

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)	Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)
<p>1987 9 1 O=03 44 37.8 \pm 0.11s LAT=43.67 N \pm 1.28km LONG= 86.15 E \pm 0.92km DEPTH= 6 km \pm 0.30km STATIONS USED = 13, STAND DEV = 2.75s $M_L=4.1/8,$</p>								<p>BTO 162.3 8 ePKP 04 45 47.3 1.2 DL2 162.7 338 ePKP 04 45 47.0 0.6 ePKP₂ 04 46 35.8 BJI 162.9 353 ePKP 04 45 47.0 0.4 ePKP₂ 04 46 36.0 sPKP 04 47 08.0 LZ 32.0 2.33 LZH 164.6 30 -PKP 04 45 49.0 0.5 PKP₂ 04 46 45.5 PP 04 50 28.0 -5.4 LE 11.5 3.00 TIY 165.4 3 ePKP 04 45 48.9 -0.2 PKP₂ 04 46 47.0 sPKP 04 47 11.0 PP 04 50 33.0 -4.4 PPMZ $m_B=6.2$ 8.0 1.88 SS 05 10 52.0 -1.6 LZ 38.0 2.01 TIA 166.5 347 ePKP 04 45 50.1 0.2 PKP₂ 04 46 52.3 PP 04 50 36.7 -6.3 SKKS 04 57 00.0 LN 11.0 1.80 XAN 168.4 19 PKP 04 45 52.0 0.9 PKP₂ 04 46 59.0 PP 04 50 48.0 -4.3 LN 13.0 1.46 LE 13.0 1.58 CD2 168.4 46 PKP 04 45 52.3 1.2 ePP 04 50 50.0 -2.4 SSE 169.4 321 PKP 04 45 52.5 0.8 PP 04 50 56.0 -1.5 SKKS 04 57 20.0 LZ 20.0 1.87 NJ2 169.8 333 -PKP 04 45 52.0 0.1 sPKP 04 47 11.0 PP 04 50 56.0 -3.5 KMI 170.1 76 -PKP 04 45 52.5 0.2 PP 04 50 59.5 -1.1 SKKS 04 57 22.0 WHN 172.5 354 PKP 04 45 53.0 -0.5 PPMZ $m_B=5.9$ 12.0 1.80 SKKS 04 57 32.0 LZ 22.0 1.30 GYA 173.0 60 PKP 04 45 54.0 0.1 PKP₂ 04 47 22.0 PP 04 51 13.0 -2.2</p>							
<p>1987 9 1 O=04 26 07.7 \pm 0.18s LAT=23.08 S \pm 1.97km LONG= 66.60 W \pm 1.22km DEPTH=200 km \pm 1.48km STATIONS USED = 92,, STAND DEV = 1.22s $m_B=6.2/11$</p>															
WMQ	1.1	82	+Pg	03 45 01.2	3.3										
			Sg	03 45 17.2	3.9										
GTA	11.1	108	eP	03 47 17.6	-2.7										
KSH	144.4	54	-PKP	04 45 20.0	-1.2										
			PP	04 48 39.0	-2.3										
			PPMZ	$m_B=6.2$	4.0	1.10									
			SKS	04 52 04.0	-3.4										
			SKKS	04 55 04.0											
WMQ	150.4	39	+iPKP	04 45 32.2	1.1										
			LE		32.0	1.78									
MDJ	154.7	332	ePKP	04 45 35.8	-1.2										
			PKP ₂	04 46 01.0											
CN2	157.1	337	+PKP	04 45 39.2	-1.0										
			PKP ₂	04 46 11.0											
			ePP	04 49 54.2	1.5										
LSA	159.0	67	+PKP	04 45 42.6	-0.5										
			PKP ₂	04 46 20.5											
			PP	04 50 01.0	-2.4										
			SKKS	04 57 26.0											
SNY	159.5	338	+PKP	04 45 42.6	-0.5										
			PKP ₂	04 46 22.5											
			PP	04 50 01.8	-3.8										
			LN		32.0	3.84									
GTA	160.0	32	PKP	04 45 43.8	-0.1										
			PKP ₂	04 46 24.5											
			ePP	04 50 11.7	3.2										
			SKKS	04 56 32.5											
			SS	05 09 54.0	-4.6										
			LE		34.0	1.46									
			LZ		33.0	1.43									
HHC	162.2	5	ePKP	04 45 47.2	1.1										

BTO	90.1	314	eP	22 58 50.4	-0.2
CD2	90.3	303	eP	22 58 52.4	1.1
GTA	96.7	310	P	22 59 19.8	-0.5

1987 9 2

O=00 02 30.1 ± 0.10s

LAT=19.86 S ± 0.78km

LONG=177.48 W ± 0.86km

DEPTH=379 km ± 0.85km

STATIONS USED = 27, STAND DEV = 0.90s

QZH	76.5	303	P	00 13 40.0	-1.4		
SSE	77.7	310	P	00 13 48.5	0.6		
			PMZ			1.0	0.012
NJ2	79.8	309	eP	00 14 00.0	0.4		
MDJ	80.3	325	eP	00 14 02.0	0.2		
CN2	82.1	322	eP	00 14 11.0	-0.2		
BJI	85.8	315	eP	00 14 30.0	0.5		
XAN	88.1	307	P	00 14 41.6	0.8		

1987 9 2

O=00 37 13.3 ± 0.08s

LAT=24.51 N ± 1.16km

LONG=123.33 E ± 1.08km

DEPTH=81 km ± 0.51km

STATIONS USED = 85, STAND DEV = 1.48s

Ms=4.7/18,

m_B=5.2/2

QZH	4.3	277	eP	00 38 16.6	-1.7		
			S	00 39 01.4	-6.4		
			SMN			0.7	1.87
			SME			0.7	1.18
			LN		Ms=4.1	8.0	2.82
SSE	6.8	344	+P	00 38 52.0	-0.9		
			PMZ			0.8	0.36
			S	00 40 08.0	-1.6		
			SMN			1.0	0.20
			SME			1.0	0.28
			LN		Ms=4.7	6.0	1.49
			LE			6.0	3.18
NJ2	8.5	333	-iP	00 39 14.8	-0.8		
			S	00 40 50.0	-0.3		
			LE		Ms=5.0	4.5	4.40
GZH	9.3	263	P	00 39 25.0	-1.1		
			iS	00 41 07.0	-2.4		
			SMN			1.0	0.54
			SME			1.0	0.32
			LN		Ms=4.9	4.0	2.79
WHN	10.0	309	P	00 39 35.0	-0.9		
			S	00 41 22.5	-4.2		
QZN	13.7	249	eP	00 40 26.6	1.6		
			eS	00 42 56.0	0.7		

DL2	14.4	355	eP	00 40 38.8	4.0		
			LN		Ms=4.6	6.0	0.72
			LE			7.0	0.60
GYA	15.2	281	P	00 40 46.6	1.9		
			S	00 43 26.0	-4.4		
			LN		Ms=4.9	5.0	1.50
XAN	15.7	310	P	00 40 51.5	-0.2		
TIY	16.1	327	P	00 41 00.8	4.3		
			sP	00 41 23.0	2.1		
			LE		Ms=4.4	9.0	0.72
BJI	16.6	340	eP	00 41 05.0	2.4		
			SMN		m _B =5.4	6.0	0.27
			SME			6.0	0.73
SNY	17.3	1	+P	00 41 12.6	1.9		
			sS	00 44 46.0	4.4		
			LN		Ms=4.2	26.0	0.80
			LE			28.0	0.82
CD2	18.5	295	P	00 41 24.8	-0.3		
			S	00 44 47.0	2.7		
			LE		Ms=4.9	5.0	1.04
KMI	18.7	276	+P	00 41 29.5	1.3		
			sP	00 41 50.0	-3.5		
			iS	00 44 57.0	5.9		
			LN		Ms=4.7	8.0	0.90
HHC	19.0	332	eP	00 41 32.8	1.0		
CN2	19.3	5	eP	00 41 34.0	-0.7		
			pP	00 41 50.0	0.5		
			eS	00 45 03.0	-0.8		
			LZ		Ms=4.5	18.0	1.40
BTO	19.5	328	eP	00 41 37.0	-0.2		
			epP	00 41 50.0	-2.5		
			PP	00 41 57.0	-1.1		
			eS	00 45 07.0	-1.6		
LZH	20.4	309	+P	00 41 45.5	-0.4		
			PMZ			2.5	0.10
			pP	00 41 57.5	-4.8		
			LN		Ms=4.9	6.0	0.92
MDJ	20.7	13	eP	00 41 46.7	-2.5		
GTA	24.8	312	eP	00 42 27.6	-1.7		
			pP	00 42 45.8	-1.3		
			LN		Ms=4.5	8.0	0.27
			LE			9.0	0.28
LSA	29.1	287	+P	00 43 07.6	-1.2		
WMQ	34.9	312	eP	00 43 58.0	-1.0		

1987 9 2

O=06 06 23.3 ± 0.13s

LAT=46.72 N ± 0.67km

LONG=90.47 E ± 0.98km

DEPTH=5 km ± 0.58km

STATIONS USED = 6, STAND DEV = 3.51s
 $M_L = 3.2 / 6,$
 WMQ 3.5 215 ePn 06 07 19.8 1.0
 SMN $M_L = 3.3$ 0.5 0.080

1987 9 2

O = 12 33 03.2 ± 0.16s
 LAT = 29.27 N ± 1.32km
 LONG = 102.35 E ± 1.60km
 DEPTH = 23 km ± 0.34km

STATIONS USED = 32, STAND DEV = 2.82s

 $M_s = 3.7 / 4, M_L = 4.2 / 11,$

CD2	2.0	36	Pn	12 33 40.0	3.2		
			Pg	12 33 41.6	2.1		
			Sg	12 34 07.8	0.2		
			SME	$M_L = 4.5$	1.0	3.50	
KMI	4.1	175	+iPn	12 34 08.0	2.2		
			Pg	12 34 20.0	3.6		
			Sn	12 34 55.0	-0.1		
			SMN		2.0	0.77	
			SME		1.5	0.38	
			LE	$M_s = 3.8$	8.0	1.50	
GYA	4.7	125	Pn	12 34 15.4	1.5		
			Sn	12 35 10.0	0.2		
			Sg	12 35 34.8	3.1		
			SMN	$M_L = 4.0$	1.2	0.20	
			SME		1.2	0.20	
LZH	6.9	10	cPn	12 34 48.5	4.6		
			LE	$M_s = 3.9$	11.0	1.01	
XAN	7.4	48	ePn	12 34 49.2	-0.5		
			Pg	12 35 16.6	3.6		
			Sn	12 36 12.4	-2.2		
			Sg	12 36 51.8	-1.8		
			SMN	$M_L = 4.8$	1.0	0.19	
			SME		1.0	0.47	
GTA	10.3	349	eP	12 35 31.6	-2.0		
			LN	$M_s = 3.6$	9.0	0.21	
WHN	10.5	80	eP	12 35 39.0	3.4		
TIY	11.9	42	eP	12 35 58.0	3.1		
			LE	$M_s = 3.7$	9.0	0.22	
CN2	23.5	46	eP	12 38 12.0	-0.1		

1987 9 2

O = 14 55 47.2 ± 0.13s
 LAT = 8.60 S ± 1.72km
 LONG = 159.61 E ± 1.33km
 DEPTH = 100 km ± 1.63km

STATIONS USED = 33, STAND DEV = 1.37s

CN2	60.7	332	P	15 05 50.0	-0.6
GYA	62.1	306	P	15 06 00.0	-0.3

XAN	64.1	314	P	15 06 12.4	-0.9
KMI	64.7	303	eP	15 06 17.5	-0.2
CD2	66.3	309	P	15 06 27.9	-0.2
LZH	68.7	314	eP	15 06 44.0	1.2
GTA	73.1	316	P	15 07 09.2	0.2
WMQ	83.1	316	P	15 08 04.5	0.3

1987 9 2

O = 17 39 32.5 ± 0.18s
 LAT = 13.85 S ± 2.52km
 LONG = 163.19 E ± 5.09km
 DEPTH = 6 km ± 0.77km

STATIONS USED = 15, STAND DEV = 1.12s

TIY	70.0	319	eP	17 50 45.6	-2.1
XAN	70.2	314	P	17 50 48.4	-0.7
CD2	72.4	309	eP	17 51 04.2	2.1
LZH	74.8	314	eP	17 51 16.5	-0.1
GTA	79.2	315	P	17 51 40.2	-1.0

1987 9 2

O = 19 00 07.1 ± 0.10s
 LAT = 9.16 N ± 1.41km
 LONG = 122.19 E ± 1.98km
 DEPTH = 32 km ± 0.21km

STATIONS USED = 31, STAND DEV = 1.70s

 $M_s = 4.1 / 1,$

SSE	21.8	358	eP	19 05 00.5	1.5
			epP	19 05 07.5	-0.2
			LN	$M_s = 4.1$	20.0 0.46
GYA	22.6	321	eP	19 05 08.2	1.2
NJ2	23.0	353	eP	19 05 14.5	4.2
CD2	27.6	324	eP	19 05 53.0	-1.2
LZH	31.6	331	eP	19 06 27.5	-2.1
MDJ	35.9	9	eP	19 07 05.2	-1.5
GTA	36.2	330	eP	19 07 07.6	-1.4
WMQ	45.7	325	eP	19 08 27.0	-0.6

1987 9 2

O = 22 50 02.2 ± 0.08s
 LAT = 12.62 S ± 1.07km
 LONG = 166.86 E ± 0.76km
 DEPTH = 136 km ± 0.79km

STATIONS USED = 44, STAND DEV = 0.75s

SSE	61.7	316	P	23 00 08.0	-1.1
			PMZ		1.0 0.022
NJ2	63.9	315	+P	23 00 22.7	-0.7
MDJ	66.2	332	+P	23 00 38.4	-0.1
CN2	67.6	329	+iP	23 00 47.5	0.2
BJI	70.4	321	eP	23 01 04.0	0.0
TIY	71.5	317	P	23 01 11.0	0.5

PMZ					1.3	0.030	NJ2	36.1	345	+P	01 22 36.8	0.9		
XAN	72.0	312	P	23 01 13.6	-0.1					LE	Ms=4.6	9.0	0.30	
KMI	72.9	301	eP	23 01 20.0	0.9		WHN	36.2	338	eP	01 22 36.5	0.0		
HHC	73.7	319	eP	23 01 25.0	1.0		GYA	36.5	324	P	01 22 40.6	1.1		
BTO	74.6	319	eP	23 01 29.0	0.1					PcP	01 25 04.0	1.6		
LZH	76.6	312	+P	23 01 41.0	0.5					S	01 28 22.0	2.4		
PMZ					1.5	0.051				LE	Ms=4.8	14.0	0.70	
GTA	80.9	314	+iP	23 02 04.7	0.8		KMI	38.0	318	+P	01 22 53.5	1.3		
WMQ	91.0	315	+P	23 02 53.0	0.0					S	01 28 47.0	4.7		
1987 9 3										LE	Ms=5.0	18.0	1.30	
O=00 52 56.1				± 0.14s			TIA	40.5	344	eP	01 23 11.9	-0.7		
LAT=21.21 N				± 2.28km			XAN	41.5	334	eP	01 23 20.0	-0.6		
LONG=93.58 E				± 1.62km			CD2	41.6	326	eP	01 23 21.8	0.5		
DEPTH=62 km				± 0.65km			DL2	42.2	351	eP	01 23 28.0	2.0		
STATIONS USED = 43,	STAND DEV = 2.40s									eS	01 29 45.0	0.1		
Ms=4.2/ 3,	M _L =4.7/ 1,						TIY	43.3	340	P	01 23 35.0	-0.8		
LSA	8.7	346	P	00 55 00.9	-1.9					eS	01 29 55.5	-6.9		
KMI	9.3	63	-P	00 55 13.0	2.9					LE	Ms=4.8	17.0	0.60	
GYA	13.1	64	P	00 56 04.0	3.1		BJI	44.4	345	eP	01 23 43.5	-0.6		
CD2	13.3	41	eP	00 56 09.1	5.2		SNY	44.8	354	eP	01 23 45.8	-1.4		
XAN	18.6	43	eP	00 57 07.5	-3.8		LZH	45.5	331	-iP	01 23 54.5	0.9		
GTA	18.9	15	P	00 57 12.6	-2.2					PMZ		2.0	0.18	
WHN	20.8	59	eP	00 57 38.0	2.8		HHC	46.5	341	eP	01 24 01.5	0.7		
WMQ	23.1	349	+iP	00 57 58.3	1.0		CN2	46.6	356	eP	01 24 00.0	-1.4		
			eS	01 02 04.0	4.5		BTO	46.8	340	eP	01 24 03.0	-0.1		
			LZ	Ms=4.2	13.0	0.37				eS	01 30 50.0	-1.6		
TIY	23.2	41	eP	00 58 04.0	5.7		MDJ	47.2	0	-P	01 24 07.1	0.4		
			S	01 02 07.0	6.8		LSA	48.9	314	+P	01 24 20.0	-0.4		
			LE	Ms=4.2	8.0	0.22	GTA	50.1	330	+iP	01 24 29.0	-0.3		
KSH	23.6	324	P	00 58 06.0	3.2					cS	01 31 34.0	-5.1		
			pP	00 58 14.0	-2.5					SME	m _B =5.0	7.5	0.17	
			eS	01 02 16.0	6.7					LE	Ms=4.7	19.0	0.43	
TIA	25.4	49	eP	00 58 18.3	-1.4					LZ	Ms=4.7	20.0	0.44	
BJI	26.9	41	P	00 58 36.0	2.5		WMQ	59.7	326	+iP	01 25 38.0	-0.7		
1987 9 3										S	01 33 47.0	1.4		
O=01 15 32.6				± 0.07s						LN	Ms=5.0	13.0	0.46	
LAT=2.83 S				± 1.28km										
LONG=129.52 E				± 1.38km										
DEPTH=20 km				± 0.05km										
STATIONS USED = 80,	STAND DEV = 0.96s													
Ms=4.8/ 13,	m _B =5.0/ 1													
QZN	29.1	319	eP	01 21 34.0	-0.5									
			PP	01 22 28.0	-0.1									
			eS	01 26 22.0	-2.1									
			LN	Ms=4.8	12.0	0.70								
			LE		12.0	0.60								
GZH	30.2	329	eP	01 21 42.5	-1.9									
			eS	01 26 40.0	-1.7									
1987 9 3														
O=03 59 19.6				± 0.07s										
LAT=4.04 N				± 1.03km										
LONG=126.03 E				± 1.18km										
DEPTH=170 km				± 0.21km										
STATIONS USED = 39,	STAND DEV = 0.98s													
GYA	29.0	322	P	04 05 05.8	-0.2									
XAN	33.8	334	P	04 05 46.5	-1.5									
CD2	34.0	324	eP	04 05 48.6	-0.7									
BJI	36.9	347	eP	04 06 15.0	0.9									
SNY	37.7	357	+iP	04 06 21.6	1.1									

			PP	06 58 26.0	5.3				LZ	Ms=6.9	32.0	31.4			
			eSKS	07 04 46.0	4.1										
			eS	07 05 46.0	0.9										
			LE	Ms=6.7	42.0	31.7			1987 9 3						
TIY	103.7	324	P	06 54 13.0	-0.6				O=08 01 35.2	± 0.11s					
			PPMZ			22.0	11.0		LAT=59.56 S	± 2.27km					
			SS	07 13 17.0	4.4				LONG=159.06 E	± 3.02km					
			LN	Ms=6.7	17.0	13.3			DEPTH=33 km	± 0.24km					
			LZ	Ms=6.8	21.0	20.5			STATIONS USED = 60,	STAND DEV = 1.56s					
LSA	104.4	304	P	06 54 16.1	-1.2				Ms=6.7 / 23,	m _B =7.0 / 11					
			pP	06 54 28.0	1.9				QZN	88.0	314	+P	08 14 24.0	0.1	
			PP	06 58 32.0	-5.1							S	08 25 08.0	6.1	
			PPMZ	m _B =6.5	9.0	1.30						SKS	08 24 51.0	4.7	
SNY	104.5	334	+P	06 54 18.0	0.7							LN	Ms=6.4	14.0	5.70
			PP	06 58 41.0	2.6							LE		14.0	3.60
			S	07 06 02.0	-0.5				GZH	90.5	319	eP	08 14 34.5	-1.3	
			sS	07 06 24.0	4.3							S	08 25 30.0	4.9	
			LE	Ms=6.9	21.0	25.1						LN	Ms=6.6	42.0	10.8
BJI	104.7	328	eP	06 54 18.0	-0.2							LE		42.0	26.5
			ePP	06 58 44.0	4.1				QZH	90.5	324	eP	08 14 36.0	-0.1	
			S	07 06 08.0	3.9							PMZ	m _B =7.1	5.0	6.16
			LN	Ms=6.6	19.0	9.65						PP	08 18 10.0	-1.7	
LZH	105.0	317	eP	06 54 20.0	0.3							PPMZ	m _B =7.0	6.0	3.38
			pP	06 54 28.5	-0.3							S	08 25 25.0	-0.6	
			SKS	07 05 00.0	5.3				SSE	95.6	328	+P	08 15 01.0	1.7	
			LN	Ms=6.9	12.0	11.0						PMZ	m _B =7.1	4.0	2.21
			LE			11.0	6.43					PP	08 18 50.0	-1.9	
MDJ	105.9	339	P	06 54 24.0	0.4							SKS	08 25 34.0	3.6	
			PP	06 58 50.0	1.4							S	08 26 10.0	0.5	
			S	07 06 10.0	-4.3							SS	08 32 48.0	5.5	
			LN	Ms=6.4	16.0	5.14						LN	Ms=6.9	20.0	8.27
			LZ	Ms=6.7	18.0	13.0						LE		20.0	23.9
CN2	106.0	336	+P	06 54 23.5	-0.3				GYA	95.9	314	P	08 15 01.0	0.2	
			ePP	06 58 46.0	-3.0							SKS	08 25 38.0	5.9	
			PPMZ	m _B =7.3	6.0	6.20						S	08 26 10.0	-2.2	
			eSKKS	07 05 02.0								LN	Ms=6.5	28.0	12.0
			eS	07 06 14.0	-2.5							LE		28.0	10.0
			LZ	Ms=7.2	20.0	39.4			KMI	96.2	311	+P	08 15 02.5	0.4	
BTO	107.0	323	Pdif	06 54 33.8	5.2							PP	08 18 56.0	-0.5	
			LN	Ms=6.9	20.0	14.4						eS	08 26 13.0	-3.6	
			LE			20.0	16.4					LN	Ms=6.8	19.0	17.7
			LZ	Ms=6.9	20.0	20.8			WHN	97.1	322	P	08 15 05.0	-1.0	
GTA	109.4	315	ePdif	06 54 36.0	-3.1							PP	08 19 08.0	4.3	
			PPMZ	m _B =7.0	10.0	5.11						PPMZ	m _B =7.4	7.0	7.50
			LE	Ms=6.5	17.0	7.09						LE	Ms=6.8	18.0	18.1
			LZ	Ms=6.9	18.0	17.4			NJ2	97.1	326	-P	08 15 07.0	0.7	
WMQ	117.8	309	PKP	06 58 58.0	0.5				CD2	101.0	314	eP	08 15 24.6	0.7	
			iPP	07 00 12.0	-3.0				TIA	101.5	327	eP	08 15 21.2	-5.0	
			PPMZ	m _B =6.8	3.5	1.43						ePP	08 19 33.5	-4.3	
			LN	Ms=7.2	45.0	74.7						LN	Ms=6.9	17.0	11.0

LAT = 35.91 N ± 1.98km
 LONG = 30.66 E ± 1.25km
 DEPTH = 47 km ± 0.94km
 STATIONS USED = 63, STAND DEV = 1.54s
 Ms = 4.6 / 2,

KSH	35.8	70	eP	12 46 54.0	2.3
			eS	12 52 28.0	3.3
WMQ	43.7	61	eP	12 47 58.4	0.6
			S	12 54 25.0	1.9
			ScS	12 57 54.0	4.8
			LN	Ms = 4.7	32.0 0.88
			LZ	Ms = 4.6	28.0 0.72
GTA	53.6	64	+iP	12 49 14.0	-0.4
LZH	57.8	66	+P	12 49 44.0	-0.6
CD2	59.9	72	eP	12 49 59.4	0.4
BTO	60.5	59	eP	12 50 03.4	0.4
HHC	61.5	59	eP	12 50 09.1	-0.5
KMI	61.8	78	eP	12 50 11.5	-0.3
XAN	62.5	66	P	12 50 15.8	-0.4
TIY	63.4	61	eP	12 50 21.7	-0.8
GYA	64.2	75	eP	12 50 27.4	-0.5
BJI	65.0	58	eP	12 50 31.5	-1.2
TIA	67.4	61	eP	12 50 47.6	-0.6
CN2	69.3	50	P	12 51 01.0	1.2
NJ2	70.7	64	+P	12 51 08.7	0.1

1987 9 3

O = 14 41 16.8 ± 0.08s
 LAT = 6.45 S ± 1.64km
 LONG = 103.88 E ± 1.72km
 DEPTH = 29 km ± 0.32km

STATIONS USED = 27, STAND DEV = 0.81s

GYA	32.8	5	P	14 47 51.0	0.5
LSA	38.0	342	P	14 48 33.7	-0.9
XAN	40.5	6	P	14 48 55.5	-0.1
NJ2	40.9	20	eP	14 49 00.0	1.8
GTA	45.8	356	P	14 49 38.1	-0.2
			PcP	14 51 16.0	0.8
BTO	47.2	6	eP	14 49 48.6	-0.4
BJI	47.6	13	eP	14 49 52.5	-0.1
WMQ	52.1	345	-iP	14 50 27.6	0.4

1987 9 3

O = 15 26 20.9 ± 0.11s
 LAT = 7.12 S ± 1.23km
 LONG = 154.30 E ± 1.31km
 DEPTH = 33 km ± 0.31km

STATIONS USED = 39, STAND DEV = 1.25s

MDJ	56.1	339	eP	15 35 59.5	-0.4
CN2	57.0	335	P	15 36 05.6	-0.8

BJI	58.6	326	eP	15 36 17.0	-0.8
XAN	59.3	317	P	15 36 22.5	-0.1
BTO	62.5	323	eP	15 36 45.0	0.5
LZH	63.9	316	eP	15 36 55.0	1.3
GTA	68.4	317	-iP	15 37 22.6	0.7
WMQ	78.4	317	P	15 38 22.2	1.2

1987 9 3

O = 18 15 51.1 ± 0.38s
 LAT = 9.05 S ± 7.46km
 LONG = 80.49 W ± 8.98km
 DEPTH = 25 km ± 2.60km

STATIONS USED = 32, STAND DEV = 3.17s

WMQ	143.9	15	ePKP	18 35 22.5	-3.0
BJI	145.7	337	ePKP	18 35 26.5	-2.1
BTO	147.2	345	PKP	18 35 32.0	0.7
TIY	149.2	340	ePKP	18 35 37.0	2.6
GTA	149.8	360	ePKP	18 35 34.1	-1.3
SSE	150.2	320	-PKP	18 35 39.1	3.2
NJ2	150.9	325	+PKP	18 35 41.0	4.0
LZH	152.8	352	-PKP	18 35 46.0	6.1
XAN	153.7	342	ePKP	18 35 40.0	-1.0

1987 9 3

O = 20 35 17.2 ± 0.11s
 LAT = 9.38 N ± 1.55km
 LONG = 122.54 E ± 2.14km
 DEPTH = 33 km ± 0.16km

STATIONS USED = 66, STAND DEV = 1.54s

Ms = 4.5 / 18, m_B = 5.3 / 2

QZN	15.6	309	eP	20 38 54.5	-1.9
			eS	20 41 45.0	-3.5
			LN	Ms = 4.6	18.0 1.80
			LE		17.0 1.70
QZH	15.9	347	eP	20 39 05.5	4.9
			LN	Ms = 4.0	16.0 0.47
GZH	16.2	328	P	20 39 09.0	4.5
			LE	Ms = 4.5	12.0 1.20
SSE	21.6	357	-P	20 40 08.0	1.1
			pP	20 40 17.5	1.8
			sP	20 40 20.5	0.7
			LN	Ms = 4.2	10.0 0.22
			LE		10.0 0.24
WHN	22.4	341	eP	20 40 17.0	2.6
			S	20 44 18.0	4.9
			LZ	Ms = 4.2	20.0 0.60
GYA	22.7	321	P	20 40 18.0	0.6
			LN	Ms = 4.7	13.0 0.60
			LE		13.0 0.90
NJ2	22.8	352	-P	20 40 20.0	1.5

STATIONS USED = 28, STAND DEV = 1.07s

WMQ	42.6	70	+iP	01 48 13.0	0.8
GTA	52.7	69	P	01 49 30.2	-0.2
HHC	59.4	61	eP	01 50 18.4	0.5
CD2	60.2	75	P	01 50 24.0	0.2
XAN	61.7	69	P	01 50 36.8	2.7
BJI	62.7	60	P	01 50 39.5	-0.5
KMI	63.2	81	+P	01 50 43.0	-0.6
GYA	65.0	77	P	01 50 55.0	-0.5

1987 9 4

O=02 06 13.7 ± 0.05s

LAT=33.73 N ± 0.58km

LONG=137.31 E ± 0.25km

DEPTH=356 km ± 0.57km

STATIONS USED = 25, STAND DEV = 0.61s

NJ2	15.6	269	+P	02 09 37.0	0.0
WHN	19.7	267	+P	02 10 20.0	1.5
XAN	23.5	279	eP	02 10 54.8	-0.4
GYA	27.4	263	P	02 11 29.6	-0.7
GTA	30.5	292	eP	02 11 56.5	-0.7

1987 9 4

O=02 51 47.1 ± 0.11s

LAT=24.99 N ± 1.16km

LONG=115.73 E ± 0.91km

DEPTH=10 km ± 0.14km

STATIONS USED = 12, STAND DEV = 2.66s

$M_L = 3.5 / 12,$

QZH	2.6	90	ePn	02 52 28.7	-0.8
			Sn	02 53 01.6	-1.5
			SMN	$M_L = 3.2$	0.5 0.16
			SME		0.4 0.070
GZH	2.9	230	-Pg	02 52 39.5	1.4
			Sg	02 53 15.0	-2.6
			SMN	$M_L = 3.8$	0.5 0.46
			SME		0.5 0.38
GYA	8.3	282	P	02 53 46.0	-4.8

1987 9 4

O=04 27 08.1 ± 0.10s

LAT=49.44 N ± 2.04km

LONG=156.21 E ± 1.59km

DEPTH=32 km ± 0.09km

STATIONS USED = 97, STAND DEV = 1.12s

$M_s = 6.4 / 59,$

$m_B = 6.3 / 29$

MDJ	18.7	265	+P	04 31 25.5	-1.3
			pP	04 31 35.0	0.8
			SMN	$m_B = 6.6$	9.0 23.5
			LE	$M_s = 6.1$	16.0 51.5

CN2	21.8	267	+iP	04 31 56.0	-3.3
			PMZ		20.0 14.3
			pP	04 32 06.0	-2.0
			eS	04 35 48.0	-5.6
			LZ	$M_s = 6.4$	13.0 58.9
SNY	23.9	264	+iP	04 32 20.0	-0.3
			PMZ		18.0 6.28
			pP	04 32 32.5	3.4
			iS	04 36 32.0	0.2
			SMN		18.0 18.7
			SME		18.0 15.8
			LN	$M_s = 6.3$	13.0 12.0
			LE		15.0 51.0
			LZ	$M_s = 6.3$	15.0 53.3
DL2	26.7	260	+iP	04 32 47.0	0.0
			PMZ	$m_B = 6.1$	6.0 2.96
			epP	04 32 59.0	3.2
			sP	04 33 04.0	4.2
			PPMZ		7.0 3.70
			eS	04 37 20.0	1.2
			LN	$M_s = 6.3$	12.0 33.3
			LE		11.0 7.71
BJI	29.6	267	+P	04 33 12.5	-0.8
			epP	04 33 22.0	-0.2
			PMZ	$m_B = 5.8$	8.0 1.60
			ePP	04 34 14.0	4.4
			eS	04 38 08.0	2.3
			SME	$m_B = 5.7$	8.0 1.38
			LN	$M_s = 6.4$	14.0 26.7
			LE		14.0 32.8
TIA	31.2	260	+P	04 33 26.9	-0.3
			PMZ	$m_B = 6.2$	6.0 2.51
			pP	04 33 37.0	1.0
			eS	04 38 33.3	3.0
			SMN		13.0 4.68
			SME		13.0 3.15
			LN	$M_s = 6.5$	13.5 17.6
			LE		13.5 38.6
			LZ	$M_s = 6.2$	13.5 23.4
SSE	32.0	248	+P	04 33 34.5	0.2
			PMZ		1.5 0.32
			sP	04 33 45.0	-2.1
			LN	$M_s = 6.2$	14.0 22.4
			LZ	$M_s = 6.0$	16.0 15.2
HHC	32.2	272	+iP	04 33 35.8	-0.5
			PP	04 34 47.5	4.2
NJ2	32.8	252	+iP	04 33 41.0	0.0
			PMZ	$m_B = 6.6$	4.5 4.00
			pP	04 33 51.0	1.0
			iS	04 38 50.0	-5.0

			LN	Ms = 6.6	13.0	31.2			LE	Ms = 6.4	14.0	19.2
			LE		13.5	41.9			LZ	Ms = 6.4	13.0	20.7
TIY	33.4	266	+P	04 33 46.3	0.2		GYA	44.3	257	+P	04 35 18.0	0.4
			PMZ	m _B = 6.2	6.0	2.30			PMZ	m _B = 6.6	5.0	4.40
			pP	04 33 56.0	1.0				sP	04 35 34.0	3.5	
			LZ	Ms = 6.2	17.0	25.5			PP	04 36 58.0	-4.2	
BTO	33.4	272	+iP	04 33 45.5	-0.7				S	04 41 48.0	-0.3	
			pP	04 33 57.5	2.4				sS	04 42 02.0	-2.4	
			PP	04 34 58.0	0.2				LN	Ms = 6.5	15.0	24.0
			S	04 39 02.0	-1.3				LE		15.0	14.0
			LN	Ms = 6.9	14.0	56.1	WMQ	45.9	290	+iP	04 35 30.6	0.3
			LE		15.0	89.8			PP	04 37 21.0	3.3	
			LZ	Ms = 6.9	14.0	104			PcS	04 41 01.5	1.9	
WHN	36.6	255	+iP	04 34 14.0	0.1				SS	04 45 33.0	4.6	
			PMZ	m _B = 6.8	4.0	7.10			LN	Ms = 6.8	14.0	29.3
			S	04 39 52.0	-1.7				LE		14.0	33.9
			LZ	Ms = 6.1	20.0	19.2			LZ	Ms = 6.8	16.0	55.5
XAN	37.8	264	+P	04 34 24.0	-0.1		KMI	47.8	260	+iP	04 35 45.5	0.5
			S	04 40 15.0	3.0				pP	04 35 55.0	1.1	
			LN	Ms = 6.6	17.0	31.3			sP	04 36 01.5	3.7	
			LE		16.0	39.7			PcP	04 37 16.0	2.8	
QZH	38.1	244	+iP	04 34 27.0	0.9				PcS	04 41 10.0	2.6	
			PMZ	m _B = 6.7	5.0	5.99			S	04 42 39.0	1.5	
			ipP	04 34 38.0	2.8				ScS	04 45 36.0	3.8	
			S	04 40 20.0	4.2				SS	04 46 02.0	1.4	
			SME		18.0	6.64			LN	Ms = 6.3	15.0	16.4
			LN	Ms = 6.3	14.0	11.0	QZN	47.8	248	+iP	04 35 47.0	2.0
			LE		14.0	17.3			PMZ	m _B = 6.6	6.0	4.60
LZH	39.9	271	+iP	04 34 42.0	0.5				pP	04 35 57.0	2.8	
			PP	04 36 14.0	-3.3				sP	04 36 02.0	4.0	
			S	04 40 50.0	6.7				PcP	04 37 14.0	0.6	
			SMN	m _B = 5.9	10.0	2.29			PP	04 37 39.0	3.5	
			LN	Ms = 6.7	18.0	52.7			S	04 42 43.0	5.0	
			LE		18.0	34.2			LN	Ms = 6.5	14.5	5.20
GTA	40.6	278	+iP	04 34 47.6	0.1				LE		16.0	27.9
			PP	04 36 25.4	1.0		LSA	52.2	273	+iP	04 36 19.3	0.2
			S	04 40 53.5	-0.7				LN	Ms = 6.7	16.0	15.7
			sS	04 41 12.0	1.8				LE		17.0	30.2
			LN	Ms = 6.9	14.0	46.7	KSH	55.6	292	-iP	04 36 44.0	0.3
			LE		12.5	50.1			pP	04 36 54.0	1.2	
GZH	42.6	248	+P	04 35 04.5	1.0				PcP	04 37 45.0	2.8	
			PMZ	m _B = 6.4	5.0	3.15			S	04 44 24.0	-0.7	
			pP	04 35 16.0	3.3				sS	04 44 43.0	1.9	
			S	04 41 23.0	-0.4				SS	04 48 05.0	-4.6	
			sS	04 41 46.0	6.6				LE	Ms = 6.8	12.0	30.9
			LN	Ms = 5.9	17.0	7.89						
			LE		17.0	3.14						
CD2	43.2	265	eP	04 35 08.7	0.4							
			PMZ	m _B = 6.6	5.0	4.81						
			S	04 41 30.5	-1.2							

1987 9 4

O = 14 34 37.9 ± 0.13s
 LAT = 5.40 S ± 0.87km
 LONG = 152.24 E ± 0.86km

DEPTH = 55 km \pm 1.07km
STATIONS USED = 31, STAND DEV = 1.26s
Ms = 5.0 / 1,

XAN	56.7	317	P	14 44 17.8	-0.8
KMI	56.9	305	eP	14 44 20.5	0.4
HHC	59.2	325	eP	14 44 36.8	0.4
BTO	59.9	324	eP	14 44 41.0	-0.5
GTA	65.7	318	+iP	14 45 19.5	-0.3
			LZ	Ms=5.0	21.0 0.57
LSA	68.1	305	+P	14 45 34.4	-0.8
WMQ	75.8	318	P	14 46 20.5	-0.1
KSH	82.9	311	eP	14 47 01.4	2.5

1987 9 4
O = 16 42 47.6 \pm 0.13s
LAT = 43.24 N \pm 1.51km
LONG = 13.76 E \pm 1.72km
DEPTH = 16 km \pm 0.31km
STATIONS USED = 54, STAND DEV = 1.24s
Ms = 4.9 / 4,

KSH	45.9	72	P	16 51 14.0	1.8
			eS	16 57 59.0	3.3
WMQ	51.9	62	P	16 51 59.0	0.7
			S	16 59 13.0	-5.0
			LZ	Ms=4.9	16.0 0.51
LSA	61.6	75	+P	16 53 07.5	-0.6
GTA	61.9	61	+iP	16 53 09.7	-0.1
			LN	Ms=4.8	16.0 0.36
			LZ	Ms=4.9	21.0 0.57
LZH	66.5	62	+iP	16 53 40.0	0.6
			PMZ		2.0 0.098
BTO	67.6	55	eP	16 53 46.0	-0.3
CD2	69.6	67	P	16 53 59.7	0.9
TIY	70.8	56	eP	16 54 06.7	0.2
			S	17 03 18.0	-0.5
			LE	Ms=5.1	12.0 0.41
XAN	71.0	61	+P	16 54 08.0	0.6
BJI	71.5	52	eP	16 54 11.0	0.4
KMI	72.5	72	eP	16 54 17.0	0.1
CN2	74.0	44	+P	16 54 25.6	0.3
GYA	74.4	68	P	16 54 28.0	0.5
NJ2	78.5	57	eP	16 54 51.0	0.2

1987 9 4
O = 20 47 37.4 \pm 0.09s
LAT = 3.14 N \pm 1.11km
LONG = 126.87 E \pm 1.85km
DEPTH = 32 km \pm 0.29km
STATIONS USED = 29, STAND DEV = 1.25s

NJ2	29.7	346	eP	20 53 44.0	0.8
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XAN	35.0	333	P	20 54 28.2	-1.2
BJI	38.0	347	eP	20 54 54.5	0.0
LZH	39.1	330	eP	20 55 04.0	0.2
MDJ	41.4	3	-P	20 55 23.5	0.9
GTA	43.7	329	eP	20 55 40.6	-0.9
WMQ	53.3	325	eP	20 56 54.5	-1.4

1987 9 4
O = 21 28 42.7 \pm 0.07s
LAT = 3.16 N \pm 0.85km
LONG = 126.93 E \pm 1.68km
DEPTH = 33 km \pm 0.28km
STATIONS USED = 23, STAND DEV = 1.27s

XAN	35.0	333	P	21 35 33.8	-0.9
BJI	38.0	347	eP	21 36 00.0	0.3
LZH	39.1	330	eP	21 36 06.5	-2.6
MDJ	41.4	3	eP	21 36 28.0	0.3
GTA	43.7	329	P	21 36 46.8	-0.1

1987 9 5
O = 08 41 07.3 \pm 0.15s
LAT = 23.85 N \pm 1.82km
LONG = 93.76 E \pm 1.78km
DEPTH = 74 km \pm 0.66km
STATIONS USED = 23, STAND DEV = 2.70s

LSA	6.3	339	+P	08 42 39.4	-0.4
KMI	8.3	79	+P	08 43 08.5	1.3
GYA	12.0	75	eP	08 43 57.4	0.3
LZH	15.0	33	eP	08 44 40.0	3.3
GTA	16.3	17	eP	08 44 55.8	2.0
XAN	16.7	49	eP	08 44 55.3	-2.7

1987 9 5
O = 11 33 29.4 \pm 0.08s
LAT = 28.30 N \pm 1.72km
LONG = 140.20 E \pm 1.51km
DEPTH = 319 km \pm 0.56km
STATIONS USED = 28, STAND DEV = 1.20s

NJ2	18.8	287	eP	11 37 25.0	-3.2
SNY	19.1	319	+P	11 37 33.2	2.1
QZH	19.6	265	eP	11 37 38.2	2.3
WHN	22.6	282	P	11 38 06.0	1.0
XAN	27.3	290	P	11 38 46.4	-1.5
GYA	29.8	274	P	11 39 09.6	-0.3
CD2	31.7	284	-iP	11 39 26.4	0.0
KMI	33.5	273	eP	11 39 43.0	0.8
GTA	35.1	299	P	11 39 54.1	-0.9

1987 9 5
O = 13 50 38.8 \pm 0.07s

LAT = 3.14 N ± 0.88km
 LONG = 126.85 E ± 1.70km
 DEPTH = 31 km ± 0.30km

STATIONS USED = 22, STAND DEV = 1.41s

XAN	35.0	334	P	13 57 27.9	-2.9
BJI	38.0	347	eP	13 57 57.0	1.0
SNY	38.6	356	eP	13 58 01.3	0.0
MDJ	41.4	3	eP	13 58 25.1	1.0
GTA	43.7	329	eP	13 58 41.8	-1.2

1987 9 5

O = 15 58 40.5 ± 0.09s

LAT = 10.50 S ± 1.23km

LONG = 161.58 E ± 0.85km

DEPTH = 108 km ± 1.00km

STATIONS USED = 36, STAND DEV = 1.09s

NJ2	58.8	318	eP	16 08 30.0	-0.4
MDJ	62.0	335	eP	16 08 51.8	-0.5
CN2	63.2	331	P	16 08 58.0	-2.4
BJI	65.5	323	eP	16 09 15.5	0.2
CD2	69.0	309	eP	16 09 38.8	1.5
BTO	69.6	320	eP	16 09 41.7	0.8
GTA	75.8	315	P	16 10 17.8	0.8
WMQ	85.8	316	eP	16 11 09.0	-1.1

1987 9 5

O = 19 48 37.3 ± 0.13s

LAT = 3.51 S ± 1.29km

LONG = 150.85 E ± 1.56km

DEPTH = 34 km ± 0.32km

STATIONS USED = 40, STAND DEV = 1.17s

NJ2	46.6	322	eP	19 57 05.0	0.4
WHN	48.6	317	P	19 57 21.0	1.0
BJI	53.8	327	P	19 57 58.0	-1.1
XAN	54.4	317	+P	19 58 02.0	-1.5
KMI	54.7	304	+P	19 58 06.5	0.6
CD2	56.4	311	eP	19 58 19.0	0.5
BTO	57.6	324	eP	19 58 27.0	0.0
GTA	63.4	318	+P	19 59 06.6	0.1
WMQ	73.5	318	eP	20 00 09.5	0.5

1987 9 5

O = 20 46 11.7 ± 0.11s

LAT = 22.47 N ± 1.43km

LONG = 118.70 E ± 1.41km

DEPTH = 11 km ± 0.36km

STATIONS USED = 100, STAND DEV = 1.71s

M_s = 5.5 / 57, M_L = 5.1 / 2, m_B = 5.4 / 7

QZH	2.5	358	+Pn	20 46 52.4	0.2
			Pg	20 46 57.0	1.8

			Sn	20 47 18.5	-5.7		
			Sg	20 47 23.5	-5.3		
			LN			8.0	39.7
			LE			8.0	42.3
GZH	5.0	278	-iPn	20 47 28.4	1.5		
			Sn	20 48 30.0	3.3		
			LN	M _s = 5.2		8.0	10.7
			LE			8.0	28.0
SSE	8.9	14	eP	20 48 24.7	1.6		
			LN	M _s = 5.5		7.0	17.6
WHN	8.9	335	P	20 48 22.5	-1.4		
			pP	20 48 25.5	-3.3		
			S	20 50 00.0	-5.3		
			LZ	M _s = 5.6		8.0	26.5
QZN	9.0	249	P	20 48 23.6	-0.9		
			eS	20 50 05.0	-1.4		
			LE	M _s = 5.1		10.0	11.5
NJ2	9.5	1	+P	20 48 30.0	-2.4		
			S	20 50 16.0	-4.5		
			LN	M _s = 5.9		7.0	22.3
			LE			5.0	26.7
GYA	11.7	292	-P	20 49 00.6	-1.0		
			LN	M _s = 5.5		14.0	24.0
			LE			14.0	7.00
TIA	13.8	355	eP	20 49 30.3	0.8		
			PP	20 49 43.6	3.6		
			LN	M _s = 5.7		9.0	8.80
			LE			10.0	15.3
			LZ	M _s = 5.3		9.0	6.70
XAN	14.4	325	P	20 49 35.3	-2.4		
			LN	M _s = 5.8		10.0	9.40
			LE			8.0	18.9
KMI	14.8	283	eP	20 49 44.0	0.0		
			sP	20 49 53.0	1.0		
			LE	M _s = 5.6		9.0	13.7
CD2	15.8	305	eP	20 49 55.0	-0.8		
			eS	20 52 46.0	-5.0		
			LN	M _s = 5.8		10.0	18.8
			LE			10.0	10.5
			LZ	M _s = 5.6		9.0	11.5
TIY	16.1	342	eP	20 50 01.4	1.0		
			SS	20 53 17.0	-0.4		
			LN	M _s = 5.6		8.0	8.94
			LZ	M _s = 5.4		10.0	7.90
DL2	16.6	8	eP	20 50 11.9	5.9		
			LN	M _s = 5.4		11.0	7.32
			LE			12.0	3.43
BJI	17.6	354	eP	20 50 21.5	2.0		
			PMZ	m _B = 5.0		7.0	0.52
			eS	20 53 36.0	1.8		

			LN	Ms=5.1	12.0	4.20
			LE		12.0	1.80
			LZ	Ms=5.0	14.0	3.50
LZH	18.7	320	eP	20 50 33.0	-0.1	
			PMZ	m _B =5.2	9.0	1.09
			eS	20 54 05.0	5.8	
			LN	Ms=5.8	8.0	8.25
			LE		9.0	9.02
HHC	19.3	343	eP	20 50 42.0	2.3	
			S	20 54 12.0	1.3	
			LN	Ms=5.6	9.0	8.43
			LE		9.0	2.20
BTO	19.5	340	P	20 50 42.5	0.3	
			ePP	20 51 03.0	3.8	
			S	20 54 15.0	-0.8	
			SS	20 54 41.0	-1.2	
			LN	Ms=5.4	11.0	3.60
			LE		11.0	4.50
			LZ	Ms=5.2	10.0	3.90
SNY	19.7	11	+P	20 50 43.0	-1.5	
			S	20 54 24.0	3.3	
			LN	Ms=5.6	9.0	5.62
			LE		10.0	6.25
CN2	22.0	13	+P	20 51 07.0	-1.0	
			eS	20 55 03.0	-2.8	
			LZ	Ms=5.7	20.0	16.9
GTA	23.3	321	P	20 51 21.5	0.2	
			S	20 55 29.0	-0.1	
			SME		15.0	2.36
			sS	20 55 37.5	-1.1	
			LE	Ms=5.1	14.0	3.12
			LZ	Ms=5.4	9.0	3.93
MDJ	23.8	20	eP	20 51 26.0	-0.1	
			eS	20 55 36.0	-2.8	
			LN	Ms=5.5	6.0	3.04
LSA	25.7	292	+P	20 51 45.0	0.2	
			SME	m _B =5.4	12.0	1.38
			LE	Ms=5.4	9.0	3.63
WMQ	33.3	317	eP	20 52 51.6	-0.2	
			eS	20 58 09.0	-2.2	
			LE	Ms=5.6	10.0	3.41
			LZ	Ms=5.4	9.0	2.26
KSH	39.9	305	eP	20 53 51.0	2.5	
			eS	20 59 57.0	3.2	
			LN	Ms=5.6	12.0	3.00

1987 9 5
 O=23 37 45.0 ± 0.29s
 LAT=23.05 N ± 2.62km
 LONG=118.43 E ± 1.85km

DEPTH= 10 km					
STATIONS USED = 17, STAND DEV = 2.73s					
M _L =3.9 / 13,					
QZH	1.9	5	ePn	23 38 18.0	0.2
			ePg	23 38 22.0	3.5
			SMN	M _B =3.6	0.3 0.41
			SME		0.6 0.67
GZH	4.7	271	ePn	23 38 54.6	-1.5
			eSn	23 39 56.4	3.8
			SMN	M _L =3.8	0.7 0.17
			SME		0.7 0.11
QZN	9.0	245	eP	23 40 00.0	2.3
GYA	11.2	290	eP	23 40 26.4	-2.5
			S	23 42 41.6	6.6

1987 9 6

O=09 05 53.1 ± 0.14s
 LAT=26.93 N ± 2.89km
 LONG= 35.00 E ± 2.45km
 DEPTH= 11 km ± 0.63km
 STATIONS USED = 23, STAND DEV = 1.49s

WMQ	45.4	54	-iP	09 14 15.5	1.5
GTA	54.6	59	P	09 15 24.5	-0.2
XAN	62.9	64	P	09 16 22.2	0.2
GYA	63.2	72	P	09 16 23.0	-1.2

1987 9 6

O=09 16 47.4 ± 0.12s
 LAT=36.68 N ± 0.89km
 LONG=119.76 E ± 0.93km
 DEPTH= 16 km ± 0.37km
 STATIONS USED = 9, STAND DEV = 2.17s

M _L =3.4 / 12,					
TIA	2.2	258	Pn	09 17 22.8	-0.7
			Pg	09 17 26.3	0.4
			Sg	09 17 55.1	-0.6
			SMN	M _L =2.8	0.4 0.078
			SME		0.3 0.060
			SMZ	M _L =3.0	0.4 0.076
NJ2	4.7	189	ePg	09 18 12.8	2.7
			Sg	09 19 07.9	-6.1
			SME	M _L =3.4	0.4 0.050

1987 9 6

O=15 27 20.8 ± 0.08s
 LAT=49.38 N ± 2.02km
 LONG=156.16 E ± 1.39km
 DEPTH= 40 km ± 0.28km
 STATIONS USED = 96, STAND DEV = 1.09s
 Ms=5.7 / 61, m_B=5.9 / 5

			PMZ		14.0	1.30			eSS	22 07 54.0	-2.8		
			sP	21 59 23.2	-0.7				LN	Ms = 5.7	18.0	7.00	
			S	22 03 26.0	4.7				LE		18.0	5.80	
			SMN			20.0	2.70		LZ	Ms = 6.0	14.0	12.8	
			SME			16.0	1.74	WHN	36.5	255	+P	22 01 04.6	-0.2
			LN	Ms = 5.6		18.0	5.88		sP	22 01 16.2	-1.5		
			LE			17.0	8.52		LZ	Ms = 5.4	20.0	3.70	
			LZ	Ms = 5.5		17.0	8.95	XAN	37.7	264	P	22 01 14.6	-0.6
DL2	26.6	260	P	21 59 40.0	2.1				LN	Ms = 5.8	16.0	4.81	
			sP	21 59 51.0	0.4				LE		16.0	6.73	
			ePP	22 00 22.0	0.1			QZH	38.0	244	cP	22 01 19.0	2.1
			eS	22 04 14.0	5.0				PMZ	m _B = 5.9	5.0	1.03	
			LN	Ms = 5.4		14.0	5.35		pP	22 01 29.0	3.0		
BJI	29.6	267	eP	22 00 03.5	-0.8				S	22 07 11.0	5.2		
			SMN			22.0	1.31		LE	Ms = 5.3	14.0	2.28	
			SME			22.0	2.20	LZH	39.8	271	cP	22 01 32.5	-0.1
			LN	Ms = 5.4		24.0	7.09		PMZ		1.0	0.069	
			LE			23.0	1.28		eS	22 07 36.0	0.7		
TIA	31.1	260	eP	22 00 17.0	-1.1				LN	Ms = 6.2	14.0	12.0	
			eS	22 05 24.0	3.4				LE		13.0	7.40	
			LE	Ms = 5.5		13.0	4.63	GTA	40.6	278	P	22 01 38.7	0.0
SSE	31.9	248	eP	22 00 25.5	0.4				PMZ	m _B = 5.3	7.0	0.38	
			sP	22 00 39.0	1.1				PP	22 03 17.0	1.4		
			eS	22 05 40.0	7.0				eS	22 07 46.0	-0.3		
			LN	Ms = 5.6		20.0	6.56		LE	Ms = 5.7	12.5	4.56	
			LE			20.0	5.17	GZH	42.5	248	P	22 01 56.0	1.6
			LZ	Ms = 5.5		20.0	7.01		eS	22 08 19.0	4.5		
HHC	32.2	272	eP	22 00 26.0	-1.5				LN	Ms = 5.5	20.0	3.69	
			ePP	22 01 36.0	2.0			CD2	43.1	265	cP	22 02 00.0	0.6
			S	22 05 35.0	-1.2			GYA	44.2	257	P	22 02 08.6	0.0
			LN	Ms = 5.7		12.0	2.72		sP	22 02 19.0	-2.4		
			LE			15.0	7.31		LN	Ms = 5.6	16.0	3.30	
			LZ	Ms = 5.8		14.0	8.13		LE		16.0	2.20	
NJ2	32.7	252	-P	22 00 32.2	0.3			WMQ	45.9	290	P	22 02 22.0	0.2
			sP	22 00 42.0	-2.6				PP	22 04 13.0	3.9		
			S	22 05 43.0	-1.3				LN	Ms = 6.0	14.0	5.15	
			LE	Ms = 5.6		14.0	5.90		LE		13.0	5.44	
TIY	33.3	266	+P	22 00 37.0	-0.1				LZ	Ms = 5.9	16.0	6.99	
			PMZ			1.0	0.030	KMI	47.7	260	+P	22 02 36.5	0.4
			PP	22 01 55.0	6.6				pP	22 02 47.5	2.6		
			eS	22 05 53.0	-1.6				PP	22 04 28.0	1.8		
			sS	22 06 11.0	1.7				eS	22 09 32.0	2.6		
			PcS	22 07 04.5	1.7				sS	22 09 47.0	2.9		
			LN	Ms = 5.4		15.0	1.31		SS	22 12 56.0	5.3		
			LE			15.0	3.43		LN	Ms = 5.6	17.0	3.60	
			LZ	Ms = 5.4		18.0	4.20		LZ	Ms = 5.6	18.0	3.40	
BTO	33.3	273	+P	22 00 36.0	-1.4			QZN	47.7	248	cP	22 02 37.6	1.6
			epP	22 00 46.0	-0.2				sP	22 02 47.5	-1.4		
			ePP	22 01 47.0	-1.7				S	22 09 34.0	5.8		
			eS	22 05 53.0	-2.0				sS	22 09 48.0	3.6		

		eS	05 54 51.0	3.0					SMN	$m_B = 6.0$	8.0	3.10		
		LE	$M_s = 4.5$	13.5	0.53				LE	$M_s = 5.8$	12.0	11.0		
XAN	27.6	335	P	05 50 14.9	-1.5				LZ	$M_s = 5.6$	12.0	6.53		
CD2	27.7	323	eP	05 50 16.4	-1.0			LSA	31.4	97	iP	11 38 46.0	-1.1	
DL2	29.5	359	eP	05 50 36.0	3.0			GTA	34.6	75	+iP	11 39 14.6	0.1	
TIY	29.7	344	eP	05 50 34.0	-1.2						PMZ	$m_B = 5.8$	5.0	0.68
		eS	05 55 26.0	-2.0							pP	11 39 23.0	-1.7	
		LN	$M_s = 4.5$	12.0	0.28						S	11 44 43.0	3.9	
		LE		14.0	0.36						sS	11 44 57.0	-0.3	
BJI	31.1	350	eP	05 50 47.0	-0.6						LE	$M_s = 5.6$	13.0	4.46
LZH	31.6	330	eP	05 50 51.5	-0.8			LZH	38.6	79	+iP	11 39 49.5	0.8	
		PMZ			1.2	0.039					PMZ		1.5	0.35
SNY	32.4	1	+iP	05 50 58.6	-0.2						PP	11 41 17.0	-3.8	
HHC	32.9	345	eP	05 51 03.0	-0.2						eS	11 45 42.0	-0.5	
CN2	34.4	4	+P	05 51 15.0	-1.6						SMN	$m_B = 5.6$	9.0	0.95
		eS	05 56 37.0	-4.8							LN	$M_s = 5.9$	16.0	5.40
		LZ	$M_s = 4.4$	20.0	0.50						LE		16.0	6.90
LSA	35.7	309	-P	05 51 26.1	-1.6			CD2	40.6	87	eP	11 40 05.2	0.4	
MDJ	35.7	9	eP	05 51 27.0	-0.2						eS	11 46 14.0	2.3	
GTA	36.2	330	P	05 51 31.7	-0.1						LE	$M_s = 5.7$	13.0	4.26
		LZ	$M_s = 4.7$	22.0	0.91						LZ	$M_s = 5.6$	13.0	3.78
WMQ	45.8	325	P	05 52 48.7	-1.8			BTO	41.8	70	+iP	11 40 16.0	1.2	
											sP	11 40 29.0	-0.5	
											eS	11 46 30.0	0.3	
								KMI	42.6	95	+iP	11 40 21.5	0.1	
											PMZ		3.0	0.60
											pP	11 40 32.5	0.9	
											sP	11 40 38.0	2.0	
											PP	11 42 02.0	-0.7	
											PcP	11 42 12.0	-0.9	
											PcS	11 46 06.0	2.4	
											S	11 46 42.0	2.0	
											SS	11 49 50.0	4.4	
											LZ	$M_s = 5.7$	16.0	5.60
								HHC	42.8	69	eP	11 40 24.0	0.6	
								XAN	43.3	80	P	11 40 26.5	-0.2	
											PP	11 42 08.0	-1.4	
											S	11 46 53.0	3.2	
											SS	11 50 04.0	6.1	
											LN	$M_s = 5.9$	16.0	4.33
											LE		16.0	5.77
								TIY	44.5	73	+iP	11 40 37.2	0.3	
											PMZ		1.0	0.11
											PP	11 42 19.0	-2.8	
											S	11 47 12.0	4.0	
											LE	$M_s = 5.6$	12.0	2.99
											LZ	$M_s = 5.7$	18.0	5.85
								GYA	44.9	91	P	11 40 39.8	-0.5	
											PMZ		1.4	0.20
											sP	11 40 52.6	-2.4	

1987 9 7

O=10 05 46.0 ± 0.07s

LAT=36.42 N ± 1.16km

LONG= 70.76 E ± 1.03km

DEPTH= 203 km ± 0.79km

STATIONS USED = 27, STAND DEV = 1.50s

KSH	5.1	52	P	10 07 04.0	0.9		
			S	10 08 03.0	0.8		
			LN			3.0	1.10
WMQ	14.9	55	P	10 09 07.9	-0.5		
			eS	10 11 43.0	-5.6		
GTA	23.1	74	+P	10 10 36.7	1.5		
GYA	32.0	98	P	10 11 56.4	0.1		

1987 9 7

O=11 32 26.8 ± 0.16s

LAT=39.45 N ± 1.63km

LONG= 54.68 E ± 1.24km

DEPTH= 39 km ± 0.78km

STATIONS USED = 88, STAND DEV = 1.04s

$M_s = 5.8 / 47, m_B = 5.8 / 8$

KSH	16.5	83	P	11 36 12.0	-4.7		
			pP	11 36 20.0	-4.7		
			LN	$M_s = 6.5$	4.0	35.3	
WMQ	25.0	69	+iP	11 37 49.2	0.6		
			PMZ	$m_B = 6.0$	4.0	2.30	
			S	11 42 12.0	5.8		



			PP	11 42 26.0	0.0		
			S	11 47 16.0	1.9		
			ScS	11 50 32.0	1.3		
			LN	Ms=5.5	20.0	2.30	
			LE		20.0	2.30	
BJI	46.4	69	+iP	11 40 52.5	0.4		
			PP	11 42 47.0	6.4		
			S	11 47 40.0	4.5		
			SMN	m _B =5.3	6.0	0.27	
			SS	11 51 00.0	5.5		
			LN	Ms=5.8	8.0	1.69	
			LE		8.0	1.82	
TIA	48.6	73	eP	11 41 08.6	-0.1		
			sP	11 41 25.0	1.5		
			PP	11 43 04.0	3.4		
			eS	11 48 09.0	2.4		
			LN	Ms=5.8	14.0	2.58	
			LE		14.0	3.46	
WHN	48.9	81	P	11 41 11.5	0.1		
			PMZ		1.0	0.30	
			sP	11 41 24.0	-2.2		
			S	11 48 12.0	1.6		
			LZ	Ms=5.9	20.0	7.50	
DL2	50.8	68	+P	11 41 25.0	-0.7		
			PMZ		3.0	0.77	
			epP	11 41 35.0	-1.1		
			ePP	11 43 22.0	0.1		
			eS	11 48 36.0	-1.4		
			LN	Ms=5.5	12.0	1.69	
SNY	51.0	64	+iP	11 41 27.0	-0.7		
			pP	11 41 38.0	-0.2		
			ePP	11 43 31.0	6.7		
			eS	11 48 38.0	-3.0		
			LN	Ms=6.0	17.0	4.32	
			LE		17.0	6.84	
			LZ	Ms=6.1	17.0	9.30	
QZN	51.4	97	P	11 41 30.2	-0.5		
			ePP	11 43 29.0	1.2		
			eS	11 48 48.0	1.5		
			ScS	11 51 18.0	4.4		
			eSS	11 52 24.0	4.8		
			LE	Ms=5.4	20.0	2.40	
CN2	51.6	61	+P	11 41 31.4	-0.5		
			PMZ		3.0	0.80	
			pP	11 41 42.0	-0.4		
			ePP	11 43 30.0	0.8		
			eS	11 48 48.0	-0.9		
			esS	11 49 04.0	-2.5		
			ScS	11 51 17.0	2.2		
			LZ	Ms=6.3	18.0	15.8	

NJ2	51.6	77	+P	11 41 31.9	-0.3		
			pP	11 41 42.0	-0.7		
			sP	11 41 45.0	-2.1		
			LE	Ms=5.6	13.0	2.30	
GZH	51.9	90	+P	11 41 33.5	-0.4		
			eS	11 48 56.0	3.6		
SSE	53.8	77	+iP	11 41 48.9	0.2		
			PMZ		1.0	0.20	
			pP	11 41 58.2	-1.1		
			sP	11 42 02.0	-1.7		
			eS	11 49 20.0	0.6		
			eSS	11 53 00.0	1.4		
			LZ	Ms=5.9	18.0	5.45	
MDJ	54.1	58	-P	11 41 49.6	-0.7		
			pP	11 41 59.5	-1.4		
			S	11 49 24.0	2.7		
			LZ	Ms=5.9	14.0	4.85	

1987 9 7

O = 11 57 09.0 ± 0.07s
 LAT = 31.12 S ± 2.96km
 LONG = 177.80 W ± 3.28km
 DEPTH = 37 km ± 0.88km
 STATIONS USED = 91, STAND DEV = 1.45s
 Ms = 6.3 / 42, m_B = 6.4 / 18

QZH	82.5	305	+P	12 09 28.0	-2.1		
			PMZ	m _B =6.4	8.0	3.33	
			S	12 19 40.0	-1.5		
			SME	m _B =6.5	9.0	3.37	
			LE	Ms=6.2	40.0	12.1	
SSE	84.7	311	eP	12 09 41.0	-0.2		
			pP	12 09 51.3	-0.3		
			SKS	12 19 56.0	-1.6		
			S	12 20 10.0	6.6		
			LN	Ms=6.5	20.0	5.55	
			LE		20.0	10.8	
			LZ	Ms=6.6	20.0	14.9	
GZH	85.2	300	+P	12 09 44.0	0.5		
			PMZ	m _B =6.4	12.0	4.94	
			PP	12 13 00.0	-1.6		
			S	12 20 08.5	0.6		
			SME		20.0	3.55	
			LN	Ms=6.0	46.0	8.20	
QZN	85.5	295	+P	12 09 45.0	0.1		
			S	12 20 08.0	-2.8		
			LN	Ms=6.2	17.0	3.90	
			LE		20.0	3.40	
NJ2	86.8	311	-P	12 09 52.4	0.7		
			sP	12 10 08.0	1.7		
			LE	Ms=6.2	16.0	4.40	

1987 9 7
 O=21 09 34.3 ± 0.13s
 LAT=21.57 N ± 1.91km
 LONG=119.79 E ± 2.08km
 DEPTH= 21 km ± 0.75km
 STATIONS USED = 68, STAND DEV = 2.16s
 Ms=4.6/32, ML=4.1/12, mb=4.9/2

QZH	3.5	342	ePg	21 10 34.5	-2.4		
			Sn	21 11 05.5	-6.2		
			SME	ML=4.3	1.5	0.83	
			LN	Ms=4.1	10.0	5.08	
GZH	6.2	285	+iPn	21 11 04.4	-0.2		
			Sn	21 12 20.5	4.0		
			SMN	ML=4.3	1.0	0.22	
			SME		1.0	0.21	
			LE	Ms=4.3	12.0	3.43	
SSE	9.6	7	eP	21 12 00.1	5.8		
			LE	Ms=4.6	12.0	3.60	
			LZ	Ms=4.6	10.0	2.86	
QZN	9.7	257	eP	21 11 53.4	-2.2		
			eS	21 13 51.0	6.3		
			LN	Ms=4.6	12.0	2.20	
			LE		12.0	3.20	
WHN	10.2	332	eP	21 12 03.0	0.3		
			sP	21 12 14.0	1.8		
			LZ	Ms=4.2	14.0	1.40	
GYA	12.9	295	P	21 12 38.0	-2.3		
			sP	21 12 49.6	-0.2		
			LN	Ms=4.7	10.0	1.80	
			LE		10.0	1.20	
TIA	14.8	352	eP	21 13 10.5	6.2		
			LN	Ms=4.5	11.0	1.35	
XAN	15.7	325	P	21 13 21.0	4.7		
			LE	Ms=4.6	9.0	1.24	
KMI	16.1	286	eP	21 13 26.5	5.5		
			LE	Ms=4.6	10.0	1.20	
CD2	17.1	306	eP	21 13 36.8	2.5		
			LE	Ms=4.8	10.0	1.95	
			LZ	Ms=4.7	8.0	1.15	
TIY	17.3	340	+P	21 13 38.2	1.5		
			LZ	Ms=4.7	12.0	1.71	
DL2	17.4	5	eP	21 13 40.0	2.8		
			LN	Ms=4.8	12.0	1.42	
			LE		12.0	1.29	
BJI	18.7	351	P	21 13 54.0	0.4		
			S	21 17 21.0	3.5		
			SME	mb=4.8	10.0	0.51	
LZH	20.1	320	eP	21 14 09.0	-0.7		
			LN	Ms=5.0	11.0	2.14	

HHC	20.4	342	eP	21 14 14.6	1.0		
SNY	20.5	8	eP	21 14 13.8	0.3		
			S	21 17 54.0	-2.3		
			LE	Ms=4.8	12.0	1.68	
BTO	20.7	339	eP	21 14 17.0	0.7		
			epP	21 14 25.5	2.6		
			eS	21 18 02.0	0.0		
			LN	Ms=4.6	12.0	0.90	
			LE		14.0	0.50	
			LZ	Ms=4.6	14.0	1.20	
CN2	22.7	11	eP	21 14 35.0	-0.9		
			pP	21 14 43.5	0.7		
			eS	21 18 34.0	-4.4		
			LZ	Ms=5.0	14.0	2.30	
MDJ	24.4	17	eP	21 14 52.5	0.0		
			pP	21 15 01.5	2.0		
GTA	24.7	321	eP	21 14 55.0	-0.4		
			LE	Ms=4.5	14.0	0.71	
			LZ	Ms=4.6	14.0	0.77	
WMQ	34.6	317	P	21 16 25.5	0.9		
			eS	21 21 52.0	-0.2		
			LN	Ms=4.8	12.0	0.73	
KSH	41.3	306	eP	21 17 22.9	2.3		
			eS	21 23 34.0	0.1		
			LE	Ms=4.9	12.0	0.70	

1987 9 7
 O=22 42 20.4 ± 0.22s
 LAT=31.73 N ± 2.10km
 LONG=132.34 E ± 2.63km
 DEPTH= 65 km ± 1.21km
 STATIONS USED = 33, STAND DEV = 2.02s
 Ms=4.5/15,

NJ2	11.5	275	eP	22 45 03.0	-0.7		
			LE	Ms=4.2	13.0	1.20	
SNY	12.3	328	-iP	22 45 15.8	1.2		
			LN	Ms=4.3	11.0	0.64	
			LE		12.0	0.98	
			LZ	Ms=4.5	12.0	1.80	
CN2	13.2	338	eP	22 45 26.0	-1.1		
			eS	22 48 00.0	6.9		
			LZ	Ms=4.5	12.0	1.80	
TIA	13.4	294	eP	22 45 30.3	1.0		
			LN	Ms=4.5	12.0	1.39	
			LE		12.0	0.87	
BJI	15.5	307	P	22 45 56.0	-0.5		
TIY	17.4	296	P	22 46 23.5	2.8		
			LE	Ms=4.5	12.0	1.02	
			LZ	Ms=4.6	14.0	1.41	
HHC	19.0	304	eP	22 46 39.2	-0.9		

LAT=40.41 N ± 1.23km
 LONG=122.69 E ± 1.33km
 DEPTH= 14 km ± 0.32km
 STATIONS USED = 10, STAND DEV = 3.18s

$M_L = 2.9 / 7,$

SNY	1.6	25	-iPg	07 22 01.6	0.9		
			Sg	07 22 21.8	-0.4		
			SMN	$M_L = 3.0$	0.4	0.25	
			SME		0.6	0.13	
DL2	1.7	209	Pg	07 22 03.7	0.5		
			Sg	07 22 26.0	-0.6		
			SMN	$M_L = 2.9$	0.5	0.092	
			SME		0.5	0.16	
CN2	4.0	30	ePg	07 22 48.0	5.1		
			eSg	07 23 37.0	-0.1		
			SMN	$M_L = 2.9$	0.6	0.030	
			SME		0.6	0.020	

1987 9 8

O=09 04 51.1 ± 0.08s

LAT=34.92 N ± 1.10km

LONG= 23.27 E ± 1.29km

DEPTH= 31 km ± 0.22km

STATIONS USED = 25, STAND DEV = 1.10s

WMQ	49.5	59	+iP	09 13 41.4	0.3		
GTA	59.4	61	P	09 14 53.0	-1.0		
CD2	65.9	68	eP	09 15 37.4	0.4		
HHC	67.1	55	eP	09 15 44.4	0.2		
XAN	68.3	63	P	09 15 51.6	-0.6		

1987 9 8

O=13 35 14.7 ± 0.08s

LAT=49.74 N ± 1.95km

LONG=156.16 E ± 1.20km

DEPTH= 81 km ± 0.13km

STATIONS USED = 95, STAND DEV = 1.08s

$M_s = 5.0 / 30,$ $m_B = 5.6 / 9$

MDJ	18.7	264	-P	13 39 27.5	-2.2		
			pP	13 39 47.0	2.8		
			SMN	$m_B = 5.6$	8.0	1.42	
			LZ	$M_s = 4.9$	14.0	2.80	
CN2	21.8	266	+P	13 39 58.0	-3.4		
			sP	13 40 28.0	-1.1		
			eS	13 43 50.0	-2.2		
			LZ	$M_s = 5.1$	24.0	5.90	
SNY	23.9	263	+P	13 40 21.0	-1.3		
			LN	$M_s = 5.1$	26.0	5.21	
			LE		23.0	1.85	
DL2	26.8	259	eP	13 40 49.6	0.6		
			csP	13 41 16.5	-0.8		

			PP	13 41 40.0	3.4		
			eS	13 45 19.0	1.8		
			SMN	$m_B = 5.3$	12.0	1.00	
			esS	13 45 52.0	3.0		
			LN	$M_s = 4.8$	12.0	1.00	
BJI	29.6	266	eP	13 41 14.5	-0.4		
			ePP	13 42 12.0	-1.7		
			eS	13 46 00.0	-3.4		
			esS	13 46 34.0	-1.6		
			LN	$M_s = 5.0$	28.0	2.81	
			LE		30.0	1.95	
			LZ	$M_s = 4.9$	32.0	2.64	
SSE	32.1	248	+iP	13 41 37.7	1.0		
			PMZ		1.1	0.16	
			S	13 46 44.0	2.6		
			SMN		14.0	1.38	
			LN	$M_s = 4.6$	12.0	0.52	
			LZ	$M_s = 4.8$	20.0	1.40	
HHC	32.2	271	eP	13 41 37.0	-0.7		
			LN	$M_s = 5.2$	12.0	1.30	
			LE		13.0	1.20	
			LZ	$M_s = 5.3$	14.0	2.63	
NJ2	32.9	252	+P	13 41 43.2	0.0		
BTO	33.3	272	eP	13 41 46.8	-0.7		
			pP	13 42 05.0	-1.1		
			ePP	13 42 54.0	-6.8		
			eS	13 47 01.0	-0.6		
			LN	$M_s = 5.3$	16.0	1.50	
			LE		14.0	2.00	
			LZ	$M_s = 5.3$	14.0	2.70	
TIY	33.3	266	-P	13 41 47.6	0.0		
			PMZ		1.3	0.14	
			PP	13 43 08.0	6.9		
			S	13 47 06.0	5.2		
			LE	$M_s = 4.7$	20.0	0.97	
			LZ	$M_s = 4.9$	38.0	2.64	
WHN	36.7	254	eP	13 42 16.5	0.6		
			S	13 47 54.0	2.0		
			sS	13 48 29.0	3.2		
			LZ	$M_s = 4.8$	20.0	0.90	
XAN	37.8	264	eP	13 42 24.0	-1.6		
LZH	39.9	270	eP	13 42 43.0	0.3		
			PMZ		1.5	0.30	
			LN	$M_s = 5.0$	32.0	2.45	
GTA	40.6	277	+iP	13 42 48.5	0.2		
			PMZ		3.0	0.50	
			PP	13 44 28.2	2.7		
			eS	13 48 47.0	-4.9		
			LE	$M_s = 5.2$	18.0	1.99	
			LZ	$M_s = 5.3$	18.0	2.24	

GZH	42.7	247	P	13 43 07.0	1.3		
			cS	13 49 24.0	1.0		
CD2	43.2	264	cP	13 43 09.8	0.1		
GYA	44.4	257	P	13 43 19.2	-0.1		
			pP	13 43 39.0	0.5		
			ScP	13 48 49.0	4.1		
WMQ	45.8	290	P	13 43 31.2	0.6		
			PMZ			1.5	0.26
			sP	13 44 01.0	1.5		
			PP	13 45 23.1	4.2		
			ScS	13 53 17.0	2.0		
			LZ	Ms=5.1	28.0	1.79	
KMI	47.8	259	+P	13 43 46.5	-0.1		
			pP	13 44 05.0	-0.7		
			PP	13 45 39.5	1.3		
			S	13 50 40.0	4.9		
			LZ	Ms=5.0	37.0	1.83	
QZN	47.9	247	P	13 43 50.0	2.9		
			PP	13 45 41.0	1.9		
			S	13 50 43.0	6.6		
			SMN	m _B =5.6	10.0	0.90	
LSA	52.2	273	P	13 44 20.4	0.3		
KSH	55.4	292	P	13 44 47.0	3.1		
			sP	13 45 16.0	2.8		
			ScS	13 54 24.0	3.3		
			LE	Ms=5.4	12.0	1.10	
1987 9 8							
O=13 38 17.0 ± 0.23s							
LAT=32.43 N ± 0.81km							
LONG=121.68 E ± 2.44km							
DEPTH= 20 km							
STATIONS USED = 12, STAND DEV= 1.92s							
M _L =3.5/14,							
SSE	1.4	198	cPg	13 38 43.5	1.6		
			Sg	13 39 02.3	1.2		
			SMN	M _L =3.4	0.4	0.48	
			SME		0.5	0.73	
NJ2	2.4	262	+Pg	13 38 59.6	-0.4		
			iSg	13 39 31.2	-2.0		
			SMN	M _L =3.5	0.4	0.30	
			SME		0.4	0.30	
TIA	5.3	316	cPg	13 39 52.0	0.7		
			Sg	13 41 01.2	-3.0		
			SMN	M _L =3.3	0.7	0.032	
			SME		0.7	0.035	
			SMZ	M _L =3.4	0.7	0.025	

1987 9 8

O=13 43 18.7 ± 0.12s

LAT= 3.60 S	± 1.37km
LONG=144.66 E	± 2.12km
DEPTH= 6 km	± 0.79km
STATIONS USED = 15, STAND DEV= 2.28s	
LZH	54.9 320 cP 13 52 52.0 -1.1
GTA	59.4 321 P 13 53 24.6 -0.7
WMQ	69.5 320 P 13 54 29.0 -1.7

1987 9 8

O=19 28 28.7 ± 0.12s

LAT=17.54 N ± 1.61km

LONG=120.41 E ± 1.90km

DEPTH= 27 km ± 0.33km

STATIONS USED = 96, STAND DEV= 1.67s

Ms=4.8/37, M_L=5.2/4, m_B=5.3/5

QZH	7.6	347	Pn	19 30 18.2	0.6		
			SMN	M _L =5.1	0.5	0.33	
			SME		1.3	1.09	
			LE	Ms=4.4	24.0	6.06	
GZH	8.6	311	+P	19 30 31.5	-3.3		
			S	19 32 05.5	-6.5		
			SMN	M _L =4.9	1.0	0.30	
			SME		1.0	0.24	
			LN	M _S =4.7	14.0	5.65	
QZN	10.1	280	P	19 30 51.6	-4.3		
			LN	Ms=4.6	14.0	3.40	
SSE	13.5	3	+P	19 31 41.8	0.5		
			PMZ		1.0	0.037	
			sP	19 31 52.2	-0.1		
			cS	19 34 05.2	-6.5		
			LE	Ms=4.4	12.0	1.36	
			LZ	Ms=4.7	18.0	4.03	
WHN	14.1	338	cP	19 31 48.0	-0.7		
			S	19 34 24.7	0.2		
			LE	Ms=4.7	10.0	1.90	
NJ2	14.5	355	cP	19 31 56.2	1.7		
			pP	19 32 02.5	1.4		
			LN		1.2	0.30	
GYA	15.5	307	P	19 32 06.2	-1.5		
			sP	19 32 15.0	-3.5		
			S	19 34 52.0	-6.6		
			LN	Ms=5.0	14.0	3.00	
			LE		14.0	3.10	
KMI	18.1	298	+P	19 32 42.0	1.7		
			sP	19 32 55.0	3.8		
			LZ	Ms=5.0	15.0	3.90	
TIA	18.8	352	cP	19 32 50.4	1.3		
			cS	19 36 20.0	5.2		
			SME	m _B =5.2	11.0	1.27	
			LN	Ms=4.9	14.0	2.22	

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1987 9 9
 O = 05 06 27.5 ± 0.07s
 LAT = 17.89 S ± 0.65km
 LONG = 178.45 W ± 1.09km
 DEPTH = 574 km ± 0.55km
 STATIONS USED = 37, STAND DEV = 0.72s

NJ2	77.9	309	-P	05 17 28.2	-0.4
MDJ	78.2	325	eP	05 17 30.0	0.1
CN2	80.0	322	+iP	05 17 39.8	0.2
BJI	83.7	315	eP	05 17 58.5	-0.1
GYA	85.0	300	P	05 18 05.6	0.8
XAN	86.2	307	P	05 18 11.5	0.9
GTA	95.0	310	P	05 18 51.2	0.0

1987 9 9
 O = 11 51 29.8 ± 0.06s
 LAT = 32.65 N ± 0.67km
 LONG = 121.77 E ± 0.74km
 DEPTH = 20 km ± 0.91km
 STATIONS USED = 6, STAND DEV = 2.81s
 M_L = 3.1 / 7,

SSE	1.6	198	ePn	11 51 56.3	-1.5
			Pg	11 51 57.1	-1.5
			Sn	11 52 15.3	-4.5
			Sg	11 52 16.2	-4.7
			SMN	M _L = 3.1	0.5 0.19
			SME		0.5 0.29
NJ2	2.5	257	-Pg	11 52 12.8	-1.9
			Sg	11 52 44.1	-5.3
			SMN	M _L = 3.3	0.4 0.17
			SME		0.4 0.16

1987 9 9
 O = 12 45 48.7 ± 0.10s
 LAT = 24.86 N ± 1.41km
 LONG = 95.20 E ± 1.18km
 DEPTH = 117 km ± 0.29km
 STATIONS USED = 67, STAND DEV = 1.79s

LSA	6.0	324	+P	12 47 17.2	-0.1
			S	12 48 25.0	0.1
			SMN		1.2 8.40
			SME		0.8 5.50
KMI	6.8	86	eP	12 47 31.0	2.7
CD2	9.7	50	eP	12 48 06.5	0.2
GYA	10.5	79	eP	12 48 22.0	5.1
LZH	13.4	32	eP	12 48 55.5	-0.6
QZN	14.8	110	P	12 49 15.5	2.6
			eS	12 51 54.0	0.0
GTA	15.0	14	-iP	12 49 20.0	3.6
XAN	15.0	49	P	12 49 14.6	-1.9

WHN	17.9	67	P	12 49 52.5	1.2
TIY	19.5	45	eP	12 50 06.6	-2.5
WMQ	19.9	344	-P	12 50 14.6	1.2
BTO	20.0	35	eP	12 50 13.0	-1.6
			eS	12 53 48.0	-0.3
KSH	21.8	317	P	12 50 35.5	3.1
			eS	12 54 20.0	-1.2
NJ2	22.0	66	+iP	12 50 35.0	0.8
BJI	23.2	44	eP	12 50 46.5	0.3
SSE	23.7	69	eP	12 50 51.5	0.1
			pP	12 51 20.6	4.9

1987 9 9
 O = 16 54 46.2 ± 0.10s
 LAT = 10.70 N ± 1.13km
 LONG = 125.90 E ± 2.32km
 DEPTH = 150 km ± 1.06km
 STATIONS USED = 38, STAND DEV = 1.46s

QZN	17.6	300	eP	16 58 43.2	-0.1
			eS	17 01 54.0	1.7
NJ2	22.2	344	+P	16 59 33.5	2.3
WHN	22.5	333	eP	16 59 35.0	1.3
GYA	24.0	313	P	16 59 48.6	0.1
TIA	26.6	344	eP	17 00 12.1	-0.7
XAN	27.9	329	P	17 00 23.7	-1.3
CD2	28.7	318	eP	17 00 31.6	-0.5
TIY	29.5	338	eP	17 00 38.4	-0.4
BJI	30.5	345	eP	17 00 46.0	-1.3
SNY	31.1	357	eP	17 00 52.0	-0.6
GTA	36.8	325	P	17 01 41.4	-0.5
LSA	37.5	305	eP	17 01 47.0	-0.7
WMQ	46.6	322	-iP	17 03 02.6	0.8

1987 9 9
 O = 18 08 49.9 ± 0.13s
 LAT = 46.49 N ± 1.13km
 LONG = 119.73 E ± 1.40km
 DEPTH = 27 km ± 0.73km
 STATIONS USED = 14, STAND DEV = 2.65s
 M_L = 3.6 / 12,

CN2	4.9	122	ePn	18 10 01.0	-0.6
			Pg	18 10 18.0	2.4
			Sn	18 10 53.8	-4.9
			eSg	18 11 17.0	-5.0
			SMN	M _L = 3.5	1.0 0.070
			SME		1.0 0.060
SNY	5.4	148	ePg	18 10 28.7	3.1
			Sg	18 11 34.8	-4.8
			SMN	M _L = 3.3	0.8 0.020
			SME		0.8 0.040

MDJ	7.2	102	ePg	18 11 00.0	3.4				eS	00 55 42.0	0.7		
			Sg	18 12 33.2	-1.4				LN	Ms=4.3	12.0	0.40	
			SMN	M _L =3.8	0.8	0.040			LE		13.0	0.30	
									LZ	Ms=4.5	12.0	0.70	
1987 9 9													
O=	19 10 08.0				± 0.04s				CD2	22.6 290 eP	00 51 56.2	-0.8	
LAT=	47.73 N				± 0.44km				KMI	23.4 275 -P	00 52 07.0	1.7	
LONG=	85.48 E				± 0.48km				LZH	23.7 302 eP	00 52 08.6	0.1	
DEPTH=	33 km				± 0.65km					PMZ		1.5	0.043
STATIONS USED = 6, STAND DEV = 1.36s													
M _L =3.4 / 6,													
WMQ	4.2	158	Pn	19 11 10.9	0.5				1987 9 10				
			Sn	19 11 55.5	-4.5				O=	02 26 23.3		± 0.08s	
			SMN	M _L =3.5	0.5	0.080			LAT=	7.08 S		± 1.07km	
STATIONS USED = 96, STAND DEV = 0.89s													
m _B =5.3 / 4													
1987 9 10													
O=	00 45 01.6				± 0.12s				QZN	29.2 333 eP	02 31 39.2	-0.2	
LAT=	80.74 N				± 1.41km					S	02 35 51.0	-0.4	
LONG=	3.50 W				± 1.61km				GZH	31.5 342 P	02 31 59.5	0.0	
DEPTH=	15 km				± 0.33km				GYA	37.1 335 -P	02 32 46.0	0.5	
STATIONS USED = 15, STAND DEV = 2.06s													
WMQ	47.3	80	P	00 53 39.4	2.4					PMZ		1.2	0.13
LSA	61.6	80	eP	00 55 22.0	-0.3					PcP	02 34 50.6	1.0	
										ScP	02 37 42.0	2.7	
										S	02 37 49.0	-1.9	
										ScS	02 41 50.6	1.9	
1987 9 10													
O=	00 46 57.9				± 0.10s				KMI	37.8 329 -P	02 32 53.0	1.5	
LAT=	25.43 N				± 1.55km				SSE	38.0 357 +iP	02 32 53.6	0.4	
LONG=	128.64 E				± 1.78km					PMZ		0.9	0.17
DEPTH=	33 km				± 0.35km					PcP	02 34 52.5	-0.2	
STATIONS USED = 56, STAND DEV = 1.76s													
Ms=4.2 / 7,													
SSE	8.7	312	eP	00 49 03.0	-0.9				WHN	38.4 347 -P	02 32 57.0	0.7	
			LZ	Ms=4.1	12.0	1.45				PMZ		1.0	0.19
NJ2	10.8	310	eP	00 49 38.0	4.2					ScP	02 37 45.5	1.2	
WHN	13.6	295	eP	00 50 15.0	3.9				NJ2	39.1 354 -iP	02 33 03.2	0.8	
			LZ	Ms=4.1	16.0	0.90				PcP	02 34 57.2	0.9	
SNY	16.9	347	eP	00 50 53.6	0.2					iScP	02 37 48.7	1.5	
BJI	17.9	327	eP	00 51 07.0	0.6				CD2	42.2 335 -iP	02 33 27.0	0.4	
TIY	18.4	316	eP	00 51 12.2	-0.5					S	02 39 02.8	-1.8	
			PMZ		1.2	0.11			XAN	43.1 342 P	02 33 33.7	-0.2	
			S	00 54 29.0	-4.2					PcP	02 35 10.5	0.9	
			LN	Ms=4.2	13.5	0.51				pP	02 35 20.5	1.7	
CN2	18.5	353	+P	00 51 13.5	-0.2					ScP	02 38 04.8	1.8	
			eS	00 54 36.0	0.0					S	02 39 14.9	-3.0	
			LZ	Ms=4.2	15.0	0.60			TIA	43.5 353 -P	02 33 35.3	-1.2	
QZN	18.5	254	eP	00 51 16.0	2.2					PcP	02 35 11.0	0.3	
XAN	19.1	301	P	00 51 20.3	-0.9					ScP	02 38 05.9	1.5	
GYA	19.8	278	P	00 51 29.4	0.9					eS	02 39 20.2	-3.5	
HHC	20.9	321	-P	00 51 41.0	0.4				TIY	45.7 348 -P	02 33 53.4	-0.5	
BTO	21.7	319	eP	00 51 48.0	0.0					PMZ		0.6	0.070

DEPTH = 20 km ± 0.27km
 STATIONS USED = 8, STAND DEV = 1.66s
 $M_L = 3.6 / 8,$
 WMQ 1.8 343 Pn 05 12 41.7 0.4
 Sg 05 13 05.4 -1.4
 SMN $M_L = 3.4$ 0.4 0.36

1987 9 10
 O = 07 18 54.6 ± 0.10s
 LAT = 2.43 S ± 1.48km
 LONG = 134.05 E ± 2.44km
 DEPTH = 35 km ± 0.37km
 STATIONS USED = 29, STAND DEV = 1.89s
 GYA 39.0 319 P 07 26 15.4 -4.8
 KMI 40.9 314 +P 07 26 36.5 0.9
 XAN 43.3 329 P 07 26 55.5 0.2
 CD2 43.9 321 eP 07 27 01.0 0.5
 BJI 45.3 341 eP 07 27 12.5 1.1
 HHC 47.7 337 eP 07 27 31.5 1.1
 GTA 52.2 327 P 07 28 05.0 0.5
 WMQ 61.9 324 P 07 29 14.0 0.1

1987 9 10
 O = 13 24 21.1 ± 0.07s
 LAT = 43.18 N ± 1.07km
 LONG = 13.78 E ± 1.01km
 DEPTH = 11 km ± 0.31km
 STATIONS USED = 15, STAND DEV = 1.09s
 KSH 45.9 72 eP 13 32 48.0 1.6
 GTA 61.9 61 P 13 34 43.8 -0.4
 XAN 71.0 61 P 13 35 42.2 0.4

1987 9 10
 O = 14 17 13.8 ± 0.03s
 LAT = 40.37 N ± 0.23km
 LONG = 122.05 E ± 0.26km
 DEPTH = 10 km ± 0.08km
 STATIONS USED = 6, STAND DEV = 1.08s
 $M_L = 2.7 / 7,$
 DL2 1.5 193 Pg 14 17 40.0 -0.3
 Sg 14 17 59.5 -1.3
 SMN $M_L = 2.6$ 0.4 0.060
 SME 0.4 0.090
 SNY 1.9 38 -iPg 14 17 46.4 -0.2
 Sg 14 18 10.0 -2.0
 SMN $M_L = 2.9$ 0.4 0.18
 SME 0.4 0.060

1987 9 10
 O = 14 43 47.0 ± 0.08s

LAT = 3.10 N ± 1.27km
 LONG = 126.67 E ± 1.73km
 DEPTH = 70 km ± 0.07km
 STATIONS USED = 75, STAND DEV = 1.18s
 $M_s = 4.8 / 11,$

QZN	22.8	315	eP	14 48 44.4	-0.7		
			eS	14 52 46.5	1.2		
GZH	23.7	328	eP	14 48 52.2	-1.1		
			eS	14 52 55.0	-5.2		
			LN			$M_s = 4.7$	30.0 2.60
NJ2	29.7	347	eP	14 49 49.0	0.0		
GYA	30.1	322	P	14 49 51.4	-1.4		
KMI	31.8	316	eP	14 50 09.0	1.5		
TIA	34.1	346	eP	14 50 27.1	-0.3		
			LZ			$M_s = 4.5$	25.0 0.72
XAN	34.9	334	P	14 50 33.0	-1.6		
CD2	35.1	324	eP	14 50 34.6	-1.4		
DL2	35.9	353	P	14 50 45.0	2.1		
TIY	36.8	341	eP	14 50 48.6	-2.0		
			S	14 56 26.0	-2.6		
			LZ			$M_s = 4.8$	22.0 1.12
BJI	38.0	347	eP	14 51 00.0	-0.1		
			eS	14 56 48.0	1.1		
			LE			$M_s = 4.7$	28.0 1.00
SNY	38.7	356	+P	14 51 06.9	1.2		
			S	14 57 02.0	5.8		
			LN			$M_s = 5.0$	18.0 1.41
			LE				20.0 0.59
			LZ			$M_s = 4.9$	22.0 1.37
LZH	39.0	330	eP	14 51 10.0	1.1		
			PMZ				1.5 0.12
BTO	40.2	340	eP	14 51 15.6	-3.4		
CN2	40.5	359	eP	14 51 21.0	-0.4		
			eS	14 57 22.0	-3.4		
			LE			$M_s = 4.7$	20.0 0.70
MDJ	41.4	3	eP	14 51 28.5	-0.1		
LSA	42.8	312	P	14 51 40.3	-0.1		
GTA	43.6	330	eP	14 51 45.5	-1.1		
			LZ			$M_s = 5.1$	22.0 1.56
WMQ	53.2	325	P	14 53 00.0	-0.8		
			sP	14 53 22.0	-4.6		
			eS	15 00 29.0	3.9		
			LN			$M_s = 5.3$	30.0 2.40
KSH	58.4	315	P	14 53 40.0	1.6		

1987 9 10
 O = 17 58 15.7 ± 0.08s
 LAT = 3.15 N ± 0.98km
 LONG = 126.65 E ± 1.28km
 DEPTH = 70 km ± 0.46km

STATIONS USED = 72, STAND DEV = 1.06s
 $M_s = 4.8 / 4,$

QZN	22.8	315	eP	18 03 10.0	-3.4		
			eS	18 07 10.0	-3.2		
GZH	23.6	328	eP	18 03 21.5	-0.1		
NJ2	29.7	347	-P	18 04 17.6	0.3		
GYA	30.1	322	P	18 04 22.0	0.9		
KMI	31.7	316	+P	18 04 35.5	-0.3		
TIA	34.1	346	eP	18 04 55.6	-0.1		
			LZ	$M_s = 4.5$	25.0	0.65	
XAN	34.9	334	P	18 05 01.9	-1.0		
CD2	35.1	324	eP	18 05 03.6	-0.7		
DL2	35.9	353	eP	18 05 13.0	1.8		
			esP	18 05 35.5	-1.1		
TIY	36.8	341	eP	18 05 18.8	-0.1		
			S	18 10 54.0	-2.5		
			LZ	$M_s = 4.7$	24.0	0.97	
BJI	37.9	347	eP	18 05 29.0	0.6		
SNY	38.6	356	+P	18 05 35.0	1.0		
LZH	39.0	330	+P	18 05 37.0	-0.2		
			PMZ		2.0	0.12	
HHC	39.9	342	eP	18 05 45.4	0.3		
BTO	40.2	340	eP	18 05 48.0	0.7		
CN2	40.5	359	eP	18 05 49.6	-0.1		
MDJ	41.4	3	eP	18 05 57.0	0.1		
GTA	43.6	329	P	18 06 14.6	-0.3		
			LN	$M_s = 4.8$	28.0	1.11	
WMQ	53.1	325	P	18 07 28.0	-1.2		
			sP	18 07 52.0	-2.9		
			eS	18 15 00.0	6.8		
			LN	$M_s = 5.0$	30.0	1.38	

1987 9 10

O = 21 53 14.0 ± 0.11s
 LAT = 43.95 N ± 2.03km
 LONG = 147.93 E ± 1.06km
 DEPTH = 40 km ± 1.54km

STATIONS USED = 89, STAND DEV = 1.24s

$M_s = 4.5 / 8,$ $m_B = 4.9 / 1$

MDJ	13.2	279	eP	21 56 21.5	0.5		
			eS	21 58 41.0	-5.7		
			SME	$m_B = 4.9$	6.0	0.47	
CN2	16.2	277	eP	21 56 58.0	-2.6		
			eS	21 59 54.0	-4.5		
			LZ	$M_s = 4.9$	18.0	4.20	
SNY	18.0	272	-iP	21 57 23.8	1.3		
DL2	20.3	265	eP	21 57 52.0	2.5		
			epP	21 58 01.0	1.9		
BJI	23.8	272	eP	21 58 25.0	0.4		
			S	22 02 36.0	2.0		

			LE	$M_s = 4.4$	16.0	0.59	
			LZ	$M_s = 4.4$	18.0	0.71	
SSE	24.7	248	eP	21 58 34.5	1.9		
			pP	21 58 44.0	1.3		
TIA	24.7	262	eP	21 58 34.7	1.7		
NJ2	25.7	252	+P	21 58 42.0	-0.2		
HHC	26.9	276	eP	21 58 54.0	0.3		
TIY	27.4	269	eP	21 58 58.5	0.0		
BTO	28.1	276	eP	21 59 04.4	-0.1		
			pP	21 59 14.0	-0.6		
			sP	21 59 19.0	-0.1		
			eS	22 03 43.0	-2.2		
			LN	$M_s = 4.8$	15.0	0.70	
			LE		15.0	0.80	
WHN	29.7	255	P	21 59 18.1	-0.4		
XAN	31.6	265	P	21 59 35.2	-0.8		
LZH	34.3	272	eP	22 00 00.5	1.0		
			PMZ		1.5	0.079	
GTA	35.8	280	+P	22 00 12.4	0.2		
			LE	$M_s = 4.5$	22.0	0.58	
CD2	37.0	265	eP	22 00 22.2	0.3		
GYA	37.5	256	P	22 00 25.4	-1.0		
KMI	41.1	258	+P	22 00 56.0	-0.4		
WMQ	42.5	292	P	22 01 09.1	1.1		
LSA	46.7	272	-P	22 01 44.5	2.4		
KSH	52.3	292	P	22 02 26.0	1.3		

1987 9 11

O = 00 34 52.4 ± 0.23s
 LAT = 22.26 S ± 2.39km
 LONG = 68.37 W ± 1.71km
 DEPTH = 127 km ± 1.98km

STATIONS USED = 62, STAND DEV = 1.76s

KSH	145.2	52	PKP	00 54 17.4	1.2		
			pPKP	00 54 46.5	-2.2		
			ePKS	00 57 51.0			
			LE		11.0	0.70	
WMQ	150.8	37	PKP	00 54 26.0	0.8		
MDJ	153.2	331	+PKP	00 54 28.7	0.1		
GTA	160.2	28	-PKP	00 54 38.2	0.6		
DL2	161.3	335	ePKP	00 54 39.0	0.5		
BJI	161.9	349	ePKP	00 54 39.0	-0.1		
TIY	164.6	358	ePKP	00 54 37.8	-4.1		
			LZ		18.0	0.81	
LZH	164.6	24	ePKP	00 54 44.0	1.9		
TIA	165.3	342	ePKP	00 54 42.8	0.3		
XAN	168.0	11	-PKP	00 54 45.2	0.7		
CD2	168.9	38	ePKP	00 54 46.4	1.3		
GYA	173.8	46	PKP	00 54 48.4	-0.8		

1987 9 11				
O=10 28 09.1	± 0.07s			
LAT= 7.51 S	± 0.46km			
LONG=128.62 E	± 0.26km			
DEPTH=168 km	± 0.70km			
STATIONS USED = 17, STAND DEV= 0.73s				
XAN	45.3 337 -P	10 36 12.1	-0.6	
LZH	49.2 333 cP	10 36 44.5	1.5	
GTA	53.8 332 +P	10 37 17.1	0.1	
1987 9 11				
O=13 19 04.3	± 0.07s			
LAT=22.02 S	± 1.40km			
LONG=175.30 W	± 0.74km			
DEPTH=124 km	± 0.68km			
STATIONS USED = 19, STAND DEV= 1.04s				
MDJ	83.2 324 cP	13 31 19.2	0.3	
CN2	85.0 321 cP	13 31 27.0	-1.1	
TIY	90.2 311 cP	13 31 53.7	1.0	
XAN	91.1 306 cP	13 31 58.2	1.4	
1987 9 12				
O=00 40 10.4	± 0.09s			
LAT=38.76 N	± 1.21km			
LONG=100.23 E	± 1.07km			
DEPTH= 16 km	± 0.06km			
STATIONS USED = 57, STAND DEV= 2.40s				
Ms=4.2/ 4, M _L =5.0/ 9,				
GTA	0.7 334 -iPg	00 40 25.0	1.2	
	Sg	00 40 34.0	0.2	
	LE		6.0	18.1
LZH	3.9 132 +iPn	00 41 14.0	3.3	
	Pg	00 41 24.5	4.8	
	Sn	00 42 05.0	6.9	
	Sg	00 42 19.5	6.2	
	SMN	M _L =4.8	1.0	2.00
	SME		1.0	2.29
BTO	7.8 73 cPn	00 42 06.2	2.7	
	eSn	00 43 35.0	1.6	
	LN	M _s =4.1	11.0	0.40
	LE		8.0	1.00
	LZ	M _s =3.9	8.0	0.70
CD2	8.3 159 cP	00 42 17.0	3.0	
XAN	8.4 121 +P	00 42 14.5	-0.8	
	LN	M _s =4.4	8.0	1.43
	LE		8.0	1.44
WMQ	10.7 302 cP	00 42 42.0	-4.4	
	LN		1.5,	0.26
	LE		1.5	0.19
BJI	12.4 79 cP	00 43 13.0	3.5	

GYA	13.4 154 P	00 43 22.2	-0.8	
TIA	13.7 95 cP	00 43 22.9	-3.3	
KMI	13.8 170 -P	00 43 27.0	-0.8	
WHN	14.2 121 cP	00 43 33.9	0.5	
SNY	18.1 73 cP	00 44 23.6	0.9	
QZN	21.4 154 cP	00 45 00.7	1.1	
1987 9 12				
O=10 05 58.5	± 0.09s			
LAT= 5.25 S	± 0.83km			
LONG=146.04 E	± 1.19km			
DEPTH= 79 km	± 1.03km			
STATIONS USED = 24, STAND DEV= 1.49s				
CN2	52.2 341 cP	10 15 04.0	-0.3	
XAN	52.5 321 cP	10 15 07.0	0.7	
GTA	61.6 320 cP	10 16 11.6	1.1	
1987 9 12				
O=11 03 41.7	± 0.19s			
LAT=35.38 N	± 1.50km			
LONG= 99.43 E	± 1.73km			
DEPTH= 15 km	± 0.44km			
STATIONS USED = 33, STAND DEV= 3.24s				
Ms=3.7/ 4, M _L =4.1/ 7,				
LZH	3.7 78 Pn	11 04 42.0	3.6	
	Pg	11 04 49.5	3.2	
	Sn	11 05 29.0	5.9	
	Sg	11 05 38.0	1.7	
	SMN	M _L =4.8	1.6	1.81
	SME		1.0	3.14
GTA	4.0 4 Pn	11 04 49.0	5.4	
	Pg	11 04 54.0	1.0	
	Sg	11 05 47.0	-1.2	
	SME		3.0	0.64
	LN	M _s =3.7	7.0	1.10
CD2	5.7 140 cPn	11 05 10.2	3.3	
	ePg	11 05 27.8	4.7	
XAN	7.9 97 -P	11 05 37.6	-1.9	
	S	11 07 06.8	-2.7	
	SMN	M _L =4.1	1.0	0.060
	SME		1.0	0.050
BTO	9.8 55 cP	11 06 10.0	3.8	
	LE	M _s =3.7	8.0	0.30
	LZ	M _s =3.7	8.0	0.30
TIY	10.7 74 cP	11 06 18.5	0.4	
	LN	M _s =4.0	9.0	0.56
GYA	10.8 143 P	11 06 18.0	-1.8	
WMQ	12.4 317 P	11 06 34.4	-5.9	
WHN	13.4 107 cP	11 06 53.5	-0.9	
CN2	21.7 59 cP	11 08 37.0	2.8	

1987 9 12
O = 11 36 42.9 ± 0.05s
LAT = 20.75 S ± 1.19km
LONG = 169.12 E ± 1.72km
DEPTH = 22 km ± 0.58km
STATIONS USED = 50, STAND DEV = 1.01s

DL2	74.2	323	eP	11 48 20.4	0.1
			epP	11 48 30.0	2.2
			esP	11 48 35.0	3.9
MDJ	74.4	332	eP	11 48 21.6	-0.2
CN2	75.7	329	-P	11 48 28.6	-0.6
GYA	76.6	305	P	11 48 34.0	-0.5
BJI	78.0	321	eP	11 48 42.5	0.1
TIY	78.9	318	eP	11 48 47.5	0.4
KMI	79.0	302	eP	11 48 49.0	1.2
HHC	81.3	320	eP	11 49 00.4	0.3
BTO	82.1	319	eP	11 49 04.0	-0.2
GTA	88.1	314	P	11 49 34.0	-0.1
WMQ	98.2	314	P	11 50 21.3	0.8

1987 9 12
O = 12 21 16.5 ± 0.14s
LAT = 35.20 N ± 0.74km
LONG = 98.97 E ± 0.88km
DEPTH = 32 km ± 1.05km
STATIONS USED = 6, STAND DEV = 3.87s

M _L = 3.0 / 4,					
LZH	4.1	76	Pg	12 22 25.0	-3.7
			SMN	M _L = 3.7	1.6 0.16
			SME		1.2 0.12
GTA	4.3	9	ePn	12 22 23.1	3.5
			Pg	12 22 32.3	0.6
			SMN	M _L = 2.6	0.8 0.010
			SME		0.8 0.013

1987 9 12
O = 18 47 14.9 ± 0.05s
LAT = 32.63 N ± 0.45km
LONG = 102.98 E ± 0.45km
DEPTH = 7 km ± 0.12km
STATIONS USED = 12, STAND DEV = 2.08s

M _L = 3.1 / 5,					
CD2	1.8	159	ePg	18 47 47.1	-0.3
			Sg	18 48 13.4	1.0
			SMN	M _L = 3.4	0.8 0.32
			SME		0.8 0.35
LZH	3.5	11	ePn	18 48 12.0	1.3
			Pg	18 48 16.0	-1.1
			SMN	M _L = 3.1	1.4 0.049

SME						
XAN	5.2	73	ePg	18 48 46.0	-0.3	
GTA	7.2	340	ePg	18 49 23.4	0.4	

1987 9 12
O = 18 59 41.2 ± 0.08s
LAT = 3.06 N ± 1.10km
LONG = 126.82 E ± 1.87km
DEPTH = 33 km ± 0.16km
STATIONS USED = 57, STAND DEV = 1.26s

GZH	23.8	328	eP	19 04 52.2	0.0
NJ2	29.8	346	+P	19 05 48.0	0.5
GYA	30.2	322	P	19 05 53.8	2.1
XAN	35.0	334	eP	19 06 36.0	2.5
CD2	35.2	324	P	19 06 33.2	-1.8
DL2	36.0	353	eP	19 06 43.5	2.1
TIY	36.9	341	eP	19 06 48.8	-0.5
BJI	38.1	347	eP	19 06 59.0	0.3
SNY	38.7	356	eP	19 07 05.0	0.9
LZH	39.1	330	eP	19 07 05.0	-2.8

PMZ 2.5 0.10

CN2	40.6	358	eP	19 07 19.5	-0.3
MDJ	41.5	3	eP	19 07 27.0	0.1
GTA	43.7	329	eP	19 07 45.1	-0.5
WMQ	53.3	325	eP	19 09 01.4	1.5

1987 9 12
O = 22 00 55.1 ± 0.09s
LAT = 35.25 N ± 1.70km
LONG = 23.99 E ± 1.29km
DEPTH = 20 km ± 0.21km
STATIONS USED = 41, STAND DEV = 1.07s

KSH	41.1	68	P	22 08 42.0	2.2
WMQ	48.8	60	eP	22 09 40.2	-1.4
LSA	56.0	75	P	22 10 35.3	-0.3
GTA	58.8	61	-P	22 10 54.4	-0.6
KMI	67.2	75	eP	22 11 51.0	-0.1
XAN	67.7	63	eP	22 11 53.3	-0.4
TIY	68.4	58	eP	22 11 58.6	0.0
GYA	69.6	72	P	22 12 05.6	-0.4
BJI	69.9	55	P	22 12 06.5	-0.8
TIA	72.4	58	eP	22 12 22.5	-0.4

1987 9 13
O = 11 20 51.6 ± 0.14s
LAT = 14.30 N ± 2.97km
LONG = 89.95 W ± 3.68km
DEPTH = 121 km ± 1.40km
STATIONS USED = 73, STAND DEV = 1.75s

BJI	120.7	337	ePKP	11 39 31.0	0.6
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			LZ		Ms=5.5	18.0	5.22				PKP ₂	20 29 32.5				
QZN	36.3	246	eP	14 14 47.0		1.0					PP	20 33 15.0	-1.3			
			LN		Ms=5.3	13.0	0.80				LN		Ms=6.2	28.0	2.64	
			LE			15.0	2.10				LE			30.0	2.81	
KMI	37.9	260	+P	14 15 01.0		1.5				MDJ	161.8	310	ePKP	20 28 52.0	-1.3	
			PP	14 16 35.0		6.2				LSA	163.3	101	PKP	20 28 56.1	0.7	
			S	14 20 51.0		3.1				QZN	164.7	179	ePKP	20 28 52.0	-4.3	
			LE		Ms=5.4	16.0	3.10						ePKP ₂	20 29 52.0		
WMQ	42.0	295	P	14 15 35.0		1.4							ePP	20 33 40.5	0.2	
			eS	14 21 51.0		0.1				CN2	164.8	313	PKP	20 28 53.0	-3.3	
			LN		Ms=5.5	13.0	2.58			KMI	168.8	144	ePKP	20 29 00.0	0.5	
LSA	44.6	274	P	14 15 54.0		-0.5							PP	20 34 00.0	-0.8	
			LE		Ms=5.4	16.0	2.16						LE	Ms=6.2	20.0	3.30
KSH	51.8	293	-P	14 16 51.0		0.9				SSE	170.1	254	ePKP	20 29 00.5	0.5	
			PP	14 18 51.0		3.5							LZ	Ms=5.9	28.0	2.22
			LN		Ms=5.8	15.0	4.70			GTA	170.4	55	-iPKP	20 29 01.1	0.7	
													PKP ₂	20 30 17.5		
													ePP	20 34 04.0	-4.5	
													SKKS	20 40 54.0		
													LN	Ms=5.9	26.0	2.12
													LZ	Ms=6.0	24.0	2.84
										GYA	171.6	159	PKP	20 29 02.0	0.9	
													PKP ₂	20 30 21.0		
													PP	20 34 11.0	-3.7	
										NJ2	172.3	255	ePKP	20 29 02.5	1.2	
										BJI	172.5	321	ePKP	20 29 01.5	0.1	
													ePKP ₂	20 30 25.0		
													ePP	20 34 15.0	-4.0	
										HHC	173.4	350	ePKP	20 29 03.2	1.3	
										CD2	173.7	121	PKP	20 29 01.4	-0.5	
										BTO	173.8	0	ePKP	20 29 02.0	0.0	
			LN		Ms=4.6	14.0	1.21						LN	Ms=5.9	18.0	1.10
WHN	21.3	259	eP	19 18 05.5		3.8							LE		19.0	1.60
XAN	24.5	272	eP	19 18 29.2		-3.7							LZ	Ms=6.1	19.0	3.30
GYA	29.2	258	P	19 19 13.0		-3.4				TIA	173.9	290	-PKP	20 29 02.2	0.3	
CD2	29.6	268	P	19 19 16.2		-3.8				LZH	174.6	69	ePKP	20 29 03.5	1.2	
GTA	30.6	287	eP	19 19 27.6		-1.3							ePKP ₂	20 30 37.0		
													ePP	20 34 30.0	0.2	
													eSKKS	20 41 10.0		
													LN	Ms=5.8	30.0	3.04
										WHN	174.7	225	ePKP	20 29 03.3	1.1	
													SS	20 55 54.0	5.4	
													LZ	Ms=5.8	20.0	1.90
										TIY	176.1	331	PKP	20 29 03.3	0.6	
													PP	20 34 37.5	0.4	
													PPMZ	m _B =5.4	10.0	0.43
													LN	Ms=5.8	26.0	3.10
										XAN	179.0	108	PKP	20 29 03.6	0.5	
													PKP ₂	20 30 54.0		
													PP	20 34 51.0	0.3	

1987 9 13

O=19 13 14.8 ± 0.30s

LAT=37.03 N ± 1.97km

LONG=138.81 E ± 3.70km

DEPTH=28 km ± 0.18km

STATIONS USED = 35, STAND DEV = 2.54s

Ms=4.5/2,

MDJ	10.3	320	eP	19 15 47.2		3.2	
CN2	12.2	308	eP	19 16 09.0		-1.0	
NJ2	17.2	259	eP	19 17 12.5		-2.0	
TIA	17.4	274	eP	19 17 18.8		1.1	
BJI	18.0	287	eP	19 17 23.0		-1.3	
TIY	21.0	280	P	19 18 02.8		4.5	
			LN		Ms=4.6	14.0	1.21
WHN	21.3	259	eP	19 18 05.5		3.8	
XAN	24.5	272	eP	19 18 29.2		-3.7	
GYA	29.2	258	P	19 19 13.0		-3.4	
CD2	29.6	268	P	19 19 16.2		-3.8	
GTA	30.6	287	eP	19 19 27.6		-1.3	

1987 9 13

O=20 08 51.2 ± 0.11s

LAT=34.35 S ± 1.87km

LONG=69.97 W ± 3.05km

DEPTH=10 km ± 0.68km

STATIONS USED = 76, STAND DEV = 1.53s

Ms=5.9/15,

m_B=5.4/1

KSH	152.4	69	ePKP	20 28 44.0		2.2	
			ePKP ₂	20 29 04.0			
			eSKS	20 35 50.0		5.1	
			eSKKS	20 39 28.0			
			LE		Ms=6.2	16.0	2.00
WMQ	160.3	55	PKP	20 28 52.5		0.6	

SKKS 20 41 35.0
LN Ms=5.7 18.0 2.68

LONG = 139.89 E ± 1.71km
DEPTH = 167 km ± 0.32km
STATIONS USED = 97, STAND DEV = 1.23s

1987 9 13
O = 21 04 47.1 ± 0.58s
LAT = 26.89 N ± 5.83km
LONG = 92.69 E ± 3.62km
DEPTH = 11 km ± 0.10km
STATIONS USED = 18, STAND DEV = 3.33s

$m_B = 5.7 / 28$

$M_L = 3.9 / 2,$
LSA 3.1 335 Pn 21 05 40.4 3.3
Pg 21 05 44.3 2.1
Sn 21 06 20.7 5.0
SMN $M_L = 3.8$ 0.9 0.24
SME 0.9 0.39
GYA 12.5 89 P 21 07 47.4 -0.9
GTA 13.8 24 P 21 08 01.0 -5.0
WMQ 17.4 348 P 21 08 52.5 1.1

SSE 16.1 277 +iP 10 20 53.3 2.0
PMZ $m_B = 6.1$ 5.0 3.49
sP 10 21 40.0 3.9
SMN 15.0 6.64
ScP 10 28 55.5 1.0
ScS 10 32 35.0 2.6
LN 20.0 5.36
LZ 18.0 2.72
MDJ 16.2 333 -iP 10 20 53.0 0.4
PMZ 3.0 2.94
sP 10 21 42.0 4.5
S 10 23 45.0 -1.0
SME $m_B = 5.2$ 8.0 0.75
ScP 10 28 56.0 1.3
ScS 10 32 35.1 2.4
LZ 10.0 1.36

1987 9 14
O = 04 53 50.2 ± 0.07s
LAT = 17.38 S ± 0.75km
LONG = 178.80 W ± 0.82km
DEPTH = 576 km ± 0.86km
STATIONS USED = 28, STAND DEV = 0.82s

MDJ 77.5 325 +P 05 04 49.5 0.3
CN2 79.4 322 +iP 05 04 58.8 -0.2
BJI 83.1 315 eP 05 05 19.0 0.8
XAN 85.6 308 eP 05 05 31.5 1.1

DL2 17.1 304 P 10 21 06.0 2.1
PMZ $m_B = 6.2$ 4.0 3.80
sP 10 21 55.0 5.4
eS 10 24 13.0 5.5
PcP 10 25 40.0 1.0
ScS 10 32 34.0 -1.3
LN 13.0 1.91
SNY 17.3 315 -iP 10 21 04.5 -1.0
PMZ 16.0 1.76
sP 10 21 54.0 2.7
eS 10 24 08.0 -2.4
SMN 25.0 3.73

1987 9 14
O = 07 34 41.7 ± 0.11s
LAT = 38.94 N ± 0.98km
LONG = 100.33 E ± 0.90km
DEPTH = 8 km ± 0.54km
STATIONS USED = 9, STAND DEV = 2.97s

$M_L = 3.1 / 7,$
GTA 0.6 320 -iPg 07 34 53.3 0.4
Sg 07 35 02.3 1.0
SMN $M_L = 2.5$ 0.4 0.20
SME 0.4 0.22
LE 6.0 0.48
LZH 4.0 134 ePg 07 35 56.0 3.6
eSg 07 36 47.5 0.8
SMN $M_L = 3.2$ 1.5 0.056
SME 1.5 0.054

CN2 17.5 323 -P 10 21 06.5 -1.3
PMZ $m_B = 5.3$ 6.0 0.70
isP 10 21 56.0 2.2
eS 10 24 15.0 0.1
SMN $m_B = 5.3$ 8.0 0.90
iScS 10 32 36.0 -0.3
NJ2 18.0 280 -iP 10 21 15.0 0.7
PMZ 3.0 5.50
SME $m_B = 5.7$ 6.0 1.80
iScP 10 29 00.0 1.4
QZH 19.7 259 -iP 10 21 32.0 0.8
PMZ $m_B = 6.2$ 3.5 2.96
sP 10 22 20.0 -1.3
iS 10 25 04.0 4.9
SME $m_B = 5.8$ 11.0 3.69
LE 17.0 1.56
TIA 19.8 292 -P 10 21 32.2 -0.5
PcP 10 25 44.6 1.0

1987 9 14
O = 10 17 13.1 ± 0.12s
LAT = 30.59 N ± 1.17km

			SMN	$m_B = 5.3$	7.0	0.80			PcP	10 25 57.5	0.4		
			ScP	10 29 03.6	1.2				eS	10 26 49.0	-5.9		
			eScS	10 32 43.9	0.2				ScP	10 29 21.8	2.2		
			LN		12.0	1.88			ScS	10 33 10.0	1.3		
			LE		13.0	0.86			LN		18.0	2.01	
BJI	21.5	302	-P	10 21 48.0	-1.4			GYA	29.4	270	-P	10 23 03.0	-0.5
			PMZ	$m_B = 5.7$	5.0	1.15			sP	10 23 56.0	-1.3		
			esP	10 22 40.0	-1.4				S	10 27 42.0	-1.2		
			eS	10 25 30.0	-2.5				ScP	10 29 26.0	-3.1		
			SMN	$m_B = 5.5$	6.0	0.59			ScS	10 33 23.6	1.0		
			SME		6.0	0.73			LN		16.0	2.70	
			PcP	10 25 47.5	0.7			QZN	29.5	254	-P	10 23 05.4	1.2
			esS	10 26 20.0	2.1				pP	10 23 39.5	1.0		
			ScP	10 29 07.0	0.6				eS	10 27 43.5	-1.9		
			ScS	10 32 50.0	0.5			LZH	30.5	290	-P	10 23 11.0	-2.1
WHN	22.0	276	-iP	10 21 56.0	1.6				PMZ		1.0	0.16	
			PMZ	$m_B = 6.4$	5.0	6.00			PP	10 24 25.5	6.5		
			PP	10 22 32.5	3.8				LE		12.0	0.080	
			PPMZ		1.5	0.50		CD2	31.0	280	-iP	10 23 16.6	-0.5
			sP	10 22 46.0	-0.5				PMZ		0.7	0.27	
			SS	10 26 34.0	-1.8				pP	10 23 53.5	1.9		
			ScP	10 29 09.0	1.3				sP	10 24 12.0	0.8		
			LN		12.0	2.10			S	10 28 03.5	-4.0		
TIY	23.8	295	-iP	10 22 11.0	-0.6				LN		9.0	2.10	
			PMZ	$m_B = 5.9$	5.5	1.88			LZ		12.0	1.68	
			pP	10 22 46.5	2.3			KMI	33.2	270	-iP	10 23 36.0	-0.5
			sP	10 23 06.0	1.8			GTA	33.8	296	-P	10 23 39.7	-1.6
			S	10 26 15.5	4.6				PMZ	$m_B = 5.5$	5.0	0.52	
			SMN	$m_B = 5.5$	6.0	1.00			pP	10 24 16.0	-0.2		
			sS	10 27 12.5	4.3				sP	10 24 39.0	3.4		
			SS	10 27 20.5	3.5				PP	10 25 04.0	5.0		
			PcS	10 29 27.0	-2.4				PPMZ		6.0	0.97	
			ScS	10 32 59.5	1.4				PcP	10 26 17.7	1.4		
GZH	24.8	259	-iP	10 22 22.2	0.9				ScP	10 29 44.7	1.0		
			pP	10 22 54.4	-0.1				PcS	10 30 02.8	1.9		
			SME	$m_B = 5.3$	8.0	0.92			ScS	10 33 43.7	-0.6		
			LN		13.0	1.21			LN		21.0	1.84	
HHC	25.1	302	eP	10 22 23.2	-0.9			LSA	41.9	282	-P	10 24 48.8	-0.6
BTO	26.2	301	-P	10 22 33.0	-1.1			WMQ	42.9	303	P	10 24 57.0	-0.5
			pP	10 23 09.0	1.4				PMZ		2.0	0.37	
			sP	10 23 28.0	0.6				pP	10 25 35.0	1.3		
			S	10 26 51.0	0.1				PP	10 26 45.5	4.4		
			sS	10 27 55.0	3.9				ScP	10 30 19.0	0.5		
			SS	10 28 16.0	1.0				S	10 31 08.0	-0.6		
			LN		18.0	3.20			ScS	10 34 37.0	0.0		
			LE		18.0	1.30		KSH	52.1	298	-iP	10 26 09.5	0.7
			LZ		13.0	1.60			pP	10 26 49.5	3.4		
XAN	26.3	286	-P	10 22 35.0	-0.8				sP	10 27 09.0	4.2		
			pP	10 23 11.6	2.1				eS	10 33 21.0	2.2		
			PP	10 23 25.0	-1.2								

1987 9 14
O=12 40 57.2 ± 0.11s
LAT=38.84 N ± 1.68km
LONG=100.49 E ± 1.15km
DEPTH= 8 km ± 0.20km
STATIONS USED = 23, STAND DEV = 2.96s
Ms=3.8/ 2, ML=4.3/ 11,

GTA	0.8	317	-iPg	12 41 10.5	-0.7		
			Sg	12 41 19.5	-2.2		
			SME			ML=3.8	0.8 3.06
LZH	3.8	135	Pn	12 42 00.0	3.0		
			Pg	12 42 09.5	4.7		
			SMN			ML=4.3	1.6 0.67
			SME				1.5 0.60
BTO	7.5	74	ePn	12 42 51.8	3.7		
			eSn	12 44 20.0	3.7		
			LN			Ms=3.7	7.0 0.20
			LE				7.0 0.30
HHC	8.7	73	eP	12 43 02.8	-4.6		
			SMN			ML=4.5	1.0 0.092
			SME				0.8 0.082
TIY	9.5	93	eP	12 43 11.8	-5.4		
			LE			Ms=4.0	6.0 0.44
WMQ	10.8	301	eP	12 43 39.2	3.3		

1987 9 14
O=15 51 55.1 ± 0.12s
LAT=36.84 N ± 1.14km
LONG= 31.14 E ± 0.68km
DEPTH=115 km ± 0.79km
STATIONS USED = 53, STAND DEV = 0.97s

KSH	35.1	72	P	15 58 41.0	1.4		
WMQ	43.0	62	P	15 59 46.0	1.2		
LSA	50.0	80	P	16 00 39.6	-0.8		
GTA	52.9	65	+P	16 01 01.4	-0.6		
LZH	57.1	67	eP	16 01 32.0	-0.4		
CD2	59.3	73	P	16 01 47.6	0.2		
KMI	61.2	79	eP	16 02 00.0	-0.9		
XAN	61.7	67	P	16 02 03.5	-0.7		
GYA	63.6	76	P	16 02 16.0	-0.8		
BJI	64.2	58	eP	16 02 19.5	-0.7		
QZN	70.0	81	P	16 02 57.0	0.2		

1987 9 14
O=17 34 27.0 ± 0.07s
LAT=38.19 N ± 0.63km
LONG=106.34 E ± 0.71km
DEPTH= 7 km ± 0.21km
STATIONS USED = 8, STAND DEV = 2.78s
ML=2.8/ 4,

LZH	2.9	224	ePn	17 35 15.5	1.5		
			eSn	17 35 49.0	-1.7		
			SMN			ML=2.9	1.0 0.049
			SME				1.0 0.047
BTO	3.7	49	ePg	17 35 33.2	0.1		
			Sg	17 36 20.4	-3.5		
XAN	4.6	152	ePg	17 35 47.5	-1.5		
GTA	5.2	286	ePg	17 35 58.6	-1.2		
			Sg	17 37 08.0	-3.2		
			SMN			ML=2.8	0.8 0.010
			SME				0.7 0.010

1987 9 14
O=21 42 21.7 ± 0.30s
LAT=49.65 N ± 3.80km
LONG= 94.95 E ± 2.31km
DEPTH= 8 km ± 0.36km
STATIONS USED = 26, STAND DEV = 3.42s
Ms=4.2/ 1, ML=4.3/ 2,

GTA	10.8	159	eP	21 44 54.7	-5.6		
			LE			Ms=4.2	6.0 0.60
LZH	15.0	151	eP	21 46 00.0	3.3		
			LN				2.0 0.13
			LE				2.0 0.18
TIY	17.3	127	eP	21 46 25.7	-0.4		
BJI	17.8	115	P	21 46 28.0	-3.9		
XAN	18.7	141	eP	21 46 40.5	-2.6		
CD2	19.9	157	eP	21 46 55.0	-1.6		
SNY	21.4	101	eP	21 47 11.5	-0.6		
GYA	24.9	154	P	21 47 45.2	-1.5		
KMI	25.2	163	eP	21 47 49.0	-1.2		

1987 9 15
O=02 04 31.8 ± 0.12s
LAT=23.83 N ± 1.34km
LONG=114.44 E ± 1.05km
DEPTH= 13 km ± 0.03km
STATIONS USED = 53, STAND DEV = 1.88s
Ms=4.7/ 20, ML=4.8/ 11, mB=4.9/ 2

GZH	1.3	234	+Pn	02 04 56.5	1.0		
			Sg	02 05 13.8	2.6		
			SMN			ML=5.1	1.0 30.0
			SME				1.0 31.3
QZH	3.9	73	ePn	02 05 33.0	0.6		
			Pg	02 05 44.5	3.1		
			Sn	02 06 19.5	-1.0		
			Sg	02 06 34.8	-0.5		
			SMN				2.0 7.20
			LN			Ms=4.4	7.0 5.38
QZN	6.4	223	ePn	02 06 08.6	2.1		

LE 16.0 1.08
 LZ Ms=5.3 18.0 1.63
 KSH 54.2 312 eP 12 51 19.0 0.7

1987 9 16

O=13 23 22.0 ± 0.11s
 LAT= 9.11 N ± 1.37km
 LONG=126.68 E ± 2.28km
 DEPTH= 33 km ± 0.02km
 STATIONS USED = 36, STAND DEV= 1.55s
 Ms=4.6/ 1,

SSE 22.5 348 P 13 28 21.5 1.5
 sP 13 28 32.0 -0.9
 LN Ms=4.6 12.0 0.91
 NJ2 24.0 343 +P 13 28 36.0 1.5
 XAN 29.7 329 eP 13 29 28.5 0.9
 DL2 30.0 352 eP 13 29 31.5 1.2
 BJI 32.2 345 eP 13 29 47.0 -2.6
 SNY 32.7 356 +iP 13 29 54.4 0.4
 CN2 34.6 358 eP 13 30 09.0 -1.2
 MDJ 35.5 4 eP 13 30 19.0 1.2
 GTA 38.6 326 eP 13 30 42.8 -1.2
 WMQ 48.4 322 -P 13 32 03.0 -0.3

1987 9 16

O=16 06 02.1 ± 0.20s
 LAT=37.28 N ± 2.04km
 LONG= 56.95 E ± 1.67km
 DEPTH= 28 km ± 1.07km
 STATIONS USED = 28, STAND DEV= 2.07s
 Ms=4.9/ 1,

KSH 15.1 76 eP 16 09 31.0 -4.4
 LN Ms=4.9 8.0 2.10
 WMQ 24.2 65 P 16 11 18.0 0.6
 S 16 15 34.0 3.7
 SS 16 16 20.5 -2.4
 GTA 33.5 73 eP 16 12 39.6 -1.8
 CD2 39.0 85 eP 16 13 26.6 -1.4
 GYA 43.1 90 P 16 14 03.0 0.5
 TIY 43.5 72 eP 16 14 02.8 -2.2

1987 9 16

O=17 57 25.8 ± 0.09s
 LAT=52.12 N ± 1.46km
 LONG= 95.71 E ± 1.08km
 DEPTH= 33 km ± 0.26km
 STATIONS USED = 63, STAND DEV= 1.81s
 Ms=4.7/ 12, M_L=5.0/ 2,

WMQ 9.9 216 P 17 59 50.0 1.1
 LZ 3.0 1.69

GTA 13.0 166 eP 18 00 29.6 -1.9
 LE Ms=5.2 4.0 2.78
 BTO 15.1 134 eP 18 00 58.0 -1.3
 LN Ms=4.6 9.0 0.70
 LE 9.0 1.00
 LZ Ms=4.6 9.0 1.30

HHC 15.7 130 eP 18 01 08.0 2.1
 LZH 17.0 157 eP 18 01 21.0 -2.5
 PMZ 1.5 0.079

LE Ms=4.9 10.0 2.13
 BJI 18.6 123 eP 18 01 43.0 0.8
 LN Ms=4.8 16.0 1.57
 LE 16.0 1.64

TIY 18.6 134 eP 18 01 43.8 1.2
 LE Ms=4.7 12.0 1.63
 LZ Ms=4.7 9.0 1.07

KSH 18.6 235 P 18 01 45.0 1.9
 CN2 21.5 101 eP 18 02 13.0 -0.7
 S 18 06 02.0 -2.4
 LZ Ms=4.9 10.0 1.70

SNY 21.5 108 +iP 18 02 13.7 -0.3
 TIA 22.0 128 eP 18 02 19.6 0.7
 CD2 22.0 161 eP 18 02 18.6 -0.6

DL2 22.3 116 eP 18 02 21.0 -1.2
 NJ2 26.2 131 +P 18 03 01.0 1.4
 GYA 26.9 158 P 18 03 08.0 1.5
 KMI 27.5 166 eP 18 03 10.5 -1.1

1987 9 16

O=19 43 48.5 ± 0.11s
 LAT=26.71 S ± 1.50km
 LONG=176.25 W ± 2.63km
 DEPTH= 35 km ± 0.50km
 STATIONS USED = 32, STAND DEV= 1.13s

NJ2 85.1 309 -P 19 56 22.8 0.0
 MDJ 86.5 325 eP 19 56 30.2 0.4
 WHN 87.4 306 -P 19 56 34.8 0.6
 CN2 88.2 322 eP 19 56 36.0 -1.9
 TIA 88.6 312 eP 19 56 39.9 -0.2
 GYA 91.1 299 P 19 56 52.0 0.2
 BJI 91.4 315 eP 19 56 52.5 -0.6
 TIY 92.6 311 eP 19 56 57.8 -0.9
 XAN 93.1 307 eP 19 57 01.0 -0.2
 KMI 93.6 296 -P 19 57 04.0 0.7
 CD2 95.4 302 eP 19 57 13.3 1.6

1987 9 16

O=19 58 21.6 ± 0.11s
 LAT=41.12 N ± 2.25km
 LONG=143.76 E ± 2.27km

DEPTH = 35 km \pm 0.83km
STATIONS USED = 40, STAND DEV = 2.17s
Ms = 4.0 / 3,

MDJ	11.0	293	eP	20 01 04.9	5.5		
CN2	13.8	287	eP	20 01 34.0	-3.0		
DL2	17.1	270	eP	20 02 22.0	2.4		
SSE	20.7	248	eP	20 03 04.5	2.5		
			sP	20 03 15.5	0.1		
BJI	21.0	276	eP	20 03 03.5	-0.6		
TIA	21.3	265	eP	20 03 06.5	-1.4		
			LZ	Ms=4.0	20.0	0.36	
NJ2	21.9	254	eP	20 03 18.0	4.5		
GTA	33.3	282	eP	20 04 57.8	-0.9		
			LZ	Ms=4.6	18.0	0.61	
GYA	33.8	256	P	20 05 01.0	-2.3		
KMI	37.5	258	+P	20 05 35.0	0.5		
WMQ	40.8	293	eP	20 06 01.8	0.3		

1987 9 16

O = 22 00 32.4 \pm 0.05s
LAT = 37.05 N \pm 0.81km
LONG = 3.66 E \pm 1.02km
DEPTH = 10 km \pm 0.22km
STATIONS USED = 40, STAND DEV = 0.83s

KSH	55.4	64	eP	22 10 09.0	-1.0		
WMQ	61.7	55	P	22 10 53.0	-1.0		
GTA	71.8	54	eP	22 11 57.2	-0.7		
CD2	79.3	59	eP	22 12 40.8	0.2		
TIY	80.7	50	eP	22 12 49.2	0.8		
XAN	80.8	54	-P	22 12 49.1	0.1		
BJI	81.4	46	eP	22 12 52.5	0.5		
CN2	83.8	38	eP	22 13 03.0	-1.1		
GYA	84.0	61	P	22 13 05.2	-0.3		
NJ2	88.4	50	eP	22 13 27.5	0.5		

1987 9 17

O = 01 34 45.0 \pm 0.11s
LAT = 30.35 N \pm 1.59km
LONG = 94.81 E \pm 1.18km
DEPTH = 13 km \pm 0.12km
STATIONS USED = 60, STAND DEV = 2.13s
Ms = 4.3 / 4, M_L = 4.4 / 2,

LSA	3.2	259	Pn	01 35 40.4	3.9		
			Pg	01 35 47.0	4.7		
			Sg	01 36 29.0	2.4		
			LE	Ms=4.2	5.0	3.90	
CD2	7.7	84	ePn	01 36 42.1	4.3		
KMI	8.7	125	+P	01 36 54.0	-0.6		
			S	01 38 34.0	0.4		
			LN	Ms=4.4	5.0	1.00	

LZH	9.5	51	eP	01 37 06.5	1.7		
GTA	9.9	23	P	01 37 09.3	-1.6		
GYA	11.1	107	-P	01 37 26.8	-0.6		
XAN	12.5	69	eP	01 37 44.0	-1.9		
WMQ	14.6	339	P	01 38 12.0	-1.3		
BTO	16.0	46	eP	01 38 35.0	2.6		
TIY	16.3	59	eP	01 38 33.6	-2.5		
			pP	01 38 39.0	-2.0		
			eS	01 41 33.0	-4.2		
			LE	Ms=4.1	8.0	0.33	
WHN	16.9	84	eP	01 38 41.0	-1.6		
KSH	17.9	306	eP	01 38 57.0	1.3		
			eS	01 42 13.0	0.1		
TIA	19.5	67	eP	01 39 15.3	0.0		
BJI	19.9	55	eP	01 39 19.0	-0.6		
NJ2	20.6	79	-P	01 39 27.0	-0.1		
SNY	25.8	56	eP	01 40 17.1	-0.8		
CN2	27.7	53	-P	01 40 35.0	-0.5		

1987 9 17

O = 04 47 12.6 \pm 0.12s
LAT = 4.08 S \pm 1.51km
LONG = 145.74 E \pm 1.92km
DEPTH = 15 km \pm 0.19km
STATIONS USED = 97, STAND DEV = 1.41s

Ms = 6.1 / 65, m_B = 6.0 / 23

QZH	39.1	319	+iP	04 54 41.0	-0.4		
			PMZ	m _B =6.0	8.0	1.97	
			PP	04 56 18.5	3.7		
			S	05 00 38.0	-1.5		
			LN	Ms=5.8	11.0	5.24	
GZH	41.6	312	P	04 55 04.0	2.0		
			PcS	05 00 54.0	4.9		
			iS	05 01 18.0	0.4		
			SMN	m _B =6.6	11.0	9.29	
			SME		12.0	7.91	
			LN	Ms=5.9	13.0	3.86	
			LE		14.0	5.96	
SSE	42.1	328	eP	04 55 06.5	0.2		
			PP	04 56 44.0	-2.7		
			SME	m _B =6.0	10.0	2.66	
			eSS	05 04 26.0	-0.4		
			ScS	05 05 06.0	0.7		
			LN	Ms=6.4	20.0	32.5	
			LZ	Ms=6.5	20.0	37.4	
QZN	42.1	304	eP	04 55 07.0	0.4		
			PP	04 56 43.0	-4.1		
			S	05 01 21.5	-3.4		
			LN	Ms=6.1	17.0	7.00	
			LE		19.0	11.0	

NJ2	44.1	327	+P	04 55 23.0	0.5	LN	Ms = 6.2	20.0	14.1							
			S	05 01 58.0	4.5					LZ	Ms = 6.2	20.0	14.2			
			SMN	$m_B = 6.2$	10.0					3.90	TIY	51.8	326	+P	04 56 24.0	1.1
			LN	$M_s = 6.1$	12.5					9.40	S	05 03 40.0	-2.3			
WHN	45.7	321	+iP	04 55 36.0	0.9	LE	$M_s = 6.0$	14.0	5.82							
			PMZ	$m_B = 5.9$	10.0	1.90	LZ	$M_s = 6.2$	22.0	15.5						
			iS	05 02 21.0	4.0	CD2	53.0	314	P	04 56 31.9	-0.1					
			SMN	$m_B = 6.1$	12.0	3.80	S	05 04 00.0	1.0							
			LE	$M_s = 5.6$	12.0	2.70	LE	$M_s = 6.1$	12.0	5.98						
TIA	48.2	329	eP	04 55 54.6	-0.5	HHC	54.6	328	eP	04 56 39.5	-3.7					
			SMN	$m_B = 5.5$	10.0	0.47	pP	04 56 49.5	0.1							
			SME		10.0	0.46	sP	04 56 53.5	1.1							
			LN	$M_s = 6.3$	16.0	13.7	LN	$M_s = 6.1$	17.0	8.27						
			LE		16.0	11.5	LE		17.0	5.20						
			LZ	$M_s = 5.8$	16.0	4.80	BTO	55.2	327	+P	04 56 46.0	-1.9				
DL2	48.2	335	eP	04 55 56.0	0.7	sP	04 57 00.0	3.0								
			S	05 02 55.0	2.6	ePP	04 58 50.0	-1.8								
			LN	$M_s = 6.1$	18.0	8.82	S	05 04 23.5	-4.4							
			LE		18.0	5.43	SMN	$m_B = 6.1$	9.0	1.40						
GYA	48.5	311	P	04 56 00.0	2.6	SME		9.0	1.60							
			ScP	05 01 12.0	-3.6	eSS	05 08 08.0	-3.8								
			PcS	05 01 19.0	1.5	LN	$M_s = 6.3$	18.0	8.50							
			S	05 03 01.0	5.0	LE		19.0	11.5							
			LN	$M_s = 5.9$	18.0	4.60	LZ	$M_s = 6.3$	19.0	14.8						
			LE		18.0	5.60	LZH	55.9	319	eP	04 56 53.0	-0.4				
SNY	50.0	338	+iP	04 56 08.0	-0.6	PMZ	$m_B = 6.1$	5.0	1.20							
			PP	04 58 06.0	2.4	eS	05 04 40.0	0.4								
			iS	05 03 20.0	2.5	SMN	$m_B = 6.0$	10.0	1.90							
			LN	$M_s = 6.0$	15.0	5.91	LN	$M_s = 5.8$	13.0	3.54						
			LE		17.0	5.65	GTA	60.5	320	P	04 57 24.0	-1.1				
MDJ	50.6	345	eP	04 56 14.0	0.5	PMZ	$m_B = 5.8$	10.0	1.21							
			S	05 03 22.0	-3.3	S	05 05 39.0	1.8								
			LE	$M_s = 5.8$	11.0	3.18	SMN		13.0	1.90						
KMI	50.8	307	+P	04 56 17.0	1.4	SS	05 09 40.0	3.9								
			PcP	04 57 31.0	-0.5	LE	$M_s = 5.9$	24.0	7.37							
			PP	04 58 17.0	5.4	LZ	$M_s = 5.9$	23.0	6.61							
			LN	$M_s = 5.8$	17.0	5.40	LSA	62.1	307	+P	04 57 37.0	0.6				
			LZ	$M_s = 5.9$	17.0	5.70	SME	$m_B = 6.2$	9.0	2.82						
CN2	51.0	341	+P	04 56 14.0	-2.9	WMQ	70.5	319	P	04 58 31.0	1.3					
			pP	04 56 25.0	1.8	S	05 07 45.0	4.9								
			LZ	$M_s = 6.0$	17.0	7.60	SMN	$m_B = 6.2$	10.0	2.24						
XAN	51.4	320	+P	04 56 19.0	-0.8	LN	$M_s = 6.1$	20.0	6.94							
			pP	04 56 29.0	3.0	LZ	$M_s = 5.9$	22.0	5.11							
			S	05 03 34.0	-2.7	KSH	77.2	312	+P	04 59 08.0	-0.4					
			SME		13.0	3.51	iS	05 09 02.0	5.6							
			LN	$M_s = 6.0$	15.0	2.82	LE	$M_s = 6.4$	20.0	11.5						
BJI	51.6	331	eP	04 56 21.0	-0.3											
			csP	04 56 32.0	1.4											
			cS	05 03 40.0	-0.7											

1987 9 17

O = 06 38 48.7

LAT = 30.38 N

± 0.13s

± 1.57km

CD2	170.9	42	PKP	09 03 28.0	0.6
KMI	172.6	82	-PKP	09 03 28.5	0.2
			pPKP	09 03 56.5	4.5
			PKP ₂	09 04 55.0	
			pPKP ₂	09 05 21.0	
			PP	09 08 47.5	0.9
WHN	173.0	334	ePKP	09 03 23.0	-5.5
			sPKP	09 03 56.0	
QZN	174.7	170	ePKP	09 03 30.0	0.6
			ePKP ₂	09 05 04.5	
			ePP	09 09 01.5	4.4
GYA	175.6	59	PKP	09 03 29.8	0.4
			pPKP	09 03 57.0	3.2
			PKP ₂	09 05 07.0	
			PP	09 09 05.4	3.4

1987 9 18

O=10 26 48.3 ± 0.11s

LAT=13.32 N ± 1.94km

LONG=120.99 E ± 2.80km

DEPTH= 33 km ± 0.46km

STATIONS USED = 22, STAND DEV = 2.15s

QZN	12.1	299	eP	10 29 39.4	-2.2
GYA	18.7	316	P	10 31 08.6	1.5
XAN	23.4	334	-P	10 31 55.4	0.4
GTA	32.0	328	P	10 33 14.3	-0.1
WMQ	41.7	323	P	10 34 37.3	1.5

1987 9 18

O=21 58 37.3 ± 0.17s

LAT=47.31 N ± 2.17km

LONG= 89.64 E ± 1.43km

DEPTH= 16 km ± 0.28km

STATIONS USED = 93, STAND DEV = 1.99s

Ms=5.6/56, m_B=5.5/6

WMQ	3.8	202	-iPn	21 59 38.6	3.4
			Pg	21 59 47.5	3.9
			Sn	22 00 25.0	4.0
			Sg	22 00 38.0	3.0
			SME		2.0 55.9
			LN	Ms=5.4	6.0 42.7
			LE		6.0 33.3
GTA	10.8	133	+iP	22 01 13.1	-2.1
			PMZ		2.0 0.64
			S	22 03 18.0	1.4
			SS	22 03 33.5	3.4
			LN	Ms=5.7	15.0 29.7
			LE		15.5 30.7
			KSH	12.7	237
epP	22 01 44.0	-0.9			

LZH	15.4	132	LN	Ms=5.4	10.0 12.2
			eP	22 02 15.0	-1.4
			pP	22 02 22.0	0.7
BTO	16.1	107	sP	22 02 27.0	1.9
			LE	Ms=5.6	9.0 12.6
			+iP	22 02 24.0	-1.4
			PMZ	m _B =5.4	4.0 0.69
			pP	22 02 30.5	0.1
HHC	17.0	104	eS	22 05 21.0	-3.0
			LN	Ms=5.5	10.0 8.00
			LE		10.0 4.80
LSA	17.6	176	LZ	Ms=5.5	9.0 9.70
			P	22 02 35.4	-1.2
			eP	22 02 43.7	-1.1
TIY	19.3	112	sP	22 02 53.0	-0.3
			LE	Ms=5.4	12.0 8.67
			+iP	22 03 04.5	-0.2
			PMZ	m _B =5.6	4.5 1.35
			PP	22 03 19.0	-2.2
CD2	19.7	141	SS	22 06 58.0	-3.3
			LE	Ms=5.6	10.0 9.14
			LZ	Ms=5.7	12.0 15.1
			eP	22 03 09.3	0.6
			LN	Ms=6.0	12.0 14.9
XAN	19.7	125	LE		11.0 20.5
			+P	22 03 08.1	-0.8
			sP	22 03 19.0	1.0
			S	22 06 45.0	0.9
			LN	Ms=5.9	9.0 14.4
BJI	20.5	101	eP	22 03 17.0	-0.3
			eS	22 07 04.0	2.8
			SMN	m _B =5.3	12.0 1.26
			SME		12.0 0.90
			LE	Ms=5.3	14.0 6.46
TIA	23.2	109	LZ	Ms=5.5	16.0 9.96
			eP	22 03 46.5	1.7
			eS	22 07 55.6	3.5
			SMN	m _B =5.6	12.0 1.61
			SME		12.0 1.73
KMI	24.5	150	sS	22 08 08.0	5.9
			LN	Ms=5.7	12.0 9.60
			LE		12.0 5.63
			LZ	Ms=5.2	12.0 3.42
			eP	22 03 58.0	0.5
			pP	22 04 04.5	1.1
			sP	22 04 07.0	0.5
SNY	24.7	90	eS	22 08 20.0	5.3
			sS	22 08 29.0	4.7
			LE	Ms=5.8	14.0 13.0
			+P	22 03 59.0	-0.1

BJI	153.0	340	ePKP	09 41 29.0	-1.7		
			pPKP	09 41 37.0	0.3		
			PP	09 45 20.0	-5.1		
			LN	Ms=5.3	24.0	0.45	
BTO	154.0	350	PKP	09 41 38.0	5.7		
GTA	155.3	9	PKP	09 41 42.0	8.0		
			LN	Ms=5.6	26.0	0.85	
			LZ	Ms=5.7	23.0	1.12	
SSE	157.8	319	ePKP	09 41 37.8	0.6		
			pPKP	09 41 47.0	3.9		
			ePP	09 45 52.0	0.0		
			eSS	10 05 50.0	4.7		
			LZ	Ms=5.7	20.0	0.94	
XAN	160.6	349	+PKP	09 41 40.6	0.2		
WHN	162.1	331	ePKP	09 41 42.5	0.7		
			PP	09 46 12.0	-2.2		
			LZ	Ms=5.4	20.0	0.50	
QZH	163.5	309	ePKP	09 41 42.0	-1.2		
			LN	Ms=5.5	20.0	0.62	
CD2	164.1	2	PKP	09 41 44.4	0.5		
GYA	168.4	350	PKP	09 41 47.8	0.5		
KMI	169.8	9	ePKP	09 41 49.0	0.7		

1987 9 19

O=11 42 39.6 ± 0.15s

LAT=48.48 S ± 2.30km

LONG=106.96 E ± 2.88km

DEPTH= 10 km ± 0.42km

STATIONS USED = 23, STAND DEV= 1.82s

Ms=5.6/ 1,

KMI	73.4	356	eP	11 54 13.0	-1.6		
GYA	74.6	360	P	11 54 21.4	-0.2		
CD2	79.1	357	eP	11 54 47.1	0.4		
XAN	82.2	2	eP	11 55 02.6	-0.5		
LZH	84.2	357	eP	11 55 13.5	-0.3		
TIY	86.0	4	eP	11 55 21.0	-1.3		

1987 9 19

O=16 38 06.2 ± 0.08s

LAT=41.42 N ± 1.89km

LONG=142.12 E ± 1.39km

DEPTH= 80 km ± 0.86km

STATIONS USED = 68, STAND DEV= 1.65s

Ms=4.2/ 10,

MDJ	9.7	293	eP	16 40 27.5	2.1		
			eS	16 42 19.0	5.3		
CN2	12.5	287	eP	16 41 06.0	3.1		
SNY	13.9	278	+P	16 41 25.0	4.2		
			eS	16 43 50.0	-3.5		
			LE	Ms=4.1	30.0	1.68	

			LZ	Ms=4.1	30.0	1.60	
BJI	19.7	275	P	16 42 29.0	-2.8		
			pP	16 42 47.0	-0.2		
TIA	20.1	263	-P	16 42 35.1	-1.4		
			eS	16 46 12.0	-1.5		
			LN	Ms=4.2	12.0	0.44	
NJ2	20.8	251	eP	16 42 42.0	-1.4		
TIY	23.1	271	eP	16 43 04.8	-1.6		
BTO	24.2	279	eP	16 43 16.0	-0.5		
			epP	16 43 33.0	-1.0		
			eS	16 47 23.0	-3.4		
			LN	Ms=4.2	13.0	0.20	
			LE		15.0	0.30	
XAN	27.2	265	eP	16 43 43.6	-0.8		
GTA	32.0	281	P	16 44 27.0	-1.0		
			PcP	16 47 17.0	1.7		
			LE	Ms=4.3	26.0	0.49	
			LZ	Ms=4.4	28.0	0.74	
CD2	32.5	264	P	16 44 30.4	-1.1		
GYA	32.7	254	P	16 44 34.0	0.1		
WMQ	39.5	292	P	16 45 32.0	0.8		
LSA	42.5	271	eP	16 45 57.2	0.8		

1987 9 19

O=18 59 35.9 ± 0.10s

LAT=30.37 N ± 1.32km

LONG= 94.78 E ± 1.11km

DEPTH= 20 km ± 0.16km

STATIONS USED = 55, STAND DEV= 2.16s

Ms=4.1/ 6, M_L=3.9/ 2,

LSA	3.2	259	Pn	19 00 30.3	4.0		
			Pg	19 00 34.5	1.8		
			Sg	19 01 18.0	1.2		
			SME		5.0	3.59	
CD2	7.8	84	eP	19 01 31.1	0.3		
			LN	Ms=4.1	9.0	1.19	
KMI	8.8	125	+P	19 01 44.5	-0.7		
			eS	19 03 28.0	3.3		
			LE	Ms=4.2	4.0	0.60	
GTA	9.9	23	P	19 02 01.1	0.2		
			LN	Ms=3.9	10.0	0.51	
GYA	11.2	108	eP	19 02 16.4	-1.6		
XAN	12.5	69	eP	19 02 35.0	-1.2		
WMQ	14.5	339	P	19 03 02.5	-0.5		
BTO	16.0	46	eP	19 03 21.0	-1.5		
TIY	16.3	59	eP	19 03 27.0	0.7		
			LE	Ms=4.0	10.0	0.29	
WHN	16.9	84	eP	19 03 31.0	-1.9		
			eS	19 06 36.6	-2.5		
			LN	Ms=4.2	9.0	0.40	

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TIA	19.5	67	cP	19 04 07.7	2.2
BJI	19.9	55	cP	19 04 10.0	0.3
NJ2	20.7	79	cP	19 04 18.0	0.7
SNY	25.8	56	+P	19 05 08.2	0.3
CN2	27.7	53	cP	19 05 25.0	-0.5

1987 9 19

O=19 33 31.1 ± 0.47s

LAT= 4.08 S ± 3.99km

LONG= 83.15 W ± 4.88km

DEPTH= 31 km ± 3.06km

STATIONS USED = 27, STAND DEV= 3.33s

SSE	144.7	322	+PKP	19 53 04.2	-1.5
GTA	144.7	356	PKP	19 53 03.0	-3.0
NJ2	145.4	326	-PKP	19 53 05.9	-1.0
LZH	147.5	349	cPKP	19 53 12.0	1.3
XAN	148.1	341	PKP	19 53 13.4	1.8
WHN	148.9	330	cPKP	19 53 08.4	-4.4
CD2	152.5	347	PKP	19 53 24.8	6.5

1987 9 19

O=21 18 26.1 ± 0.29s

LAT= 9.18 S ± 2.38km

LONG= 79.09 W ± 2.10km

DEPTH= 70 km ± 2.44km

STATIONS USED = 76, STAND DEV= 1.67s

Ms=5.6/11, m_B=6.0/2

SNY	141.8	332	PKHKP	21 37 42.0	-1.3
			LE	Ms=5.6	20.0 0.65
KSH	142.5	32	+PKP	21 37 49.0	-3.2
			pPKP	21 38 06.0	-4.8
			ePP	21 41 01.0	-1.9
WMQ	143.6	16	PKP	21 37 51.6	-2.4
			pPKP	21 38 07.5	-5.1
			PP	21 41 04.0	-5.5
			LZ	Ms=5.5	40.0 1.21
DL2	145.1	331	-iPKP	21 37 55.5	-0.9
BJI	146.4	339	cPKP	21 37 59.0	0.3
			pPKP	21 38 13.0	-4.6
			ePP	21 41 20.0	-5.7
			LN	Ms=5.6	24.0 0.90
HHC	147.1	345	cPKP	21 38 02.0	2.0
BTO	147.7	347	cPKP	21 38 02.0	1.0
			pPKP	21 38 24.5	4.7
			PP	21 41 32.0	-1.5
TIA	149.3	334	cPKP	21 38 04.4	0.9
TIY	149.7	342	-PKP	21 38 04.5	0.2
			PP	21 41 39.0	-5.7
			PPMZ	m _B =6.0	7.0 0.65
GTA	149.9	2	-iPKP	21 38 05.4	0.8

			sPKP	21 38 42.0	
			PP	21 41 43.0	-2.5
			PKS	21 41 40.0	
			LN	Ms=5.6	32.0 1.06
			LZ	Ms=5.7	32.0 1.47
SSE	151.2	322	PKP	21 38 06.7	0.4
			PKP ₂	21 38 21.5	
			cSS	22 01 08.0	0.3
			LZ	Ms=5.7	20.0 0.94
NJ2	151.8	326	-PKP	21 38 08.0	0.7
LZH	153.1	355	-PKP	21 38 10.0	0.7
			pPKP	21 38 28.5	0.4
XAN	154.2	345	-PKP	21 38 11.5	0.9
			pPKP	21 38 29.3	-0.3
			PP	21 42 07.0	-3.1
WHN	155.3	331	PKP	21 38 12.0	-0.1
			pPKP	21 38 28.0	-3.1
			PP	21 42 16.0	0.0
			LZ	Ms=5.5	28.0 0.78
LSA	157.6	23	PKP	21 38 16.2	0.5
CD2	158.2	353	PKP	21 38 17.2	1.2
GYA	162.0	343	PKP	21 38 21.2	1.2
			PP	21 42 49.8	-2.2
KMI	164.0	354	+PKP	21 38 23.0	0.8
			PP	21 42 59.5	-3.9
QZN	166.9	319	PKP	21 38 25.5	1.0
			pPKP	21 38 44.5	0.9
			PKP ₂	21 39 24.0	

1987 9 19

O=21 57 59.5 ± 0.14s

LAT=49.80 N ± 2.60km

LONG=156.22 E ± 1.81km

DEPTH= 84 km ± 0.13km

STATIONS USED = 86, STAND DEV= 1.28s

Ms=4.5/10, m_B=5.4/2

MDJ	18.8	264	cP	22 02 12.6	-2.1
			PP	22 02 34.0	0.3
			SS	22 06 10.0	4.6
CN2	21.8	266	+P	22 02 43.0	-3.3
SNY	24.0	263	+P	22 03 07.6	0.4
			eS	22 07 11.0	-4.0
			LN	Ms=4.6	28.0 1.82
BJI	29.7	266	-P	22 03 59.0	-0.8
TIA	31.3	259	+P	22 04 13.1	-0.9
SSE	32.2	248	+iP	22 04 22.5	0.9
			PMZ		1.0 0.082
			eS	22 09 26.0	-1.3
HHC	32.2	271	cP	22 04 21.5	-0.9
NJ2	32.9	252	+P	22 04 28.3	0.2

KMI	28.5	313	eP	06 41 31.0	0.9
XAN	31.4	333	P	06 41 53.8	-1.5
CD2	31.7	323	P	06 41 57.4	-0.3
BJI	34.5	347	P	06 42 20.5	-1.0
			pP	06 42 48.5	-2.4
GTA	40.1	329	+P	06 43 08.9	0.1
			pP	06 43 38.2	-0.4
WMQ	49.7	325	P	06 44 25.2	-0.3

1987 9 20

O=11 41 07.4 ± 0.09s
 LAT=34.97 N ± 1.88km
 LONG= 25.60 E ± 1.60km
 DEPTH= 18 km ± 0.39km
 STATIONS USED = 55, STAND DEV= 1.47s

Ms=4.7/ 3,

KSH	40.0	68	eP	11 48 44.2	1.1
			eS	11 54 50.0	2.2
WMQ	47.8	60	P	11 49 46.2	-0.2
			S	11 56 42.0	1.5
			LN	Ms=4.7	26.0 0.67
GTA	57.7	62	P	11 50 59.0	-1.4
			LN	Ms=4.7	28.0 0.58
CD2	64.1	69	eP	11 51 42.5	-1.2
BTO	64.5	57	eP	11 51 50.6	4.4
XAN	66.6	64	P	11 51 58.3	-1.3
TIY	67.5	59	eP	11 52 05.0	-0.1
GYA	68.5	72	P	11 52 11.4	0.0
BJI	68.9	55	eP	11 52 14.0	-0.3
TIA	71.5	59	eP	11 52 33.8	4.1
WHN	72.3	65	eP	11 52 37.1	2.5
SNY	72.9	51	eP	11 52 37.6	-0.7
CN2	73.0	48	eP	11 52 39.0	0.0
NJ2	74.8	61	eP	11 52 47.5	-1.9

1987 9 20

O=16 00 06.5 ± 0.13s
 LAT=25.47 N ± 1.66km
 LONG= 96.58 E ± 0.94km
 DEPTH= 32 km ± 0.06km
 STATIONS USED = 28, STAND DEV= 1.93s

Ms=3.8/ 2, M_L=3.9/ 3,

KMI	5.6	92	eP	16 01 31.0	1.1
			LN	Ms=3.7	7.0 0.70
LSA	6.4	312	P	16 01 43.5	2.0
CD2	8.3	48	eP	16 02 09.1	0.9
GYA	9.1	82	eP	16 02 19.0	-0.3
XAN	13.7	49	eP	16 03 17.2	-3.9
GTA	14.2	10	eP	16 03 29.0	1.7
			LN	Ms=3.9	11.0 0.35

WMQ	19.7	341	eP	16 04 35.0	-1.0
SSE	22.4	70	eP	16 05 04.0	0.5

1987 9 20

O=18 42 11.0 ± 0.06s
 LAT=43.58 N ± 1.51km
 LONG=146.67 E ± 0.94km
 DEPTH= 63 km ± 0.72km

STATIONS USED = 58, STAND DEV= 1.05s

MDJ	12.3	281	eP	18 45 06.0	0.0
CN2	15.4	278	eP	18 45 44.6	-0.9
DL2	19.4	265	eP	18 46 34.0	-0.5
BJI	22.9	272	eP	18 47 10.0	-0.8
SSE	23.7	247	eP	18 47 19.5	1.5
			sP	18 47 35.0	-4.1
TIA	23.7	262	-P	18 47 18.7	0.0
NJ2	24.7	252	-P	18 47 28.8	1.0
TIY	26.5	269	eP	18 47 46.8	1.9
BTO	27.2	276	-iP	18 47 51.6	0.1
WHN	28.7	254	eP	18 48 04.6	0.0
XAN	30.7	265	eP	18 48 21.6	-0.9
LZH	33.4	272	eP	18 48 46.5	0.0
GTA	35.0	280	eP	18 48 59.4	-0.4
CD2	36.0	264	P	18 49 08.3	-0.4
GYA	36.5	255	P	18 49 12.4	-0.6
WMQ	41.8	292	P	18 49 56.7	-0.1

1987 9 21

O=03 45 14.9 ± 0.20s
 LAT=43.68 N ± 2.35km
 LONG= 89.15 E ± 1.25km
 DEPTH= 6 km ± 1.07km
 STATIONS USED = 7, STAND DEV= 4.16s

M_L=3.7/ 6,

WMQ	1.1	278	-iPg	03 45 35.8	2.1
			Sg	03 45 49.0	1.0

1987 9 21

O=05 09 52.3 ± 0.13s
 LAT=32.58 N ± 1.42km
 LONG=122.28 E ± 0.60km
 DEPTH= 4 km ± 1.66km
 STATIONS USED = 6, STAND DEV= 3.98s

M_L=3.1/ 5,

SSE	1.7	212	ePn	05 10 23.0	-0.7
			ePg	05 10 24.0	0.8
			Sg	05 10 42.5	-4.7
			SMN	M _L =3.1	0.5 0.17
			SME		0.5 0.23
NJ2	2.9	261	-iPg	05 10 40.7	-3.7

iSn 05 11 13.6 -4.4
SME $M_L=3.2$ 0.2 0.090

LONG = 106.23 E ± 0.90 km

DEPTH = 10 km

STATIONS USED = 11, STAND DEV = 2.42s

$M_L=3.3/10,$

BTO	3.0	75	ePn	19 14 39.7	2.4		
			Sn	19 15 18.6	3.7		
			SMN	$M_L=3.1$	0.3	0.090	
			SME		0.3	0.060	
			SMZ	$M_L=3.1$	0.3	0.050	
LZH	4.2	207	ePg	19 15 06.0	1.3		
			eSg	19 15 58.0	-4.5		
			SMN	$M_L=3.3$	1.5	0.056	
GTA	5.0	266	Pn	19 15 06.1	1.4		
			Pg	19 15 19.6	2.4		
			Sg	19 16 25.5	0.2		
			SMN	$M_L=3.0$	1.0	0.024	
			SME		0.8	0.014	
TIY	5.3	112	ePg	19 15 20.8	-2.6		
			SMN	$M_L=3.3$	0.9	0.030	
XAN	6.2	159	Pg	19 15 43.0	3.4		

1987 9 22

O = 01 25 55.9 ± 0.12 s

LAT = 35.97 N ± 1.44 km

LONG = 78.02 E ± 1.68 km

DEPTH = 44 km ± 0.29 km

STATIONS USED = 26, STAND DEV = 2.61s

$M_s=4.3/2, M_L=4.5/4,$

KSH	3.8	336	eP	01 26 58.0	3.7		
			LE	$M_s=4.2$	6.0	3.00	
WMQ	10.8	41	P	01 28 29.0	-2.1		
			S	01 30 28.4	-2.2		
			LE	$M_s=4.5$	4.0	0.69	
GTA	17.6	72	eP	01 29 59.5	-0.2		
GYA	26.2	103	P	01 31 33.6	4.8		

1987 9 22

O = 07 17 23.5 ± 0.07 s

LAT = 0.84 S ± 1.18 km

LONG = 84.45 E ± 1.32 km

DEPTH = 9 km ± 0.14 km

STATIONS USED = 85, STAND DEV = 0.90s

$M_s=4.9/28,$

$m_B=5.6/3$

LSA	31.0	11	-P	07 23 44.7	0.0		
			S	07 28 50.0	2.5		
			SME		16.0	2.20	
KMI	31.3	33	eP	07 23 48.0	1.2		
QZN	31.8	50	-P	07 23 52.2	1.2		
			S	07 29 00.0	0.4		
			LN	$M_s=5.1$	15.0	1.80	

1987 9 21
O = 17 00 24.0 ± 0.08 s
LAT = 25.92 N ± 1.39 km
LONG = 125.14 E ± 0.77 km
DEPTH = 175 km ± 1.09 km
STATIONS USED = 34, STAND DEV = 1.46s

QZH	6.0	262	+iP	17 01 51.5	-0.4		
SSE	6.2	327	P	17 01 53.8	-1.0		
NJ2	8.2	319	eP	17 02 21.0	-0.3		
TIA	12.3	328	eP	17 03 16.8	1.8		
DL2	13.3	348	eP	17 03 32.0	5.0		
TIY	15.9	321	P	17 04 02.0	1.6		
BJI	16.0	334	eP	17 04 00.0	-0.3		
XAN	16.2	304	eP	17 04 04.4	0.9		
CN2	17.8	1	eP	17 04 22.0	-0.6		
HHC	18.7	326	eP	17 04 31.8	0.2		
BTO	19.3	323	eP	17 04 37.0	-1.1		
CD2	19.4	290	Pn	17 04 39.6	255.1		
LZH	20.8	304	eP	17 04 55.0	1.3		
GTA	25.1	309	P	17 05 33.6	-1.1		

1987 9 21

O = 17 50 51.6 ± 0.16 s

LAT = 21.47 N ± 2.13 km

LONG = 119.86 E ± 2.18 km

DEPTH = 15 km ± 0.66 km

STATIONS USED = 23, STAND DEV = 2.86s

$M_s=4.2/6, M_L=3.9/2,$

QZH	3.6	342	ePn	17 51 45.0	-2.8		
			SME	$M_L=3.7$	1.2	0.18	
GZH	6.2	286	ePn	17 52 24.0	0.5		
QZN	9.7	257	+P	17 53 14.0	0.0		
			LN	$M_s=4.2$	13.0	0.80	
			LE		12.0	1.00	
GYA	13.0	295	eP	17 54 01.4	2.0		
XAN	15.8	325	eP	17 54 39.4	3.8		
KMI	16.1	286	eP	17 54 38.0	-2.0		
CD2	17.2	306	P	17 54 55.2	1.7		
			LE	$M_s=4.4$	10.0	0.65	
BJI	18.8	351	P	17 55 15.0	2.3		
CN2	22.7	11	eP	17 55 57.0	2.3		
			S	18 00 00.0	2.4		
			LZ	$M_s=4.5$	12.0	0.60	

1987 9 21

O = 19 13 49.4 ± 0.11 s

LAT = 39.90 N ± 1.05 km

CN2 57.5 54 eP 14 34 13.0 -1.5

1987 9 22

O = 14 50 31.0 ± 0.08s
 LAT = 30.39 N ± 1.13km
 LONG = 94.80 E ± 0.83km
 DEPTH = 20 km ± 0.05km
 STATIONS USED = 48, STAND DEV = 1.92s
 Ms = 4.1 / 1, M_L = 3.9 / 2,

LSA	3.2	259	Pn	14 51 25.7	3.9
			Pg	14 51 31.0	2.8
			Sg	14 52 14.0	1.4
			LE	Ms = 4.1	5.0 2.69
CD2	7.7	84	P	14 52 27.3	1.6
KMI	8.8	125	eP	14 52 39.0	-1.3
GTA	9.9	23	eP	14 52 54.0	-1.8
GYA	11.2	108	P	14 53 11.6	-1.4
XAN	12.5	69	P	14 53 30.7	-0.4
WMQ	14.5	339	eP	14 53 57.8	-0.3
BTO	16.0	46	eP	14 54 15.0	-2.4
WHN	16.9	85	eP	14 54 27.0	-0.9
KSH	17.9	305	eP	14 54 43.5	2.9
TIA	19.5	67	eP	14 55 02.2	1.8
BJI	19.9	55	eP	14 55 05.0	0.4
NJ2	20.6	79	eP	14 55 12.0	-0.3
SNY	25.8	56	eP	14 56 03.2	0.4
CN2	27.7	53	eP	14 56 20.0	-0.5

1987 9 22

O = 15 54 41.5 ± 0.07s
 LAT = 2.41 N ± 0.71km
 LONG = 125.67 E ± 1.06km
 DEPTH = 120 km ± 0.58km
 STATIONS USED = 42, STAND DEV = 0.97s

QZN	22.6	318	eP	15 59 35.8	2.5
GYA	30.1	324	P	16 00 42.6	0.4
CD2	35.1	326	eP	16 01 25.7	0.1
XAN	35.1	335	P	16 01 24.5	-1.4
DL2	36.5	355	eP	16 01 37.0	-0.4
SNY	39.3	358	-P	16 02 00.6	0.1
CN2	41.2	360	eP	16 02 16.0	-0.4
MDJ	42.2	4	-P	16 02 25.4	1.1
LSA	42.5	313	-P	16 02 27.4	-0.3

1987 9 22

O = 16 12 44.0 ± 0.10s
 LAT = 0.10 S ± 0.78km
 LONG = 123.10 E ± 0.44km
 DEPTH = 178 km ± 1.22km
 STATIONS USED = 23, STAND DEV = 1.43s

QZN 23.0 326 eP 16 17 35.3 0.7
 LSA 42.5 317 P 16 20 23.7 -0.4
 GTA 44.7 334 P 16 20 41.5 -0.1

1987 9 22

O = 16 21 35.1 ± 0.25s
 LAT = 1.12 S ± 2.34km
 LONG = 78.18 W ± 3.34km
 DEPTH = 12 km ± 1.59km
 STATIONS USED = 85, STAND DEV = 1.93s
 Ms = 5.9 / 20, m_B = 6.1 / 1

MDJ	130.2	334	ePKP	16 40 45.5	-1.0
CN2	132.6	337	+PKP	16 40 49.0	-2.1
			PP	16 43 15.0	-2.4
			LZ	Ms = 6.0	20.0 1.90
SNY	135.0	337	ePKP	16 40 54.7	-0.8
KSH	135.1	29	ePKP	16 40 57.0	1.0
			PKS	16 44 30.0	
			eSKS	16 48 05.0	2.5
WMQ	135.7	15	PKP	16 40 58.5	1.6
			PP	16 43 33.7	-3.4
			PPMZ		2.0 0.040
			PKS	16 44 26.5	
			LN	Ms = 5.9	26.0 1.34
			LE		24.0 1.21
			LZ	Ms = 5.8	24.0 1.47
DL2	138.3	337	PKP	16 41 03.0	1.5
			ePP	16 43 51.0	-2.7
			PKS	16 44 37.0	
			eSKS	16 48 09.0	1.3
			eSKKS	16 50 42.0	
BJI	139.1	343	ePKP	16 41 04.5	1.4
			PKS	16 44 38.0	
			LN	Ms = 5.6	30.0 1.18
HHC	139.5	349	+PKP	16 41 04.0	0.1
BTO	140.0	350	ePKP	16 41 02.0	-2.8
			LN	Ms = 6.1	20.0 1.20
			LE		20.0 1.90
			LZ	Ms = 6.1	22.0 2.30
GTA	141.8	3	ePKP	16 41 04.0	-4.1
			PP	16 44 09.5	-5.6
			ePKS	16 44 39.0	
			LN	Ms = 6.0	25.0 1.59
			LE		24.0 1.88
			LZ	Ms = 5.9	25.0 1.93
TIY	142.3	346	ePKP	16 41 05.6	-3.2
TIA	142.3	340	ePKP	16 41 05.0	-3.7
			LE	Ms = 5.9	23.5 1.88
SSE	145.0	330	ePKP	16 41 10.5	-2.9
			ePP	16 44 29.0	-5.1

			LZ	Ms=6.1	22.0	2.33	HHC	37.0	209	-P	22 12 26.0	-0.3		
LZH	145.2	357	+iPKP	16 41 14.0	0.1		BJI	37.3	203	-P	22 12 29.0	0.2		
NJ2	145.3	334	+PKP	16 41 13.0	-0.9					PMZ			3.0	0.54
			PP	16 44 34.0	-1.8					pP	22 12 33.0	-1.9		
XAN	146.6	349	PKP	16 41 17.1	0.9					cPP	22 14 00.0	4.0		
			PKP ₂	16 41 22.0						S	22 18 17.0	1.9		
			PP	16 44 40.0	-3.6					SMN	Ms=5.5	6.0	0.27	
WHN	148.4	339	cPKP	16 41 20.0	0.9					SME		6.0	0.44	
			pPKP ₂	16 41 30.0						LN	Ms=6.1	11.0	6.85	
			PP	16 44 51.0	-3.3					LE		11.0	7.73	
			SKS	16 48 17.0	-6.1		BTO	37.5	211	P	22 12 30.0	0.0		
			LZ	Ms=5.8	20.0	1.20				sP	22 12 37.0	-1.8		
LSA	149.8	19	+PKP	16 41 22.6	0.8					PP	22 13 59.0	1.7		
CD2	150.3	357	PKP	16 41 23.8	1.6					S	22 18 18.5	1.6		
QZH	151.3	327	cPKP	16 41 25.0	1.4					SS	22 20 53.0	3.8		
			LN	Ms=5.8	20.0	0.86				LN	Ms=5.8	11.0	4.20	
			LE		20.0	0.75				LE		11.0	3.60	
GYA	154.4	350	PKP	16 41 29.2	1.1					LZ	Ms=5.7	12.0	4.90	
			PP	16 45 30.0	1.9		WMQ	38.0	239	-P	22 12 35.0	0.3		
			LE	Ms=5.7	20.0	0.90				S	22 18 29.0	3.5		
KMI	156.1	358	+PKP	16 41 32.5	2.0					LN	Ms=5.9	16.0	6.87	
			PKP ₂	16 41 59.0						LE		16.0	6.17	
			PP	16 45 35.5	-2.3					LZ	Ms=5.5	20.0	4.94	
			LE	Ms=5.9	20.0	1.30	DL2	38.0	196	-iP	22 12 36.0	1.3		
QZN	160.5	337	cPKP	16 41 37.4	1.8					pP	22 12 40.0	-0.8		
			PKP ₂	16 42 20.0						cS	22 18 28.0	1.4		
			PP	16 46 02.0	0.5					LE	Ms=6.1	14.0	14.3	
							TIY	40.0	207	cP	22 12 52.0	0.6		
										S	22 19 00.0	4.3		
										LE	Ms=5.8	13.0	6.25	
										LZ	Ms=6.0	13.0	8.30	
							GTA	40.1	223	-P	22 12 52.0	0.2		
										PMZ	Ms=5.6	6.0	0.66	
										PP	22 14 27.0	-0.5		
										S	22 18 59.0	2.5		
										SMN		18.0	1.21	
										LE	Ms=5.8	14.0	6.48	
										LZ	Ms=5.9	12.0	6.59	
							TIA	41.1	201	cP	22 13 00.0	0.2		
										cPP	22 14 40.0	2.7		
										PPMZ		12.0	0.61	
										eS	22 19 10.5	-1.6		
										eSS	22 22 13.5	4.7		
										LN	Ms=6.2	13.5	13.9	
										LE		13.5	3.20	
										LZ	Ms=5.7	13.5	4.40	
							LZH	42.7	217	-P	22 13 14.2	0.6		
										PMZ	Ms=5.8	6.0	1.04	
										cPP	22 14 57.0	2.2		
										cS	22 19 37.0	0.1		

1987 9 22

O=22 05 14.5 ± 0.06s

LAT=76.41 N ± 0.91km

LONG=134.38 E ± 1.22km

DEPTH=14 km ± 0.04km

STATIONS USED = 99, STAND DEV = 0.82s

Ms=5.9/59,

m_B=5.7/12

MDJ 32.0 186 -P 22 11 42.5 -0.3

LE Ms=5.6 12.0 5.28

CN2 32.9 192 -iP 22 11 50.5 -0.8

PMZ m_B=6.0 4.0 0.90

pP 22 11 54.5 -2.7

cS 22 17 06.0 -2.0

cSS 22 19 02.0 -4.2

LZ Ms=5.9 12.0 8.40

SNY 35.0 194 -iP 22 12 09.0 -0.1

PMZ m_B=5.6 7.0 0.86

pP 22 12 14.0 -1.1

S 22 17 40.5 1.4

LN Ms=5.9 12.0 8.34

LE 13.0 2.91

LZ Ms=6.0 12.0 9.45

DL2	21.7	261	-iP	07 20 25.0	0.6			HHC	27.9	273	-iP	07 21 23.0	0.4		
			PMZ			3.0	6.23				S	07 25 56.5	2.3		
			pP	07 20 54.5	3.5						LN			15.0	10.8
			PP	07 20 57.0	1.4			TIY	28.7	266	-iP	07 21 30.3	0.9		
			sP	07 21 05.0	-1.1						PMZ	$m_B = 5.8$	10.0	2.16	
			iS	07 24 16.0	4.2						pP	07 21 54.0	-2.8		
			SMN	$m_B = 6.3$		10.0	5.38				sP	07 22 16.0	3.6		
			SME			8.0	3.84				PP	07 22 28.0	1.3		
			sS	07 24 58.0	-3.9						S	07 26 12.5	5.9		
			iScS	07 31 29.0	1.2						SMN	$m_B = 5.5$	10.0	1.05	
			LN			11.0	1.80				SME		7.5	1.10	
BJI	25.0	268	-iP	07 20 56.0	0.1						ScP	07 28 08.0	3.9		
			PMZ	$m_B = 6.4$		5.0	5.25				PcS	07 28 20.0	2.4		
			esP	07 21 38.0	-0.4			BTO	29.1	274	-iP	07 21 33.0	-0.1		
			eS	07 25 08.0	0.1						sP	07 22 15.0	-1.0		
			SMN	$m_B = 5.7$		8.0	2.37				S	07 26 11.5	-1.4		
			esS	07 25 53.0	-2.2						SS	07 27 52.0	-0.9		
			ScS	07 31 41.0	0.5						LN			15.0	8.40
			LN			19.0	14.0				LE			15.0	3.10
TIA	26.2	260	-P	07 21 07.1	0.3						LZ			15.0	4.30
			PMZ	$m_B = 6.1$		5.0	2.26	WHN	31.4*	253	-iP	07 21 53.0	-0.3		
			sP	07 21 48.8	-0.8						PMZ	$m_B = 6.5$	4.0	3.55	
			PP	07 21 55.8	1.4						sP	07 22 36.0	-0.7		
			PcP	07 24 30.7	0.2						iS	07 26 49.0	-1.1		
			S	07 25 29.0	2.4						SMN	$m_B = 5.7$	6.0	1.59	
			SMN	$m_B = 6.0$		10.0	5.04				ScS	07 32 12.0	2.6		
			SME			9.0	2.11				LN			18.0	2.00
			sS	07 26 16.0	0.9			QZH	32.5	240	-iP	07 22 04.0	0.6		
			SS	07 26 51.0	5.4						PMZ			2.0	2.21
			ScS	07 31 46.1	0.8						pP	07 22 32.0	0.6		
SSE	26.6	246	+iP	07 21 11.0	0.7						sP	07 22 46.0	-0.8		
			PMZ			1.2	0.84				iS	07 27 10.0	1.8		
			pP	07 21 40.0	2.4						SMN	$m_B = 6.0$	7.0	2.15	
			sP	07 21 54.0	0.8						SME		7.0	2.62	
			iS	07 25 35.0	1.5						sS	07 27 59.0	1.6		
			SMN	$m_B = 5.9$		6.0	1.66				PcS	07 28 29.0	-1.4		
			SME			7.0	2.27				SME	$m_B = 5.8$	12.0	3.86	
			sS	07 26 24.0	2.6			XAN	33.0	263	-iP	07 22 07.5	0.0		
			ScP	07 27 56.0	-1.7						PMZ	$m_B = 6.3$	4.0	2.40	
			PcS	07 28 12.0	0.8						sP	07 22 51.0	0.1		
			ScS	07 31 48.0	1.0						iS	07 27 16.0	0.4		
			LE			16.0	2.05				SMN	$m_B = 5.6$	7.0	1.65	
			LZ			18.0	1.82				LN			14.0	2.26
NJ2	27.4	250	-iP	07 21 18.5	0.1						LE			12.0	1.28
			sP	07 22 00.0	-1.3			LZH	35.4	270	-iP	07 22 30.0	1.5		
			PcP	07 24 34.0	0.5						PMZ			2.5	2.53
			iS	07 25 48.0	0.2						pP	07 22 55.0	-1.8		
			SME	$m_B = 5.7$		7.0	2.00				PP	07 23 47.0	-3.5		
			ScP	07 28 01.5	1.1						PPMZ			10.0	1.89
			LN			15.0	7.20				cS	07 27 49.0	-4.5		

			sP	15 26 42.5	0.0				PP	15 30 48.0	2.7			
			PP	15 29 24.0	3.6				iS	15 37 57.0	2.2			
			S	15 36 10.0	5.2				SME	$m_B = 6.5$	9.0	3.70		
			SMN	$m_B = 6.4$	12.0	2.90			LE	$M_S = 6.0$	20.0	4.30		
			SME		10.0	2.10	CD2	87.1	330	+iP	15 27 44.4	0.8		
			SKS	15 36 33.5	-2.4				SKS	15 38 12.0	5.0			
			ScS	15 36 42.0	2.0				LE	$M_S = 5.9$	15.0	2.37		
			SS	15 40 54.0	2.1		XAN	88.5	335	+iP	15 27 50.7	0.3		
			LN	$M_S = 6.1$	18.0	4.20			PMZ	$m_B = 6.4$	6.0	1.76		
			LE		19.0	4.10			SKS	15 38 22.5	6.5			
GZH	76.9	336	+P	15 26 51.0	0.4				S	15 38 38.0	4.8			
			PMZ	$m_B = 6.3$	5.0	1.90			SMN	$m_B = 6.5$	10.0	4.08		
			S	15 36 43.0	6.7				LN	$M_S = 6.3$	19.0	6.32		
			SMN	$m_B = 6.2$	12.0	1.66	TIA	88.7	342	+P	15 27 50.6	-0.7		
			SME		10.0	1.27			S	15 38 36.5	1.6			
			LN	$M_S = 6.2$	20.0	6.09			SMN	$m_B = 6.4$	10.0	3.03		
			LE		13.0	1.43			SME		10.0	1.46		
QZH	77.5	341	+P	15 26 54.0	0.4				LN	$M_S = 6.1$	17.0	4.16		
			PMZ	$m_B = 6.4$	4.0	1.74	DL2	90.5	346	P	15 28 00.0	0.0		
			S	15 36 46.0	3.8				cPP	15 31 29.0	-6.3			
			SMN	$m_B = 6.2$	10.0	1.23			SKS	15 38 28.0	-0.4			
			SME		10.0	1.50			S	15 38 55.0	3.1			
			LN	$M_S = 6.0$	20.0	3.44			LN	$M_S = 6.1$	20.0	3.62		
			LE		20.0	3.14			LE		20.0	2.48		
			SS	15 41 48.0	4.1		LSA	90.6	320	-iP	15 28 00.6	-0.1		
GYA	82.0	331	+P	15 27 19.2	0.9				PP	15 31 34.0	-1.7			
			PMZ		3.0	1.70			SKS	15 38 34.0	5.2			
			SMN	$m_B = 6.6$	9.0	2.70			SMN	$m_B = 6.1$	11.0	1.80		
			SME		9.0	2.80			LE	$M_S = 6.2$	20.0	5.80		
			LN	$M_S = 6.2$	19.0	3.50	TIY	91.1	339	+P	15 28 02.5	-0.3		
			LE		19.0	5.90			PP	15 31 44.0	4.2			
KMI	82.1	327	+iP	15 27 21.0	2.4				SKS	15 38 32.0	0.2			
			LN	$M_S = 6.3$	19.0	7.50			S	15 39 04.0	7.0			
SSE	83.0	344	+P	15 27 22.0	-1.0				SMN	$m_B = 6.0$	10.0	1.11		
			PMZ	$m_B = 6.2$	8.0	1.83			SME		9.0	0.66		
			pP	15 27 27.5	-1.1				LN	$M_S = 5.9$	18.0	1.63		
			SKS	15 37 40.0	0.4				LE		20.0	2.42		
			SMN	$m_B = 6.1$	8.0	1.26			LZ	$M_S = 6.1$	24.0	5.07		
			SS	15 43 08.0	1.6		LZH	91.9	332	+iP	15 28 07.0	0.8		
			LN	$M_S = 6.1$	20.0	5.08			PMZ	$m_B = 6.6$	3.5	1.14		
			LE		18.0	1.55			SKS	15 38 39.0	3.0			
			LZ	$M_S = 6.1$	20.0	5.61			cS	15 39 00.0	-5.6			
WHN	83.8	339	P	15 27 27.5	0.2				SMN	$m_B = 6.2$	9.0	1.80		
			PMZ	$m_B = 6.7$	4.0	3.00			LN	$M_S = 6.0$	8.0	1.36		
			sP	15 27 34.0	-1.5		BJI	92.6	342	-P	15 28 09.0	-0.4		
			SKS	15 37 50.0	4.7				cSKS	15 38 42.0	1.9			
			SMN	$m_B = 6.5$	9.0	2.60			cS	15 39 14.0	2.4			
			SME		8.0	2.40			SMN	$m_B = 6.0$	9.0	1.07		
			LZ	$M_S = 6.1$	20.0	5.10			LN	$M_S = 5.9$	18.0	2.57		
NJ2	84.3	343	+P	15 27 29.5	-0.4		SNY	93.1	348	+P	15 28 08.0	-4.0		

WHN	83.0	308	cP	22 47 22.0	0.2
CN2	83.8	324	-P	22 47 25.5	-0.5
TIA	84.2	314	cP	22 47 28.1	0.2
TIY	88.2	313	P	22 47 47.4	0.5
XAN	88.7	308	P	22 47 50.5	1.0
KMI	89.3	298	cP	22 47 53.5	1.2
CD2	91.1	303	cP	22 48 01.8	1.4

1987 9 24

O=01 46 34.1 ± 0.13s
 LAT= 0.51 N ± 1.29km
 LONG=126.19 E ± 1.36km
 DEPTH= 56 km ± 0.94km

STATIONS USED = 51, STAND DEV = 1.49s

QZN	24.4	320	cP	01 51 45.6	-3.3
			cS	01 56 04.0	2.3
GYA	31.9	325	P	01 53 01.0	3.8
KMI	33.4	319	+P	01 53 10.0	0.3
CD2	37.0	327	cP	01 53 39.0	-1.4
XAN	37.1	336	*P	01 53 40.0	-1.2
BJI	40.4	348	cP	01 54 09.0	0.3
LZH	41.0	332	cP	01 54 12.5	-1.8
SNY	41.2	357	+iP	01 54 16.8	1.4
CN2	43.1	359	cP	01 54 29.5	-1.6
MDJ	44.0	3	+P	01 54 39.8	1.3
GTA	45.6	331	+P	01 54 50.0	-1.3
			PcP	01 56 29.6	1.4
WMQ	55.1	327	cP	01 56 02.5	-0.7
			ScS	02 05 48.0	5.6

1987 9 24

O=04 09 53.1 ± 0.08s
 LAT=37.25 N ± 0.80km
 LONG=103.69 E ± 0.71km
 DEPTH= 16 km ± 0.25km

STATIONS USED = 10, STAND DEV = 2.00s

$M_L = 3.4 / 7,$

GTA	3.7	307	Pn	04 10 51.5	0.7
			Sn	04 11 39.0	2.7
			Sg	04 11 48.6	-1.6
			SMN	$M_L = 3.4$	0.8 0.11
			SME		0.8 0.093
XAN	5.3	125	Pg	04 11 25.5	-1.8
			Sg	04 12 33.0	-7.0

1987 9 24

O=04 55 19.2 ± 0.09s
 LAT=36.56 N ± 1.50km
 LONG=141.25 E ± 1.72km
 DEPTH= 41 km ± 1.00km

STATIONS USED = 99, STAND DEV = 1.58s

$M_s = 5.6 / 66,$ $m_B = 5.9 / 20$

MDJ	12.0	316	cP	04 58 10.8	0.6
			LZ	$M_s = 5.3$	18.0 18.3
CN2	14.1	306	+iP	04 58 38.0	-0.1
			PMZ	$m_B = 6.3$	5.0 2.60
			pP	04 58 47.0	1.0
			cS	05 01 14.0	0.5
SNY	14.7	296	+iP	04 58 47.0	1.0
			PMZ	$m_B = 6.3$	4.0 2.00
			pP	04 58 54.0	0.0
			cS	05 01 34.5	6.7
			LN	$M_s = 5.6$	15.0 12.4
			LE		18.0 18.1
			LZ	$M_s = 5.6$	19.0 29.6
DL2	15.7	284	P	04 59 00.0	0.7
			pP	04 59 09.0	1.5
			sP	04 59 14.0	1.1
			LE	$M_s = 5.5$	14.0 15.9
SSE	17.5	258	cP	04 59 22.7	0.4
			PMZ	$m_B = 5.6$	7.0 2.14
			sP	04 59 38.0	1.9
			S	05 02 35.0	1.7
			SS	05 02 51.0	-4.6
			LN	$M_s = 5.7$	19.0 16.4
			LE		22.0 21.5
			LZ	$M_s = 5.7$	20.0 29.5
NJ2	19.0	263	+P	04 59 38.0	-2.7
			sP	04 59 55.0	0.4
			LE	$M_s = 5.8$	16.0 21.8
TIA	19.4	276	-P	04 59 43.5	-1.6
			LN	$M_s = 5.7$	13.5 12.9
			LE		14.5 10.9
			LZ	$M_s = 5.2$	14.5 5.45
BJI	20.0	288	cP	04 59 49.0	-2.0
			PMZ	$m_B = 5.2$	5.0 0.63
			S	05 03 28.0	0.4
			SS	05 03 59.0	2.7
			LN	$M_s = 5.3$	14.0 3.94
			LE		15.0 4.91
			LZ	$M_s = 5.2$	16.0 6.21
QZH	22.6	246	+P	05 00 15.5	-2.2
			sP	05 00 34.0	1.5
			iS	05 04 17.5	-0.3
			SMN	$m_B = 5.6$	4.0 0.68
			LN	$M_s = 5.3$	14.0 3.55
			LE		14.0 3.54
TIY	23.0	282	P	05 00 20.7	-0.7
			pP	05 00 27.5	-3.9
			PP	05 00 54.5	3.6

	S	05 04 28.0	4.3					PcP	05 04 37.2	2.8			
	SME	$m_B = 5.9$	9.0	3.00				S	05 07 03.0	2.9			
	sS	05 04 38.0	-3.4					SME	$m_B = 5.3$	9.0	0.54		
	SS	05 05 15.0	5.8					LE	$M_s = 5.6$	23.0	8.14		
	LE	$M_s = 5.7$	14.0	13.4				LZ	$M_s = 5.5$	26.0	8.48		
	LZ	$M_s = 6.0$	18.0	30.5	QZN	32.6	246	P	05 01 51.5	1.9			
WHN	23.2	263	P	05 00 23.0	-0.3			PP	05 03 03.0	4.5			
	PMZ	$m_B = 5.6$	6.0	1.50				LN	$M_s = 5.4$	15.0	2.40		
	pP	05 00 35.0	1.6					LE		16.0	3.00		
	S	05 04 24.0	-3.3				KMI	34.8	262	+P	05 02 08.0	-0.4	
	SME	$m_B = 5.4$	9.0	0.95				pP	05 02 19.0	0.2			
	SS	05 05 18.0	4.0					PP	05 03 25.0	-0.4			
	LE	$M_s = 5.4$	14.0	6.60				S	05 07 35.0	1.0			
	LZ	$M_s = 5.6$	20.0	14.0				SS	05 09 48.0	-0.5			
HHC	23.5	290	eP	05 00 23.5	-3.2			LE	$M_s = 5.7$	16.0	7.40		
BTO	24.7	289	P	05 00 35.0	-3.1			WMQ	40.9	297	+P	05 03 01.5	1.6
	sP	05 00 52.0	-0.7					S	05 09 12.5	4.8			
	PP	05 01 12.0	-2.2					SMN	$m_B = 6.4$	4.0	1.56		
	eS	05 04 50.0	-4.4					SME		5.0	3.04		
	LN	$M_s = 5.7$	15.0	2.90				LE	$M_s = 5.7$	15.0	5.10		
	LE		16.0	10.7				LZ	$M_s = 5.7$	15.0	5.26		
	LZ	$M_s = 5.7$	16.0	12.3	LSA	42.1	276	+P	05 03 11.0	0.9			
XAN	26.4	274	P	05 00 54.4	-0.2			pP	05 03 23.0	2.7			
	PMZ	$m_B = 5.8$	6.0	1.31				S	05 09 29.0	3.7			
	LN	$M_s = 5.7$	15.0	6.45				sS	05 09 43.5	-0.8			
	LE		17.0	9.11				LE	$M_s = 5.7$	16.0	4.89		
GZH	27.6	249	+P	05 01 06.5	1.7			KSH	50.5	294	+iP	05 04 18.0	2.0
	S	05 05 47.0	6.1					pP	05 04 30.0	3.4			
	LN	$M_s = 5.4$	18.0	3.44				ePP	05 06 10.0	-1.7			
	LE		18.0	5.52				iS	05 11 32.0	6.1			
LZH	30.0	280	+P	05 01 25.5	-1.5			LN	$M_s = 6.1$	16.0	10.4		
	PMZ	$m_B = 5.6$	6.0	0.69									
	ePP	05 02 27.0	2.3										
	S	05 06 20.0	0.0										
	LN	$M_s = 6.0$	16.0	6.89									
	LE		16.0	15.4									
GYA	31.0	261	+P	05 01 35.0	-0.7								
	sP	05 01 55.0	4.4										
	S	05 06 36.0	0.4										
	LN	$M_s = 5.7$	15.0	5.40	QZH	76.1	304	-P	06 14 09.0	0.0			
	LE		15.0	4.60				SME	$m_B = 4.8$	7.0	0.14		
CD2	31.5	271	P	05 01 39.8	-0.5			SSE	77.6	311	-P	06 14 15.5	-1.5
	S	05 06 45.0	1.1					GZH	79.3	300	-P	06 14 26.5	0.6
	LE	$M_s = 5.7$	16.0	8.72	NJ2	79.7	311	-P	06 14 28.5	0.0			
	LZ	$M_s = 5.8$	14.0	8.85				eS	06 23 43.0	-1.1			
GTA	32.6	288	P	05 01 48.5	-1.0			QZN	80.2	295	cP	06 14 30.6	-0.4
	PMZ	$m_B = 5.6$	6.0	0.59	MDJ	80.9	326	cP	06 14 34.0	-0.3			
	sP	05 02 03.0	-1.3		WHN	82.2	307	P	06 14 41.4	0.3			
	PP	05 02 56.0	-2.1		SNY	82.4	321	-P	06 14 41.8	-0.3			
	PPMZ		7.0	0.61	CN2	82.6	323	-iP	06 14 42.0	-1.0			

1987 9 24
 O = 06 03 19.6 ± 0.09s
 LAT = 21.84 S ± 0.82km
 LONG = 179.39 W ± 1.46km
 DEPTH = 597 km ± 1.16km
 STATIONS USED = 63, STAND DEV = 0.88s

			Sn	03 18 18.6	-2.4				S	05 43 58.0	4.4				
			LN		Ms=4.1	8.0	0.80		LN		Ms=5.6	14.0	3.43		
			LE			8.0	1.00		LE			13.0	1.88		
CD2	7.3	33	Pn	03 17 06.7	1.1			SSE	38.9	249	+P	05 38 01.5	2.0		
			Sn	03 18 29.0	-0.2						sP	05 38 14.0	0.1		
			LN		Ms=4.3	7.0	1.71				cS	05 43 50.0	-5.3		
			LZ		Ms=4.1	7.0	0.95				LN		Ms=5.3	16.0	1.93
XAN	12.5	41	eP	03 18 16.9	-2.6						LE			16.0	1.13
GTA	14.5	2	eP	03 18 51.0	4.3						LZ		Ms=5.3	20.0	2.80
WMQ	21.1	336	P	03 20 06.2	0.3			NJ2	39.4	253	eP	05 38 03.0	-0.8		
											pP	05 38 12.0	-1.8		
											S	05 44 04.0	1.9		
											LE		Ms=5.6	15.0	4.50
								WHN	43.1	256	eP	05 38 34.0	0.4		
											pP	05 38 44.0	0.2		
											cS	05 44 52.0	-4.7		
											LN		Ms=5.6	16.0	3.80
											LZ		Ms=5.4	20.0	2.80
								XAN	43.5	264	eP	05 38 36.4	-0.8		
											LN		Ms=5.8	14.0	4.10
											LE			14.0	3.08
								GTA	44.9	277	+P	05 38 48.8	0.4		
											iS	05 45 30.0	6.8		
											LN		Ms=5.5	15.0	3.02
											LZ		Ms=5.5	22.0	3.89
								WMQ	48.6	290	+P	05 39 18.5	1.0		
											LN		Ms=6.2	17.0	10.4
											LE			16.0	6.10
								CD2	48.7	266	P	05 39 18.8	0.1		
											S	05 46 14.0	-2.7		
											LE		Ms=5.5	13.0	1.93
											LZ		Ms=5.5	14.0	2.48
								GZH	49.5	250	+P	05 39 26.0	1.5		
											cS	05 46 31.0	2.6		
											LE		Ms=5.5	13.0	2.05
								GYA	50.5	259	P	05 39 32.2	-0.1		
											pP	05 39 43.0	0.8		
											S	05 46 46.0	4.9		
											LN		Ms=5.7	18.0	3.40
											LE			18.0	2.80
								KMI	53.7	262	eP	05 39 57.5	0.8		
											pP	05 40 09.5	2.8		
											PcP	05 41 03.0	1.6		
											PP	05 42 04.0	6.0		
											LE		Ms=5.7	20.0	4.40
											LZ		Ms=5.7	18.0	4.10
								QZN	54.7	251	+P	05 40 06.0	2.6		
											LN		Ms=5.5	19.0	1.70
											LE			19.0	1.80
								KSH	57.8	294	+P	05 40 26.0	-0.2		

1987 9 26

O=05 30 35.2 ± 0.17s

LAT=55.52 N ± 2.76km

LONG=164.44 E ± 1.66km

DEPTH=37 km ± 0.73km

STATIONS USED = 83, STAND DEV = 1.35s

Ms=5.6/43,

m_B=5.7/1

MDJ	24.6	258	eP	05 35 53.5	-0.3		
			S	05 40 15.0	5.7		
			LZ		Ms=5.3	12.0	4.06
CN2	27.5	261	eP	05 36 17.0	-3.2		
			sP	05 36 30.0	-4.2		
			eS	05 40 50.0	-6.7		
			LN		Ms=5.7	15.0	10.7
SNY	29.8	260	+P	05 36 40.0	-1.0		
			eS	05 41 28.0	-5.8		
			LN		Ms=5.6	16.0	6.54
			LE			16.0	4.11
DL2	32.9	258	eP	05 37 06.5	-1.7		
			LN		Ms=5.9	20.0	12.4
			LE			20.0	6.83
BJI	35.1	264	eP	05 37 26.0	-1.8		
			S	05 42 50.0	-6.7		
			LN		Ms=5.8	17.0	9.07
			LE			17.0	4.42
			LZ		Ms=5.6	16.0	5.86
HHC	37.2	269	eP	05 37 45.0	-0.5		
TIA	37.3	259	P	05 37 45.1	-0.8		
			eS	05 43 28.0	-2.6		
			LN		Ms=5.8	13.0	4.42
			LE			16.0	5.05
BTO	38.3	270	P	05 37 54.0	-0.3		
			sP	05 38 07.0	-1.4		
			ePP	05 39 26.0	1.0		
			eS	05 43 45.0	-0.7		
			LN		Ms=5.8	15.0	5.20
			LE			15.0	4.20
			LZ		Ms=5.7	15.0	5.60
TIY	38.9	265	-P	05 37 59.2	0.0		

1987 9 27
 O=06 12 39.9 ± 0.10s
 LAT=34.16 N ± 0.95km
 LONG= 80.68 E ± 1.17km
 DEPTH= 12 km ± 0.11km
 STATIONS USED = 56, STAND DEV= 1.56s
 Ms=4.6 / 16, m_B=5.1 / 3

KSH	6.5	326	Pn	06 14 20.0	4.2		
			Sg	06 16 06.0	2.8		
			LE	Ms=5.2	6.0	12.8	
LSA	9.9	114	eP	06 15 06.5	0.1		
			eS	06 17 00.0	0.6		
WMQ	11.1	27	P	06 15 21.4	-0.2		
			LN	Ms=4.6	12.0	2.00	
			LE			12.0	2.30
			LZ	Ms=4.4	10.0	1.52	
GTA	16.2	66	-iP	06 16 32.8	3.5		
			LN	Ms=4.7	17.0	2.82	
LZH	19.0	78	eP	06 17 04.0	-0.9		
			PMZ	m _B =5.1	5.0	0.43	
CD2	19.7	93	eP	06 17 14.1	1.7		
			SME	m _B =5.2	10.0	1.09	
			LN	Ms=4.8	7.5	1.03	
KMI	21.1	109	-P	06 17 27.0	-0.7		
			sP	06 17 34.5	-1.7		
			LN	Ms=4.4	11.0	0.60	
XAN	23.4	82	P	06 17 49.3	-0.2		
			S	06 22 04.0	6.5		
			LN	Ms=4.5	11.0	0.46	
			LE			11.0	0.28
GYA	23.7	102	P	06 17 53.4	0.9		
			sP	06 18 02.0	0.9		
			S	06 22 06.8	3.9		
			LN	Ms=4.5	12.0	0.60	
			LE			12.0	0.070
BTO	24.1	66	eP	06 17 54.5	-2.4		
			sP	06 18 03.0	-2.4		
			eS	06 22 07.5	-4.1		
			LN	Ms=4.5	11.0	0.40	
			LE			11.0	0.40
			LZ	Ms=4.5	11.0	0.60	
TIY	25.9	73	eP	06 18 13.9	0.1		
			S	06 22 44.0	3.6		
			LZ	Ms=4.8	17.0	1.44	
WHN	28.6	88	eP	06 18 42.0	3.6		
CN2	35.7	61	eP	06 19 39.6	-1.3		

1987 9 27
 O=21 19 06.6 ± 0.10s
 LAT=11.28 N ± 3.51km

LONG= 86.05 W ± 3.16km
 DEPTH= 40 km
 STATIONS USED = 21, STAND DEV= 2.03s

NJ2	130.8	332	ePKP	21 38 16.0	1.2
XAN	132.7	343	ePKP	21 38 19.9	1.2
QZN	146.1	332	ePKP	21 38 46.0	3.5

1987 9 27
 O=21 22 34.6 ± 0.08s
 LAT=21.55 S ± 1.44km
 LONG=169.82 E ± 1.61km
 DEPTH= 33 km ± 0.09km
 STATIONS USED = 52, STAND DEV= 1.12s
 Ms=5.3 / 4,

NJ2	72.2	316	eP	21 33 59.0	0.0
MDJ	75.4	332	eP	21 34 17.3	-0.3
TIA	76.0	318	eP	21 34 20.5	-0.6
CN2	76.7	329	+P	21 34 24.5	-0.5
GYA	77.6	305	P	21 34 30.4	0.4
BJI	79.1	321	P	21 34 38.0	0.0
TIY	79.9	317	eP	21 34 43.0	0.4
			S	21 44 45.0	3.8
			LZ	Ms=5.2	24.0 0.81
KMI	80.0	302	+P	21 34 44.5	1.4
XAN	80.1	313	+P	21 34 43.7	0.2
CD2	82.1	308	eP	21 34 54.6	0.6
HHC	82.3	319	P	21 34 56.4	1.0
BTO	83.1	318	eP	21 34 59.0	-0.5
LZH	84.7	312	+P	21 35 08.0	0.6
			PMZ		2.0 0.049
GTA	89.1	313	+P	21 35 29.2	0.3
			LE	Ms=5.2	20.0 0.64

1987 9 27
 O=22 43 00.8 ± 0.07s
 LAT=37.11 N ± 0.82km
 LONG=102.83 E ± 0.76km
 DEPTH= 13 km ± 0.27km
 STATIONS USED = 9, STAND DEV= 2.47s
 M_L=3.3 / 7,

LZH	1.3	141	Pn	22 43 23.5	-2.0
			Pg	22 43 27.5	3.5
			Sg	22 43 42.0	0.0
			SMN	M _L =3.3	1.0 0.55
			SME		1.0 0.38
GTA	3.3	315	Pg	22 43 57.8	-1.5
			Sg	22 44 39.5	-4.7
			SMN	M _L =3.1	0.8 0.055
			SME		0.8 0.058
XAN	5.8	120	Pn	22 44 28.1	0.6

Pg	22 44 44.9	1.1		
Sg	22 46 02.6	-1.0		
1987 9 28				
O=01 16 24.8	± 0.05s			
LAT=51.79 N	± 2.10km			
LONG=176.00 W	± 1.01km			
DEPTH= 67 km	± 0.59km			
STATIONS USED = 35, STAND DEV = 0.94s				
SSE	49.7 271 P	01 25 14.0	1.1	
	PMZ		0.8	0.010
	pP	01 25 29.5	0.1	
NJ2	50.5 274 -P	01 25 19.0	0.0	
XAN	55.3 283 P	01 25 53.6	-0.7	
CD2	60.6 283 eP	01 26 31.5	0.0	
GYA	62.0 278 +P	01 26 40.6	-0.5	
KMI	65.4 280 eP	01 27 03.0	-0.4	
1987 9 28				
O=03 04 36.1	± 0.05s			
LAT=51.47 N	± 2.01km			
LONG=177.01 W	± 0.92km			
DEPTH= 30 km	± 0.40km			
STATIONS USED = 31, STAND DEV = 0.77s				
BJI	46.4 283 eP	03 13 03.0	0.4	
TIA	48.3 278 eP	03 13 17.0	0.1	
TIY	50.2 283 P	03 13 33.1	1.4	
XAN	54.7 282 +P	03 14 05.1	-0.7	
GTA	56.6 293 eP	03 14 17.6	-1.5	
CD2	60.0 283 P	03 14 42.6	-0.7	
GYA	61.4 277 P	03 14 52.4	-0.3	
KMI	64.8 279 eP	03 15 15.0	-0.3	
1987 9 28				
O=07 15 37.9	± 0.12s			
LAT=18.29 S	± 2.40km			
LONG=168.32 E	± 2.95km			
DEPTH= 33 km	± 0.64km			
STATIONS USED = 78, STAND DEV = 1.39s				
Ms = 5.8 / 45,		m _B = 6.0 / 31		
QZH	64.7 310 P	07 26 16.5	0.8	
	pP	07 26 26.0	0.6	
	S	07 34 57.0	5.4	
	SMN		16.0	3.56
SSE	66.8 317 P	07 26 25.0	-3.8	
	PMZ	m _B = 5.8	12.0	1.45
	pP	07 26 37.0	-1.4	
	S	07 35 18.0	1.5	
	SS	07 39 38.0	1.6	
	LN	Ms = 6.0	20.0	4.16

			LE		20.0	3.39
			LZ	Ms = 5.9	20.0	5.14
GZH	67.6 305 +P	07 26 34.0	-0.2			
	pP	07 26 44.0	0.2			
	S	07 35 33.0	6.3			
	SMN	m _B = 5.9	10.0	1.40		
	LE	Ms = 5.9	13.0	2.85		
QZN	68.4 300 P	07 26 40.0	1.3			
	pP	07 26 48.0	-0.3			
	sP	07 26 54.5	2.2			
	PP	07 29 15.0	4.0			
	SMN	m _B = 6.1	10.0	1.80		
	SS	07 40 07.0	6.7			
NJ2	68.9 316 +P	07 26 42.0	-0.2			
	pP	07 26 51.0	-0.8			
	S	07 35 48.0	5.9			
	SMN	m _B = 5.9	11.0	1.30		
	LE	Ms = 5.8	17.5	2.90		
WHN	71.1 312 eP	07 26 57.5	2.2			
	pP	07 27 04.0	-0.9			
	S	07 36 10.0	2.8			
	SMN	m _B = 5.9	11.0	1.20		
	LN	Ms = 5.8	20.0	3.10		
DL2	71.7 323 eP	07 27 00.0	0.7			
	csP	07 27 13.0	0.2			
	eS	07 36 19.0	2.7			
	LN	Ms = 5.7	18.0	1.11		
	LE		18.0	1.99		
MDJ	71.9 332 eP	07 26 59.6	-0.6			
	SME	m _B = 6.0	10.0	1.48		
TIA	72.7 319 eP	07 27 05.4	0.6			
	PMZ	m _B = 5.8	8.0	0.87		
	eS	07 36 28.5	1.5			
	SMN		13.0	1.20		
	LN	Ms = 5.7	16.0	1.14		
	LE		19.0	1.82		
SNY	72.7 327 +iP	07 27 05.0	-0.1			
	PMZ	m _B = 5.9	12.0	1.82		
	pP	07 27 15.0	0.4			
	S	07 36 30.5	4.4			
	SMN		20.0	3.60		
	SME		18.0	2.10		
	LN	Ms = 5.8	20.0	1.68		
	LE		20.0	2.61		
	LZ	Ms = 6.0	20.0	4.59		
CN2	73.2 329 +P	07 27 07.0	-1.0			
	PMZ	m _B = 6.1	6.0	1.60		
	sP	07 27 21.0	-0.5			
	eS	07 36 29.0	-4.1			
	SME	m _B = 6.0	8.0	1.20		



O = 11 47 08.3	± 0.25s				PcP	11 58 46.0	-3.2			
LAT = 18.39 S	± 4.03km				SMN	$m_B = 6.6$		8.0	4.09	
LONG = 168.17 E	± 3.23km				sS	12 08 10.0	5.7			
DEPTH = 30 km	± 0.57km				LZ	$M_s = 6.6$		20.0	22.6	
STATIONS USED = 92,	STAND DEV = 1.78s				TIA	72.6 319	eP	11 58 36.1	0.5	
$M_s = 6.5 / 56,$	$m_B = 6.5 / 18$				PMZ		$m_B = 6.1$		8.0 1.74	
QZH 64.7 310 P	11 57 45.5	-0.8			S	12 08 02.0	5.6			
	ipP	11 57 55.0	-0.4		SMN			13.0	7.42	
	iS	12 06 28.0	4.7		LN	$M_s = 6.5$		17.0	5.26	
	SMN			25.0	38.3	LE			19.0 15.9	
	LE	$M_s = 6.4$		18.0	13.0	LZ	$M_s = 6.2$		19.0 7.74	
SSE 66.8 317 +P	11 58 02.0	2.5			SNY	72.7 327	+iP	11 58 35.0	-1.0	
	PMZ	$m_B = 6.1$		10.0	2.71	pP	11 58 45.0	0.0		
	ePcP	11 58 24.0	-3.5			iS	12 08 05.0	6.3		
	S	12 06 50.0	2.7			SMN			23.0 33.4	
	SMN			14.0	10.4	SME			20.0 14.3	
	SME			14.0	2.89	LN	$M_s = 6.6$		19.0 9.16	
	LN	$M_s = 6.4$		16.0	6.27	LE			20.0 17.2	
	LE			18.0	13.0	LZ	$M_s = 6.7$		20.0 23.3	
GZH 67.6 305 +P	11 58 08.0	3.4			CN2	73.2 329	+P	11 58 37.0	-1.9	
	LN	$M_s = 6.2$		17.0	7.41	PMZ	$m_B = 6.7$		6.0 5.20	
	LE			17.0	4.18	pP	11 58 46.5	-1.4		
QZN 68.3 300 cP	11 58 09.5	0.4				SMN	$m_B = 6.7$		10.0 6.90	
	eS	12 07 09.0	2.2			LZ	$M_s = 6.8$		20.0 30.5	
	sS	12 07 18.0	-3.9			GYA	74.5 305	P	11 58 46.6	0.0
	ScS	12 08 02.0	0.3			pP	11 58 50.6	-4.9		
	LN	$M_s = 6.3$		17.0	4.80	S	12 08 22.0	4.7		
	LE			17.0	7.70	LN	$M_s = 6.5$		18.0 6.80	
NJ2 68.9 316 +P	11 58 15.0	2.1				LE			18.0 12.8	
	PMZ	$m_B = 6.3$		9.0	3.60	BJI	75.6 321	+P	11 58 52.0	-1.0
	iS	12 07 18.0	3.9			PMZ	$m_B = 6.3$		9.0 3.94	
	SMN			15.0	17.1	eS	12 08 36.0	4.5		
	LE	$M_s = 6.6$		18.0	21.2	LN	$M_s = 6.6$		17.0 14.7	
WHN 71.0 313 +iP	11 58 29.0	3.0				LZ	$M_s = 6.4$		20.0 11.4	
	PMZ	$m_B = 6.5$		10.0	5.60	TIY	76.5 318	cP	11 58 57.8	-0.4
	sP	11 58 42.0	3.2			SMN			14.0 11.3	
	iS	12 07 40.0	0.8			SME			12.0 4.76	
	SMN	$m_B = 6.7$		12.0	9.00	SS	12 13 31.0	-6.7		
	LN	$M_s = 6.5$		18.0	15.7	LE	$M_s = 6.5$		19.0 13.5	
	LZ	$M_s = 6.6$		24.0	26.3	XAN	76.8 313	P	11 58 59.0	-0.6
DL2 71.7 323 cP	11 58 30.0	-0.1				sP	11 59 10.0	-2.4		
	PMZ	$m_B = 6.4$		10.0	5.12	S	12 08 49.0	6.5		
	esP	11 58 45.0	2.0			SMN			14.0 1.54	
	cpP	11 58 37.0	-2.1			SME			12.0 3.85	
	cPP	12 01 14.0	3.7			LN	$M_s = 6.6$		20.0 13.7	
	SMN			16.0	14.8	LE			20.0 12.8	
	LN	$M_s = 6.6$		19.0	16.6	KMI	77.0 302	+iP	11 59 05.0	4.2
	LE			19.0	8.49	LZ	$M_s = 6.6$		20.0 20.1	
MDJ 71.9 332 cP	11 58 29.8	-1.3				CD2	78.9 308	cP	11 59 11.0	-0.4
	pP	11 58 35.6	-4.5			PcP	11 59 19.0	-0.3		

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WMQ	96.0	314	P	13 59 41.0	0.3		
			SKS	14 10 12.0	-0.9		
			S	14 10 47.0	-6.2		
			LN	Ms=6.5	24.0	12.1	
			LZ	Ms=6.5	24.0	11.8	
KSH	103.2	307	cP	14 00 15.0	1.7		
			PP	14 04 32.0	2.0		
			SKS	14 10 52.0	3.3		
			sS	14 12 08.0	-1.0		
			LE	Ms=6.4	16.0	6.10	

CN2	73.2	329	+P	23 21 06.0	-0.7		
			PMZ	m _B =5.6	4.0	0.30	
			cS	23 30 28.0	-3.9		
			cSS	23 35 14.0	-0.4		
			LZ	Ms=5.1	20.0	0.60	
BJI	75.6	321	cP	23 21 20.0	-0.8		
			cS	23 31 04.0	4.9		
			LN	Ms=5.0	32.0	0.77	
TIY	76.5	318	cP	23 21 26.0	0.0		
XAN	76.8	313	cP	23 21 27.4	-0.1		
KMI	76.9	302	cP	23 21 30.0	1.3		
CD2	78.9	308	cP	23 21 39.5	0.2		
BTO	79.7	319	cP	23 21 42.2	-1.5		
LZH	81.4	312	cP	23 21 53.5	0.8		
			PMZ		2.0	0.098	
GTA	85.8	314	+P	23 22 15.0	0.0		
			LN	Ms=5.0	12.0	0.24	
WMQ	95.8	314	P	23 23 01.4	-0.7		

1987 9 28

O = 15 01 01.3 ± 0.15s
 LAT = 18.26 S ± 1.88km
 LONG = 168.01 E ± 1.66km
 DEPTH = 49 km ± 0.68km
 STATIONS USED = 38, STAND DEV = 1.36s

DL2	71.5	323	cP	15 12 24.0	4.4		
			cpP	15 12 31.0	-1.5		
MDJ	71.7	332	cP	15 12 20.5	-0.2		
CN2	73.0	329	+P	15 12 28.0	-0.5		
			pP	15 12 38.0	-3.3		
BJI	75.4	321	cP	15 12 42.0	-0.5		
XAN	76.6	313	cP	15 12 49.2	0.1		
KMI	76.8	302	+P	15 12 51.5	1.2		
			pP	15 13 04.0	1.1		
CD2	78.7	308	cP	15 13 01.4	0.5		
LZH	81.2	312	cP	15 13 13.5	-0.9		
GTA	85.6	314	+P	15 13 37.0	0.3		

1987 9 28

O = 23 09 36.3 ± 0.14s
 LAT = 18.33 S ± 1.50km
 LONG = 168.18 E ± 2.20km
 DEPTH = 29 km ± 0.35km
 STATIONS USED = 56, STAND DEV = 1.20s

SSE	66.7	317	cP	23 20 26.0	-1.3		
			S	23 29 16.0	1.1		
			LZ	Ms=5.0	20.0	0.65	
WHN	71.0	313	cP	23 20 57.2	3.4		
			S	23 30 09.0	3.5		
			LZ	Ms=5.1	16.0	0.60	
MDJ	71.8	332	cP	23 20 58.2	-0.7		
TIA	72.6	319	cP	23 21 05.2	1.8		
SNY	72.7	327	cP	23 21 05.0	1.2		
			cS	23 30 25.0	-1.3		
			LN	Ms=5.1	20.0	0.48	
			LE		18.0	0.35	
			LZ	Ms=5.1	20.0	0.72	

1987 9 29

O = 00 40 34.3 ± 0.09s
 LAT = 2.32 N ± 1.07km
 LONG = 127.07 E ± 1.53km
 DEPTH = 39 km ± 0.52km
 STATIONS USED = 86, STAND DEV = 1.21s
 Ms = 4.6 / 12,

QZN	23.7	316	cP	00 45 43.0	-0.3		
			PP	00 46 21.0	5.1		
			cS	00 49 54.0	2.0		
GZH	24.6	328	cP	00 45 51.0	-0.9		
SSE	29.2	350	-P	00 46 35.6	1.4		
NJ2	30.6	346	+P	00 46 48.0	1.2		
GYA	31.0	323	P	00 46 50.0	-0.6		
			PcP	00 49 47.0	1.6		
KMI	32.6	316	cP	00 47 05.0	0.0		
			pP	00 47 18.0	3.0		
			cS	00 52 16.0	-1.2		
			LZ	Ms=4.7	20.0	1.00	
TIA	34.9	346	cP	00 47 25.6	0.6		
			LZ	Ms=4.6	26.0	0.87	
XAN	35.8	334	+P	00 47 31.0	-1.4		
CD2	36.0	325	P	00 47 32.4	-1.3		
DL2	36.7	353	cP	00 47 42.0	1.9		
			cS	00 53 25.0	4.3		
TIY	37.7	341	cP	00 47 48.0	-0.2		
			cS	00 53 37.0	1.6		
			PcS	00 53 50.5	-1.5		
			LE	Ms=4.5	10.0	0.23	
			LZ	Ms=5.0	26.0	2.07	
BJI	38.8	347	+P	00 47 58.0	0.5		

BJI	23.3	57	cP	17 35 36.0	0.7		
			LE			$M_s=4.4$	13.0 0.51
NJ2	24.4	77	cP	17 35 47.0	1.5		

1987 9 29
O=18 36 13.2 ± 0.07s
LAT=28.48 N ± 0.90km
LONG= 52.74 E ± 0.92km
DEPTH= 39 km ± 0.60km
STATIONS USED = 69, STAND DEV= 0.75s
 $M_s=4.8/ 1,$

KSH	22.1	54	cP	18 41 08.0	0.9		
			LE			$M_s=4.8$	10.0 1.30
WMQ	31.8	52	+P	18 42 38.0	0.9		
GTA	40.1	62	+iP	18 43 48.5	0.9		
LZH	43.5	66	+P	18 44 15.0	0.2		
			PMZ				1.5 0.055
CD2	44.1	74	cP	18 44 19.4	-0.3		
KMI	44.5	82	cP	18 44 23.5	0.2		
GYA	47.6	79	P,	18 44 46.8	-0.6		
XAN	47.8	69	P	18 44 49.0	-0.6		
BTO	47.9	60	cP	18 44 51.0	0.5		
TIY	50.1	63	cP	18 45 07.0	-0.2		
BJI	52.7	60	cP	18 45 25.5	-0.9		
TIA	54.1	64	P	18 45 36.5	-0.2		
NJ2	56.4	69	+P	18 45 53.0	-0.7		
SNY	57.9	56	cP	18 46 04.6	0.3		
CN2	58.9	54	cP	18 46 09.6	-1.6		

1987 9 29
O=18 52 50.6 ± 0.41s
LAT=23.37 N ± 3.49km
LONG=114.82 E ± 2.49km
DEPTH= 10 km
STATIONS USED = 9, STAND DEV= 3.96s
 $M_L=3.6/ 8,$

GZH	1.4	258	-Pn	18 53 16.0	-0.4		
			iPg	18 53 16.4	1.3		
			iSg	18 53 31.7	-2.4		
			SMN			$M_L=3.8$	0.6 1.21
			SME				0.6 1.72
GYA	8.0	294	P	18 54 48.0	-2.3		
			SMN			$M_L=4.3$	1.4 0.11
			SME				1.4 0.050

1987 9 29
O=21 12 25.5 ± 0.11s
LAT=29.79 N ± 1.66km
LONG= 90.48 E ± 1.08km
DEPTH= 12 km ± 0.12km

STATIONS USED = 28, STAND DEV = 1.96s
 $M_s=4.4/ 6,$

CD2	11.5	81	cP	21 15 15.4	2.1		
			LE			$M_s=4.4$	7.0 1.03
			LZ			$M_s=4.4$	7.0 1.05
KMI	11.8	110	cP	21 15 20.0	2.3		
GTA	12.3	36	cP	21 15 22.4	-1.3		
			LN			$M_s=4.4$	8.5 1.06
			LZ			$M_s=4.2$	9.0 0.67
GYA	14.7	99	P	21 15 56.0	0.9		
XAN	16.2	70	cP	21 16 14.3	-0.9		
TIY	19.9	61	cP	21 17 01.0	1.2		
WHN	20.6	82	cP	21 17 08.6	0.6		
BJI	23.3	57	cP	21 17 36.0	1.0		

1987 9 30
O=00 08 47.9 ± 0.10s
LAT=40.77 N ± 0.70km
LONG= 79.42 E ± 0.77km
DEPTH= 18 km ± 0.52km
STATIONS USED = 9, STAND DEV = 3.21s
 $M_L=3.8/ 6,$

KSH	2.9	245	Pn	00 09 36.0	1.4		
			Sn	00 10 17.0	5.8		
			SMN			$M_L=3.8$	0.7 0.40
			SME				0.5 0.30
WMQ	6.9	61	cPn	00 10 33.0	4.8		
			Sn	00 11 51.0	3.0		
			SMN			$M_L=3.8$	0.6 0.040
			SME				0.8 0.050
GTA	15.7	88	P	00 12 28.9	-1.1		

1987 9 30
O=01 39 27.6 ± 0.14s
LAT=18.19 S ± 2.30km
LONG=167.89 E ± 2.47km
DEPTH= 50 km ± 0.43km
STATIONS USED = 91, STAND DEV = 1.55s
 $M_s=6.3/ 55,$

$m_B=6.3/ 20$

QZH	64.4	310	+P	01 50 00.0	-1.1		
			PMZ			$m_B=6.2$	8.0 2.39
			iS	01 58 40.0	6.0		
			SMN				18.0 15.7
			LE			$M_s=6.3$	20.0 12.6
SSE	66.4	317	cP	01 50 17.0	2.6		
			PMZ			$m_B=5.9$	11.0 1.94
			S	01 59 04.0	5.9		
			SMN				14.0 4.14
			sS	01 59 24.0	2.6		
			LE			$M_s=6.5$	20.0 16.9

			LZ	Ms=6.5	20.0	18.7	BJI	75.3	321	+P	01 51 07.0	-1.1		
GZH	67.2	306	+P	01 50 20.0	0.5					PMZ	m _B =6.0		8.0	1.60
			SMN	m _B =6.3	10.0	4.03				pP	01 51 22.0	1.0		
			LN	Ms=6.3	16.0	5.66				cS	02 00 49.0	6.4		
			LE		17.0	6.93				LN	Ms=6.4		18.0	6.00
QZN	67.9	300	cP	01 50 25.0	1.0					LE			18.0	8.10
			pP	01 50 39.0	2.1					LZ	Ms=6.1		20.0	6.30
			S	01 59 13.0	-3.3		TIY	76.2	318	cP	01 51 14.2	1.0		
			LN	Ms=6.1	16.0	4.50				PMZ	m _B =6.2		8.5	2.93
			LE		14.0	2.20				S	02 00 55.9	5.2		
NJ2	68.6	316	+P	01 50 28.0	0.2					SMN			13.0	4.60
			SMN			13.5	5.80			LN	Ms=6.1		16.0	4.40
			LE	Ms=6.4	18.0	12.5	XAN	76.5	313	+P	01 51 14.0	-0.7		
WHN	70.7	313	+P	01 50 40.0	-0.9					cS	02 00 55.0	-0.2		
			PcP	01 50 56.0	-4.6					SS	02 05 55.0	3.1		
			PP	01 53 24.0	5.2					LN	Ms=6.5		21.0	13.8
			iS	01 59 54.0	4.0					LE			20.0	7.34
			SMN			14.0	4.70	KMI	76.6	302	cP	01 51 16.5	0.7	
			LN	Ms=6.1	18.0	5.60				PcP	01 51 28.0	2.0		
			LZ	Ms=6.3	22.0	11.6				SMN	m _B =6.5		10.0	4.30
DL2	71.4	324	+P	01 50 45.0	-0.2					LE	Ms=6.2		17.0	6.50
			csP	01 51 00.0	-3.5				CD2	78.6	308	cP	01 51 26.5	0.1
			S	02 00 00.0	3.1					PcP	01 51 34.0	-0.4		
			LN	Ms=6.3	18.0	8.82				iS	02 01 24.0	5.9		
MDJ	71.6	332	+iP	01 50 45.0	-1.3					LN	Ms=6.4		17.0	10.5
			S	02 00 03.0	3.9					LZ	Ms=6.1		16.0	4.91
			LZ	Ms=6.0	18.0	5.21	HHC	78.6	320	cP	01 51 28.0	1.4		
TIA	72.3	319	cP	01 50 48.0	-2.6					SKS	02 01 28.0	-2.6		
			PP	01 53 33.0	0.8					LN	Ms=6.3		18.0	5.85
			S	02 00 14.0	6.6					LE			18.0	5.38
			LE	Ms=6.3	20.0	9.63				LZ	Ms=6.4		18.0	9.71
SNY	72.4	327	+iP	01 50 50.0	-1.1				BTO	79.4	319	+P	01 51 30.0	-1.0
			PMZ	m _B =6.2	9.0	2.75				PMZ	m _B =6.1		8.0	2.30
			PcP	01 51 04.0	-3.9					cPP	01 54 28.0	-3.7		
			S	02 00 12.0	3.6					iS	02 01 24.0	-2.9		
			SMN			20.0	14.1			SKS	02 01 40.0	3.7		
			SME			19.0	7.63			LN	Ms=6.4		17.0	4.80
			LN	Ms=6.6	20.0	22.3				LE			17.0	8.50
			LE			23.0	8.96			LZ	Ms=6.4		17.0	10.4
			LZ	Ms=6.4	20.0	12.7	LZH	81.1	313	+P	01 51 40.5	0.5		
CN2	72.9	329	+iP	01 50 53.0	-1.1					PMZ			3.0	0.54
			PMZ	m _B =6.3	6.0	2.60				SMN			13.0	9.02
			cS	02 00 14.0	-1.5					LE	Ms=6.2		18.0	6.60
			SMN	m _B =6.4	10.0	3.80	GTA	85.5	314	+P	01 52 02.5	0.2		
			LZ	Ms=6.4	18.0	12.6				PMZ			14.0	4.04
GYA	74.2	305	+P	01 51 02.0	0.4					SMN	m _B =6.3		10.0	3.03
			PP	01 53 44.0	-3.9					LN	Ms=6.1		18.0	4.65
			S	02 00 30.0	1.7					LZ	Ms=6.3		20.0	7.12
			LN	Ms=6.1	18.0	3.60	WMQ	95.5	314	P	01 52 52.0	2.5		
			LE		18.0	4.20				PMZ			1.3	0.090

S	02 04 00.0	2.6		
SMN		18.0	5.09	
LN	Ms=6.5	25.0	11.9	
LZ	Ms=6.4	20.0	8.35	
KSH 102.8 307	cP 01 53 20.0	-2.1		
	cPP 01 57 31.0	-6.5		
	eSKS 02 03 59.0	4.5		
	eS 02 04 56.0	-4.1		
	LE Ms=6.6	18.0	11.4	

STATIONS USED = 56, STAND DEV = 1.28s									
GYA	38.9	335	P	22 21 54.4	1.0				
KMI	39.5	330	cP	22 22 00.0	1.2				
WHN	40.3	348	cP	22 22 06.0	1.0				
NJ2	41.1	354	-P	22 22 12.0	0.7				
CD2	44.0	335	cP	22 22 34.8	-0.4				
XAN	45.0	343	+P	22 22 42.1	-1.1				
TIY	47.6	348	P	22 23 03.1	-0.8				
LZH	48.5	339	cP	22 23 10.5	-0.6				
BJI	49.3	353	cP	22 23 15.0	-1.5				
HHC	50.8	348	cP	22 23 26.8	-1.7				
BTO	50.9	347	cP	22 23 29.8	0.6				
MDJ	53.6	5	cP	22 23 48.4	-1.0				
			pP	22 24 15.4	-3.1				
WMQ	61.8	331	P	22 24 47.5	0.8				

1987 9 30

O=05 13 21.0 ± 0.09s

LAT=37.96 N ± 0.89km

LONG=106.43 E ± 0.72km

DEPTH= 10 km ± 0.18km

STATIONS USED = 15, STAND DEV = 2.29s

M_L=3.4 / 15,

LZH	2.8	229	cPn	05 14 09.0	2.7		
			Pg	05 14 10.5	0.2		
			Sn	05 14 45.0	3.2		
			Sg	05 14 47.5	-1.0		
			SMN	M _L =3.5	1.5	0.20	
			SME		1.0	0.24	
BTO	3.8	45	Pg	05 14 29.4	0.5		
			Sg	05 15 16.0	-5.0		
			SMN	M _L =2.9	0.6	0.030	
			SME		0.6	0.020	
XAN	4.4	152	cPn	05 14 28.6	0.2		
			Pg	05 14 42.6	3.8		
			Sg	05 15 37.6	-1.4		
			SMN	M _L =2.6	0.6	0.010	
			SME		0.6	0.010	
TIY	4.8	91	Pg	05 14 46.2	1.0		
			Sg	05 15 44.3	-5.8		
			SMN	M _L =3.8	0.6	0.13	
			SME		0.6	0.11	
HHC	4.9	52	cPg	05 14 49.4	1.5		
			Sg	05 15 50.6	-4.3		
			SMN	M _L =3.5	0.6	0.050	
			SME		0.6	0.060	
GTA	5.4	288	Pg	05 14 58.0	1.8		
			Sn	05 15 43.0	-2.8		
			SMN	M _L =3.3	1.0	0.037	
			SME		0.7	0.022	

1987 9 30

O=22 14 38.3 ± 0.08s

LAT= 8.99 S ± 1.24km

LONG=123.55 E ± 1.63km

DEPTH= 126 km ± 0.16km