1	290	+P	16 22 24.1	-0.8
			pP	16 20 55.0	-1.1					LE	Ms = 5.8	15.0	8.05	
			LZ	Ms = 5.8	18.0	17.8				LZ	Ms = 5.7	15.0	6.55	
TIA	25.1	304	+P	16 20 54.0	-1.6				LZH	35.4	298	cP	16 22 27.0	-1.0
			sP	16 21 09.8	-0.7					PMZ		1.5	0.22	
			LN	Ms = 5.6	16.0	5.84				pP	16 22 39.0	0.5		
			LE		16.0	8.44				cS	16 27 56.0	-3.4		
			LZ	Ms = 5.3	16.0	4.88				LN	Ms = 5.7	16.0	3.09	
WHN	26.0	290	-iP	16 21 04.0	0.0					LE		18.0	6.69	
			pP	16 21 14.5	0.2				KMI	36.3	280	+P	16 22 36.5	0.9
			sP	16 21 20.0	0.9					LN	Ms = 5.4	18.0	3.30	
			LN	Ms = 5.4	14.0	5.00				LZ	Ms = 5.7	21.0	9.00	
			LZ	Ms = 5.6	20.0	11.2			GTA	39.1	303	+P	16 22 57.2	-1.5
GZH	27.0	273	-P	16 21 15.0	1.4					PP	16 24 27.0	-5.4		
			SME		14.0	3.67				LE	Ms = 5.6	16.0	4.36	
BJI	27.3	311	P	16 21 14.5	-1.8					LZ	Ms = 5.7	16.0	5.20	
			PMZ		2.0	0.18			LSA	46.0	288	+P	16 23 55.4	-0.2
			SME		14.0	2.98				LN	Ms = 5.4	19.0	2.55	
			LN	Ms = 5.2	15.0	3.31			WMQ	48.7	308	+iP	16 24 15.2	-0.5
			LZ	Ms = 5.5	17.0	6.55				PMZ		1.5	0.29	
TIY	29.1	304	cP	16 21 31.2	-1.4					sP	16 24 32.0	1.0		
			sP	16 21 47.0	-0.6					PcP	16 25 44.0	4.0		
			SS	16 27 49.0	-1.4					LN	Ms = 5.9	14.0	2.23	
			LE	Ms = 5.6	15.0	6.43				LE		16.0	5.79	
			LZ	Ms = 5.7	19.0	11.1				LZ	Ms = 5.9	19.0	7.14	
HHC	30.8	310	P	16 21 46.2	-1.8				KSH	57.5	302	cP	16 25 22.5	1.2
			PP	16 22 56.0	6.8					pP	16 25 35.0	2.8		
			LN	Ms = 5.6	15.0	5.23				cS	16 33 16.0	1.7		
			LE		15.0	2.87				sS	16 33 34.0	1.3		
XAN	31.0	296	P	16 21 48.7	-0.8					LE	Ms = 6.1	16.0	8.20	

1987 11 19

O=16 30 58.4 ± 0.05s
 LAT=21.82 S ± 2.68km
 LONG=138.98 W ± 3.15km
 DEPTH= 0 km ± 0.25km

STATIONS USED = 28, STAND DEV = 1.10s

XAN	119.7	298	cPKP	16 49 52.0	0.3
GYA	120.5	289	+PKP	16 49 54.4	1.1
CD2	123.7	293	cPKP	16 49 59.0	-0.4
LZH	124.1	300	cPKP	16 50 00.0	-0.3
GTA	127.3	304	-iPKP	16 50 07.2	0.6
WMQ	135.8	311	-PKP	16 50 22.5	0.1
KSH	145.4	309	PKP	16 50 42.0	2.3

1987 11 19

O=17 29 55.5 ± 0.09s
 LAT=39.49 N ± 1.48km
 LONG= 74.75 E ± 1.11km
 DEPTH= 31 km ± 0.77km

STATIONS USED = 19, STAND DEV = 2.71s

M_L=4.1 / 3,

KSH	1.0	92	iPg	17 30 12.2	-1.0
			Sg	17 30 25.7	-0.9
			SMN	M _L =4.1	0.6 5.30
			SME		0.6 4.80
WMQ	10.6	62	cP	17 32 25.2	-3.6
			LN		2.0 0.13
GTA	19.3	82	+P	17 34 21.7	0.1

1987 11 19

O=22 23 54.1 ± 0.11s
 LAT= 6.64 S ± 1.41km
 LONG=147.46 E ± 1.75km
 DEPTH= 20 km ± 0.23km

STATIONS USED = 49, STAND DEV = 1.66s

M_s=5.2 / 12,

SSE	45.2	328	cP	22 32 12.0	0.2
			cS	22 38 52.0	1.9
			LN	M _s =5.2	16.0 1.45
			LZ	M _s =5.4	20.0 2.80
NJ2	47.2	326	+P	22 32 27.6	-0.1
			LN	M _s =5.1	15.0 0.90
WHN	48.7	321	P	22 32 40.0	0.2
			LN	M _s =5.2	13.0 1.00
			LZ	M _s =5.1	20.0 1.40
TIA	51.3	328	cP	22 33 00.0	0.7
			LE	M _s =5.1	17.0 1.00
SNY	52.9	338	cP	22 33 10.4	-1.6
			cS	22 40 39.5	0.5

LN

M_s=5.1

30.3 1.61

LZ

M_s=5.1

28.0 1.53

MDJ 53.5 344 cP 22 33 12.2 -3.8

cS

22 40 46.0 -0.5

LZ

M_s=5.2

20.0 1.50

KMI 53.7 308 cP 22 33 18.0 -0.1

CN2 54.0 310 cP 22 33 22.0 2.2

cS

22 41 00.0 6.5

LZ

M_s=5.2

18.0 1.20

XAN 54.5 321 cP 22 33 21.4 -1.8

BJI 54.7 331 cP 22 33 23.5 -1.2

PMZ

2.0 0.070

TIY 54.9 326 cP 22 33 24.0 -2.4

cS

22 41 10.0 4.6

LE

M_s=4.9

13.0 0.47

LZ

M_s=5.6

11.0 1.71

CD2 56.0 314 cP 22 33 34.0 -0.7

HHC 57.6 328 cP 22 33 44.8 -1.1

BTO 58.3 327 cP 22 33 49.4 -1.0

LZH 59.0 319 cP 22 33 57.5 1.9

GTA 63.5 320 P 22 34 26.6 0.4

LSA 65.0 307 cP 22 34 34.9 -1.2

WMQ 73.6 319 P 22 35 28.0 -0.5

1987 11 19

O=23 39 17.2 ± 0.10s
 LAT=24.31 N ± 1.59km
 LONG=142.91 E ± 2.15km
 DEPTH= 33 km ± 0.31km

STATIONS USED = 40, STAND DEV = 1.37s

M_s=4.3 / 2,

SSE	20.4	294	cP	23 43 53.0	-0.9
			LZ	M _s =4.4	16.0 0.81
NJ2	22.5	295	cP	23 44 17.6	1.9
			LZ	M _s =4.2	20.0 0.61
MDJ	23.0	335	-P	23 44 22.0	1.8
SNY	23.7	322	cP	23 44 26.6	-0.9
CN2	24.1	328	cP	23 44 32.0	0.5
TIA	25.2	304	cP	23 44 40.0	-1.2
WHN	26.1	290	P	23 44 50.5	0.8
BJI	27.4	311	cP	23 45 02.0	0.1
TIY	29.2	304	cP	23 45 23.2	5.0
XAN	31.1	296	cP	23 45 34.5	-0.7
GYA	32.8	282	-P	23 45 49.6	-0.1
KMI	36.4	280	+P	23 46 21.5	0.4
GTA	39.2	303	P	23 46 42.8	-1.6
LSA	46.1	289	P	23 47 41.2	0.0
WMQ	48.8	308	P	23 48 00.0	-1.3

1987 11 20

O = 07 37 49.1 ± 0.07s
 LAT = 39.50 N ± 1.03km
 LONG = 74.75 E ± 0.65km
 DEPTH = 32 km ± 0.43km
 STATIONS USED = 11, STAND DEV = 1.92s

$M_L = 3.7 / 2,$
 KSH 1.0 92 cPg 07 38 06.5 -0.4
 Sg 07 38 22.5 2.2
 SMN $M_L = 4.1$ 0.6 4.30
 SME 0.5 4.00

1987 11 20
 O = 08 08 45.8 ± 0.10s
 LAT = 37.54 N ± 0.91km
 LONG = 102.64 E ± 0.80km
 DEPTH = 15 km ± 0.31km
 STATIONS USED = 6, STAND DEV = 3.67s

$M_L = 2.9 / 6,$
 LZH 1.7 146 cPn 08 09 13.5 -2.7
 cSg 08 09 47.5 7.0
 SMN $M_L = 3.0$ 1.0 0.18
 SME 1.0 0.12
 GTA 2.9 311 Pg 08 09 34.6 -2.7
 Sn 08 10 08.7 0.3
 SMN $M_L = 3.1$ 0.7 0.072
 SME 0.7 0.10

1987 11 20
 O = 16 04 08.0 ± 0.14s
 LAT = 40.34 N ± 3.03km
 LONG = 63.15 E ± 1.71km
 DEPTH = 43 km ± 0.38km
 STATIONS USED = 39, STAND DEV = 2.42s

$M_s = 4.9 / 2,$
 KSH 9.9 91 P 16 06 26.0 -5.0
 LE $M_s = 5.0$ 6.0 4.40
 WMQ 18.5 71 cP 16 08 20.5 -3.0
 LN 2.5 0.24
 LSA 25.2 106 P 16 09 34.6 2.9
 GTA 28.0 80 P 16 09 58.5 0.7
 CD2 34.1 93 P 16 10 49.6 -1.3
 XAN 36.7 85 P 16 11 15.5 2.5
 TIY 38.0 78 cP 16 11 26.5 2.5
 GYA 38.5 97 cP 16 11 30.4 2.1
 BJI 40.0 73 cP 16 11 44.0 3.4
 WHN 42.3 87 P 16 12 04.5 4.6
 SSE 47.3 82 cP 16 12 41.5 2.0
 PMZ 1.0 0.010
 LZ $M_s = 4.8$ 14.0 0.44
 MDJ 48.0 62 cP 16 12 47.0 2.0

1987 11 20
 O = 16 26 38.7 ± 0.08s
 LAT = 10.16 N ± 0.81km
 LONG = 126.98 E ± 1.47km
 DEPTH = 60 km ± 1.00km
 STATIONS USED = 39, STAND DEV = 0.94s

$M_s = 4.4 / 1,$
 SSE 21.5 346 cP 16 31 24.7 -0.1
 PMZ 1.2 0.030
 epP 16 31 34.5 -3.5
 NJ2 23.0 342 -P 16 31 40.0 0.1
 WHN 23.4 332 cP 16 31 45.7 1.9
 cS 16 35 50.0 1.0
 GYA 25.1 313 P 16 32 00.8 0.6
 XAN 29.0 328 P 16 32 35.0 -0.2
 CD2 29.9 317 cP 16 32 42.0 -1.2
 TIY 30.4 337 cP 16 32 47.0 -1.0
 BJI 31.3 344 cP 16 32 53.0 -2.6
 LZH 33.3 325 cP 16 33 13.5 0.3
 PMZ 1.0 0.050
 HHC 33.5 339 cP 16 33 14.6 -0.3
 BTO 33.8 336 cP 16 33 17.8 -0.2
 GTA 37.9 325 +iP 16 33 53.0 0.8
 LZ $M_s = 4.4$ 22.0 0.38
 WMQ 47.7 322 +P 16 35 13.0 0.8

1987 11 20
 O = 16 56 49.2 ± 0.11s
 LAT = 5.58 N ± 1.32km
 LONG = 125.69 E ± 2.08km
 DEPTH = 63 km ± 0.63km
 STATIONS USED = 49, STAND DEV = 1.47s

$M_s = 4.3 / 2,$
 QZH 20.4 341 cP 17 01 23.6 -0.2
 cS 17 05 06.0 2.2
 sS 17 05 28.0 3.8
 LN $M_s = 4.1$ 22.0 0.65
 QZN 20.4 312 P 17 01 27.4 3.5
 GZH 21.1 327 P 17 01 31.0 0.3
 GYA 27.6 321 P 17 02 33.0 0.0
 PcP 17 05 49.8 1.3
 KMI 29.4 314 +P 17 02 49.0 0.1
 XAN 32.3 333 -P 17 03 13.0 -1.8
 CD2 32.6 323 cP 17 03 16.6 -0.3
 TIY 34.2 341 cP 17 03 30.4 -0.7
 csS 17 09 19.0 1.6
 LZ $M_s = 4.5$ 24.0 0.67
 BJI 35.4 347 cP 17 03 39.0 -1.9
 LZH 36.4 329 cP 17 03 50.0 0.1

HHC	37.3	342	cP	17 03 56.8	-0.9
MDJ	39.0	4	cP	17 04 12.8	1.1
LSA	40.5	311	P	17 04 23.8	-0.2
GTA	41.0	329	P	17 04 27.5	-0.6
WMQ	50.6	325	P	17 05 43.8	-0.6

1987 11 20

O = 21 19 46.6 ± 0.12s

LAT = 55.48 S ± 2.73km

LONG = 28.04 W ± 3.26km

DEPTH = 29 km ± 0.52km

STATIONS USED = 43, STAND DEV = 1.92s

GYA	136.3	113	PKP	21 39 09.2	2.3
WMQ	138.3	78	cPKP	21 39 11.0	0.5
CD2	138.3	106	PKP	21 39 05.6	-4.8
GTA	142.2	93	PKP	21 39 14.5	-3.1
XAN	143.5	108	PKP	21 39 18.2	-1.4
WHN	143.6	117	cPKP	21 39 18.5	-1.2
NJ2	147.1	121	-PKP	21 39 28.6	2.9
SSE	147.4	126	PKP	21 39 28.9	2.7
TIY	148.1	107	cPKP	21 39 27.7	0.2
BTO	148.8	101	cPKP	21 39 29.2	0.6
TIA	149.5	115	PKP	21 39 34.6	5.0
CN2	159.4	113	cPKP	21 39 43.0	-0.2
MDJ	162.1	118	cPKP	21 39 46.0	0.0

1987 11 20

O = 21 38 56.2 ± 0.12s

LAT = 55.64 S ± 3.09km

LONG = 27.69 W ± 4.83km

DEPTH = 28 km ± 0.71km

STATIONS USED = 27, STAND DEV = 2.44s

WMQ	138.1	78	cPKP	21 58 18.0	-1.9
GTA	142.0	93	PKP	21 58 25.0	-1.9
XAN	143.2	108	PKP	21 58 28.0	-0.9
WHN	143.3	117	PKP	21 58 32.0	3.0
NJ2	146.8	121	PKP	21 58 35.2	0.2
SSE	147.1	125	cPKP	21 58 35.7	0.2
TIY	147.9	107	PKP	21 58 38.5	1.7
BTO	148.6	101	cPKP	21 58 40.6	2.6
TIA	149.2	114	PKP	21 58 42.1	3.2
HHC	149.6	102	cPKP	21 58 43.0	3.3
BJI	151.6	108	cPKP	21 58 47.5	5.0

1987 11 21

O = 03 59 44.2 ± 0.06s

LAT = 36.13 N ± 0.94km

LONG = 71.31 E ± 0.73km

DEPTH = 129 km ± 0.35km

STATIONS USED = 14, STAND DEV = 1.60s

KSH	5.0	47	P	04 00 58.8	0.6
			S	04 01 56.0	1.4
			LN		4.0 1.20
WMQ	14.7	54	cP	04 03 08.6	1.4
LSA	17.8	105	P	04 03 45.0	-1.1
GTA	22.7	73	P	04 04 39.2	3.1

1987 11 21

O = 13 48 57.3 ± 0.05s

LAT = 43.08 N ± 0.96km

LONG = 131.14 E ± 0.51km

DEPTH = 574 km ± 0.85km

STATIONS USED = 81, STAND DEV = 0.95s

 $m_B = 5.0 / 9$

MDJ	1.9	325	+iP	13 50 09.0	-0.2
			PMZ		2.0 6.40
			iS	13 51 03.5	-2.4
			SM [^]		3.0 4.50
CN2	4.2	282	+iP	13 50 22.4	-0.6
			PMZ		2.0 1.80
			iS	13 51 27.0	-3.7
			SME		5.0 5.50
SNY	5.7	260	-iP	13 50 35.7	0.2
			SMN		1.6 1.77
			SME		1.2 0.95
DL2	8.3	243	-iP	13 51 00.0	0.5
			sP	13 52 33.0	-2.8
			S	13 52 38.0	1.2
			SMN	$m_B = 5.2$	8.0 2.70
			SME		8.0 4.89
BJI	11.6	260	-iP	13 51 32.5	0.1
			PMZ		2.0 1.53
			sP	13 53 20.0	-2.5
			cS	13 53 38.0	1.1
			SMN	$m_B = 5.0$	7.0 0.79
			SME		7.0 1.53
			ScS	14 02 44.0	-0.2
TIA	12.8	242	-P	13 51 44.2	0.0
			SME	$m_B = 4.8$	8.0 1.22
			cScS	14 02 44.5	-2.3
SSE	14.3	217	+iP	13 51 59.5	0.0
			PMZ		1.0 0.37
			iS	13 54 30.0	3.7
			cPcP	13 56 36.0	2.0
			SMN	$m_B = 5.2$	6.0 1.06
			SME		6.0 1.73
NJ2	14.7	225	-iP	13 52 02.8	-0.1
			iS	13 54 36.0	3.6
HHC	14.7	268	+iP	13 52 04.2	0.6
			PMZ		2.0 1.10

STATIONS USED = 39, STAND DEV = 1.02s

QZN	43.9	305	cP	22 20 35.4	0.8
SSE	44.1	328	+P	22 20 36.5	0.7
			PMZ		0.8 0.010
			cpP	22 21 02.0	0.7
NJ2	46.1	327	cP	22 20 53.2	1.6
WHN	47.6	321	cP	22 21 06.0	2.2
TIA	50.2	329	P	22 21 22.9	-0.6
SNY	51.9	338	cP	22 21 36.2	-0.4
MDJ	52.5	345	cP	22 21 41.0	-0.1
CN2	53.0	341	cP	22 21 45.5	0.8
XAN	53.3	321	-P	22 21 47.0	-0.5
BJI	53.6	331	cP	22 21 49.0	-0.2
TIY	53.8	326	cP	22 21 51.2	0.5
CD2	54.9	314	cP	22 21 58.8	-0.3
HHC	56.5	328	cP	22 22 10.0	-0.5
BTO	57.2	327	cP	22 22 14.0	-1.0
LZH	57.9	319	cP	22 22 20.0	-0.1
GTA	62.4	320	+P	22 22 50.7	-0.3
LSA	63.9	307	cP	22 23 00.2	-0.9
WMQ	72.4	319	cP	22 23 52.7	1.1

1987 11 22

O=03 36 56.0 ± 0.06s
 LAT=46.72 N ± 2.21km
 LONG=153.35 E ± 1.37km
 DEPTH= 27 km ± 0.63km

STATIONS USED = 85, STAND DEV = 1.11s

Ms=5.3 / 40, m_B=5.6 / 7

MDJ	16.7	271	-iP	03 40 50.2	-0.2
			PP	03 41 06.0	2.0
			iS	03 43 53.0	-1.7
			LZ	Ms=5.0	15.0 4.90
CN2	19.8	272	+P	03 41 23.0	-4.7
			LZ	Ms=5.2	17.0 6.70
SNY	21.8	268	+iP	03 41 47.0	-1.2
			LZ	Ms=5.4	17.0 7.95
DL2	24.4	263	+P	03 42 14.0	0.1
			cS	03 46 31.0	1.5
			LN	Ms=5.4	14.0 1.82
			LE		14.0 4.89
BJI	27.6	270	cP	03 42 43.0	-0.9
			PMZ	m _B =5.6	10.0 1.15
			cPP	03 43 28.0	-3.9
			cS	03 47 24.0	1.4
			SMN		18.0 1.47
			SME		18.0 1.90
			LE	Ms=5.3	16.0 3.79
			LZ	Ms=5.4	16.0 5.27
TIA	28.9	262	P	03 42 54.3	-0.7

			SMN	m _B =5.4	10.0 0.74
			SME		12.0 0.79
			LN	Ms=5.1	16.0 1.56
			LE		18.0 2.36
SSE	29.2	249	P	03 42 57.0	-1.3
			PMZ	m _B =5.8	5.0 0.87
			cS	03 47 47.0	-1.2
			LN	Ms=5.1	16.0 1.93
			LE		14.0 1.47
			LZ	Ms=5.1	20.0 2.80
NJ2	30.1	253	-P	03 43 05.8	-0.5
			S	03 48 05.0	3.2
			LE	Ms=5.4	15.0 3.80
			LZ	Ms=5.1	18.0 2.39
HHC	30.5	274	+iP	03 43 09.8	0.5
			LN	Ms=5.3	15.0 1.46
			LE		16.0 3.42
			LZ	Ms=5.3	16.0 3.86
			sS	03 48 24.0	2.9
TIY	31.3	268	+P	03 43 17.2	0.4
			PMZ	m _B =5.7	6.0 0.88
			PP	03 44 20.0	0.3
			PPMZ		6.0 0.66
			S	03 48 20.0	-0.1
			SME	m _B =5.2	9.0 0.44
			sS	03 48 37.0	2.5
			LE	Ms=5.1	16.0 2.29
			LZ	Ms=5.6	8.0 3.66
BTO	31.6	275	-iP	03 43 19.4	-0.2
			cSS	03 50 13.0	-2.1
			LN	Ms=5.6	17.0 5.90
			LE		17.0 2.00
			LZ	Ms=5.4	17.0 3.90
WHN	34.1	256	cP	03 43 39.5	-1.3
			PMZ		1.0 0.060
			iScS	03 54 06.0	6.0
			LE	Ms=5.0	14.0 1.40
			LZ	Ms=5.2	16.0 2.20
QZH	35.2	244	+P	03 43 50.0	-0.1
			SME	m _B =5.7	8.0 1.14
			LE	Ms=5.0	15.0 1.42
XAN	35.7	265	+P	03 43 54.2	-0.3
			cPP	03 45 13.0	-1.8
			cS	03 49 26.0	-3.0
			LN	Ms=5.4	14.0 1.37
			LE		14.0 2.33
LZH	38.1	272	+iP	03 44 15.5	0.8
			PMZ		1.5 0.37
			pP	03 44 20.0	-2.7
			cS	03 50 05.0	-0.6

STATIONS USED = 25, STAND DEV = 1.23s

Ms = 6.2 / 8,

MDJ	82.4	319	eP	02 06 41.0	-1.4		
CN2	85.2	320	eP	02 06 57.0	0.5		
			eS	02 17 31.0	4.7		
			LZ	Ms = 6.2	20.0	6.00	
SNY	87.6	320	+P	02 07 08.4	0.4		
			SKS	02 17 39.0	6.2		
			LN	Ms = 6.3	18.0	4.47	
			LE		18.0	5.12	
			LZ	Ms = 6.2	19.0	6.21	
BJI	92.7	323	P	02 07 32.5	0.3		
			eSKS	02 18 09.0	5.3		
			eS	02 18 37.0	1.4		
			LN	Ms = 6.1	25.0	4.28	
			LE		26.0	3.88	
			LZ	Ms = 6.0	28.0	4.94	
BTO	95.3	327	eP	02 07 45.0	1.0		
			eSKS	02 18 20.0	2.3		
			LN	Ms = 6.4	22.0	10.1	
			LZ	Ms = 6.5	19.0	10.5	

1987 11 24

O = 03 27 37.1 ± 0.05s

LAT = 21.79 N ± 0.64km

LONG = 143.10 E ± 1.02km

DEPTH = 325 km ± 0.28km

STATIONS USED = 21, STAND DEV = 0.87s

SSE	21.7	300	cP	03 32 03.8	0.6		
WHN	27.2	295	P	03 32 51.5	-2.3		
XAN	32.4	300	P	03 33 39.5	-0.2		
GYA	33.5	285	P	03 33 49.8	0.8		
CD2	36.3	293	P	03 34 12.1	0.0		
GTA	40.8	306	P	03 34 49.6	0.3		

1987 11 24

O = 07 30 39.0 ± 0.06s

LAT = 4.21 S ± 0.69km

LONG = 136.30 E ± 1.66km

DEPTH = 36 km ± 0.29km

STATIONS USED = 24, STAND DEV = 1.05s

WHN	40.4	330	cP	07 38 16.0	0.0		
GYA	41.9	318	P	07 38 28.0	0.1		
KMI	43.7	314	-P	07 38 44.5	1.2		
XAN	46.0	328	-iP	07 39 00.8	-0.4		
CD2	46.7	321	cP	07 39 06.4	-0.6		
LZH	50.3	326	+iP	07 39 35.0	0.3		
LSA	54.8	311	cP	07 40 08.3	-0.6		
GTA	54.9	326	P	07 40 08.6	-0.5		
WMQ	64.7	323	P	07 41 16.1	-0.4		

1987 11 24

O = 07 39 57.8 ± 0.13s

LAT = 56.01 S ± 2.62km

LONG = 27.45 W ± 3.21km

DEPTH = 91 km ± 0.69km

STATIONS USED = 36, STAND DEV = 2.29s

GYA	135.8	113	PKP	07 59 07.6	-1.6		
WMQ	138.0	79	cPKP	07 59 14.0	0.7		
GTA	141.9	93	PKP	07 59 15.0	-5.2		
XAN	143.0	108	cPKP	07 59 18.4	-3.6		
WHN	143.1	117	PKP	07 59 20.0	-2.0		
NJ2	146.5	121	+PKP	07 59 30.0	2.0		
SSE	146.8	125	PKP	07 59 30.7	2.2		
TIY	147.6	107	cPKP	07 59 32.0	2.0		
BTO	148.4	101	cPKP	07 59 35.0	3.8		
TIA	149.0	115	+PKP	07 59 36.0	4.0		

1987 11 24

O = 08 39 08.4 ± 0.10s

LAT = 17.63 S ± 0.78km

LONG = 178.57 W ± 1.21km

DEPTH = 560 km ± 0.89km

STATIONS USED = 60, STAND DEV = 0.81s

SSE	75.4	310	cP	08 49 56.5	-0.9		
NJ2	77.6	309	-P	08 50 10.0	0.7		
GZH	77.9	299	P	08 50 10.5	0.0		
MDJ	77.9	325	-iP	08 50 10.5	-0.1		
DL2	79.3	317	cP	08 50 18.0	0.0		
SNY	79.7	320	-iP	08 50 19.6	-0.5		
CN2	79.7	322	cP	08 50 20.0	-0.3		
			PMZ			2.0	0.30
			pP	08 52 17.0	-1.8		
			cS	08 59 42.0	3.9		
WHN	80.3	306	P	08 50 24.0	0.6		
BJI	83.5	315	-P	08 50 39.5	0.1		
			PMZ			1.5	0.070
GYA	84.8	300	-P	08 50 46.4	0.5		
			pP	08 52 47.8	1.8		
TIY	85.0	312	-P	08 50 47.0	0.2		
XAN	86.0	307	-iP	08 50 52.0	0.4		
KMI	87.6	297	cP	08 51 00.0	0.7		
CD2	88.8	303	cP	08 51 05.3	0.4		
LZH	90.6	308	-iP	08 51 13.5	0.1		
			PMZ			1.5	0.080
GTA	94.7	310	P	08 51 31.6	-0.7		

1987 11 24

O = 09 24 10.3 ± 0.10s

LAT = 5.59 S ± 1.00km

BTO	60.9	300	cP	18 50 29.0	0.1
XAN	66.6	296	P	18 51 05.8	-0.3
GTA	66.6	306	P	18 51 05.5	-0.8
			LN	Ms=5.2	16.0 0.68
WMQ	68.0	317	P	18 51 15.6	0.6

1987 11 24

O=18 44 09.0 ± 0.24s
 LAT=56.18 N ± 6.41km
 LONG=153.32 W ± 3.48km
 DEPTH= 39 km ± 0.96km
 STATIONS USED = 11, STAND DEV= 2.75s

SNY	53.1	292	cP	18 53 25.4	0.3
HHC	59.8	299	P	18 54 13.4	-0.3
XAN	66.5	296	cP	18 55 02.1	4.7
GTA	66.5	306	cP	18 54 57.0	-0.7

1987 11 24

O=21 25 21.0 ± 0.10s
 LAT= 8.17 N ± 1.42km
 LONG=122.36 E ± 1.95km
 DEPTH= 33 km ± 0.35km
 STATIONS USED = 25, STAND DEV= 1.92s

SSE	22.8	357	P	21 30 23.5	0.9
			pP	21 30 31.5	0.1
WHN	23.5	342	P	21 30 31.0	2.0
GYA	23.5	323	cP	21 30 34.2	4.8
CD2	28.5	325	cP	21 31 14.5	-1.6
XAN	28.6	336	cP	21 31 12.2	-4.3
TIY	30.8	344	P	21 31 34.8	-1.2
BJI	32.2	351	cP	21 31 47.0	-1.7
LSA	36.3	310	+P	21 32 23.6	-0.5
GTA	37.1	330	P	21 32 30.6	-0.1

1987 11 24

O=23 19 20.6 ± 0.12s
 LAT=21.58 N ± 1.35km
 LONG= 97.55 E ± 1.29km
 DEPTH= 34 km ± 0.23km
 STATIONS USED = 24, STAND DEV= 2.25s

Ms=4.6/ 8, ML=4.7/ 3,

KMI	5.9	53	+Pg	23 21 09.0	3.3
			Sg	23 22 22.5	-4.1
			SMN	ML=5.1	1.5 1.67
			SME		1.5 1.28
			LN	Ms=4.6	9.0 6.40
GYA	9.6	58	P	23 21 42.4	2.1
			LN	Ms=4.7	7.0 2.20
			LE		7.0 1.50
LSA	9.9	326	+P	23 21 44.0	-0.7

CD2	10.8	30	cP	23 21 57.8	1.2
			LE	Ms=4.6	6.0 1.30

LZH	15.5	19	cP	23 22 57.0	-1.2
XAN	16.0	37	cP	23 23 00.8	-3.7
			LE	Ms=4.3	12.0 0.82

WHN	17.5	56	cP	23 23 22.0	-2.0
			cS	23 26 36.0	0.0
			LN	Ms=4.8	16.0 2.50

GTA	17.9	6	cP	23 23 29.2	0.5
			LE	Ms=4.6	10.0 0.99

QZH	19.6	76	cP	23 23 49.0	-0.1
			cS	23 27 20.0	-3.4
			LN	Ms=4.8	8.0 1.10

TIY	20.6	35	cP	23 23 57.8	-1.8
			csS	23 27 54.0	-2.6
			LN	Ms=4.5	9.0 0.40

			LE		10.0 0.40
--	--	--	----	--	-----------

WMQ	23.6	342	P	23 24 32.7	2.8
KSH	25.6	319	cP	23 24 46.5	-2.7

1987 11 25

O=02 08 07.7 ± 0.12s
 LAT=35.35 N ± 1.24km
 LONG=105.43 E ± 1.16km
 DEPTH= 6 km ± 0.18km
 STATIONS USED = 5, STAND DEV= 4.59s

ML=3.1/ 5,

LZH	1.5	300	Pg	02 08 35.0	0.9
			SMN	ML=3.1	1.0 0.24
			SME		1.0 0.26

XAN	3.2	114	Pn	02 08 55.4	-3.1
			Pg	02 09 02.5	-1.1
			Sg	02 09 40.7	-6.2
			SMN	ML=2.8	0.2 0.040
			SME		0.2 0.030

GTA	6.0	314	Pn	02 09 37.0	-0.9
			Sn	02 10 47.6	-1.8
			Sg	02 11 14.4	-2.1
			SMN	ML=3.0	0.9 0.010
			SME		0.8 0.010

1987 11 25

O=09 15 35.0 ± 0.09s
 LAT=23.63 N ± 1.27km
 LONG=121.78 E ± 1.25km
 DEPTH= 11 km ± 0.38km
 STATIONS USED = 40, STAND DEV= 1.57s

Ms=4.0/ 2, ML=4.1/ 14,

QZH	3.2	295	-iPn	09 16 26.5	0.9
			iSn	09 17 00.0	-5.6

LAT = 8.26 S		± 1.41km		WHN 39.7 347		-iP	01 50 46.0	1.5		
LONG = 124.15 E		± 1.83km				+P	01 50 46.5	2.6		
DEPTH = 33 km		± 0.07km				PMZ	$m_B = 6.3$	10.0	5.30	
STATIONS USED = 84, STAND DEV = 1.29s						iS	01 56 48.0	1.9		
Ms = 6.5 / 42,		$m_B = 6.5 / 22$				SMN	$m_B = 6.6$	11.0	11.5	
QZN	30.6	333	-P	01 49 27.0	0.6	SS	01 59 36.0	1.3		
			PP	01 50 26.0	-0.5	LN	$M_s = 6.4$	10.0	17.0	
			S	01 54 25.0	0.8	LZ	$M_s = 6.2$	20.0	22.4	
			sS	01 54 37.0	-3.2	NJ2	40.4 353	-P	01 50 51.5	
			LN	$M_s = 6.3$	13.0	18.8	PMZ	$m_B = 6.4$	6.0	3.71
			LE		15.0	24.8	sP	01 51 06.0	2.5	
GZH	32.9	341	-iP	01 49 46.5	-0.3		PP	01 52 34.0	6.8	
			PMZ	$m_B = 6.4$	10.0	6.35	S	01 56 57.0	1.5	
			SMN	$m_B = 6.8$	11.0	22.5	LN	$M_s = 6.2$	13.0	14.4
			SME		11.0	4.12	CD2	43.6 334	cP	01 51 15.6
			LN	$M_s = 6.4$	12.0	25.5	S	01 57 41.0	-1.3	
			LE		13.0	20.5	LZ	$M_s = 6.6$	13.0	32.2
QZH	33.4	351	-iP	01 49 51.0	-0.5		XAN	44.5 342	-P	01 51 22.3
			PMZ	$m_B = 6.3$	8.0	3.80	S	01 57 58.0	2.7	
			iS	01 55 12.0	2.0		LN	$M_s = 6.7$	14.0	18.5
			SMN	$m_B = 6.7$	10.0	12.7	LE		15.0	38.6
			SME		10.0	8.84	TIA	44.7 352	cP	01 51 25.8
			SS	01 57 20.0	6.8		PP	01 53 09.0	-2.0	
			LN	$M_s = 6.3$	18.0	35.0	PPMZ		9.0	5.10
GYA	38.5	334	-P	01 50 35.0	0.7		SMN	$m_B = 6.5$	11.0	5.90
			PMZ	$m_B = 6.5$	6.0	5.40	SME		11.0	6.60
			PP	01 52 02.0	-3.7		SS	02 01 12.0	-0.2	
			S	01 56 32.0	5.7		ScS	02 01 21.2	3.8	
			LN	$M_s = 6.8$	17.0	21.3	LN	$M_s = 6.6$	19.0	29.1
			LE		17.0	75.0	LE		19.0	26.0
KMI	39.2	328	-P	01 50 41.5	1.1		LZ	$M_s = 6.3$	19.0	22.9
			sP	01 50 52.0	-1.4		DL2	47.0 357	P	01 51 44.0
			PP	01 52 14.0	-0.3		S	01 58 37.0	6.0	
			PcP	01 52 55.0	5.9		LE	$M_s = 6.6$	18.0	38.6
			S	01 56 36.0	-1.4		TIY	47.0 347	-P	01 51 44.0
			PcS	01 56 44.0	6.5		PMZ	$m_B = 6.3$	8.0	3.42
			LE	$M_s = 6.6$	19.0	58.4	sP	01 51 58.0	1.1	
SSE	39.2	356	-iP	01 50 41.0	0.5		S	01 58 32.0	0.3	
			PMZ	$m_B = 6.5$	6.0	4.32	SME		20.0	17.2
			pP	01 50 50.0	0.2		sS	01 58 47.0	-1.1	
			sP	01 50 55.0	1.2		ScS	02 01 27.5	-4.7	
			PP	01 52 16.0	1.2		cSS	02 01 57.0	5.1	
			PcP	01 52 50.0	0.7		LN	$M_s = 6.6$	33.0	30.3
			cPcS	01 56 36.0	-1.7		LE		29.0	54.2
			S	01 56 42.0	4.0		LZH	48.1 338	-P	01 51 52.0
			sS	01 56 57.0	2.8		PMZ	$m_B = 6.6$	6.0	4.85
			ScS	02 00 44.0	-0.2		PP	01 53 36.0	-6.9	
			LN	$M_s = 6.1$	12.0	6.22	S	01 58 47.0	0.5	
			LE		12.0	8.17	SMN	$m_B = 6.8$	8.0	10.1
			LZ	$M_s = 6.1$	20.0	20.0	LN	$M_s = 6.5$	10.0	6.87

Station	Mag	Depth	Type	Time	Ms	Depth	Time	Type	Mag	Depth	Time	Ms	Depth
WHN	69.7	312	P	17 40 06.0	6.3	20.0	11.0	S		17 50 18.0		2.1	
			sP	17 40 16.0				SKS		17 50 46.0		4.4	
			iS	17 49 16.0				LN		Ms=6.4	20.0	13.2	
			SMN		m _B =6.2	11.0	2.70	cP		17 40 42.0		-0.1	
			LN		Ms=6.2	17.0	7.30	PcP		17 40 52.0		-1.6	
			LZ		Ms=6.3	26.0	13.7	eS		17 50 20.0		-3.2	
MDJ	70.1	332	+P	17 40 07.4				SKS		17 50 45.0		-0.1	
			pP	17 40 11.0				LN		Ms=6.2	18.0	7.30	
			sP	17 40 16.0				eP		17 40 50.5		0.3	
			iS	17 49 18.0				LE		Ms=6.2	17.0	6.40	
			SS	17 53 50.0				cP		17 40 51.4		-0.5	
			LZ		Ms=6.6	20.0	20.1	LE		Ms=6.5	23.0	18.0	
DL2	70.1	323	eP	17 40 07.6				cP		17 40 55.0		0.2	
			LN		Ms=6.2	15.0	7.02	sP		17 41 04.0		-0.8	
SNY	71.0	326	+P	17 40 15.0				ePP		17 43 51.2		-1.2	
			SMN			20.0	4.26	eS		17 50 45.0		-2.9	
			SME			22.0	4.26	SKS		17 51 04.0		2.2	
			LN		Ms=6.5	21.0	15.2	LN		Ms=6.3	16.0	3.90	
			LE			23.0	7.16	LE			16.0	5.40	
			LZ		Ms=6.4	19.0	13.1	LZ		Ms=6.3	20.0	8.70	
TIA	71.1	318	eP	17 40 13.3				LZH	80.1	312	P	17 41 05.5	0.6
			sP	17 40 25.0				PMZ				2.0	0.12
			SMN			13.0	1.55	sP		17 41 18.0		3.1	
			LN		Ms=6.4	17.0	8.30	LE		Ms=6.3	18.0	8.60	
			LE			17.0	8.50	+P		17 41 28.0		0.5	
			LZ		Ms=6.2	17.0	6.50	S		17 51 53.0		3.1	
CN2	71.5	329	-P	17 40 15.0				SS		17 57 28.0		5.0	
			PMZ		m _B =6.2	5.0	1.50	LE		Ms=6.3	20.0	8.68	
			pP	17 40 21.0				LZ		Ms=6.3	24.0	10.5	
			LZ		Ms=6.3	19.0	10.2	LSA	87.2	302	P	17 41 40.3	-1.1
GYA	73.4	305	P	17 40 26.0				pP		17 41 49.0		1.0	
			pP	17 40 31.0				iS		17 52 13.0		-6.2	
			S	17 49 49.0				LE		Ms=5.9	11.0	1.73	
			SS	17 54 32.0				WMQ	94.5	314	P	17 42 15.2	0.1
			LN		Ms=6.1	26.0	7.10	SKS		17 52 49.0		2.6	
			LE			26.0	3.70	LZ		Ms=6.5	20.0	10.7	
BJI	74.1	321	+P	17 40 31.0									
			eS	17 49 58.0									
			LN		Ms=6.4	43.0	14.3						
			LE			40.0	23.7						
TIY	75.0	317	+P	17 40 37.1									
			pP	17 40 44.0									
			sP	17 40 46.5									
			S	17 50 14.0									
			SMN			20.0	1.48						
			sS	17 50 24.5									
			LE		Ms=6.1	15.0	5.14						
			LZ		Ms=6.4	20.0	11.7						
XAN	75.4	312	P	17 40 38.3									

1987 11 26

O = 23 00 20.7 ± 0.08s
 LAT = 37.87 N ± 0.83km
 LONG = 31.09 E ± 0.76km
 DEPTH = 17 km ± 0.32km

STATIONS USED = 21, STAND DEV = 1.40s

WMQ	42.5	63	P	23 08 18.6	1.0
GTA	52.5	66	P	23 09 35.2	-0.4
HHC	60.2	60	eP	23 10 30.4	-0.2
XAN	61.4	68	eP	23 10 38.0	-0.8
TIY	62.2	62	eP	23 10 43.5	-0.7
BJI	63.7	59	eP	23 10 53.0	-0.9

1987 11 27
 O=06 14 30.8 ± 0.07s
 LAT= 8.68 N ± 1.58km
 LONG= 39.80 W ± 1.57km
 DEPTH= 8 km ± 0.16km
 STATIONS USED = 15, STAND DEV= 1.85s

GYA 132.2 42 P 06 33 50.8 3.9

1987 11 27

O=08 26 43.5 ± 0.07s
 LAT=32.76 N ± 1.16km
 LONG= 59.08 E ± 0.90km
 DEPTH= 34 km ± 0.10km
 STATIONS USED = 18, STAND DEV= 1.00s

WMQ 24.9 55 cP 08 32 03.9 -1.4
 GTA 33.4 67 P 08 33 22.0 0.7
 KMI 38.7 90 cP 08 34 06.5 -0.4
 XAN 41.3 74 cP 08 34 26.0 -1.9
 GYA 41.6 86 P 08 34 32.0 1.8

1987 11 27

O=12 27 04.8 ± 0.14s
 LAT=51.61 N ± 2.03km
 LONG=173.43 W ± 0.69km
 DEPTH= 34 km ± 1.19km
 STATIONS USED = 23, STAND DEV= 1.05s
 Ms=4.8/ 1,

TIY 52.3 285 P 12 36 17.8 1.8
 LZ Ms=4.8 20.0 0.62
 WHN 56.0 278 P 12 36 45.0 2.2
 XAN 56.9 284 P 12 36 48.0 -1.4
 GTA 58.6 295 cP 12 36 59.5 -1.8
 GYA 63.6 280 -P 12 37 35.4 -0.1
 KMI 67.0 282 -P 12 37 57.5 0.2
 LSA 70.5 293 +P 12 38 19.0 -0.2

1987 11 27

O=13 05 51.8 ± 0.07s
 LAT=16.21 S ± 1.10km
 LONG=168.31 E ± 1.57km
 DEPTH= 36 km ± 0.34km
 STATIONS USED = 61, STAND DEV= 0.94s
 Ms=5.5/ 3, m_B=6.0/ 1

QZH 63.4 309 -P 13 16 20.5 -0.2
 SSE 65.3 316 +P 13 16 32.0 -0.8
 PMZ 1.5 0.11
 QZN 67.3 299 P 13 16 45.6 -0.2
 NJ2 67.4 316 +P 13 16 45.4 -1.1
 WHN 69.7 312 +P 13 17 01.0 0.6

MDJ 70.1 332 -P 13 17 02.6 -0.1
 LZ Ms=5.6 20.0 0.80
 DL2 70.1 323 cP 13 17 03.0 0.2
 SNY 71.0 326 -iP 13 17 08.0 -0.4
 CN2 71.4 329 +P 13 17 10.0 -1.0
 GYA 73.4 305 +P 13 17 22.8 0.0
 BJI 74.0 321 cP 13 17 25.0 -1.5
 TIY 75.0 317 +iP 13 17 32.0 -0.3

PMZ 1.2 0.10

sS 13 27 26.0 2.3

LZ Ms=5.2 20.0 0.75

XAN 75.4 312 cP 13 17 34.0 -0.5

KMI 75.9 302 +iP 13 17 38.0 0.4

PMZ m_B=6.0 5.0 0.94

cS 13 27 11.0 -6.2

BTO 78.2 319 +P 13 17 50.0 -0.2

LZH 80.1 312 P 13 18 00.0 -0.4

PMZ 1.2 0.13

GTA 84.4 314 +P 13 18 22.7 -0.2

LSA 87.2 302 +P 13 18 36.0 -0.9

WMQ 94.5 314 P 13 19 09.8 -0.6

1987 11 27

O=13 11 21.9 ± 0.12s
 LAT=16.30 S ± 1.53km
 LONG=168.20 E ± 1.79km
 DEPTH= 27 km ± 0.47km

STATIONS USED = 24, STAND DEV= 1.88s

NJ2 67.4 316 cP 13 22 16.6 -1.0
 WHN 69.6 312 P 13 22 34.2 2.7
 MDJ 70.1 332 -P 13 22 34.0 -0.2
 GYA 73.3 305 P 13 22 57.0 3.2
 BJI 74.0 321 cP 13 22 57.0 -0.7
 XAN 75.4 312 cP 13 23 04.0 -1.7
 HHC 77.3 320 cP 13 23 16.2 -0.6
 BTO 78.2 319 cP 13 23 24.6 3.2
 GTA 84.4 314 P 13 23 57.3 3.2

1987 11 27

O=13 15 13.6 ± 0.09s
 LAT=40.06 N ± 0.89km
 LONG=118.20 E ± 0.52km
 DEPTH= 15 km ± 0.88km

STATIONS USED = 8, STAND DEV= 2.74s

M_L=3.1/ 4,

CN2 6.6 53 +Pg 13 17 10.0 0.3
 XAN 9.5 234 cP 13 17 34.0 0.2

1987 11 27

O=13 33 17.3 ± 0.11s

MDJ	70.1	332	eP	17 42 01.7	-3.8
CN2	71.4	329	eP	17 42 13.8	0.0
GYA	73.4	305	P	17 42 25.6	0.1
BJI	74.0	321	eP	17 42 28.5	-0.7
TIY	75.0	317	-P	17 42 39.4	4.4
XAN	75.4	312	eP	17 42 35.6	-1.7
BTO	78.2	319	eP	17 42 50.8	-2.1
GTA	84.4	314	P	17 43 29.4	3.8

1987 11 27

O = 17 35 35.3 ± 0.15s
 LAT = 16.09 S ± 1.55km
 LONG = 168.28 E ± 3.57km
 DEPTH = 34 km ± 0.43km
 STATIONS USED = 27, STAND DEV = 1.70s

$m_B = 5.4 / 1$

NJ2	67.3	316	eP	17 46 29.4	-0.2
WHN	69.6	312	P	17 46 44.0	0.5
MDJ	69.9	332	eP	17 46 46.0	0.2
GYA	73.3	305	P	17 47 06.4	0.4
BJI	73.9	321	eP	17 47 09.0	-0.6
TIY	74.9	317	eP	17 47 15.7	0.3
XAN	75.3	312	eP	17 47 16.5	-1.2
KMI	75.8	302	-P	17 47 21.0	0.1
HHC	77.2	319	eP	17 47 27.0	-1.7
BTO	78.1	319	eP	17 47 33.6	0.3
LZH	79.9	312	eP	17 47 43.0	-0.6

PMZ $m_B = 5.4$ 3.5 0.15

GTA	84.3	314	P	17 48 06.0	-0.1
WMQ	94.4	314	eP	17 48 50.0	-3.7

1987 11 28

O = 04 03 44.5 ± 0.10s
 LAT = 0.32 S ± 1.57km
 LONG = 124.89 E ± 2.32km
 DEPTH = 32 km ± 0.15km
 STATIONS USED = 86, STAND DEV = 1.50s

$M_s = 5.9 / 31$, $m_B = 5.6 / 1$

QZN	24.2	323	P	04 09 02.0	2.1
			LN	$M_s = 5.8$	15.0 11.3
			LE		17.0 11.4
GZH	25.8	335	-P	04 09 16.0	0.9
			LN	$M_s = 5.7$	21.0 7.23
			LE		20.0 12.4
			LZ	$M_s = 5.9$	19.0 20.3
QZH	25.8	347	eP	04 09 17.0	1.9
			iS	04 13 44.0	3.5
			sS	04 13 57.0	1.7
			LE	$M_s = 5.7$	32.0 24.5
SSE	31.4	354	P	04 10 07.5	2.0

						PMZ			
						eS	04 15 12.0	1.8	
						SS	04 17 04.0	6.0	
						LN	$M_s = 5.9$	22.0	16.8
						LZ	$M_s = 6.0$	22.0	21.6
GYA	31.9	328	+P				04 10 11.8	2.1	
						pP	04 10 22.4	3.9	
						S	04 15 19.4	2.8	
WHN	32.3	343	P				04 10 14.7	1.7	
						LZ	$M_s = 5.8$	22.0	14.5
NJ2	32.7	350	-P				04 10 19.0	2.5	
KMI	33.2	321	eP				04 10 21.0	0.3	
						eS	04 15 39.0	1.6	
						LE	$M_s = 5.6$	16.0	6.40
CD2	37.0	329	P				04 10 52.8	-0.4	
						LN	$M_s = 6.0$	24.0	18.4
TIA	37.1	350	eP				04 10 53.4	-0.4	
						PP	04 12 16.0	-4.4	
						SS	04 19 08.0	1.0	
						LN	$M_s = 5.7$	28.0	10.6
						LE		28.0	5.26
						LZ	$M_s = 5.9$	30.0	17.3
XAN	37.3	338	eP				04 10 55.3	-0.8	
						eS	04 16 40.0	-1.5	
						LN	$M_s = 6.1$	18.0	16.1
DL2	39.2	356	eP				04 11 16.0	4.8	
						LN	$M_s = 6.2$	21.0	22.9
						LE		18.0	4.49
TIY	39.6	344	eP				04 11 13.8	-0.9	
						PMZ		16.0	1.90
						pP	04 11 26.0	2.2	
						PP	04 12 52.0	2.2	
						S	04 17 10.0	-4.3	
						LE	$M_s = 5.3$	18.0	2.48
						LZ	$M_s = 5.8$	27.0	11.9
BJI	41.0	350	eP				04 11 25.0	-1.2	
						PMZ		16.0	1.64
						cPP	04 13 00.0	-4.0	
						ScP	04 17 17.0	5.1	
						eS	04 17 33.0	-3.0	
						eScS	04 21 30.0	4.3	
						LN	$M_s = 6.0$	24.0	10.5
						LE		24.0	10.4
						LZ	$M_s = 6.0$	24.0	14.3
LZH	41.2	334	-iP				04 11 29.5	1.2	
						PMZ		2.0	1.35
						pP	04 11 39.0	1.7	
						eS	04 17 38.0	-1.8	
						LE	$M_s = 5.9$	20.0	11.7
SNY	42.0	359	+P				04 11 33.4	-1.2	

HHC	42.7	345	eP	04 11 41.0	0.0		
			LN	Ms=5.6	24.0	5.38	
			LZ	Ms=5.9	24.0	11.9	
BTO	42.9	343	eP	04 11 44.5	2.0		
			eS	04 18 08.0	2.7		
			LN	Ms=5.8	21.0	9.00	
			LZ	Ms=5.8	21.0	8.80	
LSA	43.9	316	eP	04 11 50.0	-0.7		
CN2	43.9	1	eP	04 11 49.0	-1.6		
			PMZ		3.0	0.60	
			pP	04 12 03.0	3.2		
			eS	04 18 14.0	-5.8		
			SME	m _B =5.6	8.0	0.70	
			LZ	Ms=5.8	22.0	8.80	
MDJ	44.9	5	+iP	04 11 58.2	-0.4		
			pP	04 12 05.0	-2.9		
			sP	04 12 07.8	-4.0		
			iS	04 18 30.0	-4.4		
			LZ	Ms=6.1	28.0	20.4	
GTA	45.7	333	P	04 12 04.0	-1.1		
			PcP	04 13 47.0	4.7		
			PP	04 13 57.0	4.9		
			ScP	04 17 35.4	4.2		
			S	04 18 40.0	-4.6		
			LN	Ms=6.0	24.0	13.5	
			LZ	Ms=6.1	20.0	13.7	
WMQ	55.0	328	P	04 13 15.0	-1.1		
			pP	04 13 27.0	1.6		
			PcP	04 14 20.0	3.6		
			PP	04 15 26.0	6.0		
			S	04 20 50.5	-3.2		
			LN	Ms=6.1	23.0	12.9	
KSH	59.6	317	+iP	04 13 49.0	0.3		
			eS	04 21 56.0	0.3		
			eScS	04 23 35.0	3.3		
			LE	Ms=5.9	15.0	4.00	

1987 11 28
 O=05 17 38.4 ± 0.55s
 LAT=39.68 N ± 1.62km
 LONG= 71.97 E ± 4.87km
 DEPTH= 20 km
 STATIONS USED = 5, STAND DEV= 4.02s
 M_L=4.1/ 4,

KSH	3.1	93	Pn	05 18 28.2	1.1		
			SMN	M _L =4.5	0.6	1.80	
			SME		0.5	1.50	
GTA	21.4	82	P	05 22 30.2	2.0		

1987 11 28

O=08 40 08.8	± 0.06s		
LAT=36.70 N	± 0.86km		
LONG= 70.99 E	± 0.67km		
DEPTH=218 km	± 0.53km		
STATIONS USED = 12, STAND DEV= 1.41s			
KSH	4.8	54	P
			S
			SMN
			SME
WMQ	14.6	56	P

1987 11 28
 O=15 31 16.1 ± 0.04s
 LAT=53.74 N ± 1.22km
 LONG=165.11 W ± 0.70km
 DEPTH= 31 km ± 0.25km
 STATIONS USED = 33, STAND DEV= 0.80s

CN2	45.1	287	eP	15 39 31.6	-0.1
HHC	54.8	293	eP	15 40 46.5	0.5
BTO	55.8	294	eP	15 40 53.4	0.0
XAN	61.1	289	eP	15 41 30.2	-0.2
GTA	62.1	299	P	15 41 36.7	-0.3
GYA	68.1	285	+P	15 42 16.4	0.7
LSA	74.1	299	+P	15 42 52.3	0.0

1987 11 28
 O=22 17 15.9 ± 0.09s
 LAT=19.98 N ± 1.16km
 LONG= 94.67 E ± 1.14km
 DEPTH= 77 km ± 0.25km
 STATIONS USED = 29, STAND DEV= 1.75s

KMI	9.0	54	+P	22 19 29.5	3.3
LSA	10.2	342	eP	22 19 40.0	-2.0
GYA	12.8	57	P	22 20 16.8	0.5
XAN	18.9	39	eP	22 21 30.0	-2.9
GTA	19.9	12	P	22 21 41.6	-2.2
BTO	24.4	29	eP	22 22 27.0	-1.5
WMQ	24.5	348	P	22 22 30.0	0.7
KSH	25.2	324	P	22 22 39.0	2.5
			eS	22 26 56.0	2.0
BJI	27.2	38	eP	22 22 53.0	-1.7

1987 11 29
 O=07 57 20.6 ± 0.05s
 LAT=45.69 S ± 1.61km
 LONG= 76.73 W ± 2.62km
 DEPTH= 21 km ± 0.03km
 STATIONS USED = 27, STAND DEV= 1.28s
 Ms=5.6/ 2,

WHN	162.6	214	PKP	08 17 22.5	0.7
-----	-------	-----	-----	------------	-----

XAN	167.6	202	cPKP	08 17 25.7	-0.5		
WMQ	168.8	94	PKP	08 17 26.9	-0.1		
			PKP ₂	08 18 37.3			
			PP	08 22 30.0	1.8		
			PPMZ			2.0	1.95
			LZ	Ms=5.6	24.0	0.85	
TIY	169.5	224	cPKP	08 17 28.4	1.0		
			LZ	Ms=5.6	28.0	1.18	
LZH	170.4	183	cPKP	08 17 29.0	0.9		
			cPP	08 22 35.0	-1.3		
			PPMZ			2.0	0.050
GTA	173.2	157	PKP	08 17 29.0	-0.6		

1987 11 29

O=09 51 10.3 ± 0.11s
 LAT=26.31 N ± 1.39km
 LONG=129.66 E ± 2.05km
 DEPTH=34 km ± 0.23km

STATIONS USED = 23, STAND DEV = 1.69s

SNY	16.3	344	-P	09 54 56.5	-1.6		
BJI	17.7	324	cP	09 55 16.5	0.3		
CN2	17.8	350	cP	09 55 16.0	-1.1		
MDJ	18.3	360	cP	09 55 22.0	-1.1		
XAN	19.5	298	P	09 55 36.6	-1.0		
			pP	09 55 48.7	3.2		
HHC	20.9	319	P	09 55 55.2	3.0		
BTO	21.6	316	cP	09 55 59.0	-1.2		
GTA	28.1	305	P	09 57 00.0	-1.9		

1987 11 29

O=14 48 04.2 ± 0.12s
 LAT=0.34 S ± 1.04km
 LONG=125.34 E ± 1.46km
 DEPTH=72 km ± 0.92km

STATIONS USED = 51, STAND DEV = 1.36s

Ms=4.6 / 1,

QZN	24.5	323	P	14 53 19.2	0.7		
GYA	32.2	327	P	14 54 27.0	-0.6		
			PcP	14 57 16.6	2.1		
WHN	32.4	342	cP	14 54 31.2	1.2		
NJ2	32.8	350	cP	14 54 33.4	0.4		
CD2	37.2	328	P	14 55 11.0	0.1		
XAN	37.5	337	cP	14 55 11.2	-2.0		
			PcP	14 57 31.0	1.0		
TIY	39.7	344	cP	14 55 30.8	-0.6		
			cS	15 01 36.0	6.2		
			LZ	Ms=4.6	30.0	0.93	
BJI	41.0	349	cP	14 55 42.5	0.0		
LZH	41.4	333	cP	14 55 46.5	1.0		
SNY	42.0	358	-P	14 55 50.6	0.3		

BTO	43.1	343	cP	14 56 01.2	2.0		
CN2	43.9	0	cP	14 56 05.0	-1.2		
LSA	44.2	315	P	14 56 07.2	-1.6		
MDJ	44.9	4	cP	14 56 14.3	0.3		
GTA	45.9	332	-iP	14 56 23.8	1.5		
WMQ	55.3	327	cP	14 57 32.0	-1.3		
KSH	60.0	317	cP	14 58 10.0	3.9		

1987 11 29

O=19 49 21.3 ± 0.06s
 LAT=28.43 S ± 1.11km
 LONG=80.95 E ± 1.20km
 DEPTH=10 km ± 0.04km

STATIONS USED = 60, STAND DEV = 0.80s

KMI	57.2	24	+P	19 59 12.5	0.5		
LSA	58.6	10	+P	19 59 21.2	-0.8		
GYA	59.9	27	+P	19 59 30.4	-0.2		
CD2	62.9	22	P	19 59 49.7	-1.0		
WHN	66.7	31	cP	20 00 17.5	1.9		
XAN	67.5	25	+iP	20 00 20.0	-0.7		
KSH	67.7	356	cP	20 00 20.0	-1.8		
LZH	67.7	20	P	20 00 22.0	0.2		
GTA	69.7	15	+P	20 00 34.2	-0.3		
NJ2	70.1	34	+P	20 00 36.5	-0.1		
TIY	72.1	26	-P	20 00 48.0	-0.7		
WMQ	72.2	5	P	20 00 48.3	-0.7		
TIA	72.8	30	P	20 00 52.5	0.0		
BTO	73.8	23	cP	20 00 59.0	0.4		
HHC	74.5	24	+P	20 01 03.9	0.8		
BJI	75.6	27	cP	20 01 09.0	0.1		
MDJ	85.2	33	cP	20 01 59.4	-0.6		

1987 11 30

O=00 26 43.1 ± 0.05s
 LAT=10.26 S ± 0.58km
 LONG=161.23 E ± 0.38km
 DEPTH=88 km ± 0.52km

STATIONS USED = 22, STAND DEV = 0.79s

MDJ	61.7	335	cP	00 36 55.0	0.3		
CN2	62.9	332	cP	00 37 02.4	-0.3		
XAN	66.4	314	cP	00 37 24.6	-0.7		
GTA	75.4	315	cP	00 38 20.0	0.4		

1987 11 30

O=01 19 30.8 ± 0.10s
 LAT=19.71 S ± 3.66km
 LONG=176.02 E ± 2.03km
 DEPTH=35 km ± 0.58km

STATIONS USED = 28, STAND DEV = 1.83s

Ms=5.3 / 1,

MDJ	76.8	328	eP	01 31 25.5	4.3
WHN	77.5	309	P	01 31 29.5	4.1
CN2	78.3	325	eP	01 31 29.0	-1.0
BJI	81.5	318	eP	01 31 45.0	-1.7
TIY	82.6	314	eP	01 31 52.0	-0.9
			sP	01 32 11.0	4.1
			LZ	Ms=5.3	36.0 1.64
XAN	83.2	310	P	01 31 55.2	-0.8
CD2	85.7	305	eP	01 32 03.6	-4.6
LZH	87.9	309	P	01 32 20.0	1.0

1987 11 30

O=01 34 44.6 ± 0.08s
 LAT=37.22 N ± 1.17km
 LONG= 69.75 E ± 1.14km
 DEPTH= 58 km ± 0.68km

STATIONS USED = 19, STAND DEV = 1.81s

KSH	5.4	64	eP	01 36 06.0	1.4
			cS	01 37 07.0	2.2
WMQ	15.1	59	P	01 38 21.2	4.4
GTA	23.6	75	P	01 39 52.5	0.6
XAN	31.8	84	eP	01 41 05.4	-1.3

1987 11 30

O=03 12 36.8 ± 0.09s
 LAT=31.05 N ± 1.33km
 LONG= 51.15 E ± 1.00km
 DEPTH= 39 km ± 0.45km

STATIONS USED = 36, STAND DEV = 1.47s

Ms=5.1/ 1,

KSH	21.9	61	eP	03 17 31.0	2.3
			cS	03 21 26.0	2.7
			LN	Ms=5.1	12.0 2.70
WMQ	31.4	56	eP	03 18 58.0	0.7
GTA	40.2	64	P	03 20 13.4	1.5
KMI	45.6	84	+P	03 20 55.5	-0.1
XAN	48.2	70	eP	03 21 16.0	-0.4
GYA	48.5	81	P	03 21 17.6	-0.6
TIY	50.2	65	+P	03 21 32.0	0.2
BJI	52.6	61	eP	03 21 50.0	0.3
NJ2	56.8	70	-P	03 22 20.0	-0.2

1987 11 30

O=04 41 40.2 ± 0.09s
 LAT= 0.08 S ± 1.33km
 LONG=125.04 E ± 1.99km
 DEPTH= 57 km ± 0.36km

STATIONS USED = 76, STAND DEV = 1.33s

Ms=5.0/ 16,

QZN	24.1	323	P	04 46 54.2	2.0
-----	------	-----	---	------------	-----

GZH	25.7	334	+P	04 47 08.4	1.5
GYA	31.8	328	P	04 48 03.2	1.4
			sP	04 48 25.0	3.8
			S	04 53 12.0	6.7
WHN	32.1	342	eP	04 48 03.5	-1.1
			LZ	Ms=4.9	28.0 2.20
NJ2	32.5	350	+P	04 48 08.0	0.1
			LZ	Ms=5.2	30.0 5.21
KMI	33.1	321	+P	04 48 13.5	0.4
			eS	04 53 29.0	2.4
			LZ	Ms=4.9	34.0 2.40
TIA	36.8	349	eP	04 48 44.6	-0.6
			LN	Ms=4.9	34.0 2.32
			LZ	Ms=5.0	34.0 2.99
CD2	36.8	329	eP	04 48 45.0	-0.3
XAN	37.2	338	-P	04 48 46.8	-1.0
			LN	Ms=5.1	14.0 1.37
TIY	39.4	344	eP	04 49 06.0	-0.3
			pP	04 49 21.0	1.1
			S	04 55 02.5	0.5
			LE	Ms=4.7	13.0 0.47
			LZ	Ms=5.0	28.0 2.22
BJI	40.7	350	eP	04 49 17.5	0.0
			ePcP	04 51 20.0	2.2
			cS	04 55 20.0	-3.5
			esS	04 55 45.0	-2.2
			LN	Ms=5.0	32.0 2.32
			LZ	Ms=5.1	28.0 2.12
LZH	41.0	334	-P	04 49 22.0	1.9
			PMZ		1.5 0.24
CN2	43.7	0	+P	04 49 40.0	-1.7
			LZ	Ms=5.0	20.0 1.20
LSA	43.8	316	eP	04 49 43.1	-0.1
MDJ	44.7	5	eP	04 49 50.0	0.3
GTA	45.6	332	+iP	04 49 57.0	0.0
			LE	Ms=5.3	18.0 1.81
WMQ	54.9	328	eP	04 51 07.5	-0.7
			cS	04 58 46.0	2.3
			LN	Ms=5.3	26.0 1.41
			LE		26.0 1.60
KSH	59.6	317	-iP	04 51 43.0	1.9
			pP	04 51 54.0	-1.1
			cS	04 59 49.0	4.0
			LN	Ms=5.4	7.0 0.60

1987 11 30

O=06 47 34.0 ± 0.14s
 LAT=25.04 N ± 1.89km
 LONG=122.36 E ± 1.69km
 DEPTH= 28 km ± 0.92km

STATIONS USED = 15, STAND DEV = 2.89s									
$M_L = 3.6 / 8,$									
QZH	3.4	269	cPn	06 48 24.5	-1.4	SME	$m_B = 7.5$	8.0	44.4
			Sn	06 49 09.6	2.4	LE	$M_S = 7.9$	20.0	606
			SMN	$M_L = 3.9$	1.4 0.47	SNY	57.1 297	-iP	19 33 03.0 -0.5
			SME		1.4 0.32			PP	19 35 07.0 -4.1
SSE	6.1	351	P	06 49 06.5	1.5			iS	19 40 54.0 -3.1
			SMN	$M_L = 3.6$	1.0 0.040			LN	$M_S = 7.7$ 18.0 248
WHN	9.0	310	P	06 49 44.0	-0.7			LE	18.0 205
1987 11 30								DL2	60.3 297 +P 19 33 26.0 0.0
O=19 08 26.7			$\pm 0.10s$					LN	$M_S = 8.3$ 15.0 495
LAT=10.54 S			$\pm 1.27km$					LE	15.0 808
LONG=165.18 E			$\pm 1.37km$			BJI	61.9 301	+P	19 33 36.0 -0.5
DEPTH= 41 km			$\pm 0.83km$					LN	$M_S = 8.2$ 15.0 831
STATIONS USED = 40, STAND DEV = 1.36s						HHC	63.2 305	-P	19 33 45.0 -0.5
SSE	59.1	316	cP	19 18 29.0	3.1			pP	19 33 55.0 4.1
			cS	19 26 33.0	4.4	BTO	64.1 306	+P	19 33 50.0 -1.2
NJ2	61.3	316	cP	19 18 41.0	0.2			pP	19 33 55.0 -1.6
WHN	63.6	312	P	19 19 00.0	3.5			sP	19 33 58.5 -0.7
MDJ	63.6	332	cP	19 18 58.0	1.4			PcP	19 34 24.0 -1.3
CN2	65.0	329	cP	19 19 04.8	-0.8			PP	19 36 12.0 -0.9
GYA	67.7	304	P	19 19 22.6	0.1			S	19 42 25.0 -0.2
BJI	67.7	321	cP	19 19 22.0	-0.8			sS	19 42 33.0 -2.6
TIY	68.8	317	cP	19 19 30.1	0.5			ScS	19 43 41.0 0.7
			cS	19 28 24.5	-4.8			LN	$M_S = 7.7$ 18.0 227
XAN	69.4	312	P	19 19 32.2	-0.8			LE	18.0 206
KMI	70.4	301	cP	19 19 40.0	0.6			LZ	$M_S = 7.8$ 18.0 394
CD2	71.9	307	P	19 19 48.0	0.0	TIA	64.6 298	-P	19 33 54.6 0.2
BTO	71.9	319	cP	19 19 44.4	-4.2			SMN	$m_B = 8.0$ 7.0 91.2
LZH	74.0	312	P	19 20 00.0	-0.8			SME	7.0 65.8
GTA	78.3	314	-P	19 20 25.8	0.6			LN	$M_S = 8.2$ 15.0 493
WMQ	88.3	315	cP	19 21 16.4	0.1			LE	15.0 583
			PP	19 24 41.0	-4.3	TIY	65.4 303	+iP	19 34 00.0 0.0
1987 11 30								pP	19 34 05.0 -0.5
O=19 23 13.9			$\pm 0.10s$					sP	19 34 10.0 1.9
LAT=58.98 N			$\pm 2.70km$					PPMZ	10.0 32.5
LONG=142.70 W			$\pm 2.04km$					LN	$M_S = 8.4$ 15.0 894
DEPTH= 10 km			$\pm 0.25km$					LE	14.0 491
STATIONS USED = 89, STAND DEV = 1.71s						SSE	66.9 292	+iP	19 34 10.0 0.7
$M_S = 8.0 / 30,$								PMZ	$m_B = 7.5$ 6.0 36.3
$m_B = 7.5 / 17$								pP	19 34 14.0 -0.8
MDJ	52.2	295	+iP	19 32 27.0	-0.4			sP	19 34 17.0 -0.4
			PcP	19 33 34.0	-4.5			cPcP	19 34 38.0 1.0
			PP	19 34 30.0	4.3			iPP	19 36 39.0 1.6
			ScP	19 37 31.0	-3.0			ScP	19 38 34.0 -5.0
			iS	19 39 48.0	-2.7			PcS	19 38 38.0 -2.3
			LN	$M_S = 7.8$	14.0 368			S	19 42 56.0 -3.8
CN2	54.7	298	+P	19 32 44.0	-2.2			sS	19 43 10.0 -0.3
			PMZ	$m_B = 7.3$	5.0 21.2			ScS	19 44 03.0 0.9
								SS	19 47 18.0 -1.8
								LN	$M_S = 8.1$ 14.0 248
								LE	14.0 437

		LE		Ms = 5.7	12.0	1.52
WMQ	69.9	323	P	23 59 30.5	0.6	
XAN	70.3	303	cP	23 59 31.6	-0.8	
LZH	70.8	308	cP	23 59 35.0	-0.3	
			PMZ		2.0	0.080
WHN	70.8	297	P	23 59 36.0	0.9	
GYA	77.8	301	P	24 00 16.4	0.4	