

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)
1987 6 1 O=00 15 13.3 \pm 0.08s LAT=51.55 N \pm 2.51km LONG=177.48 W \pm 1.34km DEPTH= 32 km \pm 0.35km STATIONS USED = 85, STAND DEV = 1.10s Ms=5.1/ 19, $m_B=5.6/ 7$															
CN2	38.3	281	+P	00 22 32.0	-1.1			WHN	53.5	275	+P	00 24 33.7	0.6		
			PMZ		$m_B=5.8$	4.0	0.60				sP	00 24 48.0	1.7		
			sP	00 22 44.5	-1.8						eS	00 32 01.0	-1.2		
			ePP	00 24 04.0	-0.2						LN		$M_s=4.7$	14.0	0.28
			eS	00 28 23.0	-2.4			XAN	54.4	282	+P	00 24 39.2	-1.1		
SNY	40.6	280	+iP	00 22 52.0	0.3			QZH	54.8	267	eP	00 24 42.5	-0.2		
			eS	00 28 53.0	-6.0						eS	00 32 21.0	1.0		
			LN		$M_s=5.0$	28.0	1.75				sS	00 32 38.0	2.5		
DL2	43.5	278	eP	00 23 16.0	0.3						LN		$M_s=4.7$	24.0	0.54
			eS	00 29 45.0	3.0			LZH	56.1	287	+iP	00 24 53.0	0.4		
			LN		$M_s=5.0$	15.0	0.54				PMZ			1.5	0.070
			LE			16.0	0.64	GTA	56.3	292	+iP	00 24 53.2	-0.4		
BJI	46.1	283	eP	00 23 37.5	0.5						PMZ		$m_B=5.7$	5.0	0.46
			PMZ		$m_B=5.4$	5.0	0.25				ePP	00 27 00.0	0.3		
			esP	00 23 51.0	0.8						ScP	00 29 48.2	3.1		
			eS	00 30 22.0	1.7						eS	00 32 37.0	-3.2		
			SMN		$m_B=5.5$	6.0	0.40				eScS	00 34 38.0	2.2		
			sS	00 30 39.0	3.3						LE		$M_s=5.5$	20.0	2.28
			LN		$M_s=5.3$	19.0	2.02	GZH	59.4	269	eP	00 25 15.7	0.2		
TIA	48.0	278	P	00 23 51.3	0.0			CD2	59.7	283	eP	00 25 17.4	-0.6		
			esP	00 24 05.3	0.9						eS	00 33 19.0	-6.5		
			S	00 30 40.5	-4.6			WMQ	59.9	304	eP	00 25 19.0	-0.3		
			SMN		$m_B=5.4$	10.0	0.47				PcP	00 26 04.5	0.2		
			LE		$M_s=5.1$	19.0	1.32				PP	00 27 31.5	-1.2		
HHC	48.4	287	+P	00 23 56.0	0.9			GYA	61.1	277	P	00 25 27.0	-0.4		
SSE	48.8	270	P	00 23 58.6	0.7						sP	00 25 41.6	1.0		
			PMZ			1.0	0.070				S	00 33 44.0	2.1		
			sP	00 24 15.5	4.4						LE		$M_s=5.1$	18.0	0.80
			eS	00 31 00.0	1.7			KMI	64.5	279	+P	00 25 50.0	0.0		
			LN		$M_s=5.2$	16.0	0.89				pP	00 26 01.0	1.7		
			LE			16.0	0.89				sP	00 26 03.5	0.3		
BTO	49.5	287	+P	00 24 04.0	0.6			QZN	64.6	269	eP	00 25 51.0	0.7		
			sP	00 24 18.0	1.6			KSH	69.1	307	P	00 26 19.5	0.6		
			PP	00 26 00.0	2.5			1987 6 1 O=00 55 41.8 \pm 0.18s LAT=51.13 N \pm 3.70km							
			S	00 31 10.0	3.2										
			sS	00 31 28.0	4.7										
			LN		$M_s=5.3$	21.0	1.80								
			LE			21.0	1.20								
NJ2	49.6	273	+P	00 24 03.8	-0.3										

LONG = 177.59 W ± 1.68km
 DEPTH = 44 km ± 2.05km
 STATIONS USED = 37, STAND DEV = 1.61s

MDJ	35.4	281	cP	01 02 33.5	-2.1
BJI	46.2	283	cP	01 04 04.5	0.0
HHC	48.5	287	P	01 04 23.2	0.4
BTO	49.6	288	cP	01 04 31.4	0.2
NJ2	49.6	273	cP	01 04 31.0	-0.1
TIY	49.9	283	-P	01 04 34.4	0.7
XAN	54.5	282	-P	01 05 06.9	-0.8
LZH	56.2	287	+iP	01 05 20.0	-0.4
			PMZ		1.5 0.060
GTA	56.4	293	+iP	01 05 20.4	-1.2
CD2	59.8	283	cP	01 05 44.5	-0.9
GYA	61.1	277	P	01 05 55.6	1.0

1987 6 1
 O = 01 19 29.5 ± 0.08s
 LAT = 2.36 S ± 1.09km
 LONG = 139.01 E ± 2.00km
 DEPTH = 32 km ± 0.41km
 STATIONS USED = 29, STAND DEV = 1.19s

QZH	33.6	325	cP	01 26 08.7	-0.6
GYA	42.4	315	P	01 27 23.6	0.5
BJI	47.1	336	cP	01 28 00.0	-0.6
CD2	47.1	317	cP	01 28 01.1	0.1
GTA	55.0	323	P	01 29 00.0	-0.5
WMQ	64.9	321	P	01 30 08.5	-0.2

1987 6 1
 O = 01 50 16.5 ± 0.08s
 LAT = 22.21 S ± 2.75km
 LONG = 68.67 W ± 4.36km
 DEPTH = 103 km
 STATIONS USED = 45, STAND DEV = 2.52s

KSH	145.4	52	cPKP	02 09 44.4	0.8
WMQ	150.9	37	cPKP	02 09 58.7	6.2
MDJ	153.1	330	cPKP	02 09 54.5	-1.0
CN2	155.5	335	PKP	02 09 57.8	-1.0
GTA	160.2	27	-PKP	02 10 05.4	0.6
BJI	161.8	348	cPKP	02 10 07.5	1.4
XAN	168.0	10	cPKP	02 10 12.4	0.7
NJ2	168.1	327	cPKP	02 10 12.5	0.9
CD2	169.0	36	cPKP	02 10 13.8	1.5
WHN	171.3	343	PKP	02 10 16.0	2.5
GYA	174.0	44	PKP	02 10 15.0	-1.9

1987 6 1
 O = 04 17 04.9 ± 0.09s
 LAT = 59.90 S ± 2.48km

LONG = 26.66 W ± 3.07km
 DEPTH = 39 km ± 0.59km
 STATIONS USED = 22, STAND DEV = 2.13s

NJ2	144.0	125	+PKP	04 36 35.0	-2.1
TIY	145.9	112	-PKP	04 36 41.4	0.8
TIA	146.8	119	+PKP	04 36 43.9	1.9
BJI	149.5	114	cPKP	04 36 50.5	4.1

1987 6 1
 O = 04 23 07.8 ± 0.16s
 LAT = 38.50 N ± 1.27km
 LONG = 76.51 E ± 1.79km
 DEPTH = 17 km ± 0.31km
 STATIONS USED = 23, STAND DEV = 2.58s

M_L = 4.4 / 5,

KSH	1.0	337	-iPg	04 23 27.0	0.4
			cSg	04 23 43.0	2.1
			LN		0.5 10.3
WMQ	10.0	54	cP	04 25 33.0	-0.8
			S	04 27 22.0	-4.0
			SMN		1.5 0.14
GTA	18.1	80	P	04 27 20.8	-0.4
			S	04 30 40.0	0.3

1987 6 1
 O = 11 39 06.8 ± 0.13s
 LAT = 51.70 N ± 1.80km
 LONG = 176.21 W ± 1.15km
 DEPTH = 53 km ± 1.69km
 STATIONS USED = 72, STAND DEV = 1.00s

MDJ	36.1	281	+P	11 46 04.2	-1.8
CN2	39.1	282	cP	11 46 29.0	-1.7
SNY	41.3	281	+P	11 46 50.2	1.0
DI.2	44.2	279	cP	11 47 13.8	0.6
BJI	46.9	283	-P	11 47 35.0	0.9
HHC	49.2	287	-P	11 47 53.0	1.1
BTO	50.2	288	P	11 48 01.0	0.9
			sP	11 48 19.0	0.1
			ePP	11 49 57.0	1.4
			eS	11 55 08.0	1.0
NJ2	50.4	274	-P	11 48 01.6	0.2
TIY	50.6	284	+P	11 48 04.0	0.9
			PMZ		1.2 0.14
WHN	54.2	275	cP	11 48 30.5	0.4
XAN	55.2	282	+iP	11 48 36.6	-0.4
QZH	55.6	267	cP	11 48 39.8	0.0
LZH	56.8	288	-iP	11 48 50.0	1.0
			PMZ		1.5 0.090
GTA	56.9	293	P	11 48 49.5	-0.2
CD2	60.5	283	P	11 49 14.0	-0.2

			PMZ		1.0	0.020
WMQ	60.5	304	cP	11 49 13.4	-1.1	
GYA	61.9	278	P	11 49 23.2	-0.6	
KMI	65.3	280	+P	11 49 46.0	-0.1	
QZN	65.4	270	cP	11 49 48.0	1.4	
KSH	69.6	308	P	11 50 14.0	0.6	

1987 6 1

O=15 56 01.2 ± 0.11s
 LAT=38.05 N ± 2.03km
 LONG= 90.98 E ± 1.17km
 DEPTH= 11 km ± 0.26km
 STATIONS USED = 22, STAND DEV= 3.03s

Ms=3.8/ 3, ML=4.4/ 5,

WMQ	6.3	338	cPn	15 57 35.7	1.5	
			S*	15 59 07.0	3.6	
			SMN	ML=4.4	1.3	0.24
GTA	7.0	76	cPn	15 57 46.9	2.1	
			Sn	15 59 03.0	-4.0	
			Sg	15 59 39.6	-2.1	
			SMN		2.0	0.23
			LN	Ms=3.6	8.0	0.36
LZH	10.5	97	cP	15 58 30.0	-4.8	
			LN		2.0	0.12
KSH	11.8	281	P	15 58 54.0	1.0	
			eS	16 01 08.0	2.0	
			LE	Ms=4.2	8.0	0.70
TIY	16.9	85	P	16 00 03.3	3.0	
			LN	Ms=3.8	12.0	0.21
GYA	17.6	127	P	16 00 09.2	1.0	
BJI	19.7	76	cP	16 00 30.0	-3.2	

1987 6 1

O=16 45 11.1 ± 0.39s
 LAT=30.90 N ± 5.75km
 LONG= 50.13 E ± 2.52km
 DEPTH= 38 km ± 0.98km
 STATIONS USED = 34, STAND DEV= 1.92s

KSH	22.7	61	P	16 50 12.5	1.1	
			eS	16 54 16.0	2.9	
WMQ	32.3	56	cP	16 51 39.0	0.2	
GTA	41.1	64	+iP	16 52 54.2	0.9	
LZH	44.6	68	+iP	16 53 23.5	1.2	
			PMZ			1.5 0.030
KMI	46.5	84	+P	16 53 35.5	-1.5	
XAN	49.1	70	+P	16 53 57.0	-0.5	
TIY	51.1	64	P	16 54 07.5	-5.1	
CN2	59.3	55	P	16 55 11.0	-1.2	

1987 6 1

			O=17 44 18.6	± 0.15s	
			LAT=41.61 N	± 1.92km	
			LONG= 81.35 E	± 1.57km	
			DEPTH= 12 km	± 0.42km	
			STATIONS USED = 10,	STAND DEV = 4.48s	
			ML=3.4/ 8,		
KSH	4.6	244	cPn	17 45 33.5	4.7
			cSg	17 46 43.6	0.2
WMQ	5.2	63	cPn	17 45 39.8	3.5
			Sg	17 47 04.4	3.7
			SMN	ML=3.8	1.5 0.11

1987 6 1

O=20 01 00.2 ± 0.18s
 LAT=24.83 N ± 2.28km
 LONG=122.26 E ± 2.34km
 DEPTH= 33 km ± 0.83km
 STATIONS USED = 16, STAND DEV= 3.09s
 Ms=3.7/ 2, ML=3.5/ 4,

QZH	3.3	273	cP	20 01 49.5	-1.9	
			S	20 02 35.0	4.8	
			SMN	ML=3.4	1.1 0.17	
			SME		1.0 0.060	
SSE	6.3	352	cP	20 02 32.5	-1.1	
			LN		1.1 0.090	
			LE		1.2 0.14	
NJ2	7.8	338	cP	20 02 58.4	4.1	
			LE	Ms=3.6	11.0 0.50	
WHN	9.0	311	cP	20 03 14.3	2.9	
			LN	Ms=3.8	12.0 0.40	
			LE		8.0 0.27	
GTA	23.8	313	cP	20 06 15.0	3.2	

1987 6 1

O=21 33 37.9 ± 0.07s
 LAT=25.01 N ± 1.25km
 LONG=122.43 E ± 0.74km
 DEPTH=163 km ± 1.13km
 STATIONS USED = 60, STAND DEV= 1.48s

QZH	3.5	270	-iP	21 34 30.5	-2.1	
			SMN		0.8 0.56	
			SME		0.8 0.27	
SSE	6.2	350	-iP	21 35 08.5	0.7	
			PMZ		1.0 0.21	
			sS	21 36 19.0	1.5	
			LN		1.2 0.060	
			LE		1.2 0.11	
NJ2	7.7	337	-P	21 35 27.4	-0.8	
			cS	21 36 56.5	2.5	
GZH	8.5	259	+P	21 35 38.6	-0.6	

			LN	Ms=5.1	14.0	1.17			
			LE		15.0	2.32			
CN2	28.6	9	+P	23 06 44.0	2.1				
			cpP	23 06 47.5	-4.2				
			eS	23 11 32.0	5.4				
GTA	29.3	328	P	23 06 47.2	-0.4				
			eS	23 11 35.0	-1.9				
			LN	Ms=5.2	18.0	3.35			
MDJ	30.3	15	eP	23 06 51.5	-4.8				
			eS	23 11 51.0	-1.3				
WMQ	38.9	323	eP	23 08 11.3	0.7				
			PP	23 09 44.0	0.2				
			S	23 14 09.0	3.6				
			ScS	23 18 20.3	6.1				
			LN	Ms=5.7	15.0	5.00			
KSH	44.7	311	P	23 09 01.4	3.7				
			ePP	23 10 46.0	3.2				
			LE	Ms=5.6	11.0	2.60			
1987 6 2									
O=03 11 51.1 ± 0.30s									
LAT= 9.17 N ± 4.19km									
LONG= 83.89 W ± 3.07km									
DEPTH= 38 km ± 3.02km									
STATIONS USED = 32, STAND DEV= 2.57s									
WMQ	126.7	8	ePKP	03 30 53.0	1.1				
KSH	128.1	20	ePKP	03 30 54.0	-0.7				
GTA	131.5	356	ePKP	03 31 02.4	1.2				
LZH	134.4	351	ePKP	03 31 08.0	1.3				
XAN	135.3	345	ePKP	03 31 09.5	1.3				
CD2	139.5	350	ePKP	03 31 18.0	2.2				
GYA	143.1	344	PKP	03 31 24.6	2.3				
KMI	145.3	349	PKP	03 31 28.0	1.8				
1987 6 2									
O=06 26 48.1 ± 0.10s									
LAT=38.75 N ± 0.96km									
LONG=116.24 E ± 0.87km									
DEPTH= 9 km ± 0.30km									
STATIONS USED = 16, STAND DEV= 2.38s									
M _L =3.4 / 11,									
BJI	1.3	358	-Pg	06 27 09.3	-1.6				
			Sg	06 27 27.0	-1.5				
			SMN	M _L =3.8	0.5	1.72			
			SME		0.5	1.53			
TIY	3.2	252	cPn	06 27 38.1	-0.5				
			Pg	06 27 44.1	0.0				
			Sg	06 28 21.8	-5.6				
			SMN	M _L =3.2	0.7	0.060			
			SME		0.8	0.12			

HHC	4.2	302	Pg	06 28 02.5	0.7				
			eSg	06 28 55.0	-3.6				
			SMN	M _L =3.6	0.8	0.090			
			SME		0.8	0.12			
BTO	5.1	293	eP*	06 28 17.4	3.2				
			eSg	06 29 31.0	1.9				
XAN	7.5	234	ePg	06 29 03.0	1.5				
1987 6 2									
O=16 44 50.7 ± 0.14s									
LAT= 4.49 S ± 1.74km									
LONG=152.14 E ± 2.93km									
DEPTH=151 km ± 0.75km									
STATIONS USED = 89, STAND DEV= 1.33s									
m _B =5.3 / 12									
QZH	43.8	314	cP	16 52 44.0	0.4				
			sP	16 53 34.0	0.1				
			S	16 59 01.0	-0.7				
			SMN	m _B =5.3	6.0	0.32			
SSE	46.1	322	P	16 53 02.0	0.2				
			PMZ		1.0	0.060			
			pP	16 53 36.5	1.3				
			sP	16 53 50.0	-2.3				
			S	16 59 36.0	1.7				
GZH	46.7	308	-P	16 53 08.0	1.1				
			sP	16 53 56.0	-1.5				
			eS	16 59 45.0	0.3				
QZN	47.7	301	cP	16 53 16.0	1.3				
			sP	16 54 05.0	-0.3				
			PP	16 55 08.0	0.6				
			S	16 59 58.0	0.4				
			sS	17 00 59.0	1.5				
NJ2	48.2	321	-P	16 53 19.0	0.9				
			PMZ	m _B =5.6	5.0	0.60			
			pP	16 53 51.0	-0.8				
			sP	16 54 08.0	-0.8				
			S	17 00 09.5	5.6				
			sS	17 01 08.0	4.2				
WHN	50.2	317	P	16 53 35.0	1.7				
			PMZ		3.0	0.50			
			sP	16 54 25.0	0.8				
			S	17 00 30.0	-1.5				
			isS	17 01 34.0	2.1				
			LN		10.0	0.29			
DL2	51.6	330	-P	16 53 44.0	0.1				
			esP	16 54 35.0	0.1				
			eS	17 00 49.5	-2.2				
TIA	52.1	324	+P	16 53 47.5	-0.2				
			S	17 00 54.0	-3.5				
			LN		16.0	0.83			

			PMZ		0.8	0.030
NJ2	20.3	250	-P	21 51 06.0	-0.7	
HHC	22.5	279	eP	21 51 27.4	-1.1	
TIY	22.6	270	-P	21 51 29.3	-0.5	
WHN	24.3	252	P	21 51 47.8	1.6	
XAN	26.6	265	+P	21 52 06.4	-1.3	
LZH	29.6	272	eP	21 52 34.5	-0.4	
GTA	31.5	280	+P	21 52 51.0	-0.8	
			PcP	21 55 42.4	1.6	
			ScP	21 59 13.6	3.3	
CD2	31.9	263	eP	21 52 53.4	-1.7	
GYA	32.2	254	P	21 52 57.0	-0.4	
			PcP	21 55 44.2	1.7	
			ScP	21 59 16.6	4.1	
QZN	34.9	240	eP	21 53 25.0	4.6	
KMI	35.8	255	eP	21 53 28.0	-0.6	
WMQ	39.1	292	+iP	21 53 57.0	1.6	
KSH	48.8	291	P	21 55 15.0	1.4	
			sP	21 55 55.5	-2.5	

1987 6 3

O=01 14 34.0 ± 0.03s
 LAT=40.48 N ± 0.32km
 LONG=122.02 E ± 0.27km
 DEPTH= 6 km ± 0.07km
 STATIONS USED = 5, STAND DEV= 1.62s

$M_L=2.7/5,$

DL2	1.6	191	ePg	01 15 02.6	0.2	
			Sg	01 15 23.3	-1.0	
			SMN	$M_L=2.7$	0.4	0.070
			SME		0.4	0.10
SNY	1.8	41	-iPg	01 15 05.2	-0.4	
			Sg	01 15 27.6	-2.4	
			SMN	$M_L=2.8$	0.4	0.10
			SME		0.4	0.080

1987 6 3

O=08 15 46.2 ± 0.13s
 LAT= 6.28 S ± 1.89km
 LONG=148.93 E ± 3.08km
 DEPTH= 65 km ± 1.16km
 STATIONS USED = 60, STAND DEV= 1.73s

$M_s=5.2/12,$

$m_B=5.2/2$

QZH	42.8	318	+P	08 23 39.2	-0.8	
			S	08 30 04.5	5.9	
			sS	08 30 27.0	0.1	
			LE	$M_s=4.6$	16.0	0.44
GZH	45.4	311	eP	08 24 00.0	-0.6	
SSE	45.7	326	eP	08 24 03.0	0.3	
			eS	08 30 44.0	3.6	

			LN		$M_s=5.5$	20.0	2.77
			LE			20.0	2.35
QZN	46.0	304	eP	08 24 04.8	-0.5		
			eS	08 30 48.0	2.9		
NJ2	47.7	325	+P	08 24 19.6	0.9		
WHN	49.4	320	eP	08 24 34.0	2.4		
			pP	08 24 46.0	-1.7		
			eS	08 31 32.0	-0.7		
			LN		$M_s=5.1$	18.0	1.24
TIA	51.7	327	eP	08 24 48.1	-1.5		
			eS	08 32 10.0	4.6		
			LN		$M_s=5.6$	17.0	1.47
			LE			24.0	3.34
SNY	53.2	336	eP	08 25 01.7	1.2		
			eS	08 32 24.0	-1.2		
			LN		$M_s=5.2$	18.0	0.94
			LE			18.0	0.64
CN2	54.2	339	eP	08 25 10.0	2.2		
			pP	08 25 21.0	-3.2		
			eS	08 32 45.0	6.3		
KMI	54.7	307	eP	08 25 14.5	2.7		
BJI	55.1	330	eP	08 25 13.0	-1.5		
			eS	08 32 50.0	-0.9		
			LN		$M_s=5.3$	20.0	1.65
XAN	55.1	319	eP	08 25 12.6	-2.2		
			S	08 32 53.6	3.4		
CD2	56.9	313	eP	08 25 27.0	-0.2		
			eS	08 33 12.0	-2.4		
LZH	59.7	318	eP	08 25 44.0	-3.0		
GTA	64.2	319	-P	08 26 17.8	0.6		
			SME		$m_B=5.1$	10.0	0.29
			LN		$M_s=4.9$	16.0	0.40
WMQ	74.3	319	eP	08 27 19.2	0.3		
			eS	08 36 48.0	1.2		
			LN		$M_s=5.0$	20.0	0.50

1987 6 3

O=13 12 23.9 ± 0.36s
 LAT=24.17 N ± 2.68km
 LONG=121.75 E ± 2.49km
 DEPTH= 30 km ± 0.33km
 STATIONS USED = 6, STAND DEV= 1.30s

$M_L=3.2/3,$

QZH	3.0	286	eP	13 13 10.3	0.1	
			iS	13 13 47.3	2.2	
			SMN	$M_L=3.3$	1.0	0.13
			SME		1.0	0.090
SSE	6.9	356	eP	13 14 05.5	-0.4	

1987 6 3

June, 1987



O=14 03 37.9 ± 0.13s
 LAT=39.83 N ± 2.50km
 LONG= 73.47 E ± 1.57km
 DEPTH= 17 km ± 0.48km
 STATIONS USED = 10, STAND DEV = 2.76s

$M_L = 3.6 / 3,$

KSH 2.0 100 Pn 14 04 12.5 1.3
 Sn 14 04 42.0 4.9
 WMQ 11.3 65 cP 14 06 22.6 -0.1
 GTA 20.3 83 P 14 08 15.0 -1.0

1987 6 3

O=19 18 18.1 ± 0.14s
 LAT=24.06 N ± 1.06km
 LONG=121.72 E ± 0.87km
 DEPTH= 16 km ± 0.07km
 STATIONS USED = 7, STAND DEV = 1.86s

$M_L = 3.0 / 4,$

QZH 3.0 288 cPn 19 19 06.0 0.7
 iSn 19 19 40.0 -2.6
 SMN $M_L = 3.1$ 0.8 0.090
 SME 0.6 0.060
 SSE 7.0 356 cPn 19 20 03.0 2.2

1987 6 4

O=00 50 35.8 ± 0.14s
 LAT= 5.30 N ± 2.23km
 LONG= 95.07 E ± 2.44km
 DEPTH= 75 km ± 0.46km
 STATIONS USED = 33, STAND DEV = 2.28s

QZN 19.8 45 cP 00 55 04.8 1.4
 KMI 21.0 20 cP 00 55 20.0 3.9
 GYA 23.8 27 -P 00 55 45.0 2.2
 ScP 01 02 57.6 2.0
 CD2 26.8 17 cP 00 56 10.4 -0.4
 XAN 31.4 22 P 00 56 50.6 -1.3
 GTA 34.2 7 P 00 57 16.0 -1.0
 pP 00 57 32.1 -2.2
 ScP 01 03 30.5 1.9
 KSH 38.1 336 cP 00 57 51.0 1.1
 BJI 39.5 26 cP 00 58 02.5 1.7
 CN2 46.7 30 cP 00 58 57.0 -2.8
 MDJ 49.4 32 cP 00 59 21.5 0.7

1987 6 4

O=10 54 35.8 ± 0.03s
 LAT=38.29 N ± 0.27km
 LONG=119.61 E ± 0.35km
 DEPTH= 8 km ± 0.10km
 STATIONS USED = 5, STAND DEV = 1.76s

$M_L = 3.0 / 5,$

DL2 1.7 68 Pn 10 55 05.0 -1.1
 Pg 10 55 08.2 2.4
 Sg 10 55 25.4 -3.6
 SMN $M_L = 3.3$ 0.4 0.23
 SME 0.4 0.43

TIA 2.9 224 Pn 10 55 22.9 0.7
 Pg 10 55 33.3 6.9
 Sn 10 55 55.3 -3.5
 Sg 10 56 08.3 2.7
 SMN $M_L = 2.7$ 0.3 0.040
 SME 0.3 0.030

1987 6 4

O=12 45 20.8 ± 0.19s
 LAT= 7.76 S ± 1.57km
 LONG=156.23 E ± 1.28km
 DEPTH= 41 km ± 1.27km
 STATIONS USED = 31, STAND DEV = 1.66s

$M_s = 5.0 / 1,$

NJ2 53.3 320 cP 12 54 43.4 5.0
 MDJ 57.4 338 cP 12 55 07.5 -0.7
 SNY 57.7 332 cP 12 55 09.4 -0.8
 CN2 58.4 334 cP 12 55 14.0 -1.2
 BJI 60.2 325 cP 12 55 27.0 -0.9
 TIY 61.0 321 cP 12 55 31.7 -1.2
 LN $M_s = 5.0$ 15.0 0.44
 LE 13.0 0.23
 XAN 61.1 316 cP 12 55 32.5 -1.4
 GTA 70.1 317 P 12 56 32.3 0.4
 WMQ 80.2 317 P 12 57 30.2 0.6

1987 6 4

O=23 37 10.2 ± 0.06s
 LAT=39.86 N ± 1.42km
 LONG=142.94 E ± 1.01km
 DEPTH= 50 km ± 1.01km
 STATIONS USED = 27, STAND DEV = 2.42s

MDJ 11.0 300 cP 23 39 48.5 0.9
 BJI 20.5 279 cP 23 41 44.0 -2.8
 XAN 27.7 269 cP 23 42 56.0 -0.2
 GYA 32.9 257 P 23 43 42.2 -0.6
 KMI 36.6 259 -P 23 44 14.5 0.1

1987 6 4

O=23 45 41.1 ± 0.13s
 LAT= 4.68 S ± 2.19km
 LONG=101.91 E ± 2.35km
 DEPTH= 44 km ± 0.75km
 STATIONS USED = 87, STAND DEV = 1.55s

Ms = 5.8 / 44,				m _B = 5.8 / 13												
QZN	24.8	18	P	23 51 02.0	1.0			TIA	43.1	18	+P	23 53 38.2	-1.1			
			PMZ			m _B = 5.7	7.0	2.00			PcP	23 55 28.9	0.7			
			sP	23 51 16.0	-0.6						eS	24 00 06.0	4.2			
			eS	23 55 20.0	2.1						LN		Ms = 6.1	17.0	13.0	
			sS	23 55 33.0	-3.0						LE			15.5	2.02	
			SS	23 56 19.0	2.8				TIY	43.3	12	+P	23 53 41.1	0.2		
			LN			Ms = 5.7	16.0	10.6			sP	23 53 57.0	0.0			
			LE				16.0	6.83			S	24 00 07.0	3.3			
KMI	29.6	2	+P	23 51 46.0	0.8						sS	24 00 23.0	-1.0			
			S	23 56 40.0	4.9						LN		Ms = 6.0	14.0	8.06	
			LN			Ms = 5.7	13.0	7.20			LE			13.5	2.56	
GZH	29.8	22	+P	23 51 46.0	-0.2				GTA	43.9	358	+iP	23 53 45.9	-0.1		
			LN			Ms = 5.9	16.0	13.3			PMZ		m _B = 5.8	6.0	0.93	
			LE				16.0	3.65			PP	23 55 30.0	0.3			
GYA	31.3	8	P	23 51 59.2	-0.6						PcP	23 55 34.0	3.0			
			sP	23 52 12.4	-3.2						eS	24 00 12.0	-2.0			
			PP	23 53 08.0	5.1						LN		Ms = 5.8	17.0	6.70	
			S	23 57 08.0	6.8				BTO	45.7	9	P	23 54 01.0	1.0		
			LE			Ms = 5.7	14.0	7.70	HHC	46.2	10	+P	23 54 05.0	1.1		
QZH	33.6	28	+P	23 52 18.0	-1.9						eS	24 00 52.0	5.8			
			PP	23 53 33.0	0.6						SMN		m _B = 5.6	10.0	0.91	
			S	23 57 40.0	2.5						LN		Ms = 5.9	14.0	6.00	
			LN			Ms = 5.7	15.0	6.17			LE			12.0	1.48	
			LE				14.0	1.96	BJI	46.4	15	eP	23 54 06.0	0.4		
CD2	35.4	3	eP	23 52 34.6	-0.9						PMZ		m _B = 5.7	5.0	0.52	
			S	23 58 07.0	1.4						esP	23 54 21.0	-0.8			
			LN			Ms = 6.0	18.0	14.7			ePcP	23 55 41.5	1.9			
WHN	37.0	18	+P	23 52 51.5	2.9						ePP	23 55 56.0	2.0			
			PMZ			m _B = 6.0	5.0	1.20			eS	24 00 52.0	2.7			
			sP	23 53 05.0	0.3						esS	24 01 10.0	1.4			
			PP	23 54 18.0	3.0						LN		Ms = 6.1	17.0	11.0	
			eS	23 58 34.0	3.5						LE			15.0	2.99	
			iPcS	23 58 52.0	-3.6				DL2	47.0	21	+P	23 54 11.0	0.3		
			LN			Ms = 6.0	18.0	13.5			PP	23 56 05.0	4.5			
XAN	39.1	9	+iP	23 53 05.4	-0.7						S	24 01 00.0	2.5			
			S	23 58 59.0	-2.2						LN		Ms = 6.0	18.0	8.82	
NJ2	39.9	23	+P	23 53 14.0	0.9						LE			15.0	2.72	
			LN			Ms = 6.0	15.5	9.90	WMQ	49.9	347	+iP	23 54 33.2	-0.1		
SSE	40.1	26	+P	23 53 15.0	0.8						S	24 01 43.0	4.9			
			sP	23 53 30.0	-0.4						SME		m _B = 5.8	6.0	0.82	
			PP	23 54 50.0	-0.5						P	23 54 34.0	0.2			
			S	23 59 09.0	-6.9				KSH	50.0	334	sP	23 54 49.0	-0.8		
			LE			Ms = 5.6	17.0	4.57			PP	23 56 30.0	1.2			
LZH	40.6	2	+P	23 53 19.0	0.2						iS	24 01 45.0	4.7			
			PMZ				1.5	0.19			SME		m _B = 6.2	6.0	2.00	
			PP	23 54 52.0	-3.6						LN		Ms = 5.7	18.0	4.20	
			eS	23 59 27.0	1.8				SNY	50.3	21	+iP	23 54 34.5	-1.6		
			ScS	24 03 22.0	4.8						sP	23 54 51.0	-1.3			
			LN			Ms = 6.0	14.0	3.70			eS	24 01 42.0	-2.4			

	LN		Ms = 5.8	17.0	1.32
	LE			17.0	5.43
CN2	52.7	21	+iP	23 54 52.0	-2.2
	PMZ		m _B = 5.9	4.0	0.60
	pP			23 55 02.0	-3.6
	eS			24 02 14.0	-3.4
MDJ	55.0	24	+P	23 55 10.0	-0.9
	PMZ		m _B = 6.1	4.0	1.01
	sP			23 55 24.0	-3.3
	eS			24 02 45.0	-3.2

LAT = 51.06 N		± 2.36km			
LONG = 179.46 E		± 1.09km			
DEPTH = 37 km		± 0.90km			
STATIONS USED = 37, STAND DEV = 1.09s					
MDJ	33.5	279	eP	01 39 34.0	-1.5
CN2	36.5	280	eP	01 39 59.0	-2.0
BJI	44.4	281	eP	01 41 06.5	0.8
TIA	46.1	276	P	01 41 20.0	0.3
NJ2	47.7	271	eP	01 41 32.5	0.2
TIY	48.1	281	P	01 41 36.5	1.2
XAN	52.6	280	eP	01 42 09.4	-0.5
GTA	54.7	291	P	01 42 24.4	-0.5
CD2	58.0	281	eP	01 42 47.6	-0.8

1987 6 4
 O = 23 48 11.3 ± 0.09s
 LAT = 19.93 S ± 1.65km
 LONG = 178.32 W ± 0.29km
 DEPTH = 628 km ± 1.36km
 STATIONS USED = 40, STAND DEV = 1.09s

SSE	77.1	310	eP	23 59 03.0	-0.7
GZH	79.2	299	-P	23 59 15.8	1.0
NJ2	79.3	310	-P	23 59 15.5	0.2
MDJ	79.9	325	eP	23 59 18.0	-0.4
QZN	80.4	294	eP	23 59 21.0	0.1
DL2	81.1	317	-P	23 59 24.6	-0.1
CN2	81.7	323	-iP	23 59 27.0	-0.6
			PMZ		3.0 0.50
			eS	24 08 49.0	-1.6
WHN	81.9	306	P	23 59 30.0	1.4
BJI	85.3	315	P	23 59 46.5	1.1
GYA	86.1	300	P	23 59 50.0	0.5
TIY	86.7	312	-P	23 59 52.5	0.4
XAN	87.5	307	-iP	23 59 55.8	-0.4
HHC	88.7	314	+P	24 00 02.6	0.8
GTA	96.4	309	P	24 00 36.2	-0.5

1987 6 5
 O = 04 49 36.6 ± 0.14s
 LAT = 6.16 S ± 1.11km
 LONG = 105.87 E ± 1.33km
 DEPTH = 124 km ± 0.97km
 STATIONS USED = 24, STAND DEV = 1.25s

XAN	40.1	4	P	04 57 03.0	1.2
GTA	45.7	353	P	04 57 47.7	0.4
BJI	46.9	11	eP	04 57 58.0	1.0
CN2	52.8	18	-iP	04 58 41.0	-0.7
			pP	04 59 09.0	-1.2
MDJ	54.9	21	eP	04 58 56.2	-0.7

1987 6 5
 O = 05 00 00.1 ± 0.08s
 LAT = 41.46 N ± 1.21km
 LONG = 88.77 E ± 0.93km
 DEPTH = 16 km ± 0.09km
 STATIONS USED = 96, STAND DEV = 1.44s
 Ms = 5.2 / 28, M_L = 5.7 / 2, m_B = 5.4 / 4

WMQ	2.5	342	+iPn	05 00 43.0	2.5
			Sg	05 01 16.0	-2.1
			SMN	M _L = 5.6	1.0 37.1
GTA	8.7	100	+iP	05 02 07.4	-0.9
			PMZ		2.0 2.46
			sP	05 02 19.0	2.2
			S	05 03 42.5	-3.8
			SS	05 03 57.5	-1.5
			LN	Ms = 5.6	5.0 16.2
KSH	10.0	263	+iP	05 02 25.5	-0.5
			LN	Ms = 5.7	5.0 17.0
LZH	12.9	110	+iP	05 03 05.0	-1.4
			PMZ		0.5 0.90
			PP	05 03 16.0	-0.2
			S	05 05 30.5	0.2
			LN		2.0 2.08

1987 6 5
 O = 00 34 18.9 ± 0.24s
 LAT = 48.98 S ± 5.50km
 LONG = 127.13 E ± 3.14km
 DEPTH = 10 km ± 0.68km
 STATIONS USED = 29, STAND DEV = 2.00s

KMI	76.9	337	-P	00 46 15.0	0.7
SSE	79.9	355	eP	00 46 29.0	-1.3
CD2	82.2	340	eP	00 46 42.6	-0.1
XAN	84.2	345	-P	00 46 52.6	-0.3
TIY	87.3	348	eP	00 47 08.2	0.1
BJI	89.2	352	eP	00 47 19.0	2.0
GTA	91.3	339	P	00 47 24.8	-2.2

1987 6 5
 O = 01 32 56.6 ± 0.08s

GYA	36.1	299	P	16 30 19.0	1.4		
			pP	16 30 22.8	-3.8		
			S	16 36 00.0	6.6		
BJI	36.2	326	eP	16 30 18.5	0.2		
			ePP	16 31 42.0	1.1		
			eS	16 36 00.0	4.1		
			LN	Ms=5.1	19.0	1.80	
TIY	36.9	320	+P	16 30 24.9	0.7		
			S	16 36 09.5	3.8		
			LN	Ms=5.3	13.0	1.35	
			LE		16.0	2.16	
XAN	37.3	312	P	16 30 27.2	-0.3		
			eS	16 36 15.0	2.3		
			LN	Ms=5.2	15.0	1.21	
			LE		16.0	1.44	
KMI	39.2	296	-P	16 30 45.5	2.2		
			eS	16 36 45.0	3.5		
			LN	Ms=5.1	12.0	1.10	
CD2	40.0	305	eP	16 30 50.0	0.3		
			S	16 36 53.0	1.0		
			LE	Ms=5.2	15.0	1.58	
BTO	40.1	322	+iP	16 30 52.0	0.7		
			pP	16 30 56.5	-3.9		
			ePP	16 32 29.5	1.9		
			S	16 37 00.0	5.4		
			LN	Ms=5.1	17.0	1.40	
			LE		15.0	0.70	
LZH	41.9	312	-P	16 31 07.5	1.4		
			PMZ		2.0	0.070	
			S	16 37 28.0	6.8		
			LE	Ms=5.2	17.0	1.83	
GTA	46.2	314	+P	16 31 41.0	0.1		
			LE	Ms=5.1	15.0	1.14	
WMQ	56.3	315	+iP	16 32 56.6	-0.1		
			eS	16 40 47.0	3.7		
KSH	64.0	308	eP	16 33 46.0	-3.4		
			S	16 42 23.0	2.3		
			LE	Ms=5.5	16.0	1.50	
1987 6 5							
O=16 58 06.4					± 0.07s		
LAT=41.47 N					± 1.03km		
LONG= 88.81 E					± 0.59km		
DEPTH= 5 km					± 0.03km		
STATIONS USED = 14, STAND DEV = 2.22s							
M _L =4.0 / 9,							
WMQ	2.5	341	Pn	16 58 49.5	1.6		
			Sg	16 59 21.6	-2.6		
			SMN	M _L =4.0	0.4	0.85	
GTA	8.6	100	P	17 00 15.9	0.6		

1987 6 5							
O=20 11 04.7					± 0.05s		
LAT=32.60 N					± 0.47km		
LONG=104.16 E					± 0.39km		
DEPTH= 5 km					± 0.14km		
STATIONS USED = 5, STAND DEV = 2.60s							
M _L =2.8 / 4,							
CD2	1.7	192	ePg	20 11 36.0	0.8		
			Sg	20 12 02.0	3.4		
			SMN	M _L =2.7	0.9	0.050	
			SME		0.5	0.10	
XAN	4.2	69	Pg	20 12 18.4	-1.2		
			S*	20 13 08.8	-1.0		
1987 6 5							
O=21 25 10.9					± 0.14s		
LAT= 5.44 N					± 1.82km		
LONG=127.58 E					± 1.84km		
DEPTH= 46 km					± 0.25km		
STATIONS USED = 94, STAND DEV = 1.41s							
Ms=5.7 / 47, m _B =5.7 / 6							
QZH	21.2	337	+P	21 29 55.0	-0.2		
			SME			21.0	12.8
			LN	Ms=5.7		20.0	14.6
			LE			20.0	11.5
QZN	21.9	310	+P	21 30 02.0	-0.4		
			pP	21 30 10.5	-2.8		
			PP	21 30 30.0	2.0		
			PcP	21 34 02.0	1.8		
			S	21 34 00.0	4.1		
			LN	Ms=5.7	15.0	11.8	
			LE		15.0	5.60	
GZH	22.3	323	+P	21 30 06.0	0.2		
			LN	Ms=5.7	18.0	17.2	
			LE		20.0	7.56	
SSE	26.2	348	+P	21 30 42.0	-1.7		
			PMZ			3.0	1.33
			pP	21 30 54.0	-0.8		
			PP	21 31 29.0	3.2		
			eS	21 35 16.0	5.7		
			sS	21 35 29.0	-0.6		
			LN	Ms=5.4	10.0	2.41	
			LE		10.0	2.14	
NJ2	27.7	344	+P	21 30 58.0	0.7		
			eS	21 35 37.0	2.5		
			ScP	21 37 52.0	3.8		
			LN	Ms=5.5	17.0	6.90	
WHN	27.9	335	-P	21 31 00.0	0.9		
			pP	21 31 12.0	1.7		

			PP	22 05 24.0	3.8		TIY	35.1	339	+P	22 06 53.4	-0.2		
			SMN	$m_B = 5.9$	9.5	2.20				PMZ			1.0	0.060
			SME		10.5	3.00				S	22 12 24.0	3.1		
			LN	$M_s = 5.3$	15.0	4.60				PcS	22 13 06.0	-3.4		
			LE		16.0	4.10	BJI	36.1	345	eP	22 07 01.0	-0.9		
GZH	22.4	324	-P	22 04 58.8	0.7					eS	22 12 38.5	1.5		
			LN	$M_s = 5.4$	24.0	8.41				eScS	22 17 17.0	5.2		
			LE		25.0	7.32				LN	$M_s = 5.3$	15.0	2.60	
SSE	26.4	348	+P	22 05 36.0	-0.3		SNY	36.6	355	+P	22 07 06.0	0.2		
			pP	22 05 47.5	-0.1					S	22 12 46.0	2.5		
			PP	22 06 20.5	1.4					LN	$M_s = 5.6$	20.0	6.01	
			sS	22 10 20.0	-3.6					LE		18.0	2.33	
			eSS	22 11 12.0	-2.2		LZH	37.6	328	+iP	22 07 16.0	1.2		
			PcS	22 12 39.0	-1.6					PMZ	$m_B = 6.1$	4.0	1.39	
			LE	$M_s = 5.5$	20.0	7.86				pP	22 07 30.0	3.5		
NJ2	27.8	344	-P	22 05 50.0	0.2					S	22 13 04.0	4.6		
			S	22 10 33.0	5.9					ScS	22 17 26.0	5.7		
			ScP	22 12 44.0	4.3					LN	$M_s = 5.8$	15.0	6.27	
			LN	$M_s = 5.2$	16.0	3.00				LE		16.0	5.36	
WHN	28.0	335	P	22 05 53.0	1.5		HHC	38.2	340	+P	22 07 20.4	0.7		
			PMZ	$m_B = 6.0$	8.0	2.50				pP	22 07 28.0	-3.5		
			sP	22 06 10.0	1.9					S	22 13 14.0	5.6		
			ScP	22 12 45.0	4.7					LN	$M_s = 5.6$	16.0	4.58	
			S	22 10 30.0	-0.1					LE		17.0	2.60	
			SMN	$m_B = 5.6$	10.0	1.60	CN2	38.4	358	+P	22 07 20.0	-1.3		
			LN	$M_s = 5.6$	17.0	7.70	BTO	38.5	338	+iP	22 07 22.0	-0.4		
GYA	29.0	319	+P	22 06 00.4	0.1					pP	22 07 34.5	0.4		
			sP	22 06 17.6	0.7					S	22 13 13.0	-0.4		
			S	22 10 50.0	4.4					PcS	22 13 23.0	1.0		
			ScP	22 12 45.6	2.3					LN	$M_s = 5.5$	17.0	2.90	
			ScS	22 16 39.4	3.6					LE		17.0	2.40	
			LN	$M_s = 5.7$	16.0	5.00	MDJ	39.2	2	+P	22 07 28.3	0.2		
			LE		16.0	8.40				pP	22 07 41.3	1.4		
KMI	30.9	312	+iP	22 06 17.5	0.2					PP	22 08 58.0	-4.2		
			pP	22 06 30.0	1.4					eS	22 13 26.0	1.2		
			sP	22 06 34.0	0.2					SME	$m_B = 5.7$	10.0	1.49	
			PP	22 07 16.0	-2.7					ScP	22 13 21.5	2.3		
			eS	22 11 17.0	0.1		GTA	42.2	328	+iP	22 07 53.4	0.5		
			LE	$M_s = 5.3$	15.0	3.10				PMZ	$m_B = 5.8$	6.0	0.97	
TIA	32.2	344	P	22 06 28.1	-0.7					pP	22 08 05.5	0.9		
XAN	33.4	331	+P	22 06 38.2	-1.0					sP	22 08 13.0	3.2		
			eS	22 11 56.0	-0.1					ScP	22 13 34.5	3.5		
			LN	$M_s = 5.4$	19.0	1.75				S	22 14 07.5	-0.8		
			LE		18.0	4.30				SME	$m_B = 5.5$	9.0	0.65	
DL2	33.9	352	eP	22 06 43.0	-0.1					ScS	22 17 51.5	4.2		
CD2	33.9	322	+iP	22 06 42.8	-0.5					LE	$M_s = 5.7$	20.0	5.70	
			PMZ		1.0	0.39	WMQ	51.9	324	+iP	22 09 09.5	0.4		
			S	22 12 03.0	0.5					PMZ		2.0	0.31	
			SMN		16.0	7.01				S	22 16 31.0	5.0		
			LN	$M_s = 5.7$	18.0	8.07				LN	$M_s = 5.8$	28.0	8.35	

LAT = 57.60 S ± 9.59km
 LONG = 142.58 W ± 2.76km
 DEPTH = 5 km ± 2.92km
 STATIONS USED = 28, STAND DEV = 1.95s
 Ms = 5.8 / 4,

GYA	123.0	268	PKP	16 03 00.4	1.4		
XAN	127.7	276	ePKP	16 03 08.7	0.6		
BJI	128.4	286	ePKP	16 03 08.0	-1.3		
			ePP	16 05 20.0	3.2		
			eSKKS	16 12 10.0			
			eSS	16 22 34.0	4.7		
			LN	Ms = 5.9	26.0	1.56	
			LE	26.0	1.46		
TIY	128.6	281	ePKP	16 03 10.0	0.2		
			LN	Ms = 5.7	20.0	0.99	
GTA	136.6	273	ePKP	16 03 19.1	-5.8		
			ePP	16 06 05.0	-3.6		
			LE	Ms = 5.9	25.0	1.99	
KSH	149.2	251	PKP	16 03 49.0	2.1		

1987 6 6

O = 18 37 46.8 ± 0.09s
 LAT = 6.79 S ± 1.02km
 LONG = 128.79 E ± 2.57km
 DEPTH = 31 km ± 0.23km
 STATIONS USED = 13, STAND DEV = 2.09s

WHN	39.6	340	eP	18 45 21.5	3.9		
BJI	48.0	347	eP	18 46 26.0	0.5		

1987 6 6

O = 18 40 26.8 ± 0.11s
 LAT = 10.75 N ± 1.72km
 LONG = 126.19 E ± 2.08km
 DEPTH = 14 km ± 0.23km
 STATIONS USED = 103, STAND DEV = 1.61s
 Ms = 6.4 / 50,

QZH	15.9	334	+iP	18 44 11.0	-0.4					
			sP	18 44 22.0	1.8					
			iS	18 47 14.0	6.8					
			SMN	m _B = 6.3	10.0	12.3				
			SME		10.0	15.7				
			LN	Ms = 6.0	14.0	25.2				
			LE		14.0	36.2				
			GZH	17.3	317	+iP	18 44 31.0	0.6		
						PMZ	m _B = 6.5	10.0	21.7	
						LN	Ms = 6.6	20.0	15.7	
			LE	18.0	13.1					
QZN	17.8	299	+P	18 44 38.0	1.9					
			PMZ	m _B = 6.7	10.0	32.5				
			SMN	m _B = 6.3	11.0	16.0				

						SME			
						LN	Ms = 6.5	15.0	63.1
						LE		17.0	106
SSE	20.8	348	-P	18 45 11.5	1.3				
						PMZ		1.5	0.27
						pP	18 45 19.5	3.6	
						PP	18 45 32.0	0.5	
						iS	18 49 00.0	3.2	
						SME		14.0	42.1
						SS	18 49 24.0	-3.1	
						PcS	18 52 51.0	-4.2	
						LN	Ms = 6.2	14.0	41.4
						LE		14.0	25.3
NJ2	22.3	343	eP	18 45 21.5	-3.7				
						PMZ	m _B = 6.3	7.0	8.70
						S	18 49 23.0	-1.1	
						LE	Ms = 6.1	11.0	25.9
WHN	22.6	333	+P	18 45 30.0	1.8				
						PMZ		1.5	0.29
						SMN	m _B = 6.5	11.0	21.5
						LN	Ms = 6.5	16.0	81.7
GYA	24.2	313	+P	18 45 45.0	1.0				
						PMZ	m _B = 6.5	4.0	6.70
						S	18 50 02.0	4.1	
						SMN	m _B = 6.7	10.0	21.8
						SME		10.0	12.5
						LN	Ms = 6.5	16.0	61.3
						LE		16.0	59.2
KMI	26.4	306	+P	18 46 05.0	-0.6				
						PMZ	m _B = 6.3	8.0	5.10
						PP	18 46 48.0	0.3	
						eS	18 50 34.0	-3.0	
						LN	Ms = 6.6	20.0	101
TIA	26.6	343	+P	18 46 07.7	0.4				
						PMZ	m _B = 6.1	5.0	1.96
						cpP	18 46 13.2	-0.1	
						S	18 50 35.2	-4.1	
						SMN	m _B = 6.5	12.0	4.55
						SME		13.0	14.2
						SS	18 51 44.0	-6.2	
						ScS	18 57 01.4	3.1	
						LN	Ms = 6.4	16.0	44.8
						LE		16.0	20.1
XAN	28.1	328	+P	18 46 19.2	-1.1				
						PMZ	m _B = 6.0	10.0	3.05
						sP	18 46 27.0	-2.2	
						PcP	18 49 35.5	1.2	
						iS	18 51 02.0	-1.1	
						SMN		13.0	17.8
						SME		11.0	8.76

XAN	28.1	328	eP	01 55 17.2	-1.1				
BJI	30.5	345	eP	01 55 39.0	-0.7				
MDJ	33.9	4	eP	01 56 09.7	0.7				
GTA	37.0	325	+P	01 56 34.9	-0.7				
WMQ	46.8	322	P	01 57 56.5	0.5				
1987 6 7									
				O=02 50 35.2	± 0.16s				
				LAT=38.24 N	± 1.31km				
				LONG= 77.66 E	± 1.11km				
				DEPTH= 6 km	± 0.07km				
				STATIONS USED = 6,	STAND DEV = 1.91s				
				M _L =3.6 / 4,					
KSH	1.8	313	Pn	02 51 06.0	-1.0				
			Sg	02 51 35.0	3.8				
			SMN	M _L =4.2	0.2	1.60			
			SME		0.5	2.80			
WMQ	9.4	51	P	02 52 56.5	2.0				
			LN		1.5	0.030			
1987 6 7									
				O=03 06 38.2	± 0.11s				
				LAT=10.81 N	± 1.43km				
				LONG=126.33 E	± 1.79km				
				DEPTH= 53 km	± 0.53km				
				STATIONS USED = 69,	STAND DEV = 1.48s				
				M _s =4.5 / 15,					
				m _B =5.3 / 2					
QZH	15.9	333	eP	03 10 17.0	-2.6				
QZN	17.9	299	eP	03 10 43.5	-1.6				
			LE	M _s =4.5	16.0	1.40			
SSE	20.7	347	+P	03 11 17.6	0.6				
			PMZ		0.7	0.010			
			LN	M _s =4.5	12.0	0.52			
			LE		12.0	0.55			
NJ2	22.2	343	+P	03 11 34.5	2.5				
			SME	m _B =5.0	12.0	0.50			
			LE	M _s =4.4	12.0	0.50			
WHN	22.6	332	P	03 11 37.0	1.7				
			S	03 15 40.0	6.6				
			LN	M _s =4.5	11.0	0.60			
GYA	24.2	313	+P	03 11 52.0	0.5				
			LE	M _s =4.8	16.0	1.50			
KMI	26.5	306	eP	03 12 12.0	-1.2				
TIA	26.6	343	eP	03 12 13.6	-0.4				
			eS	03 16 49.0	6.0				
			LN	M _s =4.6	11.0	0.55			
XAN	28.1	328	eP	03 12 25.6	-1.7				
			S	03 17 08.0	2.4				
			LE	M _s =4.3	12.0	0.31			
CD2	29.0	317	eP	03 12 33.4	-1.7				

			LE	M _s =4.8	18.0	1.25			
TIY	29.6	337	-iP	03 12 41.2	0.7				
			S	03 17 36.0	6.9				
			LE	M _s =4.5	13.0	0.47			
BJI	30.5	345	eP	03 12 48.5	-0.1				
			eS	03 17 47.0	2.6				
SNY	31.0	356	eP	03 12 53.5	0.4				
LZH	32.4	325	-iP	03 13 06.0	0.5				
			PMZ	m _B =5.5	4.0	0.33			
HHC	32.6	339	eP	03 13 08.4	0.7				
CN2	32.9	359	eP	03 13 08.0	-1.7				
BTO	33.0	337	eP	03 13 11.0	0.2				
			S	03 18 27.0	4.1				
			LN	M _s =4.4	11.0	0.20			
			LE		11.0	0.20			
MDJ	33.8	4	+P	03 13 18.4	0.8				
GTA	37.0	325	+P	03 13 44.9	0.1				
			PcP	03 16 06.0	1.6				
			eS	03 19 29.0	3.3				
			LE	M _s =4.7	15.0	0.59			
1987 6 7									
				O=04 26 23.6	± 0.11s				
				LAT=39.51 N	± 1.34km				
				LONG=118.13 E	± 1.16km				
				DEPTH= 15 km	± 0.16km				
				STATIONS USED = 34,	STAND DEV = 2.97s				
				M _s =3.6 / 1,					
				M _L =4.1 / 18,					
BJI	1.6	290	-Pg	04 26 51.0	-1.0				
			Sg	04 27 11.5	-2.3				
			SMN	M _L =4.6	0.5	8.61			
			SME		0.5	5.21			
DL2	2.8	101	-Pn	04 27 08.3	0.2				
			Pg	04 27 14.6	1.8				
			Sg	04 27 46.6	-4.3				
			SMN	M _L =3.9	0.7	0.64			
			SME		0.7	0.46			
TIA	3.4	194	Pn	04 27 15.0	-1.4				
			Pg	04 27 22.9	-0.6				
			Sg	04 28 07.0	-2.8				
			SMN	M _L =3.8	0.5	0.31			
			SME		0.5	0.24			
SNY	4.7	59	ePn	04 27 34.9	-0.2				
			Pg	04 27 50.3	2.8				
			Sn	04 28 27.0	-4.9				
			Sg	04 28 53.1	0.7				
			SMN	M _L =4.4	0.8	0.60			
			SME		1.0	0.42			
TIY	4.8	250	-Pn	04 27 36.6	0.6				
			Pg	04 27 47.6	-0.9				

		Sg	04 28 48.3	-6.0					LN	Ms=5.8	12.0	43.3
		SMN		M _L =4.5	1.5	0.60			LE		12.0	24.8
		SME			1.0	0.64	QZN	10.9 264	-P	05 52 19.0	-3.1	
HHC	5.2 287	ePg	04 27 55.6	-0.2					PMZ	m _B =6.3	7.5	6.20
		Sg	04 29 04.8	-1.9					LN	Ms=6.1	12.0	48.1
		SMN		M _L =4.2	1.0	0.19			LE		12.0	69.3
		SME			1.0	0.28	NJ2	11.7 350	eP	05 52 31.0	-1.9	
BTO	6.3 283	ePg	04 28 16.0	0.6					S	05 54 38.0	-6.2	
		Sg	04 29 42.5	0.9			WHN	11.8 329	-P	05 52 32.0	-2.3	
		SMN		M _L =4.4	1.0	0.23			PMZ	m _B =6.4	9.0	7.50
		SME			1.0	0.19			sP	05 52 42.0	-0.4	
CN2	7.0 50	-Pg	04 28 29.6	3.0					iS	05 54 40.0	-6.9	
		eSn	04 29 20.0	-6.7					LN	Ms=6.0	11.0	58.8
		eSg	04 30 02.6	1.0			GYA	14.7 297	-P	05 53 12.0	-0.8	
		SMN		M _L =4.6	0.8	0.24			PMZ		3.0	11.2
		SME			0.8	0.27			S	05 55 55.0	-0.8	
NJ2	7.5 175	ePn	04 28 06.0	-6.4					SS	05 56 14.0	1.4	
WHN	9.5 200	eP	04 28 38.0	-4.6					LN	Ms=6.2	12.0	40.7
MDJ	9.9 55	eP	04 28 43.5	-5.7					LE		12.0	47.2
							TIA	16.1 348	eP	05 53 32.3	1.7	
									PMZ	m _B =6.1	8.0	7.40
									S	05 56 31.5	3.4	
									eScS	06 05 36.6	-0.9	
									LN	Ms=6.2	14.0	53.5
									LE		14.0	39.6
							XAN	17.4 323	-iP	05 53 47.8	0.5	
									PMZ	m _B =6.4	7.0	13.1
									S	05 56 58.0	-0.5	
									LN	Ms=6.0	13.0	36.6
									LE		15.0	8.54
							KMI	17.7 288	-iP	05 53 52.0	0.2	
									PMZ	m _B =6.2	6.0	7.40
									PP	05 54 08.5	3.0	
									LE	Ms=6.2	15.0	64.2
							DL2	18.3 1	eP	05 54 00.0	1.0	
									S	05 57 25.0	5.0	
									LN	Ms=6.2	14.0	52.4
									LE		14.0	33.1
							CD2	18.9 307	P	05 54 05.4	-0.5	
									PMZ	m _B =6.7	6.8	27.4
									iS	05 57 34.5	1.2	
									SS	05 57 56.0	-1.4	
									LE	Ms=6.5	15.1	113
							BJI	20.0 348	-P	05 54 17.5	-0.5	
									PMZ	m _B =5.7	8.0	2.78
									ePP	05 54 34.0	-2.4	
									S	05 58 00.0	3.7	
									SMN	m _B =6.5	9.0	13.7
									SME		13.0	20.6
									LN	Ms=6.0	12.0	25.8

1987 6 7

O=04 45 01.8 ± 0.11s
 LAT=16.61 S ± 0.67km
 LONG=177.37 W ± 1.07km
 DEPTH=438 km ± 1.05km

STATIONS USED = 31, STAND DEV = 0.87s

MDJ	77.7 324	eP	04 56 14.5	0.4
CN2	79.6 322	eP	04 56 24.0	-0.2
BJI	83.6 315	eP	04 56 45.0	0.5
TIY	85.1 312	-iP	04 56 53.5	1.1
GYA	85.3 299	P	04 56 54.2	1.2
XAN	86.3 307	+P	04 56 58.3	0.6

1987 6 7

O=05 49 42.9 ± 0.10s
 LAT=20.51 N ± 1.25km
 LONG=121.32 E ± 1.69km
 DEPTH= 12 km ± 0.19km

STATIONS USED = 108, STAND DEV = 1.65s

Ms=6.2/47, m_B=6.2/23

QZH	5.1 331	-Pn	05 51 00.0	0.8
		Sn	05 51 54.0	-5.9
GZH	7.8 291	-iPn	05 51 37.0	-0.2
		Sn	05 53 04.0	-4.3
		LN	Ms=5.9	16.0 59.9
		LE		20.0 159
SSE	10.5 359	-P	05 52 18.0	1.0
		pP	05 52 25.0	2.8
		sP	05 52 30.0	4.9
		eS	05 54 20.0	3.9

SNY	31.1	356	-iP	09 21 46.8	0.5		
LZH	32.4	325	P	09 21 58.0	0.3		
			LN	Ms=4.8	11.0	0.71	
HHC	32.7	339	-P	09 22 01.4	1.1		
CN2	33.0	359	eP	09 22 02.0	-0.9		
BTO	33.0	337	P	09 22 03.0	-0.3		
			ePP	09 23 12.0	-2.4		
			eS	09 27 19.0	2.9		
			LN	Ms=4.6	14.0	0.30	
			LE		14.0	0.40	
MDJ	33.9	4	eP	09 22 11.8	0.9		
GTA	37.0	325	+iP	09 22 37.2	0.2		
			PcP	09 24 58.1	1.9		
			eS	09 28 21.8	4.8		
			eScS	09 32 48.3	6.3		
			LE	Ms=4.7	16.0	0.67	
KSH	52.9	312	eP	09 24 44.0	0.5		

1987 6 7

O = 10 02 09.8 ± 0.08s
 LAT = 10.76 N ± 0.99km
 LONG = 126.36 E ± 1.61km
 DEPTH = 51 km ± 0.51km
 STATIONS USED = 46, STAND DEV = 1.28s

SSE	20.8	347	P	10 06 49.5	0.2		
			sP	10 07 01.5	-5.3		
WHN	22.6	332	eP	10 07 09.5	1.9		
GYA	24.3	313	eP	10 07 23.0	-0.8		
TIA	26.7	343	eP	10 07 46.0	-0.3		
XAN	28.1	328	eP	10 07 57.7	-1.9		
TIY	29.6	337	P	10 08 12.3	-0.5		
BJI	30.5	345	eP	10 08 20.5	-0.3		
CN2	32.9	359	eP	10 08 40.0	-1.9		
MDJ	33.8	4	eP	10 08 50.5	0.7		
GTA	37.0	325	P	10 09 17.0	0.0		
WMQ	46.9	322	eP	10 10 37.2	-0.2		

1987 6 7

O = 13 27 56.9 ± 0.14s
 LAT = 6.58 S ± 1.60km
 LONG = 147.68 E ± 1.71km
 DEPTH = 66 km ± 0.57km
 STATIONS USED = 18, STAND DEV = 2.28s

XAN	54.6	320	eP	13 37 18.6	-2.6		
BJI	54.7	331	eP	13 37 21.5	-0.9		

1987 6 7

O = 13 30 14.9 ± 0.05s
 LAT = 16.92 N ± 0.93km
 LONG = 98.70 W ± 1.86km

DEPTH = 33 km ± 0.56km							
STATIONS USED = 27, STAND DEV = 0.97s							
Ms = 5.5 / 2,							
WMQ	119.3	355	ePKP	13 49 02.0	0.1		
GTA	121.4	343	PKP	13 49 05.8	-0.2		
			LN	Ms = 5.4	24.0	0.67	
XAN	122.9	333	+PKP	13 49 08.5	-0.4		
WHN	123.1	326	PKP	13 49 09.0	-0.2		
LZH	123.1	338	-iPKP	13 49 10.5	1.0		
GYA	130.3	330	PKP	13 49 24.6	1.3		
			PP	13 51 33.0	-6.9		
KMI	133.3	333	ePKP	13 49 31.0	2.0		

1987 6 7

O = 16 14 39.4 ± 0.12s
 LAT = 44.01 N ± 0.94km
 LONG = 116.67 E ± 0.93km
 DEPTH = 11 km ± 0.29km
 STATIONS USED = 11, STAND DEV = 2.62s

M _L = 3.4 / 9,							
BJI	4.0	185	Pg	16 15 50.5	0.7		
			Sg	16 16 40.5	-3.8		
			SMN	M _L = 3.0	0.5	0.030	
			SME		0.5	0.040	
SNY	5.5	111	ePg	16 16 18.2	1.2		
			Sg	16 17 25.7	-6.7		
			SMN	M _L = 3.4	0.8	0.040	
			SME		0.8	0.030	
BTO	6.0	238	ePg	16 16 28.2	2.8		
			Sg	16 17 47.6	0.4		
CN2	6.3	89	ePg	16 16 32.7	1.1		
			SMN	M _L = 3.3	0.8	0.010	
			SME		0.8	0.030	

1987 6 7

O = 22 48 05.9 ± 0.09s
 LAT = 10.56 N ± 1.44km
 LONG = 126.23 E ± 2.20km
 DEPTH = 32 km ± 0.24km
 STATIONS USED = 63, STAND DEV = 1.34s

Ms = 5.0 / 24, m _B = 5.4 / 4							
QZN	17.9	300	eP	22 52 17.0	2.4		
			sP	22 52 29.5	2.9		
			PP	22 52 33.0	3.9		
			eS	22 55 30.0	-1.0		
			SS	22 55 52.0	-1.3		
			LN	Ms = 4.9	15.0	2.30	
			LE		15.0	2.30	
SSE	21.0	348	P	22 52 49.4	0.5		
			sP	22 53 02.0	0.5		

			LN	Ms=4.7	12.0	1.30			LONG=126.24 E	± 1.94km				
NJ2	22.5	343	-P	22 53 06.5	2.7				DEPTH= 33 km	± 0.11km				
			LE	Ms=4.8	12.0	1.30			STATIONS USED = 37,	STAND DEV= 1.66s				
WHN	22.8	333	P	22 53 09.0	2.3				Ms=5.1 / 15,					
			S	22 57 12.0	3.6			QZH	15.9	334	cP	22 52 02.0	-0.9	
			LN	Ms=4.9	14.0	2.20					LN	Ms=4.6	15.0	1.83
KMI	26.6	306	eP	22 53 43.0	-0.6			GZH	17.4	317	eP	22 52 23.0	1.2	
			sP	22 53 56.0	-0.1						S	22 55 33.0	0.5	
			eS	22 58 11.0	-3.5						LN	Ms=5.2	18.0	4.29
			LN	Ms=4.9	15.0	1.80					LE		17.0	5.89
TIA	26.8	344	eP	22 53 46.0	0.2			GYA	24.2	313	P	22 53 33.0	-1.9	
			pP	22 53 58.4	3.9						S	22 57 54.8	6.9	
			SMN	m _B = 5.3	10.0	0.65					LN	Ms=5.1	14.0	1.90
			SME		10.0	0.59					LE		14.0	2.40
			LN	Ms=4.9	13.0	1.27		DL2	28.4	352	+P	22 54 13.0	-0.4	
			LE		11.0	0.49					S	22 59 00.0	3.9	
XAN	28.2	329	-P	22 53 57.0	-1.6						LN	Ms=5.1	15.0	1.06
			sP	22 54 09.2	-2.0						LE		15.0	2.18
			LE	Ms=5.0	12.0	1.54		BJI	30.6	345	cP	22 54 33.0	0.3	
CD2	29.1	317	eP	22 54 04.4	-1.6						S	22 59 32.0	1.5	
			eS	22 58 51.0	-3.4						ScP	23 01 12.0	2.8	
			LE	Ms=5.4	15.0	4.10					ScS	23 05 09.0	4.9	
TIY	29.7	338	eP	22 54 12.0	0.0						LN	Ms=4.8	12.0	0.46
			pP	22 54 24.5	3.6						LE		12.0	0.64
			eS	22 59 09.5	4.2			LZH	32.4	325	-iP	22 54 50.0	0.8	
			ScP	23 00 51.5	-1.7						PMZ		2.0	0.15
			LN	Ms=5.0	14.0	0.83					pP	22 54 55.0	-3.0	
			LE		12.0	1.02					sP	22 54 57.5	-4.5	
BJI	30.7	345	eP	22 54 19.5	-0.8						PcP	22 57 36.5	1.0	
SNY	31.2	356	cP	22 54 25.4	0.3						LN	Ms=5.4	12.0	1.75
			sP	22 54 37.0	-0.9						LE		13.0	2.59
			LN	Ms=5.0	13.0	0.80		CN2	33.0	359	eP	22 54 52.5	-1.5	
			LE		14.0	1.31					eS	23 00 11.0	1.6	
HHC	32.8	339	cP	22 54 40.0	0.7			WMQ	46.9	322	P	22 56 49.0	0.1	
			S	22 59 58.0	5.3						PMZ		1.5	0.10
			LN	Ms=5.0	14.0	1.00					PcP	22 58 21.0	-0.2	
			LE		12.0	0.64					ScP	23 02 13.5	2.6	
BTO	33.2	337	eP	22 54 43.0	0.7						S	23 03 39.0	3.2	
			ePP	22 55 51.0	-2.2						LN	Ms=5.4	20.0	2.61
			eS	22 59 54.0	-5.2			KSH	52.9	312	P	22 57 36.0	0.7	
			LN	Ms=5.0	13.0	0.80								
			LE		15.0	1.10								
MDJ	34.1	4	eP	22 54 49.2	-0.5				1987 6 7					
GTA	37.1	325	+P	22 55 15.8	-0.1				O=23 25 54.4	± 0.45s				
			PMZ	m _B = 5.5	5.0	0.40			LAT=38.08 N	± 1.69km				
			LE	Ms=5.1	16.0	1.65			LONG = 72.15 E	± 3.58km				
									DEPTH = 5 km					
									STATIONS USED = 9,	STAND DEV = 3.32s				
									M _L = 4.8 / 3,					
								KSH	3.3	64	Pg	23 26 53.4	0.7	
											SMN	M _L = 4.8	0.2	2.90

					0.5	3.80	LAT=39.70 N		± 1.57km			
							LONG = 74.50 E		± 1.31km			
							DEPTH = 12 km		± 0.36km			
							STATIONS USED = 79,		STAND DEV = 1.67s			
							Ms=4.7 / 16, ML=5.1 / 2, mB=5.2 / 2					
GTA	21.6	78	P	23 30 43.8	-3.8			KSH	1.2 102 +iPg	13 30 54.5	1.4	
1987 6 8									Sg	13 31 06.0	-2.9	
O=11 00 44.5					± 0.06s			WMQ	10.7 63 -iP	13 33 07.8	-0.7	
LAT=10.61 N					± 0.90km			S	13 35 06.0	-2.6		
LONG=126.21 E					± 1.75km			LE	Ms=5.3	4.0	5.15	
DEPTH= 34 km					± 0.33km			GTA	19.5 83 +iP	13 35 02.7	0.3	
STATIONS USED = 42, STAND DEV = 1.09s									PMZ	mB=5.2	5.0	0.56
NJ2	22.4	343	+P	11 05 44.0	2.4			LE	Ms=4.5	18.0	1.18	
WHN	22.7	333	eP	11 05 46.0	1.5			LZH	23.4 90 +iP	13 35 43.5	1.3	
GYA	24.3	313	P	11 06 00.8	0.8			PMZ		2.0	0.18	
TIA	26.8	344	+P	11 06 23.2	-0.4			S	13 39 47.0	-3.3		
XAN	28.2	329	P	11 06 35.3	-1.1			sS	13 40 05.0	4.7		
CD2	29.0	317	eP	11 06 42.6	-1.2			LN	Ms=4.8	12.0	0.91	
TIY	29.7	338	eP	11 06 49.3	-0.6			LE		8.0	0.45	
BJI	30.6	345	eP	11 06 57.5	-0.6			CD2	25.3 101 P	13 36 02.4	1.4	
SNY	31.2	356	eP	11 07 02.8	-0.2			BTO	27.1 77 F	13 36 18.0	1.1	
HHC	32.8	339	eP	11 07 18.0	0.9			sP	13 36 28.0	2.5		
CN2	33.1	359	eP	11 07 18.5	-1.1			ePP	13 37 05.0	2.9		
MDJ	34.0	4	eP	11 07 27.5	-0.1			S	13 40 56.0	4.1		
GTA	37.1	325	-P	11 07 54.5	0.7			LN	Ms=4.7	15.0	0.80	
WMQ	46.9	322	eP	11 09 14.7	0.6			LE		14.0	0.60	
1987 6 8									KMI	27.8 113 +P	13 36 24.0	0.4
O=11 35 38.7					± 0.09s			eS	13 41 10.0	5.1		
LAT=10.61 N					± 1.25km			LN	Ms=4.4	10.0	0.30	
LONG=126.49 E					± 1.72km			XAN	28.0 91 +P	13 36 24.7	-0.7	
DEPTH= 35 km					± 0.27km			eS	13 41 11.0	3.0		
STATIONS USED = 52, STAND DEV = 1.52s									LN	Ms=4.7	12.0	0.51
Ms=4.2 / 2,									LE		10.0	0.43
QZN	18.1	299	eP	11 39 50.2	0.5			TIY	29.5 82 eP	13 36 37.0	-2.2	
			eS	11 43 12.0	4.2			eS	13 41 34.5	1.9		
NJ2	22.5	343	-P	11 40 39.0	2.5			ScS	13 47 15.5	-1.8		
WHN	22.8	332	-P	11 40 41.8	1.8			LN	Ms=4.7	10.0	0.29	
GYA	24.5	313	P	11 40 55.6	-0.6			LE		14.0	0.64	
TIA	26.9	343	+P	11 41 18.0	-0.5			GYA	29.8 106 P	13 36 42.6	0.6	
XAN	28.3	328	P	11 41 30.0	-1.9			sP	13 36 51.6	1.0		
DL2	28.5	352	eP	11 41 34.4	1.0			PP	13 37 40.0	1.6		
CD2	29.2	317	eP	11 41 37.5	-2.2			S	13 41 36.0	-0.6		
TIY	29.8	337	-P	11 41 44.8	-0.2			BJI	31.8 76 eP	13 37 00.0	1.0	
			LN	Ms=4.4	14.0	0.37			eS	13 42 12.0	4.1	
BJI	30.7	344	eP	11 41 53.0	0.0			LN	Ms=4.8	13.0	0.91	
SNY	31.2	356	eP	11 41 57.8	0.4			TIA	33.6 82 -P	13 37 15.2	0.6	
MDJ	34.0	4	eP	11 42 22.5	0.9			epP	13 37 21.0	0.7		
GTA	37.2	325	P	11 42 48.5	-0.8			eS	13 42 39.0	3.3		
WMQ	47.1	322	-P	11 44 09.3	-0.3			LN	Ms=4.9	14.0	0.98	
1987 6 8									DL2	36.1 76 eP	13 37 38.1	1.4
O=13 30 32.2					± 0.07s							

QZN	36.7	114	eP	13 37 41.8	0.2
			eS	13 43 29.0	4.4
CN2	37.7	67	eP	13 37 49.0	-1.1
			pP	13 37 54.0	-2.0
			eS	13 43 38.0	-2.2

1987 6 8

O=16 52 15.7 ± 0.44s
 LAT=22.24 N ± 3.53km
 LONG=117.41 E ± 1.14km
 DEPTH= 5 km
 STATIONS USED = 5, STAND DEV= 4.31s

$M_L=3.1/5,$

QZH	2.9	22	ePn	16 53 05.0	2.1
			Sn	16 53 34.5	-5.7
			SMN	$M_L=3.3$	0.4 0.13
			SME		0.3 0.10

1987 6 8

O=17 43 28.8 ± 0.09s
 LAT=40.41 N ± 0.81km
 LONG=122.28 E ± 0.99km
 DEPTH= 6 km ± 0.09km
 STATIONS USED = 9, STAND DEV= 2.31s

$M_L=3.3/9,$

DL2	1.6	199	Pg	17 43 55.8	-1.1
			Sg	17 44 17.0	-1.6
			SMN	$M_L=3.2$	0.5 0.27
			SME		0.5 0.30
SNY	1.7	34	+iPg	17 44 01.0	1.7
			Sg	17 44 24.3	1.5
			SMN	$M_L=3.4$	0.5 0.46
			SME		0.4 0.31
CN2	4.1	34	ePg	17 44 43.6	1.8
			eSg	17 45 38.4	0.3
			SMN	$M_L=3.3$	0.6 0.060
			SME		0.6 0.050

1987 6 8

O=19 13 17.3 ± 0.26s
 LAT=51.52 N ± 1.20km
 LONG=174.86 W ± 0.95km
 DEPTH= 60 km ± 2.02km
 STATIONS USED = 25, STAND DEV= 1.68s

CN2	39.9	283	eP	19 20 45.5	-2.2
SNY	42.2	282	-P	19 21 06.1	-0.1
BJI	47.7	284	eP	19 21 50.0	-0.7
TIY	51.5	285	+P	19 22 18.5	-0.9
XAN	56.0	284	-P	19 22 50.9	-2.1
LZH	57.7	289	-iP	19 23 04.0	-0.9

WMQ	61.3	305	P	19 23 28.5	-1.2
CD2	61.3	284	eP	19 23 28.5	-1.4
GYA	62.8	279	P	19 23 38.6	-0.8

1987 6 8

O=22 25 43.5 ± 0.23s
 LAT= 6.40 S ± 2.22km
 LONG=148.90 E ± 3.23km
 DEPTH= 59 km ± 1.12km
 STATIONS USED = 26, STAND DEV= 3.26s

XAN	55.2	319	eP	22 35 11.9	-1.3
LZH	59.8	318	eP	22 35 46.0	0.6

1987 6 9

O=06 19 25.3 ± 0.21s
 LAT= 6.25 S ± 2.27km
 LONG=148.88 E ± 3.40km
 DEPTH= 58 km ± 0.71km
 STATIONS USED = 98, STAND DEV= 2.08s

$M_s=6.0/49,$ $m_B=5.7/18$

QZH	42.8	318	+P	06 27 20.0	0.7
			S	06 33 39.0	1.5
			SME	$m_B=5.7$	10.0 1.20
			LE	$M_s=5.8$	17.0 6.88
GZH	45.3	311	P	06 27 40.0	0.0
			LN	$M_s=6.2$	26.0 20.2
			LE		25.0 13.6
SSE	45.6	326	eP	06 27 40.5	-1.6
			PMZ	$m_B=5.7$	8.0 0.88
			PP	06 29 26.0	-3.0
			eScP	06 33 10.0	4.7
			iS	06 34 20.0	0.6
			esS	06 34 42.0	-1.7
			ScS	06 37 35.0	5.9
			LN	$M_s=6.2$	18.0 14.8
			LE		18.0 7.23
QZN	45.9	304	eP	06 27 44.0	-0.7
			PP	06 29 28.0	-4.3
			PcS	06 33 15.0	1.8
			eS	06 34 23.0	-1.1
			LN	$M_s=5.7$	19.0 3.20
			LE		20.0 4.00
NJ2	47.6	325	+P	06 27 58.0	-0.1
			PMZ	$m_B=5.7$	8.0 0.80
			S	06 34 43.2	-4.1
			LE	$M_s=6.1$	17.0 10.1
WHN	49.3	320	+P	06 28 12.0	0.9
			PMZ	$m_B=5.4$	8.0 0.40
			PcP	06 29 38.0	5.6
			S	06 35 09.0	-1.7

			LN	Ms=6.0	18.0	9.00			PP	06 31 25.0	-5.8			
DL2	51.5	333	+P	06 28 27.0	-1.0				S	06 37 15.5	-1.9			
			S	06 35 45.0	3.5				LN	Ms=6.4	20.0	11.5		
			LN	Ms=6.4	20.0	19.3			LE		20.0	12.5		
			LE		20.0	12.4	LZH	59.6	318	+P	06 29 26.5	0.0		
TIA	51.7	327	eP	06 28 28.8	-0.3				PMZ		3.0	0.14		
			PP	06 30 24.0	-2.5				S	06 37 29.0	-0.2			
			eS	06 35 45.0	0.4				LN	Ms=6.3	18.0	8.31		
			LN	Ms=6.5	19.0	14.2			LE		19.0	8.75		
			LE		24.0	24.8	GTA	64.1	319	+P	06 29 55.0	-1.7		
SNY	53.1	336	+iP	06 28 39.0	-1.0				PMZ	m _B =5.7	11.0	1.14		
			PMZ			18.0	2.37		S	06 38 30.0	3.9			
			PP	06 30 41.0	0.3				SMN	m _B =5.7	11.0	0.69		
			S	06 36 08.5	5.2				SME		10.0	0.68		
			LN	Ms=6.0	17.0	3.98			LE	Ms=5.9	18.0	4.04		
			LE		18.0	7.44	WMQ	74.2	319	P	06 30 58.5	0.0		
MDJ	53.5	343	+P	06 28 42.0	-0.9				S	06 40 29.9	5.3			
			PP	06 30 43.0	-1.1				SMN	m _B =5.6	8.0	0.53		
			PcS	06 33 48.0	2.6				LN	Ms=6.0	23.0	5.56		
			S	06 36 08.0	-0.6			KSH	80.9	311	P	06 31 36.0	0.1	
CN2	54.1	339	+P	06 28 46.0	-1.3				ePP	06 34 43.0	1.4			
			eS	06 36 16.0	-2.0				S	06 41 43.0	6.1			
KMI	54.6	307	eP	06 28 50.0	-1.2				LN	Ms=6.0	18.0	4.20		
			pP	06 29 02.0	-3.3									
			LN	Ms=5.8	18.0	4.50								
BJI	55.0	330	eP	06 28 52.0	-2.0									
			PMZ	m _B =5.7	8.0	0.72								
			ePP	06 30 56.0	-1.8									
			eS	06 36 30.0	-0.1									
			SMN	m _B =5.5	10.0	0.72								
			LN	Ms=6.2	19.0	13.0								
			LE		19.0	3.43								
XAN	55.1	319	eP	06 28 52.0	-2.2				QZN	17.9	300	eP	13 24 12.6	3.2
			PMZ	m _B =5.6	8.0	0.67			LE	Ms=4.2	15.0	0.70		
			pP	06 29 12.4	3.9				SSE	20.9	348	eP	13 24 43.5	0.3
			LN	Ms=5.9	16.0	4.10			sP	13 24 55.5	-0.3			
			LE		19.0	3.95			cS	13 28 32.0	2.2			
TIY	55.4	325	+P	06 28 55.0	-1.4				sS	13 28 42.0	-1.2			
			PMZ	m _B =5.8	11.0	1.42			LN	Ms=4.1	18.0	0.45		
			S	06 36 39.0	5.7				NJ2	22.4	343	eP	13 25 00.0	1.9
			sS	06 36 54.5	-4.6				SME	m _B =4.9	11.0	0.40		
			SS	06 40 25.0	6.9				WHN	22.7	333	eP	13 25 02.5	1.4
			LN	Ms=6.3	19.0	12.1			SME	m _B =5.0	8.0	0.40		
			LE		21.0	9.27			LN	Ms=4.1	14.0	0.30		
CD2	56.8	313	eP	06 29 04.0	-2.6				GYA	24.3	313	P	13 25 17.0	0.2
			PP	06 31 07.6	-6.0				KMI	26.6	306	eP	13 25 36.0	-2.3
			S	06 36 49.0	-3.3				XAN	28.2	328	eP	13 25 51.5	-1.5
			LN	Ms=6.0	16.0	6.85			DL2	28.5	352	eP	13 25 55.7	0.4
HHC	58.0	327	+P	06 29 15.0	-0.4				CD2	29.0	317	eP	13 25 57.5	-3.1
BTO	58.7	326	+P	06 29 19.0	-1.1				TIY	29.7	338	eP	13 26 06.3	-0.1
									S	13 31 02.0	3.7			

1987 6 9
O = 13 20 00.7 ± 0.09s
LAT = 10.62 N ± 1.28km
LONG = 126.26 E ± 2.10km
DEPTH = 32 km ± 0.39km
STATIONS USED = 54, STAND DEV = 1.50s
Ms = 4.2 / 7, m_B = 4.9 / 2

	SS	13 32 35.5	1.7		
	LN	Ms=4.5	17.0	0.61	
BJI	30.6 345 eP	13 26 14.0	-0.6		
SNY	31.2 356 eP	13 26 19.6	0.2		
LZH	32.5 325 eP	13 26 32.0	0.9		
CN2	33.1 359 eP	13 26 36.0	0.0		
MDJ	34.0 4 eP	13 26 44.0	0.0		

1987 6 9

O=15 10 01.0 ± 0.05s

LAT=33.08 N ± 0.82km

LONG=136.97 E ± 0.77km

DEPTH=405 km ± 1.03km

STATIONS USED = 33, STAND DEV = 0.82s

SNY	13.8 313 +P	15 13 02.7	0.2
TIA	16.6 286 eP	15 13 31.6	-0.6
BJI	18.1 299 eP	15 13 47.0	0.2
WHN	19.4 269 P	15 14 01.8	2.1
TIY	20.5 290 eP	15 14 12.6	1.9
XAN	23.4 280 P	15 14 37.0	-0.4
CD2	28.2 275 eP	15 15 19.8	-0.8

1987 6 9

O=18 42 38.2 ± 0.15s

LAT=12.73 S ± 2.87km

LONG=76.04 W ± 3.02km

DEPTH=81 km ± 1.46km

STATIONS USED = 10, STAND DEV = 2.80s

WMQ	146.0 21 ePKP	19 02 08.3	-0.7
BJI	150.7 341 ePKP	19 02 20.0	3.5

1987 6 9

O=19 34 09.2 ± 1.97s

LAT=22.71 N ± 12.06km

LONG=124.06 E ± 11.89km

DEPTH=10 km

STATIONS USED = 9, STAND DEV = 3.57s

M_L=3.7/ 6,

QZH	5.5 295 ePn	19 35 32.2	0.9
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SMN

M_L=3.7

1.0 0.11

SME

1.0 0.050

SSE	8.7 344 eP	19 36 18.5	-0.3
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1987 6 9

O=20 48 21.4 ± 0.11s

LAT=6.48 S ± 2.17km

LONG=154.44 E ± 3.51km

DEPTH=35 km ± 1.16km

STATIONS USED = 41, STAND DEV = 1.36s

WHN	53.2 316 -P	20 57 41.0	2.1
-----	-------------	------------	-----

CN2	56.5 335 eP	20 58 01.0	-2.0
GYA	56.7 307 P	20 58 06.0	1.4
XAN	59.0 316 +P	20 58 19.4	-1.0
KMI	59.3 304 eP	20 58 24.5	1.7
CD2	61.1 311 eP	20 58 34.7	-0.1
BTO	62.1 323 eP	20 58 41.4	-0.5
LZH	63.6 316 +iP	20 58 52.5	0.9
	PMZ		1.5 0.050
GTA	68.0 317 -iP	20 59 20.5	0.6
WMQ	78.1 317 P	21 00 19.8	0.6

1987 6 9

O=21 21 38.4 ± 0.08s

LAT=36.15 N ± 1.51km

LONG=70.20 E ± 1.13km

DEPTH=101 km ± 0.53km

STATIONS USED = 21, STAND DEV = 1.95s

WMQ	15.4 55 P	21 25 13.2	1.3
GTA	23.6 73 P	21 26 42.5	1.4
GYA	32.5 97 P	21 28 01.4	-0.3

1987 6 9

O=21 41 19.5 ± 0.15s

LAT=3.27 S ± 1.31km

LONG=152.53 E ± 2.63km

DEPTH=34 km ± 0.41km

STATIONS USED = 19, STAND DEV = 2.34s

TIY	55.2 322 eP	21 50 51.6	-0.2
XAN	55.3 316 P	21 50 52.4	-0.6
CD2	57.6 310 eP	21 51 08.0	-0.8
GTA	64.4 317 +P	21 51 55.4	0.4

1987 6 9

O=22 22 53.3 ± 0.25s

LAT=3.48 N ± 1.10km

LONG=126.61 E ± 1.84km

DEPTH=58 km ± 2.40km

STATIONS USED = 23, STAND DEV = 1.65s

SSE	27.9 350 eP	22 28 40.2	-0.4
XAN	34.6 334 P	22 29 37.1	-1.9
TIY	36.5 341 eP	22 29 54.7	-0.3
BJI	37.6 347 eP	22 30 05.0	0.6
SNY	38.3 356 -P	22 30 10.2	0.2

1987 6 9

O=22 25 50.5 ± 0.10s

LAT=3.57 N ± 1.68km

LONG=126.66 E ± 3.03km

DEPTH=53 km ± 0.11km

STATIONS USED = 69, STAND DEV = 1.47s

Ms=4.4 / 9,

QZN	22.5	314	eP	22 30 48.9	1.9		
			LE		Ms=4.4	14.0	0.60
QZH	22.6	341	eP	22 30 51.0	2.8		
			LN		Ms=4.4	16.0	0.72
GZH	23.3	328	-P	22 30 55.5	0.8		
SSE	27.9	350	P	22 31 38.5	0.9		
			PMZ			1.2	0.040
			pP	22 31 46.0	-4.2		
			sP	22 31 53.2	-2.8		
			sS	22 36 37.0	-0.2		
WHN	29.2	338	-P	22 31 51.0	1.0		
			LN		Ms=4.5	13.0	0.48
TIA	33.7	346	eP	22 32 26.9	-1.8		
XAN	34.5	333	P	22 32 34.5	-1.8		
CD2	34.7	324	eP	22 32 37.0	-1.0		
DL2	35.5	353	P	22 32 45.0	0.8		
TIY	36.4	341	eP	22 32 52.2	0.0		
			eS	22 38 30.0	1.0		
			PcS	22 39 06.5	5.0		
			LN		Ms=4.4	15.0	0.33
BJI	37.5	347	-P	22 33 02.5	0.9		
			eS	22 38 50.0	3.9		
SNY	38.2	356	+P	22 33 07.5	0.4		
LZH	38.6	330	-iP	22 33 11.5	0.7		
			PMZ			2.0	0.090
HHC	39.5	342	eP	22 33 16.0	-2.4		
CN2	40.1	359	eP	22 33 22.2	-0.6		
MDJ	41.0	3	eP	22 33 29.7	-0.4		
GTA	43.2	329	-iP	22 33 48.8	0.2		
			LE		Ms=4.8	17.0	0.65
WMQ	52.8	325	P	22 35 03.2	-0.1		

1987 6 9

O=22 46 11.3 ± 0.20s

LAT=34.92 S ± 6.08km

LONG=106.57 W ± 4.58km

DEPTH= 7 km ± 0.81km

STATIONS USED = 41, STAND DEV = 2.78s

MDJ	136.5	300	ePKP	23 05 34.0	-1.4		
CN2	139.4	299	ePKP	23 05 41.0	0.3		
TIA	144.7	285	ePKP	23 05 45.9	-4.0		
WHN	145.5	274	PKP	23 05 50.0	-1.3		
BJI	145.9	292	ePKP	23 05 51.0	-1.1		
TIY	148.6	287	ePKP	23 05 58.2	1.7		
BTO	150.7	292	PKP	23 06 04.0	4.2		
XAN	150.8	279	ePKP	23 06 03.6	3.6		
CD2	154.3	270	ePKP	23 06 06.0	1.1		
GTA	158.5	290	ePKP	23 06 09.8	-0.8		

1987 6 10

O=01 43 06.8 ± 0.08s

LAT= 2.85 S ± 1.01km

LONG=139.14 E ± 1.39km

DEPTH= 30 km ± 0.17km

STATIONS USED = 31, STAND DEV = 1.48s

CD2	47.6	318	eP	01 51 42.2	0.1		
BJI	47.6	336	eP	01 51 41.0	-1.2		
MDJ	48.0	351	eP	01 51 45.0	-0.6		
CN2	48.0	347	eP	01 51 45.0	-0.8		
WMQ	65.4	321	eP	01 53 49.5	0.2		

1987 6 10

O=01 56 37.7 ± 0.13s

LAT= 2.73 S ± 2.00km

LONG=138.95 E ± 1.97km

DEPTH= 35 km ± 0.78km

STATIONS USED = 80, STAND DEV = 1.80s

Ms=5.1 / 12, m_B=5.3 / 6

QZH	33.9	325	eP	02 03 20.0	0.5		
			sP	02 03 33.0	-0.1		
			eS	02 08 35.0	-5.6		
			SME		m _B =5.4	6.0	0.48
			LE		Ms=4.9	26.0	2.07
SSE	37.6	335	eP	02 03 51.0	-0.6		
			sP	02 04 07.0	1.6		
			S	02 09 38.0	0.0		
			SS	02 12 16.0	2.5		
			LN		Ms=5.0	18.0	1.35
NJ2	39.5	333	+P	02 04 07.6	0.6		
			S	02 10 10.0	4.0		
			LE		Ms=5.1	18.0	1.60
WHN	40.6	326	P	02 04 19.0	3.2		
			pP	02 04 29.0	3.5		
			S	02 10 23.0	1.1		
			SME		m _B =5.3	8.0	0.40
			sS	02 10 38.0	-1.0		
GYA	42.6	315	P	02 04 34.2	1.4		
			pP	02 04 44.0	1.7		
			S	02 10 54.0	2.0		
TIA	43.8	334	+P	02 04 41.7	-0.4		
			LN		Ms=5.3	21.0	2.28
			LE			16.0	0.61
DL2	44.4	341	P	02 04 48.0	0.8		
			pP	02 04 57.5	0.6		
			S	02 11 20.0	1.8		
KMI	44.7	310	eP	02 04 51.0	1.1		
XAN	46.2	325	P	02 05 01.3	-0.5		
			S	02 11 45.0	0.7		
			SME		m _B =5.4	8.0	0.41

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SNY	46.5	344	+iP	02 05 04.0	0.2		
			S	02 11 51.0	2.9		
			LN	Ms=5.1	24.0	1.22	
			LE		22.0	0.97	
TIY	47.1	331	eP	02 05 09.2	0.1		
			S	02 11 51.0	-6.4		
			LN	Ms=5.3	18.0	1.81	
CD2	47.4	318	eP	02 05 10.4	-0.3		
BJI	47.4	336	eP	02 05 10.5	-0.5		
MDJ	47.9	351	eP	02 05 13.8	-0.9		
			pP	02 05 24.0	-0.4		
			PP	02 07 03.5	-1.8		
			S	02 12 10.0	2.4		
CN2	47.9	347	+P	02 05 14.0	-0.8		
			epP	02 05 23.0	-1.5		
			eS	02 12 08.0	-0.9		
HHC	50.1	333	eP	02 05 31.8	0.1		
BTO	50.6	332	+P	02 05 35.0	-0.6		
			sP	02 05 49.0	-0.3		
			ePP	02 07 31.0	-0.5		
			S	02 12 45.0	-0.3		
			LN	Ms=5.3	17.0	1.00	
			LE		17.0	1.20	
LZH	50.6	323	+P	02 05 37.0	0.8		
			S	02 12 49.0	2.8		
GTA	55.2	323	P	02 06 10.0	-0.2		
WMQ	65.2	322	P	02 07 18.0	-0.2		
			S	02 16 00.0	3.9		
KSH	71.2	313	eP	02 07 59.0	2.9		
			S	02 17 13.0	4.5		
1987 6 10							
O=03 34 05.4 ± 0.09s							
LAT= 3.59 N ± 1.38km							
LONG=126.64 E ± 2.38km							
DEPTH= 72 km ± 0.42km							
STATIONS USED = 32, STAND DEV= 1.34s							
TIA	33.6	346	P	03 40 42.2	0.6		
XAN	34.5	333	eP	03 40 46.2	-2.9		
CD2	34.7	324	eP	03 40 50.1	-0.7		
DL2	35.4	353	+P	03 40 57.4	0.3		
TIY	36.4	341	eP	03 41 06.5	1.5		
BJI	37.5	347	eP	03 41 15.0	0.6		
SNY	38.2	356	+P	03 41 20.0	0.1		
CN2	40.1	359	eP	03 41 35.0	-0.6		
MDJ	40.9	3	eP	03 41 43.0	0.1		
GTA	43.2	329	eP	03 41 59.1	-2.3		
1987 6 10							
O=05 11 54.4 ± 0.26s							

LAT=34.60 N ± 2.39km							
LONG=108.81 E ± 1.31km							
DEPTH= 13 km							
STATIONS USED = 5, STAND DEV= 4.71s							
M _L =2.5 / 3,							
XAN	0.6	171	+iPg	05 12 01.7	-3.0		
			Sg	05 12 12.0	-0.6		
			SMN	M _L =2.5	0.6	0.20	
			SME		0.3	0.23	
1987 6 10							
O=12 41 09.9 ± 0.13s							
LAT=60.82 S ± 3.55km							
LONG= 26.16 W ± 4.18km							
DEPTH= 29 km ± 0.34km							
STATIONS USED = 20, STAND DEV= 3.00s							
GTA	140.7	98	ePKP	13 00 34.6	-3.7		
TIY	145.3	113	ePKP	13 00 46.0	-0.2		
TIA	146.1	120	ePKP	13 00 48.3	0.8		
BTO	146.5	107	ePKP	13 00 50.0	1.7		
BJI	148.9	115	ePKP	13 00 55.5	3.5		
DL2	150.3	123	ePKP	13 01 00.0	5.7		
1987 6 10							
O=13 52 38.5 ± 0.10s							
LAT=35.12 N ± 1.14km							
LONG=110.97 E ± 0.87km							
DEPTH= 3 km ± 0.25km							
STATIONS USED = 6, STAND DEV= 4.03s							
M _L =2.8 / 4,							
XAN	2.0	238	ePg	13 53 13.2	-0.8		
			Sg	13 53 42.1	0.8		
TIY	2.8	24	Pg	13 53 28.6	-0.3		
			Sg	13 54 02.6	-5.0		
			SMN	M _L =2.4	0.7	0.010	
			SME		0.7	0.020	
1987 6 10							
O=14 50 10.7 ± 0.16s							
LAT=37.33 N ± 3.01km							
LONG= 21.57 E ± 2.45km							
DEPTH= 39 km ± 0.68km							
STATIONS USED = 73, STAND DEV= 1.87s							
Ms=5.1 / 12,							
KSH	42.2	70	P	14 58 02.4	0.7		
			eS	15 04 23.0	4.1		
			LN	Ms=5.0	12.0	0.70	
WMQ	49.5	61	P	14 59 00.1	0.5		
			S	15 06 08.3	6.4		
GTA	59.5	62	eP	15 00 12.0	-1.0		

				Ms = 5.1	17.0	0.83			O = 16 03 54.6	± 0.09s		
LZH	63.8	63	eP	15 00 42.0	-0.2				LAT = 4.14 N	± 1.47km		
			S	15 09 17.0	5.1				LONG = 94.79 E	± 1.46km		
BTO	65.9	56	eP	15 00 55.4	-0.3				DEPTH = 52 km	± 0.46km		
			eS	15 09 40.0	1.0				STATIONS USED = 101,	STAND DEV = 1.12s		
			LN	Ms = 5.1	15.0	0.50			Ms = 5.4 / 45,	m _B = 5.6 / 10		
			LE		13.0	0.30	QZN	20.9	44	+P	16 08 35.0	0.3
CD2	66.3	68	eP	15 00 57.4	-0.6					PP	16 08 52.0	-5.3
HHC	66.8	56	eP	15 01 01.4	0.0					sS	16 12 35.0	-3.0
XAN	68.5	63	P	15 01 11.4	-0.2					LN	Ms = 5.3	17.0 6.70
KMI	68.5	74	eP	15 01 11.0	-1.2		KMI	22.2	19	+P	16 08 50.0	1.5
TIY	69.0	58	eP	15 01 15.8	0.8					pP	16 08 57.5	-2.8
			S	15 10 14.0	-0.4					LE	Ms = 5.4	16.0 8.10
			LN	Ms = 5.6	21.0	1.43	GYA	24.9	26	+P	16 09 15.0	0.2
			LE		22.0	1.61				ScP	16 16 26.0	3.8
GYA	70.8	71	P	15 01 25.8	-0.2					ScS	16 20 14.0	4.9
TIA	73.0	57	eP	15 01 37.9	-1.0					LN	Ms = 5.7	8.0 4.90
			LN	Ms = 5.3	11.0	0.40				LE		8.0 4.30
			LE		14.0	0.58	GZH	26.0	42	-P	16 09 25.6	0.8
CN2	73.9	47	eP	15 01 43.4	-0.6					eS	16 13 51.0	1.7
			epP	15 01 55.0	0.4					LN	Ms = 5.4	14.0 2.47
			eS	15 11 10.0	-1.9					LE		11.0 3.09
			LE	Ms = 5.4	18.0	1.20	CD2	27.9	17	eP	16 09 40.6	-1.9
SNY	73.9	50	-P	15 01 44.0	-0.2		WHN	32.1	33	P	16 10 20.5	1.2
WHN	74.2	64	P	15 01 47.2	1.2					PP	16 11 30.0	3.8
			S	15 11 16.0	1.6					S	16 15 30.0	4.3
			LE	Ms = 5.1	20.0	0.60				LN	Ms = 5.4	12.0 2.70
MDJ	75.7	44	eP	15 01 56.0	1.2		XAN	32.5	22	+iP	16 10 21.4	-1.7
NJ2	76.5	60	-P	15 01 59.0	-0.3					PP	16 11 36.0	4.2
			LN	Ms = 5.1	11.0	0.30				S	16 15 32.1	-0.2
QZN	77.4	76	eP	15 02 05.4	1.3					LN	Ms = 5.8	8.0 2.46
			eS	15 11 53.0	2.2					LE		8.0 4.32
SSE	78.7	60	eP	15 02 11.0	-0.3		LZH	32.9	14	-iP	16 10 25.0	-1.2
			sP	15 02 24.2	-2.2					PMZ		2.0 0.13
			eS	15 12 06.0	1.3					S	16 15 33.0	-4.6
										LN	Ms = 5.5	19.0 5.33
										LE		17.0 2.56
							GTA	35.4	7	+iP	16 10 47.0	-1.0
										eS	16 16 16.0	-2.0
										SME	m _B = 5.4	8.0 0.64
										LE	Ms = 5.1	16.0 1.89
							NJ2	35.8	36	-P	16 10 51.4	0.4
										SME	m _B = 5.4	9.0 0.70
										LE	Ms = 5.5	15.0 4.20
							SSE	36.6	40	+P	16 10 58.1	0.5
										PMZ		0.6 0.020
										sP	16 11 12.0	-4.0
										PP	16 12 24.0	2.0
										S	16 16 34.0	-0.6
										ScS	16 21 12.0	6.5
1987 6 10												
O = 15 05 42.6 ± 0.08s												
LAT = 39.94 N ± 1.79km												
LONG = 143.91 E ± 1.66km												
DEPTH = 24 km ± 0.81km												
STATIONS USED = 22, STAND DEV = 1.68s												
MDJ	11.6	298	eP	15 08 30.2	0.3							
BJI	21.2	279	eP	15 10 30.0	0.7							
TIA	21.4	269	eP	15 10 27.5	-3.5							
XAN	28.4	269	P	15 11 37.6	-0.6							
GTA	33.7	284	+P	15 12 24.6	0.0							
GYA	33.7	258	P	15 12 25.0	0.4							
1987 6 10												

					Ms = 5.3	13.0	1.24						Ms = 5.5	3.10				
					LN	13.0	1.55						LE	3.10				
TIY	37.1	23	P	16 11 02.2	-0.1						1987 6 10							
			PP	16 12 24.5	-4.5						O = 16 12 44.5	± 0.08s						
			S	16 16 47.0	4.0						LAT = 26.09 N	± 0.81km						
			LN		Ms = 5.8	14.5	5.61						LONG = 100.16 E	± 0.61km				
TIA	38.0	30	+P	16 11 09.3	-0.1						DEPTH = 1 km ± 0.45km							
			PP	16 12 36.0	-3.2						STATIONS USED = 5, STAND DEV = 4.14s							
			eS	16 16 54.0	-3.1						M _L = 3.5 / 4,							
			LN		Ms = 5.5	14.0	2.73	KMI	2.5	112	-Pg	16 13 31.0	1.7					
BTO	38.8	19	-iP	16 11 16.0	-0.5						Sg	16 14 03.5	0.1					
			PP	16 12 47.0	-2.2						SMN		M _L = 3.7	1.0	0.40			
			S	16 17 10.0	1.2						SME			1.0	0.40			
			LN		Ms = 5.8	16.0	3.60						1987 6 10					
KSH	39.1	337	P	16 11 20.0	1.3						O = 16 33 28.9 ± 0.16s							
			S	16 17 19.0	6.2						LAT = 28.23 N ± 1.67km							
			SME		m _B = 5.7	7.0	1.00						LONG = 104.33 E ± 1.85km					
			LN		Ms = 5.3	16.0	2.20						DEPTH = 5 km ± 0.10km					
HHC	39.5	20	eP	16 11 23.2	0.6						STATIONS USED = 9, STAND DEV = 4.85s							
			PMZ			3.0	1.06						M _L = 3.5 / 5,					
			eS	16 17 24.0	2.9						CD2	2.7	350	Pn	16 34 16.4	2.9		
			LN		Ms = 5.7	15.0	2.19						Pg	16 34 23.1	6.3			
WMQ	40.0	352	+P	16 11 27.0	0.6						Sg	16 34 50.7	-3.2					
			S	16 17 30.0	3.2						SMN		M _L = 3.5	0.8	0.17			
			SME		m _B = 6.1	6.0	1.87						SME			0.5	0.30	
			LN		Ms = 5.4	32.0	3.37	GYA	2.7	130	-Pn	16 34 14.4	0.7					
BJI	40.6	25	-P	16 11 32.5	1.1						Pg	16 34 23.4	6.4					
			epP	16 11 40.0	-4.3						Sn	16 34 46.6	-2.3					
			eS	16 17 40.0	3.0						Sg	16 34 56.4	2.2					
			LN		Ms = 5.4	32.0	3.70						SMN		M _L = 3.1	1.0	0.10	
DL2	42.3	32	+P	16 11 46.0	0.5						SME			1.0	0.090			
			eS	16 18 02.0	-0.3						XAN	7.0	33	cPn	16 35 18.0	5.6		
			LN		Ms = 5.0	14.0	0.94						Sn	16 36 28.5	-6.2			
			LE			15.0	2.18						Sg	16 37 04.3	-3.7			
SNY	45.5	30	+iP	16 12 10.0	-1.0						SMN		M _L = 3.6	1.0	0.040			
			S	16 18 50.0	2.9						SME			1.0	0.020			
			LN		Ms = 5.5	23.0	3.15						1987 6 10					
			LE			23.0	2.22						O = 17 25 57.3 ± 0.09s					
CN2	47.9	30	+iP	16 12 29.0	-0.8						LAT = 8.16 N ± 1.44km							
			PMZ		m _B = 5.9	5.0	0.80						LONG = 93.62 E ± 1.34km					
			PP	16 14 20.0	-0.3						DEPTH = 100 km ± 0.48km							
			eS	16 19 21.0	-1.0						STATIONS USED = 50, STAND DEV = 1.29s							
MDJ	50.6	32	+P	16 12 50.4	-0.1						KMI	19.0	26	eP	17 30 14.5	0.6		
			S	16 20 04.0	5.6						QZN	19.1	54	eP	17 30 18.5	3.6		
													LN				14.0	1.10
													GYA	22.0	33	P	17 30 45.4	0.5
										CD2	24.5	21	eP	17 31 09.2	0.1			
										(S)				17 35 16.0	-4.1			

XAN	29.4	27	P	17 31 52.0	-1.4		
			pP	17 32 12.0	-3.3		
			S	17 36 37.0	-0.7		
GTA	31.6	9	-iP	17 32 12.3	-1.0		
			ScP	17 38 40.0	4.7		
KSH	34.9	336	eP	17 32 42.0	0.0		
BTO	35.5	22	eP	17 32 45.4	-0.9		
WMQ	35.9	353	P	17 32 50.2	0.2		
HHC	36.3	23	eP	17 32 53.4	0.3		
BJI	37.6	29	eP	17 33 06.0	1.8		
CN2	45.1	33	eP	17 34 05.6	0.2		

1987 6 10

O=19 51 28.0 ± 0.35s
 LAT=60.62 S ± 7.75km
 LONG= 27.07 W ± 7.88km
 DEPTH= 21 km ± 1.88km
 STATIONS USED = 76, STAND DEV= 3.72s

Ms=6.3/25,

QZN	128.5	124	ePKP	20 10 42.0	7.3		
			PP	20 12 42.0	-1.3		
			SKS	20 17 47.5	6.3		
			SKKS	20 19 26.0			
			SS	20 29 57.5	2.1		
			LN	Ms=6.4	15.0	1.40	
			LE		17.0	3.50	
KSH	129.6	78	PKP	20 10 40.0	3.2		
			PP	20 12 55.0	5.2		
			SKS	20 17 48.0	4.9		
			LE	Ms=6.6	16.0	6.80	
KMI	130.8	113	ePKP	20 10 41.5	2.2		
			LN	Ms=6.3	16.0	2.90	
GZH	133.6	126	ePKP	20 10 44.5	0.2		
			LN	Ms=6.5	16.0	4.31	
			LE		16.0	2.76	
GYA	133.7	116	PKP	20 10 46.4	1.7		
			LN	Ms=6.5	20.0	3.20	
			LE		20.0	4.40	
CD2	136.2	110	ePKP	20 10 43.0	-6.2		
			PKP ₂	20 10 55.0			
			PP	20 13 30.0	-1.8		
			LE	Ms=6.4	16.8	3.55	
QZH	137.3	131	ePKP	20 10 58.0	6.9		
			LN	Ms=6.1	20.0	2.58	
WMQ	138.6	83	PKP	20 10 54.2	0.6		
			PP	20 13 52.2	5.2		
LZH	140.5	106	ePKP	20 10 51.7	-5.5		
WHN	140.6	122	ePKP	20 11 02.0	4.9		
			SKKS	20 20 58.0			
			LN	Ms=6.6	19.0	6.40	

XAN	141.2	113	ePKP	20 10 53.0	-5.3		
			LN	Ms=6.2	19.0	2.67	
			LE		18.0	1.07	
GTA	141.2	99	ePKP	20 10 54.0	-4.4		
			LN	Ms=6.2	17.0	2.70	
NJ2	143.7	126	ePKP	20 11 00.0	-2.5		
			PP	20 14 18.5	0.5		
			LE	Ms=6.4	17.0	3.70	
SSE	143.8	130	ePKP	20 11 01.0	-1.6		
			PKP ₂	20 11 04.0			
			PP	20 14 18.0	-0.3		
			LN	Ms=6.3	16.0	2.41	
			LE		16.0	2.05	
TIY	145.8	114	ePKP	20 11 06.6	0.3		
			LE	Ms=6.3	19.0	3.33	
TIA	146.6	121	ePKP	20 11 07.5	-0.1		
			LN	Ms=6.6	19.0	5.08	
			LE		19.0	3.31	
BTO	147.0	108	PKP	20 11 09.0	0.6		
			PKP ₂	20 11 14.0			
			PP	20 14 38.0	0.2		
			SS	20 33 33.0	-1.1		
			LN	Ms=6.4	17.0	2.80	
			LE		16.0	1.80	
HHC	147.9	109	ePKP	20 11 13.0	3.1		
BJI	149.4	116	ePKP	20 11 13.0	1.0		
			ePP	20 14 56.0	5.1		
			LN	Ms=6.3	18.0	3.45	
DL2	150.8	124	ePKP	20 11 20.4	6.2		
			LN	Ms=6.1	17.0	2.09	
SNY	154.1	123	+PKP	20 11 25.0	6.1		
			SS	20 34 56.5	5.0		
			LN	Ms=6.4	18.0	3.47	
			LE		23.0	2.90	
CN2	156.5	123	+PKP	20 11 22.0	-0.1		
MDJ	158.8	129	ePKP	20 11 25.7	0.6		
			PP	20 15 50.0	6.4		

1987 6 10

O=22 09 40.5 ± 0.10s
 LAT=37.80 N ± 0.89km
 LONG=101.43 E ± 0.84km
 DEPTH= 9 km ± 0.44km
 STATIONS USED = 7, STAND DEV= 3.21s

M_L=2.9/7,

GTA	2.0	322	iPn	22 10 16.6	1.0		
			Pg	22 10 17.4	0.7		
			Sg	22 10 44.5	-0.2		
			SMN	M _L =3.0	0.6	0.11	
			SME		0.6	0.12	

LAT = 28.57 N \pm 1.75km
 LONG = 105.04 E \pm 1.61km
 DEPTH = 15 km \pm 0.64km
 STATIONS USED = 12, STAND DEV = 4.49s
 $M_L = 3.6 / 5,$

GYA	2.6	145	+Pn	12 27 29.0	5.6		
			Sn	12 28 01.4	5.6		
			SMN	$M_L = 3.3$	1.0	0.14	
			SME		1.0	0.16	
CD2	2.6	335	cPn	12 27 23.0	-0.8		
			Pg	12 27 27.6	0.0		
			Sg	12 27 56.7	-6.3		
			SMN	$M_L = 3.7$	0.5	0.34	
			SME		0.8	0.45	
XAN	6.4	30	cPn	12 28 16.6	0.6		
			Pg	12 28 37.0	2.3		
			Sg	12 29 55.1	-7.0		
			SMN	$M_L = 4.0$	1.0	0.090	
			SME		1.0	0.090	

1987 6 11
 O = 13 49 23.7 \pm 0.03s
 LAT = 28.74 N \pm 0.30km
 LONG = 104.92 E \pm 0.40km
 DEPTH = 15 km \pm 0.32km
 STATIONS USED = 5, STAND DEV = 2.59s
 $M_L = 2.6 / 3,$

CD2	2.4	335	cPg	13 50 06.7	0.6		
			Sg	13 50 35.0	-3.7		
			SMN	$M_L = 2.9$	0.8	0.070	
			SME		0.6	0.060	
GYA	2.7	145	Pn	13 50 08.0	0.2		
			Pg	13 50 15.8	3.6		
			Sg	13 50 51.4	1.7		
			SMN	$M_L = 2.6$	0.8	0.030	

1987 6 11
 O = 17 29 23.7 \pm 0.12s
 LAT = 26.15 N \pm 2.49km
 LONG = 93.51 E \pm 1.44km
 DEPTH = 34 km \pm 0.72km
 STATIONS USED = 34, STAND DEV = 2.15s

KMI	8.4	95	+P	17 31 28.5	2.3		
CD2	10.2	60	cP	17 31 51.2	0.5		
GYA	11.8	86	P	17 32 11.0	-1.9		
LZH	13.3	39	+iP	17 32 31.5	-1.2		
GTA	14.2	20	cP	17 32 43.2	-2.1		
XAN	15.5	56	cP	17 32 58.4	-2.8		
WMQ	18.2	346	P	17 33 38.9	2.6		
TIY	19.7	50	cP	17 33 53.4	-0.2		

BTO	19.9	39	cP	17 33 55.0	-0.4		
TIA	22.5	58	cP	17 34 24.0	2.1		
BJI	23.4	48	cP	17 34 37.0	6.2		

1987 6 11
 O = 18 30 02.8 \pm 0.09s
 LAT = 43.81 N \pm 1.13km
 LONG = 84.17 E \pm 0.88km
 DEPTH = 4 km \pm 0.03km
 STATIONS USED = 12, STAND DEV = 2.38s
 $M_L = 3.9 / 7,$

WMQ	2.6	89	Pn	18 30 47.2	1.8		
			Pg	18 30 48.6	0.6		
			Sg	18 31 21.1	-1.8		
GTA	12.5	105	cP	18 33 01.7	-3.0		
			LN		1.0	0.020	
			LE		1.0	0.020	
TIY	22.2	96	cP	18 35 05.8	3.7		

1987 6 11
 O = 18 52 21.8 \pm 0.10s
 LAT = 2.43 S \pm 6.08km
 LONG = 76.56 W \pm 12.74km
 DEPTH = 121 km
 STATIONS USED = 14, STAND DEV = 3.35s

TIY	143.9	348	cPKP	19 11 41.2	-2.9		
LZH	146.5	359	cPKP	19 11 49.0	0.3		
SSE	146.9	331	PKP	19 11 50.0	0.9		
XAN	148.1	351	-PKP	19 11 53.4	2.2		

1987 6 11
 O = 22 56 14.0 \pm 0.12s
 LAT = 39.31 N \pm 1.32km
 LONG = 106.92 E \pm 0.96km
 DEPTH = 17 km \pm 0.10km
 STATIONS USED = 10, STAND DEV = 2.86s
 $M_L = 3.2 / 10,$

BTO	2.7	61	Pg	22 57 00.2	-1.9		
			Sn	22 57 28.9	-2.6		
			Sg	22 57 37.0	-2.0		
			SMN	$M_L = 3.1$	0.4	0.070	
			SME		0.4	0.10	
HHC	3.9	65	-Pg	22 57 21.8	-1.0		
			Sg	22 58 12.0	-3.7		
			SMN	$M_L = 3.5$	0.4	0.090	
			SME		0.4	0.11	
LZH	4.0	218	Pg	22 57 25.0	-0.5		
			Sg	22 58 15.0	-5.5		
			SMN	$M_L = 3.4$	1.5	0.070	
			SME		1.5	0.080	

			sP	09 53 56.5	-3.9				BTO	18.2	329	-iP	09 54 56.0	-0.5			
			iS	09 54 35.0	-0.8							PMZ					3.0
WHN	8.6	308	+iP	09 53 04.0	0.8							sP	09 56 13.0	1.7			
			PMZ			1.0	0.30					S	09 58 06.0	0.7			
			S	09 54 40.0	1.3							LN			11.0	0.30	
			SME	$m_B = 4.9$		6.0	1.53					LE			11.0	0.30	
			LN			6.0	1.70		CN2	18.4	7	-iP	09 54 58.8	-0.1			
			LE			6.0	1.80					PMZ	$m_B = 5.4$		4.0	0.70	
QZN	13.2	243	+iP	09 54 01.0	1.2							sP	09 56 12.0	-2.5			
			PMZ	$m_B = 5.6$		5.0	1.80					cS	09 58 10.0	-0.7			
			esP	09 55 02.0	-3.3							SMN	$m_B = 4.9$		6.0	1.30	
			S	09 56 21.0	0.3				LZH	19.0	308	-iP	09 55 05.0	0.4			
DL2	13.4	358	+P	09 54 04.0	1.5							PMZ			1.5	0.28	
			PMZ			3.0	1.95					sP	09 56 18.0	-3.4			
			esP	09 55 08.0	-0.3							S	09 58 23.0	2.9			
			S	09 56 31.0	5.5							LN			7.0	2.29	
			SMN	$m_B = 5.1$		7.0	1.36					LE			6.0	3.85	
			SME			7.0	1.38		MDJ	20.0	15	-iP	09 55 15.0	0.7			
GYA	14.1	277	+P	09 54 11.0	0.2							S	09 58 44.0	5.8			
			PMZ			1.2	0.80					SMN	$m_B = 5.1$		6.0	1.62	
			sP	09 55 13.2	-4.1							ScS	10 06 12.0	3.2			
			S	09 56 44.4	4.1							LE			8.0	0.47	
			ScS	10 05 55.0	3.6				GTA	23.4	312	-iP	09 55 46.8	-0.6			
XAN	14.4	309	+iP	09 54 11.4	-3.0							PMZ	$m_B = 5.2$		5.0	0.52	
			sP	09 55 17.0	-4.4							PcP	09 59 26.4	0.6			
			S	09 56 47.0	0.0							S	09 59 36.4	-0.5			
			SMN	$m_B = 5.4$		10.0	3.00					SMN	$m_B = 5.0$		9.0	1.05	
			SME			7.0	2.88					SME			9.0	1.09	
			PcP	09 59 10.0	0.1							PcS	10 03 04.0	0.5			
TIY	14.8	328	-iP	09 54 20.0	0.7							ScS	10 06 23.6	2.4			
			PMZ	$m_B = 5.3$		4.0	0.80					LN			10.0	1.15	
			S	09 57 02.5	6.7							LE			11.0	1.23	
			SMN	$m_B = 5.2$		8.0	2.63		WMQ	33.5	312	-P	09 57 16.3	-0.6			
BJI	15.4	342	-P	09 54 26.0	-0.2							PMZ			1.5	0.12	
			PMZ			1.5	0.20					PcP	09 59 50.5	-0.2			
			eS	09 57 16.0	6.4							S	10 02 10.0	-6.7			
			SMN	$m_B = 4.8$		5.0	0.82					ScP	10 03 10.5	3.4			
SNY	16.3	4	-iP	09 54 35.5	-1.3							SS	10 04 38.0	-3.8			
			PMZ	$m_B = 5.4$		5.0	1.13					LE			24.0	1.38	
			sP	09 55 43.0	-4.2				KSH	41.0	302	-iP	09 58 22.0	2.3			
			S	09 57 32.0	2.7							sP	09 59 43.0	-4.7			
CD2	17.2	293	cP	09 54 44.6	-1.3							PP	10 00 03.0	1.6			
			S	09 57 47.0	1.3							S	10 04 14.0	3.7			
KMI	17.7	273	+P	09 54 51.5	0.5							sS	10 05 50.0	-1.0			
			S	09 57 58.0	3.0							LE			10.0	2.80	
			SME	$m_B = 5.1$		6.0	1.83										
HHC	17.7	332	-iP	09 54 52.0	0.4												
			S	09 58 02.5	6.4												
			SMN	$m_B = 5.1$		6.0	1.72										
			SME			6.0	0.83										

1987 6 12
 O = 09 58 56.4 ± 0.13s
 LAT = 6.77 S ± 3.13km
 LONG = 71.83 E ± 2.92km

DEPTH = 12 km ± 0.65km
STATIONS USED = 40, STAND DEV = 1.87s

GYA	47.2	44	P	10 07 32.2	0.3
LZH	52.2	33	eP	10 08 09.5	-0.2
GTA	52.7	27	-iP	10 08 13.4	-0.7
			pP	10 08 18.9	-0.8
XAN	53.7	38	eP	10 08 18.8	-1.9
WHN	55.1	45	eP	10 08 35.7	4.5
NJ2	59.1	46	+P	10 08 59.0	-0.9
SSE	60.3	49	eP	10 09 07.0	-1.2
			pP	10 09 12.7	-1.4
BJI	61.9	37	eP	10 09 19.0	-0.1
SNY	67.6	39	eP	10 09 54.0	-1.5
CN2	69.8	38	eP	10 10 08.0	-1.2
MDJ	72.8	39	eP	10 10 27.0	-0.2
			pP	10 10 31.8	-1.2

1987 6 12
O = 11 04 33.3 ± 0.11s
LAT = 24.11 N ± 1.51km
LONG = 125.23 E ± 1.57km
DEPTH = 33 km ± 0.31km
STATIONS USED = 37, STAND DEV = 1.86s
Ms = 4.2 / 5,

QZH	6.1	279	eP	11 06 02.0	-1.6
			eS	11 07 18.0	4.9
			LN	Ms=3.7	12.0 0.92
SSE	7.8	334	eP	11 06 28.5	0.7
			LN	Ms=4.0	16.0 0.98
			LE		20.0 1.40
XAN	17.3	308	eP	11 08 36.0	1.4
			LE	Ms=4.2	11.0 0.46
TIY	17.4	324	eP	11 08 38.8	3.1
			LN	Ms=4.2	11.0 0.50
BJI	17.6	336	eP	11 08 39.0	0.9
SNY	17.7	356	eP	11 08 40.0	0.6
CN2	19.6	0	eP	11 09 01.0	-1.2
CD2	20.2	294	eP	11 09 07.4	-0.9
LZH	22.0	308	eP	11 09 24.0	-2.5
GTA	26.3	311	P	11 10 07.4	-1.1
			LE	Ms=4.3	11.0 0.29

1987 6 12
O = 13 06 49.4 ± 0.11s
LAT = 49.68 S ± 4.91km
LONG = 117.31 E ± 3.32km
DEPTH = 11 km ± 1.60km
STATIONS USED = 46, STAND DEV = 1.85s
Ms = 5.1 / 2,

KMI	75.6	346	eP	13 18 38.0	0.9
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			pP	13 18 45.5	3.0
			eS	13 28 21.0	3.7
GYA	76.4	350	+P	13 18 42.0	0.5
			pP	13 18 48.0	1.0
WHN	79.9	357	eP	13 19 02.0	1.3
SSE	80.5	3	eP	13 19 08.0	4.2
			S	13 29 14.0	6.2
CD2	81.1	348	eP	13 19 07.4	0.1
NJ2	81.4	1	eP	13 19 07.8	-0.7
XAN	83.7	353	eP	13 19 19.8	-0.7
			pP	13 19 27.0	0.9
			S	13 29 40.0	-0.4
TIA	85.5	360	eP	13 19 29.7	0.0
LZH	86.2	349	-P	13 19 33.5	0.2
TIY	87.1	356	eP	13 19 36.0	-1.6
			pP	13 19 44.0	0.8
			eS	13 30 12.0	-3.8
BJI	89.3	359	eP	13 19 47.5	-0.7
GTA	90.0	347	-P	13 19 50.7	-0.9
SNY	91.3	5	eP	13 19 52.8	-4.4
CN2	93.4	6	eP	13 20 06.0	-0.8
			pP	13 20 13.0	0.5
			eS	13 31 12.0	-0.2
MDJ	94.5	9	eP	13 20 12.4	0.3
			pP	13 20 19.1	1.4
WMQ	96.6	339	+P	13 20 22.0	0.1

1987 6 12
O = 15 48 38.3 ± 0.06s
LAT = 40.16 N ± 0.82km
LONG = 105.78 E ± 0.56km
DEPTH = 10 km ± 0.36km
STATIONS USED = 12, STAND DEV = 2.21s
M_L = 3.4 / 8,

BTO	3.3	81	ePn	15 49 31.0	0.8
			Pg	15 49 37.0	0.9
			Sn	15 50 11.8	0.8
			Sg	15 50 18.4	-2.4
			SMN	M _L = 3.3	0.4 0.12
			SME		0.4 0.080
LZH	4.3	201	Pg	15 49 56.0	0.7
			eSn	15 50 44.0	6.4
			SMN	M _L = 3.6	1.5 0.10
			SME		1.0 0.12
HHC	4.5	79	Pg	15 49 59.2	1.8
			Sg	15 50 54.2	-4.0
GTA	4.7	263	Pn	15 49 50.3	1.1
			Pg	15 50 04.4	3.9
			Sn	15 50 43.7	-1.6
			Sg	15 51 04.0	-0.1

			eS	09 12 42.0	3.6			
KMI	44.4	310	+P	09 06 13.5	1.0			
XAN	45.8	325	+P	09 06 24.3	0.0			
			eS	09 13 06.0	1.3			
SNY	46.1	344	+P	09 06 26.0	-0.4			
			S	09 13 12.5	5.0			
			LN	Ms=4.8	20.0	0.66		
TIY	46.8	331	eP	09 06 32.5	0.9			
			LN	Ms=5.2	19.0	1.27		
			LE		19.0	0.83		
CD2	47.0	318	eP	09 06 33.6	0.4			
BJI	47.0	336	eP	09 06 33.0	-0.5			
			eS	09 13 24.0	2.7			
			LN	Ms=4.6	20.0	0.47		
MDJ	47.5	351	eP	09 06 37.0	-0.4			
CN2	47.5	347	eP	09 06 36.6	-0.8			
BTO	50.2	332	+P	09 06 58.0	-0.2			
			LN	Ms=4.9	16.0	0.50		
			LE		16.0	0.40		
LZH	50.3	323	-iP	09 06 59.5	0.8			
			PMZ		2.5	0.26		
GTA	54.8	323	+iP	09 07 33.0	0.1			
WMQ	64.8	322	+P	09 08 41.1	0.0			
			PMZ		2.0	0.17		
			eS	09 17 22.0	4.6			
KSH	70.9	313	+iP	09 09 21.0	1.7			

1987 6 13

O=10 40 16.6 ± 0.26s
 LAT=19.69 S ± 3.02km
 LONG=179.79 W ± 1.02km
 DEPTH=494 km ± 3.30km
 STATIONS USED = 72, STAND DEV = 1.82s

$m_B = 5.2 / 5$

SSE	75.9	311	eP	10 51 13.0	-0.7			
GZH	77.9	300	P	10 51 26.0	1.5			
NJ2	78.1	310	+iP	10 51 26.6	1.0			
MDJ	78.9	326	-P	10 51 30.7	0.7			
			pP	10 53 16.0	-0.9			
			S	11 00 52.0	5.5			
			SME	$m_B = 5.2$	8.0	0.47		
QZN	79.0	295	eP	10 51 28.5	-2.0			
			eS	11 00 49.0	-0.1			
DL2	80.0	317	eP	10 51 35.5	-0.2			
			S	11 01 03.5	5.7			
SNY	80.5	321	-P	10 51 38.0	-0.4			
			S	11 01 08.0	5.0			
WHN	80.6	307	P	10 51 40.7	1.7			
CN2	80.6	323	-iP	10 51 39.0	-0.1			
			PMZ		2.0	0.40		

			pP	10 53 29.0	2.5			
			eS	11 01 08.0	2.0			
			SME	$m_B = 5.3$	5.0	0.30		
TIA	81.5	313	-P	10 51 43.8	0.3			
BJI	84.1	316	eP	10 51 57.0	0.2			
			eSKS	11 01 32.0	2.1			
			eS	11 01 43.0	2.5			
GYA	84.8	300	P	10 52 01.0	0.9			
			SKS	11 01 40.0	5.8			
			S	11 01 52.0	6.9			
TIY	85.5	313	eP	10 52 04.1	0.7			
			PMZ		1.0	0.060		
XAN	86.3	308	-P	10 52 08.4	1.1			
			S	11 02 04.0	4.7			
KMI	87.5	298	-P	10 52 14.5	1.4			
HHC	87.6	315	eP	10 52 14.0	0.5			
BTO	88.5	314	eP	10 52 18.6	0.8			
CD2	88.9	303	eP	10 52 20.6	0.8			
LZH	90.9	308	-iP	10 52 30.5	1.4			
			PMZ		1.0	0.050		
GTA	95.2	310	-P	10 52 48.6	0.2			

1987 6 13

O=14 00 38.1 ± 0.07s
 LAT=44.81 N ± 1.91km
 LONG=150.20 E ± 1.23km
 DEPTH= 35 km ± 0.48km
 STATIONS USED = 93, STAND DEV = 1.22s

$m_B = 5.7 / 49,$ $m_B = 6.0 / 16$

MDJ	14.7	277	+P	14 04 05.0	0.0			
			PMZ		1.0	0.26		
			pP	14 04 08.0	-4.4			
			eS	14 06 45.0	-2.0			
			ScP	14 12 48.7	2.3			
			ScS	14 16 26.0	3.2			
CN2	17.7	275	+P	14 04 41.0	-3.1			
			PMZ	$m_B = 5.6$	5.0	1.50		
			eS	14 07 53.0	-5.2			
			LN	Ms=5.8	15.0	19.2		
			LE		15.0	12.0		
SNY	19.6	271	+iP	14 05 05.0	-1.0			
			PMZ		13.0	3.52		
			LN	Ms=5.3	16.0	5.47		
			LE		19.0	6.46		
DL2	22.0	264	+iP	14 05 30.0	-1.3			
			PMZ	$m_B = 5.8$	6.0	2.64		
			PP	14 05 57.0	0.0			
			S	14 09 27.0	0.4			
			SMN	$m_B = 6.0$	11.0	4.79		
			SME		11.0	3.39		

LAT=39.99 N ± 0.37km						NJ2	27.5	253	+P	15 46 55.0	-0.3		
LONG= 74.38 E ± 0.09km									LE	Ms=5.3	16.0	4.00	
DEPTH= 9 km ± 0.27km						HHC	28.4	276	+P	15 47 04.8	0.8		
STATIONS USED = 5, STAND DEV = 2.07s									eS	15 51 53.0	5.7		
ML=4.1/ 3,									SME	mB=5.8	8.0	1.72	
KSH	1.3	113	-Pg	15 11 46.4	-0.3				LN	Ms=5.4	12.0	2.93	
			iSg	15 12 03.0	-1.9				LE		14.0	2.86	
			SMN	ML=4.1	0.7	4.00	TIY	29.0	269	+P	15 47 10.4	0.8	
			SME		0.5	2.20			PMZ		1.2	0.080	
GTA	19.6	83	cP	15 15 54.6	0.5				LN	Ms=5.3	13.0	3.17	
1987 6 13						BTO	29.6	276	+P	15 47 14.0	-0.5		
O=15 41 10.2 ± 0.08s									pP	15 47 25.0	0.8		
LAT=44.82 N ± 2.20km									PP	15 48 11.0	0.4		
LONG=150.18 E ± 1.49km									S	15 52 06.0	0.9		
DEPTH= 37 km ± 0.55km									sS	15 52 19.5	-2.9		
STATIONS USED = 86, STAND DEV = 1.35s									LN	Ms=5.5	14.0	3.50	
Ms=5.3/ 40,									LE		16.0	4.20	
mB=5.5/ 11						WHN	31.5	255	P	15 47 31.5	0.6		
MDJ	14.6	276	cP	15 44 37.0	0.2				PMZ		3.0	0.50	
			pP	15 44 45.0	0.6				pP	15 47 45.0	4.4		
			SMN			16.0	3.27		iS	15 52 36.0	0.8		
CN2	17.7	275	eP	15 45 14.0	-2.0				SMN	mB=6.0	10.0	3.60	
			epP	15 45 23.0	-1.0				LN	Ms=5.3	17.0	3.40	
			eS	15 48 27.0	-2.8			QZH	32.3	243	P	15 47 39.0	0.5
			LN	Ms=5.5	16.0	12.6			pP	15 47 52.5	4.2		
SNY	19.6	271	+iP	15 45 37.5	-0.3				LN	Ms=5.3	19.0	2.57	
			PMZ	mB=5.3	11.0	1.61			LE		19.0	2.45	
			pP	15 45 48.5	2.1			XAN	33.3	266	+P	15 47 47.0	-0.2
			S	15 49 07.0	-3.5				pP	15 47 58.6	1.7		
			SMN	mB=5.3	12.0	1.31			PP	15 49 05.0	6.3		
DL2	22.0	264	P	15 46 03.0	-0.2				S	15 53 06.0	2.7		
			pP	15 46 10.0	-2.6				LN	Ms=5.3	14.0	2.05	
			PP	15 46 29.0	0.2				LE		14.0	1.37	
			S	15 50 04.0	5.9			LZH	35.9	272	+iP	15 48 10.5	1.0
			LN	Ms=5.1	12.0	2.00			PMZ		1.5	0.34	
			LE		12.0	1.71			pP	15 48 22.5	3.3		
BJI	25.4	271	eP	15 46 36.5	0.0				sP	15 48 27.0	3.6		
			PMZ	mB=5.5	8.0	0.93			PP	15 49 35.0	4.3		
			S	15 51 04.0	6.2				S	15 53 49.0	5.6		
			LE	Ms=5.1	18.0	3.34			sS	15 54 07.0	6.0		
TIA	26.4	263	+P	15 46 46.0	0.3				LN	Ms=5.5	15.0	3.04	
			esP	15 47 03.2	3.6				LE		18.0	2.87	
			LN	Ms=5.2	12.5	2.00		GTA	37.3	280	+iP	15 48 22.0	1.1
			LE		12.5	1.65			PMZ	mB=5.7	5.0	0.64	
SSE	26.5	249	-P	15 46 46.3	0.0				pP	15 48 34.0	3.4		
			PMZ			1.3	0.12		eS	15 54 09.5	4.0		
			pP	15 47 00.0	4.1				SMN	mB=5.2	10.0	0.48	
			ScS	15 57 30.0	-5.1				LN	Ms=5.5	16.0	3.75	
			LN	Ms=5.3	16.0	3.38		CD2	38.7	265	cP	15 48 32.4	-0.2
			LE		16.0	2.56			PcS	15 54 28.0	-4.0		

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LZH	32.6	325	+iP	05 32 32.0	-1.1		
			PMZ			1.6	0.19
CN2	33.2	359	eP	05 32 38.0	-0.3		
BTO	33.2	337	eP	05 32 38.4	-0.4		
MDJ	34.1	4	eP	05 32 47.1	0.7		
GTA	37.2	325	+iP	05 33 12.7	0.4		
			ScS	05 43 23.5	3.3		
			LE	Ms=5.5		15.0	3.38
WMQ	47.0	322	P	05 34 32.5	0.0		
			S	05 41 24.0	4.5		
			ScS	05 44 19.5	-0.4		
			LN	Ms=5.5		12.0	2.19
KSH	53.0	312	eP	05 35 19.0	0.4		

1987 6 14

O=05 28 05.2 ± 0.08s
 LAT=10.40 N ± 1.19km
 LONG=126.23 E ± 2.16km
 DEPTH=33 km ± 0.32km

STATIONS USED = 28, STAND DEV = 1.60s

QZN	18.0	300	eP	05 32 17.2	2.3		
SSE	21.1	348	+P	05 32 50.7	1.0		
			PMZ			1.7	0.25
			pP	05 32 57.8	-0.6		
			sP	05 33 01.5	-1.0		
NJ2	22.6	344	+iP	05 33 06.0	1.5		
DL2	28.7	353	eP	05 34 00.0	-1.7		
BJI	30.8	345	eP	05 34 20.0	-0.9		
			ScP	05 40 57.0	1.1		
			ScS	05 44 56.0	4.9		

1987 6 14

O=07 19 18.0 ± 0.11s
 LAT=21.15 N ± 1.77km
 LONG=94.70 E ± 1.27km
 DEPTH=126 km ± 0.63km

STATIONS USED = 68, STAND DEV = 1.73s

KMI	8.4	60	+iP	07 21 20.5	2.1		
GYA	12.2	62	eP	07 22 07.4	-1.0		
CD2	12.7	38	eP	07 22 17.2	2.2		
QZN	14.4	96	-P	07 22 41.6	4.6		
LZH	16.9	26	iP	07 23 08.0	-0.6		
			PMZ			1.5	0.050
			S	07 26 16.0	5.7		
GZH	17.4	80	eP	07 23 15.2	0.9		
XAN	18.0	41	P	07 23 19.6	-1.7		
			pP	07 23 35.5	3.4		
			S	07 26 34.0	0.1		
GTA	18.7	12	+iP	07 23 28.1	-1.7		
WHN	20.0	58	P	07 23 43.0	0.1		

			PMZ				
QZH	22.3	76	eP	07 24 07.0	1.0		
TIY	22.5	39	+P	07 24 08.3	-0.1		
			LN			12.0	0.21
WMQ	23.3	347	P	07 24 17.5	1.3		
NJ2	24.1	58	eP	07 24 22.8	-0.7		
KSH	24.3	323	-P	07 24 28.0	2.7		
			LN			6.0	0.30
TIA	24.7	48	eP	07 24 27.6	-1.1		
SSE	25.7	62	-P	07 24 38.5	0.0		
			PMZ			1.0	0.060
BJI	26.3	39	eP	07 24 42.5	-1.2		

1987 6 14

O=10 34 59.7 ± 0.14s
 LAT=25.91 N ± 1.19km
 LONG=102.82 E ± 1.07km
 DEPTH=9 km ± 0.41km

STATIONS USED = 14, STAND DEV = 3.66s

M_L=3.6/5,

KMI	0.8	186	-iPg	10 35 12.0	-1.9		
			Sg	10 35 22.0	-2.4		
			SMN	M _L =3.6		1.5	1.60
			SME			1.5	2.10
GYA	3.5	80	-Pn	10 35 56.8	2.0		
			Sn	10 36 35.2	-2.9		
			SME	M _L =3.1		1.2	0.060
CD2	5.1	9	ePn	10 36 18.6	2.5		
XAN	9.7	32	P	10 37 21.2	-1.3		

1987 6 14

O=15 56 34.9 ± 0.14s
 LAT=10.52 N ± 1.75km
 LONG=126.49 E ± 2.19km
 DEPTH=50 km ± 0.70km

STATIONS USED = 73, STAND DEV = 1.83s

M_s=4.6/24,

QZH	16.2	333	eP	16 00 19.0	-1.7		
			pP	16 00 32.5	2.5		
			cS	16 03 23.0	5.3		
			LN	Ms=4.1		13.0	0.55
GZH	17.7	317	eP	16 00 41.0	1.2		
			LN	Ms=4.6		15.0	1.04
			LE			15.0	1.12
QZN	18.2	300	eP	16 00 43.5	-1.9		
			LE	Ms=4.4		15.0	1.00
SSE	21.1	347	eP	16 01 17.0	-0.3		
			pP	16 01 25.0	-3.6		
			sP	16 01 33.5	-0.8		
			sS	16 05 19.0	-3.1		

			PP	18 35 04.0	0.7					CN2	33.3	359	cP	18 36 33.0	0.5				
			S	18 38 29.0	2.1								epP	18 36 41.0	-2.5				
			LN	Ms=4.5	16.0	1.06							cS	18 41 50.0	1.1				
NJ2	22.6	344	-P	18 34 58.6	3.8					BTO	33.3	337	P	18 36 32.5	-0.4				
			sP	18 35 10.0	-0.2								epP	18 36 39.0	-4.7				
			SME	m _B =5.4	8.0	1.00							PP	18 37 44.0	-0.5				
			LE	Ms=4.7	15.0	1.20							cS	18 41 48.0	-1.6				
WHN	22.9	333	cP	18 35 00.0	2.4								LN	Ms=5.0	16.0	0.80			
			pP	18 35 07.0	-1.1								LE		16.0	1.20			
			SMN	m _B =5.5	8.0	1.10				MDJ	34.2	4	cP	18 36 40.0	-0.5				
			LN	Ms=4.9	15.0	1.90							cS	18 42 03.0	-0.4				
GYA	24.4	314	P	18 35 12.8	0.2					GTA	37.3	325	+iP	18 37 05.8	-0.5				
			sP	18 35 24.0	-3.9								PMZ	m _B =5.4	5.0	0.32			
			LN	Ms=5.0	16.0	1.70							cPP	18 38 31.6	-1.9				
			LE		16.0	1.80							S	18 42 50.0	1.0				
KMI	26.7	306	+P	18 35 32.5	-1.2								ScP	18 43 11.0	4.2				
			S	18 40 01.5	-1.3								ScS	18 47 16.0	2.6				
			LN	Ms=4.8	16.0	1.35							LE	Ms=5.1	16.0	1.45			
TIA	27.0	344	+P	18 35 36.2	-0.4					WMQ	47.1	322	P	18 38 25.5	-0.9				
			cpP	18 35 44.0	-3.3								ScP	18 43 48.0	2.0				
			S	18 40 09.5	1.1								ScS	18 48 17.5	4.4				
			LN	Ms=4.6	13.0	0.76							LN	Ms=5.3	15.0	1.68			
XAN	28.4	329	+P	18 35 47.4	-1.7					KSH	53.1	312	cP	18 39 12.0	-0.3				
			pP	18 35 55.0	-4.8														
			S	18 40 30.0	-0.5														
			LN	Ms=4.9	16.0	1.15													
			LE		14.0	0.96													
DL2	28.7	353	+P	18 35 52.0	0.1														
CD2	29.2	318	cP	18 35 54.7	-1.6														
			LN	Ms=5.3	23.0	5.20													
TIY	29.9	338	-P	18 36 02.9	0.2														
			S	18 40 58.5	3.7														
			LN	Ms=5.1	18.0	1.81													
			LE		20.0	1.94													
BJI	30.9	345	cP	18 36 10.5	-0.6														
			pP	18 36 22.0	0.1														
			cS	18 41 10.0	-0.5														
			SME	m _B =5.1	7.0	0.29													
			ScP	18 42 48.0	3.7														
			ScS	18 46 46.0	6.4														
			LN	Ms=4.5	14.0	0.44													
SNY	31.4	356	+P	18 36 16.2	0.2														
			S	18 41 21.5	3.1														
			LN	Ms=4.9	18.0	1.18													
			LE		17.0	0.81													
LZH	32.7	325	+iP	18 36 26.5	-0.6														
			PMZ		2.0	0.12													
			LN	Ms=5.3	18.0	2.35													
			LE		17.0	2.07													
HHC	33.0	339	cP	18 36 30.0	0.0														

1987 6 14

O=20 58 21.6 ± 0.12s

LAT=10.42 N ± 2.17km

LONG=126.40 E ± 3.32km

DEPTH= 35 km ± 0.35km

STATIONS USED = 38, STAND DEV= 1.98s

QZN 18.1 300 cP 21 02 33.0 0.2

SSE 21.1 348 P 21 03 10.5 4.5

NJ2 22.6 343 -P 21 03 25.2 4.3

WHN 22.9 332 cP 21 03 25.5 1.4

GYA 24.5 313 P 21 03 39.0 -0.7

TIA 27.0 343 -P 21 04 01.8 -1.0

XAN 28.4 328 cP 21 04 14.8 -0.9

cS 21 09 04.0 4.6

TIY 29.9 337 cP 21 04 27.7 -1.4

BJI 30.9 345 cP 21 04 36.0 -1.2

BTO 33.4 337 cP 21 04 57.2 -2.1

MDJ 34.2 4 cP 21 05 06.0 -0.1

GTA 37.3 325 P 21 05 31.7 -1.3

WMQ 47.2 322 P 21 06 52.5 -0.7

1987 6 14

O=21 10 49.2 ± 0.18s

LAT=25.01 N ± 1.07km

LONG=121.39 E ± 1.15km

DEPTH= 17 km ± 0.10km

STATIONS USED = 6, STAND DEV = 1.63s									
M _L = 2.7 / 3,									
QZH	2.5	269	-iPn	21 11 30.1	-0.1				
			Sn	21 12 01.5	-1.0				
			SMN	M _L = 2.7	0.2	0.050			
			SME		0.2	0.040			
1987 6 15									
O = 00 18 50.3 ± 0.10s									
LAT = 7.11 S ± 1.57km									
LONG = 129.39 E ± 1.89km									
DEPTH = 141 km ± 0.52km									
STATIONS USED = 101, STAND DEV = 1.29s									
QZN	32.3	324	eP	00 25 08.6	-0.1				
			PcP	00 27 54.0	1.3				
			cS	00 30 13.0	1.6				
QZH	33.6	342	eP	00 25 18.5	-0.5				
GZH	33.9	333	eP	00 25 21.8	0.1				
SSE	38.8	349	eP	00 26 02.0	-1.2				
			PP	00 27 38.0	0.3				
			PcP	00 28 11.5	-0.2				
			sS	00 32 43.0	-1.1				
GYA	40.0	327	+P	00 26 13.0	-0.3				
			sP	00 26 58.4	-2.0				
			PcP	00 28 17.0	1.4				
			ScP	00 31 51.6	1.8				
			S	00 32 06.0	-1.2				
WHN	40.1	340	+iP	00 26 16.5	2.4				
			PMZ			1.0	0.17		
NJ2	40.2	346	+P	00 26 15.4	0.4				
			PcP	00 28 17.2	0.9				
			ScP	00 31 52.0	1.3				
KMI	41.2	322	+P	00 26 25.0	1.5				
TIA	44.6	346	+P	00 26 49.8	-0.8				
			PcP	00 28 31.5	0.6				
CD2	45.1	328	eP	00 26 53.2	-1.2				
XAN	45.3	336	+iP	00 26 55.0	-1.1				
			pP	00 27 28.0	0.6				
			PcP	00 28 34.0	0.7				
			PP	00 28 45.0	0.7				
			iScP	00 32 13.0	2.0				
			eS	00 33 24.0	-1.4				
			csS	00 34 23.0	2.7				
DL2	46.3	352	+P	00 27 04.0	-0.4				
TIY	47.3	342	+P	00 27 12.0	-0.1				
			PMZ			0.6	0.070		
			eS	00 33 51.5	-2.8				
BJI	48.5	346	+P	00 27 20.5	-0.5				
			PcP	00 28 45.0	0.4				
			ScP	00 32 25.5	1.1				
SNY	49.0	354	+iP	00 27 24.3	-0.6				
LZH	49.2	333	+iP	00 27 27.0	0.1				
			PMZ					1.5	0.14
HHC	50.5	342	+P	00 27 36.0	-0.3				
BTO	50.7	341	eP	00 27 37.4	-0.8				
CN2	50.8	356	+iP	00 27 37.0	-1.7				
			PMZ					3.0	0.30
			cpP	00 28 06.0	-4.7				
			cS	00 34 40.0	-2.5				
GTA	53.8	332	+iP	00 28 00.9	-0.1				
			PMZ					1.0	0.010
			PcP	00 29 05.6	1.4				
			ScP	00 32 45.0	-2.0				
			eScS	00 37 34.0	2.3				
WMQ	63.1	327	+iP	00 29 06.0	-0.1				
			pP	00 29 42.5	3.3				
			S	00 37 27.5	4.2				
KSH	67.7	318	+P	00 29 36.0	1.0				
			cS	00 38 16.0	-3.8				
			csS	00 39 14.0	-4.1				
1987 6 15									
O = 02 08 21.7 ± 0.12s									
LAT = 49.72 N ± 3.47km									
LONG = 157.36 E ± 2.60km									
DEPTH = 35 km ± 0.84km									
STATIONS USED = 50, STAND DEV = 1.73s									
M _s = 4.6 / 2,									
CN2	22.5	267	eP	02 13 16.0	-4.1				
			cS	02 17 14.0	-6.4				
SNY	24.7	264	-P	02 13 41.0	0.0				
DL2	27.5	261	eP	02 14 07.5	0.2				
BJI	30.4	267	eP	02 14 32.5	-0.7				
TIY	34.1	267	eP	02 15 06.6	0.8				
			LN					M _s = 4.6	16.0 0.52
WHN	37.4	256	eP	02 15 37.6	3.9				
XAN	38.6	265	eP	02 15 42.8	-0.9				
LZH	40.6	271	eP	02 15 59.0	-1.8				
GTA	41.3	278	P	02 16 07.0	0.6				
			PMZ					18.0	0.57
			LE					M _s = 4.7	17.0 0.53
CD2	44.0	265	eP	02 16 28.2	0.5				
GYA	45.1	258	P	02 16 42.0	4.9				
KMI	48.6	260	eP	02 17 05.5	1.2				
1987 6 15									
O = 06 22 46.4 ± 0.07s									
LAT = 10.31 N ± 1.07km									
LONG = 125.94 E ± 1.90km									
DEPTH = 85 km ± 0.56km									

STATIONS USED = 28, STAND DEV = 1.14s

SSE	21.2	349	P	06 27 27.0	0.4
NJ2	22.6	344	+P	06 27 43.2	2.2
TIA	27.0	344	cP	06 28 21.8	-0.9
XAN	28.3	329	P	06 28 33.8	-0.8
TIY	29.9	338	cP	06 28 49.2	0.7
LZH	32.6	326	cP	06 29 12.0	-0.2
GTA	37.2	326	+iP	06 29 52.0	0.5

1987 6 15

O=06 23 08.7 ± 0.37s

LAT=12.43 S ± 4.53km

LONG= 76.63 W ± 3.05km

DEPTH= 38 km ± 3.80km

STATIONS USED = 29, STAND DEV = 3.25s

DL2	149.0	332	+PKP	06 42 52.0	2.4
BJI	150.3	340	cPKP	06 42 52.0	0.5
BTO	151.3	349	PKP	06 42 59.0	5.7
GTA	152.9	6	PKP	06 43 02.8	7.2
TIA	153.3	335	PKP	06 42 56.2	0.3
TIY	153.6	344	+PKP	06 43 04.3	7.9

1987 6 15

O=06 31 44.2 ± 0.08s

LAT= 3.93 N ± 1.15km

LONG=126.05 E ± 1.58km

DEPTH=139 km ± 0.51km

STATIONS USED = 94, STAND DEV = 1.07s

QZN	21.8	315	cP	06 36 26.6	0.4
			PP	06 36 57.0	-1.3
			eS	06 40 10.0	-3.8
			SS	06 40 55.0	-6.7
			LE		13.0 0.59
GZH	22.7	328	+P	06 36 34.0	-0.5
			S	06 40 30.0	2.1
SSE	27.4	351	+P	06 37 19.5	0.5
			PMZ		1.0 0.030
			pP	06 37 49.0	1.0
			sP	06 38 00.5	-4.0
			LE		10.0 0.24
WHN	28.7	339	cP	06 37 31.5	1.0
NJ2	28.8	347	+P	06 37 30.6	-0.8
GYA	29.1	322	P	06 37 34.0	-0.3
			pP	06 38 04.0	0.7
			PcP	06 40 39.0	0.7
			S	06 42 16.0	2.2
			ScP	06 44 09.0	3.7
KMI	30.8	315	cP	06 37 49.5	0.3
TIA	33.2	347	+P	06 38 08.8	-1.0
XAN	33.9	334	+iP	06 38 15.1	-1.4

CD2	34.1	324	cS	06 43 24.0	-6.4
			cP	06 38 17.2	-0.5
			PMZ		0.6 0.10
DL2	35.0	354	+iP	06 38 26.0	0.2
TIY	35.9	341	cP	06 38 32.0	-0.8
BJI	37.0	347	cP	06 38 42.0	-0.6
			PcP	06 41 01.5	1.1
SNY	37.8	357	+iP	06 38 49.8	0.8
			cS	06 44 28.0	-1.3
LZH	38.0	330	+iP	06 38 51.5	0.7
			PMZ		1.5 0.16
			PcP	06 41 05.0	1.7
			S	06 44 32.0	0.7
HHC	39.0	342	cP	06 38 59.0	-0.1
BTO	39.3	341	cP	06 39 01.0	-0.3
CN2	39.7	359	+iP	06 39 04.8	0.0
			PMZ		3.0 0.30
			cpP	06 39 35.0	-0.3
			PcP	06 41 09.0	0.3
			cS	06 44 58.0	-0.1
MDJ	40.6	4	+iP	06 39 14.0	1.5
			PMZ		1.0 0.37
			PcP	06 41 12.5	0.8
			S	06 45 16.0	5.1
GTA	42.6	330	+iP	06 39 28.0	-0.5
			PcP	06 41 19.7	1.6
			ScS	06 49 17.0	5.1
			LE		13.5 0.25
WMQ	52.2	325	P	06 40 42.5	-0.6
			PMZ		1.5 0.10
			PcP	06 41 52.5	0.2
			PP	06 42 46.0	2.5
			ScS	06 50 17.5	2.8
KSH	57.4	315	+P	06 41 21.5	0.5

1987 6 15

O=15 30 53.4 ± 0.11s

LAT=35.57 N ± 2.37km

LONG=140.26 E ± 2.31km

DEPTH= 79 km ± 1.85km

STATIONS USED = 46, STAND DEV = 2.23s

MDJ	12.2	321	cP	15 33 49.0	3.4
CN2	14.0	310	cP	15 34 12.0	1.8
SNY	14.4	301	+iP	15 34 20.0	4.8
DL2	15.2	288	cP	15 34 27.6	2.4
TIA	18.8	279	cP	15 35 07.0	-1.8
BJI	19.5	290	cP	15 35 13.0	-4.3
WHN	22.3	264	cP	15 35 45.0	-0.1
TIY	22.4	284	cP	15 35 49.2	2.6
XAN	25.7	276	P	15 36 17.0	-1.5

GYA	30.1	262	P	15 36 56.0	-1.9
GTA	32.1	289	P	15 37 15.7	-0.3
WMQ	40.7	298	P	15 38 29.2	1.1

1987 6 15

O = 18 54 36.0 ± 0.20s
 LAT = 51.09 N ± 1.56km
 LONG = 176.19 W ± 1.26km
 DEPTH = 40 km ± 1.78km

STATIONS USED = 32, STAND DEV = 1.28s

CN2	39.2	283	cP	19 02 02.0	-0.5
SNY	41.4	281	+P	19 02 21.9	1.0
BJI	47.0	284	cP	19 03 06.0	0.1
			PcP	19 04 34.0	-3.2
HHC	49.3	288	cP	19 03 24.0	0.0
BTO	50.4	288	-iP	19 03 32.6	0.3
TIY	50.8	284	cP	19 03 35.0	0.1
XAN	55.3	283	cP	19 04 07.4	-1.2
LZH	57.0	288	-iP	19 04 21.0	-0.1
GTA	57.2	294	+P	19 04 20.2	-1.9
CD2	60.6	284	cP	19 04 46.0	0.0
GYA	62.0	278	P	19 04 56.4	1.3

1987 6 15

O = 21 05 10.8 ± 0.35s
 LAT = 19.05 S ± 1.35km
 LONG = 63.95 W ± 3.08km
 DEPTH = 583 km ± 3.75km

STATIONS USED = 67, STAND DEV = 1.79s

KSH	140.0	51	cPKP	21 23 28.0	-6.9
WMQ	145.7	38	-PKP	21 23 45.0	0.2
GTA	155.3	31	-iPKP	21 23 59.0	-0.2
SNY	156.4	346	+PKP	21 24 00.8	0.4
BTO	157.9	12	cPKP	21 24 03.0	0.5
HHC	157.9	9	cPKP	21 24 03.0	0.4
BJI	159.1	360	cPKP	21 24 04.0	0.3
			PKP ₂	21 24 43.0	
			cPP	21 28 25.0	-4.1
DL2	159.6	347	PKP	21 24 05.0	0.7
LZH	159.9	30	-iPKP	21 24 05.0	0.2
TIY	161.1	9	+PKP	21 24 07.0	1.1
TIA	162.9	357	PKP	21 24 08.5	0.9
XAN	163.8	22	PKP	21 24 09.0	0.4
CD2	163.8	41	cPKP	21 24 09.4	0.8
KMI	166.3	62	cPKP	21 24 11.0	0.1
NJ2	166.8	349	cPKP	21 24 11.5	0.5
GYA	168.6	48	PKP	21 24 12.6	0.3

1987 6 16

O = 06 17 28.8 ± 0.06s

LAT = 40.24 N ± 0.82km
 LONG = 112.83 E ± 0.46km
 DEPTH = 15 km ± 0.02km
 STATIONS USED = 6, STAND DEV = 2.55s

M_L = 3.0 / 5,

BTO	2.2	280	Pg	06 18 06.2	-1.3
			Sg	06 18 32.7	-4.4
			SMN	M _L = 3.3	0.3 0.25
			SME		0.3 0.16
BJI	2.6	93	Pg	06 18 13.5	-0.9
			Sg	06 18 47.0	-2.6
			SMN	M _L = 2.6	0.5 0.040
			SME		0.5 0.030

1987 6 16

O = 07 49 40.8 ± 0.11s
 LAT = 37.43 N ± 2.14km
 LONG = 140.20 E ± 1.39km
 DEPTH = 44 km ± 0.76km

STATIONS USED = 25, STAND DEV = 2.36s

M_s = 4.0 / 2,

MDJ	10.8	315	cP	07 52 16.5	1.1
CN2	12.9	304	cP	07 52 45.0	0.9
SSE	16.9	254	c(P)	07 53 41.0	4.7
BJI	18.9	285	cP	07 54 01.5	0.7

1987 6 16

O = 15 52 21.4 ± 0.19s
 LAT = 23.65 N ± 1.41km
 LONG = 118.21 E ± 1.30km
 DEPTH = 16 km

STATIONS USED = 6, STAND DEV = 2.05s

M_L = 3.5 / 5,

QZH	1.3	15	+Pn	15 52 45.8	-0.1
			Pg	15 52 47.0	1.9
			Sg	15 53 05.5	2.0
			SMN	M _L = 3.4	0.2 0.44
			SME		0.2 0.79
GZH	4.5	264	cPg	15 53 43.0	2.0
			Sg	15 54 37.8	-4.7
			SMN	M _L = 3.9	0.9 0.33
			SME		0.4 0.090

1987 6 16

O = 16 33 54.2 ± 0.07s
 LAT = 38.09 N ± 0.46km
 LONG = 119.26 E ± 0.52km
 DEPTH = 16 km ± 0.53km

STATIONS USED = 5, STAND DEV = 3.15s

M_L = 2.5 / 5,

TIA	2.5	223	cPn	16 34 33.6	-1.7
			Pg	16 34 43.8	4.7
			Sg	16 35 14.1	0.2
			SMN	$M_L = 2.4$	0.3 0.020
			SME		0.4 0.020

1987 6 16

O=17 11 33.7 ± 0.11s
 LAT= 6.87 S ± 1.45km
 LONG=130.22 E ± 2.45km
 DEPTH=100 km ± 0.68km
 STATIONS USED = 31, STAND DEV= 1.99s

QZN	32.6	322	cP	17 17 58.8	0.3
GYA	40.2	326	-P	17 19 03.0	0.3
KMI	41.5	321	cP	17 19 15.0	1.5
XAN	45.4	335	P	17 19 43.3	-1.3
LZH	49.4	332	cP	17 20 12.5	-3.3
GTA	54.0	331	P	17 20 49.5	-0.6
WMQ	63.4	327	P	17 21 55.5	0.0

1987 6 16

O=17 27 51.2 ± 0.12s
 LAT=28.51 N ± 1.60km
 LONG= 57.28 E ± 0.73km
 DEPTH= 42 km ± 0.42km
 STATIONS USED = 41, STAND DEV= 0.76s

KSH	18.9	50	cP	17 32 12.0	0.4
WMQ	28.7	50	P	17 33 48.0	0.8
LZH	39.8	67	iP	17 35 23.0	0.7
KMI	40.5	84	+P	17 35 29.0	0.4
XAN	44.1	69	P	17 35 56.6	-1.1
BTO	44.5	60	cP	17 36 01.0	0.3
HHC	45.6	59	cP	17 36 10.6	0.5
TIY	46.5	64	-P	17 36 16.8	-0.2
BJI	49.2	60	cP	17 36 37.5	-0.3
SNY	54.6	57	cP	17 37 16.4	-1.6
CN2	55.6	55	+P	17 37 24.5	-1.3
			pP	17 37 31.0	-6.0

1987 6 16

O=19 15 33.2 ± 0.44s
 LAT=19.83 S ± 3.10km
 LONG= 70.37 W ± 5.66km
 DEPTH= 66 km ± 3.47km
 STATIONS USED = 34, STAND DEV= 3.15s

WMQ	149.9	33	cPKP	19 35 09.0	-3.1
MDJ	150.2	331	cPKP	19 35 12.0	-0.6
CN2	152.7	335	cPKP	19 35 18.5	2.3
SNY	155.1	335	cPKP	19 35 15.6	-3.8
GTA	158.7	21	+PKP	19 35 24.9	0.6

TIY	162.0	353	cPKP	19 35 28.0	0.3
GYA	172.9	22	PKP	19 35 36.0	0.3

1987 6 16

O=20 09 42.4 ± 0.79s
 LAT=23.97 N ± 5.42km
 LONG=121.59 E ± 4.25km
 DEPTH= 15 km ± 0.09km
 STATIONS USED = 6, STAND DEV= 2.08s
 $M_L = 3.0 / 4,$

QZH	2.9	290	cPn	20 10 28.3	-0.1
			Sn	20 11 02.4	-2.5
			SMN	$M_L = 3.1$	0.3 0.12
			SME		0.3 0.050

1987 6 16

O=20 13 27.7 ± 0.66s
 LAT=34.68 N ± 3.42km
 LONG= 73.34 E ± 7.00km
 DEPTH= 14 km
 STATIONS USED = 14, STAND DEV= 2.75s
 $M_L = 3.9 / 1,$

KSH	5.2	23	cP*	20 14 56.0	1.4
			Sg	20 16 06.0	-5.0
WMQ	14.4	46	cP	20 16 54.0	0.7
GTA	21.6	70	P	20 18 21.0	1.0

1987 6 16

O=20 17 02.4 ± 0.08s
 LAT=23.00 S ± 2.27km
 LONG=176.48 W ± 1.70km
 DEPTH=163 km ± 1.20km
 STATIONS USED = 50, STAND DEV= 1.45s

SSE	80.4	310	c(P)	20 28 58.0	0.3
NJ2	82.5	309	+P	20 29 09.2	0.1
SNY	85.0	320	-P	20 29 21.0	-0.5
WHN	85.0	306	cP	20 29 24.0	2.3
CN2	85.1	322	-P	20 29 21.5	-0.6
			cS	20 39 39.0	2.1
			SMN		16.0 0.40
BJI	88.6	315	cP	20 29 39.0	0.0
GYA	89.1	299	P	20 29 42.4	1.1
TIY	90.0	311	+P	20 29 46.5	1.1
KMI	91.7	296	+P	20 29 55.5	1.8
GTA	99.6	309	P	20 30 29.2	-0.4

1987 6 16

O=22 04 06.2 ± 0.12s
 LAT=14.92 N ± 2.85km
 LONG= 55.79 E ± 1.97km

DEPTH = 10 km ± 0.09km
STATIONS USED = 52, STAND DEV = 1.71s

WMQ	39.6	37	P	22 11 42.5	2.4
KMI	45.1	69	cP	22 12 25.5	0.6
GTA	45.6	49	P	22 12 29.7	1.0
			pp	22 14 20.7	5.6
LZH	47.7	55	-iP	22 12 47.2	1.8
GYA	48.7	68	P	22 12 52.6	-0.6
XAN	51.4	58	P	22 13 12.6	-1.2
BTO	53.4	50	cP	22 13 29.0	-0.1
			pP	22 13 34.0	-0.4
			cS	22 20 59.0	-1.1
HHC	54.6	50	cP	22 13 39.0	1.1
TIY	54.7	54	+P	22 13 38.4	-0.4
BJI	57.9	52	cP	22 14 01.0	-0.7
NJ2	59.5	61	+P	22 14 13.6	0.8
SNY	63.7	51	cP	22 14 39.6	-1.2
CN2	65.2	48	+P	22 14 49.8	-0.7
			cpP	22 14 55.4	-0.7
MDJ	68.2	48	cP	22 15 06.0	-3.6

1987 6 17

O = 01 32 52.8 ± 0.11s

LAT = 5.58 S ± 1.38km

LONG = 131.04 E ± 2.01km

DEPTH = 71 km ± 0.50km

STATIONS USED = 99, STAND DEV = 1.18s

M_s = 6.9 / 48, m_B = 7.3 / 44

QZN	32.2	320	+iP	01 39 16.0	-0.3
			PMZ	m _B = 7.3	8.0 41.6
			PP	01 40 26.0	1.3
			PcP	01 42 04.5	1.2
			S	01 44 18.5	-3.6
			SMN	m _B = 7.2	9.0 20.8
			SME		10.0 64.1
			sS	01 44 49.5	-2.3
			LN	M _s = 6.9	14.5 104
			LE		16.0 71.8
QZH	32.7	339	+iP	01 39 20.0	-0.7
			PMZ	m _B = 7.2	7.0 26.8
			PP	01 40 30.0	-1.3
			SMN		15.0 59.9
			SME		19.0 99.9
			LN	M _s = 6.6	14.0 51.6
GZH	33.3	329	+iP	01 39 25.5	-0.9
			sP	01 39 52.5	0.6
			iS	01 44 35.0	-6.1
			SMN	m _B = 7.2	11.0 33.0
			SME		11.0 55.5
			LN	M _s = 6.9	12.0 39.8

SSE	37.7	346	-iP	01 40 04.0	0.8
			PMZ		1.0 1.03
			pP	01 40 25.0	4.8
			PcP	01 42 20.0	0.7
			iS	01 45 44.0	-3.8
			SMN	m _B = 7.3	8.0 37.5
			SME		8.0 34.3
			SS	01 48 30.0	4.9
			ScS	01 50 10.0	3.7
			LN	M _s = 6.8	14.0 24.2
			LE		14.0 59.3
NJ2	39.2	344	+iP	01 40 17.0	1.2
WHN	39.3	337	+iP	01 40 19.5	2.6
			PMZ		1.5 0.70
			LN	M _s = 6.6	12.0 33.9
GYA	39.7	325	+P	01 40 20.8	0.9
			PMZ	m _B = 6.8	6.0 9.30
			S	01 46 12.0	-5.0
			SMN	m _B = 7.1	10.0 37.4
			ScS	01 50 20.6	2.8
			LN	M _s = 7.0	15.0 108
			LE		16.0 54.0
KMI	41.1	319	+iP	01 40 33.5	1.6
			PMZ	m _B = 7.3	7.0 31.4
			PP	01 42 10.0	0.0
			ScP	01 46 12.0	-0.2
			PcS	01 46 20.0	0.2
			iS	01 46 36.0	-3.8
TIA	43.6	344	+iP	01 40 51.7	-0.2
			PMZ	m _B = 7.2	10.0 33.4
			PP	01 42 33.0	-2.5
			ScP	01 46 22.8	0.7
			SMN	m _B = 7.5	10.0 51.3
			SME		10.0 54.2
			sS	01 47 41.0	-4.3
			ScS	01 50 43.4	2.0
XAN	44.6	334	+iP	01 40 59.6	-0.8
			PMZ	m _B = 7.4	5.0 24.5
			sP	01 41 31.0	4.9
			PcP	01 42 42.0	0.1
			PP	01 42 46.0	0.1
			S	01 47 25.0	-4.8
			LN	M _s = 6.8	14.0 30.5
			LE		11.0 30.9
CD2	44.7	326	+iP	01 41 00.5	-0.5
			PMZ	m _B = 7.3	8.0 33.8
			S	01 47 26.0	-4.9
			LE	M _s = 7.1	11.0 72.4
DL2	45.1	350	+iP	01 41 05.0	0.7



			PMZ	$m_B = 7.2$	7.0	22.0				eSS	01 52 04.0	-2.1		
			PcS	01 46 36.0	0.0					LN	$M_s = 6.8$		16.0	38.0
			S	01 47 35.0	-1.9					LE			16.0	22.7
			SMN	$m_B = 7.5$	9.0	24.6	HHC	49.5	341	+iP	01 41 39.6	0.5		
			SME		8.0	59.3				PP	01 43 40.0	5.6		
			LN	$M_s = 7.4$	12.0	133				S	01 48 40.0	0.6		
			LE		13.0	117				SMN	$m_B = 7.3$		9.0	20.9
TIY	46.4	340	+iP	01 41 14.8	0.0					SME			8.0	30.2
			PMZ		0.9	0.84				ScS	01 51 14.0	-6.0		
			pP	01 41 32.0	0.0					LN	$M_s = 6.7$		12.0	22.3
			sP	01 41 39.0	-1.5					LE			12.0	21.6
			ScP	01 46 33.5	-0.3		MDJ	50.0	359	+iP	01 41 42.5	0.1		
			PcS	01 46 43.0	1.6					PMZ	$m_B = 7.2$		7.0	22.4
			S	01 47 52.0	-3.7					S	01 48 42.5	-3.1		
			SMN			15.0				SMN			15.0	57.8
			SME			10.0				ScS	01 51 25.0	2.0		
			LN	$M_s = 6.8$	13.0	33.5				SS	01 52 13.0	-2.8		
			LE		14.0	35.8	GTA	53.3	330	+iP	01 42 07.0	-0.1		
BJI	47.4	344	+iP	01 41 22.5	0.0					PMZ	$m_B = 7.3$		8.0	30.3
			PMZ	$m_B = 7.4$	6.0	27.0				iS	01 49 28.6	-3.2		
			PP	01 43 14.0	0.1					SME	$m_B = 7.3$		9.0	34.8
			S	01 48 08.0	-1.7					sS	01 50 06.0	4.1		
			SMN	$m_B = 7.2$	11.0	34.8				ScS	01 51 45.6	0.1		
			ScS	01 51 07.0	1.1					SS	01 53 07.0	-2.7		
			LN	$M_s = 6.8$	15.0	29.7				LE	$M_s = 6.8$		13.0	33.0
			LE		15.0	43.8	WMQ	62.8	326	+iP	01 43 14.0	0.2		
SNY	47.7	352	+iP	01 41 24.0	-0.4					S	01 51 30.0	-4.7		
			PMZ	$m_B = 7.3$	6.0	22.2				SMN	$m_B = 7.5$		8.0	21.7
			PP	01 43 10.0	-5.9					SME			8.0	51.5
			PcS	01 46 49.2	2.5					sS	01 52 07.0	0.1		
			S	01 48 12.0	-1.3					iScS	01 52 57.0	2.0		
			SMN			13.0				LN	$M_s = 6.9$		14.0	37.2
			SME			11.0			KSH	67.7	317	+iP	01 43 46.0	0.8
			ScS	01 51 10.4	2.8					PP	01 46 16.0	-0.1		
			LN	$M_s = 7.3$	11.5	114				iS	01 52 34.0	-2.0		
			LE		10.0	24.2				ScS	01 53 34.0	1.5		
LZH	48.7	330	+iP	01 41 33.0	0.6					LE	$M_s = 7.2$		18.0	74.0
			PMZ		2.0	3.75								
			PP	01 43 20.0	-5.6									
			S	01 48 25.0	-2.2									
			ScS	01 51 16.0	1.9									
			LN	$M_s = 6.9$	13.0	39.7								
			LE		13.0	34.8								
CN2	49.4	355	+iP	01 41 37.0	-0.9									
			PMZ	$m_B = 7.2$	6.0	19.1								
			ePP	01 43 33.0	0.0									
			S	01 48 35.0	-2.6									
			SMN	$m_B = 7.2$	12.0	31.3								
			SME		12.0	19.9								
			eScS	01 51 15.0	-4.1									

1987 6 17
 O = 03 24 55.2 \pm 0.85s
 LAT = 24.53 N \pm 3.05km
 LONG = 95.73 E \pm 6.74km
 DEPTH = 16 km
 STATIONS USED = 7, STAND DEV = 4.31s
 $M_L = 4.5 / 4,$

KMI	6.4	83	ePn	03 26 33.5	3.9		
			SMN	$M_L = 4.4$	1.5	0.26	
			SME		1.0	0.16	
GYA	10.1	77	P	03 27 24.0	1.3		

1987 6 17
 O=03 49 46.1 ± 0.15s
 LAT=38.23 N ± 1.33km
 LONG=119.49 E ± 1.75km
 DEPTH= 6 km ± 0.68km
 STATIONS USED = 5, STAND DEV = 4.18s
 M_L=2.5 / 5,
 TIA 2.8 224 cPg 03 50 33.5 -1.4
 Sg 03 51 07.2 -5.3
 SMN M_L=2.4 0.3 0.019
 SME 0.3 0.014

1987 6 17
 O=04 47 31.4 ± 0.06s
 LAT=38.05 N ± 0.63km
 LONG=119.39 E ± 0.54km
 DEPTH= 14 km ± 0.26km
 STATIONS USED = 7, STAND DEV = 2.52s
 M_L=2.5 / 6,
 TIA 2.6 225 cPn 04 48 11.6 -1.6
 Pg 04 48 18.7 1.8
 Sg 04 48 52.0 -0.2
 SMN M_L=2.4 0.3 0.022
 SME 0.3 0.020

1987 6 17
 O=08 16 25.4 ± 0.08s
 LAT= 5.97 S ± 1.10km
 LONG=154.87 E ± 1.62km
 DEPTH=120 km ± 0.86km
 STATIONS USED = 40, STAND DEV = 1.43s
 MDJ 55.2 338 +P 08 25 48.5 -0.3
 CN2 56.2 335 cP 08 25 55.0 -0.8
 BJI 58.0 326 cP 08 26 08.5 0.1
 XAN 58.9 316 cP 08 26 12.6 -1.9
 LZH 63.5 315 -iP 08 26 47.5 1.7
 PMZ 1.5 0.050
 GTA 67.9 317 -iP 08 27 15.6 1.7
 WMQ 78.0 317 cP 08 28 13.0 0.2
 KSH 85.2 310 P 08 28 54.4 3.7

1987 6 17
 O=08 44 36.6 ± 0.17s
 LAT=12.25 N ± 2.06km
 LONG=143.62 E ± 2.72km
 DEPTH= 32 km ± 0.50km
 STATIONS USED = 20, STAND DEV = 2.57s
 BJI 36.8 324 cP 08 51 44.0 0.6
 TIY 37.7 318 cP 08 51 51.4 0.4
 CD2 41.2 303 cP 08 52 21.0 0.8

GTA 47.2 313 cP 08 53 08.5 0.0
 WMQ 57.2 314 P 08 54 23.5 0.0

1987 6 17
 O=09 10 00.5 ± 0.15s
 LAT=38.16 N ± 1.31km
 LONG=119.50 E ± 0.74km
 DEPTH= 16 km
 STATIONS USED = 5, STAND DEV = 2.94s
 M_L=2.7 / 5,
 TIA 2.7 225 cPn 09 10 41.6 -2.4
 Pg 09 10 48.4 -0.1
 Sg 09 11 21.6 -4.1
 SMN M_L=2.4 0.3 0.020
 SME 0.3 0.016

1987 6 17
 O=16 32 22.2 ± 0.13s
 LAT= 5.53 S ± 2.10km
 LONG=152.70 E ± 2.78km
 DEPTH= 45 km ± 1.19km
 STATIONS USED = 25, STAND DEV = 2.00s
 CN2 54.9 336 cP 16 41 49.0 -2.3
 XAN 57.1 317 P 16 42 06.2 -0.7
 KMI 57.3 304 +P 16 42 09.5 0.8
 CD2 59.1 311 cP 16 42 21.4 0.1
 LZH 61.7 316 cP 16 42 39.0 0.2
 GTA 66.1 317 cP 16 43 07.8 0.0
 WMQ 76.2 318 P 16 44 08.5 0.1
 KSH 83.3 311 P 16 44 49.5 2.8

1987 6 17
 O=18 13 26.1 ± 0.02s
 LAT=38.58 N ± 0.16km
 LONG=104.72 E ± 0.12km
 DEPTH= 8 km ± 0.03km
 STATIONS USED = 5, STAND DEV = 0.69s
 M_L=3.0 / 2,
 LZH 2.6 196 Pg 18 14 12.0 0.0
 Sn 18 14 43.4 1.2
 GTA 3.9 284 Pg 18 14 35.5 0.1
 Sg 18 15 28.1 -0.5
 SMN M_L=2.6 0.8 0.020
 SME 0.6 0.010

1987 6 17
 O=18 17 50.1 ± 0.13s
 LAT=21.63 N ± 2.11km
 LONG=121.39 E ± 1.92km
 DEPTH= 21 km ± 0.79km

STATIONS USED = 49, STAND DEV = 2.04s
 $M_s = 4.2 / 5$, $M_L = 3.6 / 4$

QZH	4.2	323	ePn	18 18 54.4	1.1		
			eSn	18 19 37.5	-6.0		
GZH	7.6	283	ePn	18 19 41.0	0.9		
WHN	10.9	326	eP	18 20 26.5	-1.8		
			S	18 22 26.0	-4.4		
			LN	$M_s = 3.9$	10.0	0.50	
QZN	11.1	259	eP	18 20 33.5	1.9		
			eS	18 22 38.6	2.0		
GYA	14.3	293	P	18 21 14.0	0.2		
XAN	16.5	321	P	18 21 42.8	-0.2		
			LN	$M_s = 4.2$	10.0	0.47	
TIY	17.8	336	eP	18 22 00.6	1.9		
			LN	$M_s = 4.4$	11.0	0.56	
			LE		10.0	0.35	
BJI	18.9	348	eP	18 22 12.5	0.5		
HHC	20.9	339	eP	18 22 34.0	-0.1		
BTO	21.2	336	eP	18 22 37.0	-0.5		
			epP	18 22 42.0	-2.2		
			eS	18 26 25.0	-3.0		
			LN	$M_s = 4.2$	12.0	0.30	
			LE		12.0	0.20	
CN2	22.4	8	eP	18 22 49.5	0.8		
GTA	25.6	319	P	18 23 20.2	0.2		
			LN	$M_s = 4.1$	11.0	0.22	
WMQ	35.6	316	P	18 24 49.5	0.8		

1987 6 17
 $O = 22 06 05.3 \pm 0.19s$
 $LAT = 18.24 S \pm 6.01km$
 $LONG = 172.77 W \pm 4.75km$
 $DEPTH = 46 km \pm 0.97km$
 STATIONS USED = 40, STAND DEV = 2.27s
 $m_B = 5.6 / 3$

MDJ	81.6	322	eP	22 18 19.5	-1.4		
DL2	83.6	314	+P	22 18 30.0	-0.9		
			eS	22 28 53.5	5.2		
CN2	83.6	320	+P	22 18 29.0	-2.2		
			PMZ	$m_B = 5.6$	4.5	0.30	
			SMN	$m_B = 5.7$	6.0	0.30	
			SME		6.0	0.20	
SNY	83.8	318	+P	22 18 31.5	-0.3		
WHN	85.2	304	eP	22 18 41.6	2.7		
BJI	87.8	313	P	22 18 52.5	0.6		
			eS	22 29 24.0	-5.6		
TIY	89.5	310	eP	22 19 00.4	0.4		
			SME	$m_B = 5.3$	10.0	0.29	
GYA	89.9	298	P	22 19 02.8	1.0		
XAN	90.8	306	P	22 19 06.5	0.7		

HHC	91.4	313	eP	22 19 08.4	-0.4		
BTO	92.4	312	eP	22 19 12.8	-0.5		
KMI	92.8	295	-P	22 19 18.0	2.7		
1987 6 18							
				$O = 05 16 35.3 \pm 0.07s$			
				$LAT = 39.23 N \pm 2.04km$			
				$LONG = 143.09 E \pm 1.68km$			
				$DEPTH = 50 km \pm 1.50km$			
STATIONS USED = 65, STAND DEV = 1.67s $M_s = 4.8 / 19$							
MDJ	11.4	303	eP	05 19 18.0	-0.4		
			pP	05 19 23.5	-2.2		
CN2	14.0	295	P	05 19 53.0	0.4		
			pP	05 19 57.0	-4.6		
			eS	05 22 30.0	3.5		
DL2	16.7	276	-P	05 20 30.0	2.8		
			LN	$M_s = 4.5$	12.0	0.40	
			LE		12.0	1.03	
SSE	19.6	252	+P	05 21 02.4	-0.2		
			PMZ		1.0	0.030	
			pP	05 21 10.0	-3.3		
			sS	05 24 54.0	2.2		
			LN	$M_s = 4.3$	12.0	0.52	
BJI	20.7	281	eP	05 21 12.5	-1.7		
TIA	20.7	270	eP	05 21 12.2	-2.2		
			eS	05 24 52.5	-5.3		
			LN	$M_s = 4.6$	14.0	0.59	
			LE		14.0	1.01	
NJ2	20.9	257	eP	05 21 14.5	-1.8		
			LE	$M_s = 4.9$	15.0	2.40	
TIY	24.0	276	eP	05 21 49.0	2.3		
			LN	$M_s = 4.8$	12.0	0.69	
			LE		11.0	0.92	
WHN	25.0	259	+P	05 21 56.5	-0.1		
			PMZ		1.2	0.20	
			eS	05 26 18.0	3.6		
			LN	$M_s = 4.6$	14.0	0.90	
BTO	25.3	284	eP	05 21 59.0	-0.5		
			ePP	05 22 38.0	-0.3		
			eS	05 26 21.0	1.5		
			LN	$M_s = 5.0$	16.0	0.60	
			LE		16.0	2.10	
XAN	27.8	270	P	05 22 21.8	-0.4		
			LE	$M_s = 4.8$	12.0	1.03	
LZH	31.1	277	eP	05 22 51.5	0.0		
			LN	$M_s = 5.0$	12.0	1.09	
			LE		12.0	0.83	
GYA	32.9	258	+P	05 23 07.2	-0.5		
			ScP	05 29 24.8	-3.8		

DL2	29.4	321	cP	02 44 23.0	3.5		
MDJ	29.8	337	cP	02 44 22.8	-0.3		
CN2	30.8	331	cP	02 44 31.0	-1.4		
BJI	33.5	318	cP	02 44 55.0	-0.4		
			eS	02 50 19.0	6.6		
XAN	36.2	304	P	02 45 17.6	-1.2		
GYA	36.6	291	cP	02 45 22.6	0.3		
GTA	44.7	308	+P	02 46 29.5	0.2		
			PP	02 48 12.0	-2.5		
			LE			Ms=4.8	17.0 0.61
WMQ	54.5	311	cP	02 47 44.0	-0.4		
			PcP	02 48 47.5	1.4		

1987 6 19

O=03 58 16.5 ± 0.10s
 LAT=17.62 N ± 1.38km
 LONG=145.20 E ± 2.12km
 DEPTH= 41 km ± 0.36km

STATIONS USED = 13, STAND DEV = 2.30s

SSE	25.6	306	cP	04 03 42.0	-1.8		
BJI	33.6	318	cP	04 04 55.0	-0.3		
CD2	39.8	297	cP	04 05 47.6	-0.2		
LZH	40.9	305	cP	04 05 57.5	0.8		
GTA	44.8	309	cP	04 06 29.5	0.5		
			PP	04 08 12.0	-2.5		

1987 6 19

O=07 01 57.1 ± 0.13s
 LAT=18.10 N ± 1.76km
 LONG=145.17 E ± 1.96km
 DEPTH= 36 km ± 0.27km

STATIONS USED = 44, STAND DEV = 1.51s

Ms=4.4 / 2,

SSE	25.3	305	P	07 07 20.5	-1.6		
			PMZ			1.0	0.030
			pP	07 07 28.0	-3.5		
			sP	07 07 34.0	-1.7		
			eS	07 11 39.0	-4.2		
NJ2	27.5	305	cP	07 07 42.0	-0.5		
MDJ	29.5	337	cP	07 08 00.0	-0.4		
BJI	33.2	317	cP	07 08 33.0	-0.2		
			eS	07 13 56.0	6.1		
XAN	36.0	303	P	07 08 55.6	-1.6		
GYA	36.5	290	P	07 09 02.0	0.7		
BTO	37.6	314	cP	07 09 11.6	1.0		
CD2	39.6	297	P	07 09 26.6	-0.3		
WMQ	54.3	311	P	07 11 23.0	0.1		

1987 6 19

O=11 15 02.0 ± 0.08s

LAT=38.25 N ± 0.53km
 LONG=115.94 E ± 0.66km
 DEPTH= 18 km ± 0.42km
 STATIONS USED = 5, STAND DEV = 3.98s
 M_L=2.5 / 5,

BJI	1.8	6	Pg	11 15 35.0	1.2		
			SMN		M _L =2.1	0.5	0.020
			SME			0.5	0.020
TIA	2.2	155	Pg	11 15 42.1	0.2		
			Sg	11 16 12.0	-0.7		
			SMN		M _L =2.5	0.3	0.030
			SME			0.3	0.040
TIY	2.8	260	Pn	11 15 49.4	2.5		
			Pg	11 15 54.2	2.3		
			Sg	11 16 27.8	-2.8		
			SMN		M _L =2.6	0.6	0.020
			SME			0.6	0.030

1987 6 19

O=11 42 59.8 ± 0.07s
 LAT=10.68 S ± 0.96km
 LONG=162.43 E ± 0.63km
 DEPTH=127 km ± 0.92km

STATIONS USED = 17, STAND DEV = 1.22s

CN2	63.8	331	P	11 53 21.0	-0.3		
BJI	66.2	323	cP	11 53 36.5	-0.2		
XAN	67.5	314	P	11 53 44.9	-0.1		

1987 6 19

O=18 45 43.4 ± 0.13s
 LAT=37.25 N ± 2.66km
 LONG= 28.51 E ± 1.72km
 DEPTH= 74 km ± 0.37km

STATIONS USED = 59, STAND DEV = 1.19s

WMQ	44.6	62	P	18 53 52.5	1.6		
			PMZ			1.5	0.040
			PP	18 55 40.5	4.1		
			S	19 00 24.0	3.9		
GTA	54.6	64	P	18 55 07.2	-0.1		
LZH	58.9	66	cP	18 55 38.0	0.4		
CD2	61.1	72	cP	18 55 52.8	-0.2		
BTO	61.3	59	cP	18 55 54.0	-0.1		
KMI	63.2	78	cP	18 56 06.0	-0.9		
			eS	19 04 30.5	-1.1		
XAN	63.5	66	P	18 56 08.2	-0.6		
TIY	64.3	61	+P	18 56 13.8	0.0		
GYA	65.6	75	P	18 56 21.2	-0.9		
BJI	65.7	57	cP	18 56 23.0	-0.1		
			eS	19 05 06.0	3.7		
TIA	68.3	60	cP	18 56 39.0	-0.2		

		eS	19 05 37.0	3.7
SNY	69.7	53 -P	18 56 47.2	-0.4
CN2	69.8	50 +P	18 56 48.0	-0.4
		epP	18 57 06.0	-1.4
		eS	19 05 50.0	-0.9
NJ2	71.7	63 eP	18 57 00.0	0.1
QZN	72.0	80 eP	18 57 03.6	1.8

1987 6 19

O = 19 00 04.3 ± 0.20s
 LAT = 21.21 S ± 2.06km
 LONG = 68.55 W ± 2.95km
 DEPTH = 76 km ± 1.47km
 STATIONS USED = 74, STAND DEV = 1.44s

$m_B = 5.7 / 1$

KSH	144.7	51 -PKP	19 19 33.0	-0.5
WMQ	150.0	36 cPKP	19 19 41.0	-1.3
		PKP ₂	19 19 47.0	
MDJ	152.3	331 ePKP	19 19 45.0	-0.5
		PKP ₂	19 20 03.0	
CN2	154.6	336 PKP	19 19 47.0	-1.8
		ePP	19 23 43.0	-6.7
		cSKKS	19 30 18.0	
SNY	157.0	336 +PKP	19 19 52.0	0.1
		PKP ₂	19 20 23.5	
GTA	159.3	26 -PKP	19 19 54.5	-0.4
		PKP ₂	19 21 03.0	
DL2	160.3	336 cPKP	19 19 55.0	-0.8
HHC	160.4	360 cPKP	19 19 55.8	-0.3
BTO	160.6	3 ePKP	19 19 56.5	0.2
BJI	160.8	349 cPKP	19 19 56.5	0.2
		PKP ₂	19 20 36.0	
		ePP	19 24 20.0	-3.6
TIY	163.5	357 PKP	19 20 00.5	1.4
		PKP ₂	19 20 51.0	
		PP	19 24 34.5	-3.6
		SKKS	19 31 16.5	
		SS	19 44 53.0	-3.3
LZH	163.8	23 cPKP	19 20 00.0	0.6
TIA	164.3	343 PKP	19 20 00.4	0.6
SSE	166.8	320 -PKP	19 20 06.0	4.0
		PKP ₂	19 21 06.0	
		PP	19 24 52.0	-2.9
		SS	19 45 32.0	2.2
XAN	167.0	9 PKP	19 20 02.0	-0.2
NJ2	167.3	330 PKP	19 20 02.8	0.5
		PKP ₂	19 21 06.5	
CD2	168.1	34 PKP	19 20 03.8	1.0
WHN	170.3	345 +PKP	19 20 06.2	2.1
		PP	19 25 08.0	-4.5

		PPMZ	$m_B = 5.7$	
KMI	171.1	62 cPKP	19 20 04.5	-0.3
QZH	172.4	301 cPKP	19 20 06.0	0.7
		PP	19 25 20.0	-3.0
GYA	173.2	39 PKP	19 20 06.0	0.0
QZN	177.4	145 cPKP	19 20 03.6	-3.2
		ePP	19 25 50.0	3.6

1987 6 19

O = 21 00 21.2 ± 0.47s
 LAT = 17.90 S ± 2.66km
 LONG = 69.39 W ± 2.32km
 DEPTH = 128 km ± 3.75km
 STATIONS USED = 33, STAND DEV = 2.46s

WMQ	147.7	32 PKP	21 19 49.0	0.0
		PKP ₂	21 19 52.0	
MDJ	149.0	333 cPKP	21 19 50.0	-0.9
CN2	151.3	337 -PKP	21 19 58.8	4.4
GTA	156.6	21 PKP	21 20 01.6	-0.2
XAN	163.9	5 PKP	21 20 09.6	-0.2
GYA	170.7	23 PKP	21 20 15.0	0.1

1987 6 20

O = 00 53 03.8 ± 0.10s
 LAT = 49.99 N ± 1.30km
 LONG = 78.67 E ± 1.57km
 DEPTH = 2 km ± 0.28km
 STATIONS USED = 98, STAND DEV = 1.33s

$M_s = 4.8 / 12,$

WMQ	8.7	132 +iP	00 55 13.0	-1.4
		S	00 56 53.0	-1.3
		LN		2.0 10.8
KSH	10.7	191 cP	00 55 41.0	-0.6
GTA	18.3	117 -iP	00 57 20.0	-1.1
		PMZ		2.0 1.10
		LN	$M_s = 4.9$	6.0 1.15
LZH	22.9	118 +iP	00 58 11.0	0.3
		PMZ		1.5 0.90
		S	01 02 22.0	5.9
		LN	$M_s = 4.8$	8.0 0.63
		LE		7.0 0.67
CD2	26.8	126 +iP	00 58 48.4	1.1
		PMZ		0.8 0.73
TIY	27.0	104 +iP	00 58 50.5	0.8
		PMZ		0.8 0.17
XAN	27.3	114 +iP	00 58 52.0	-0.2
		LN	$M_s = 4.8$	10.0 0.86
BJI	28.1	96 +iP	00 58 59.5	0.6
		PcP	01 02 14.0	0.6
		eS	01 03 50.0	7.0

			eS	10 08 46.0	1.4			
			SMN	$m_B = 5.2$	8.0	0.24		
			SME		8.0	0.26		
TIY	34.5	311	eP	10 03 42.0	1.8			
			LN	$M_s = 4.8$	14.0	0.65		
			LE		14.0	0.55		
XAN	35.8	304	P	10 03 49.7	-1.7			
GYA	36.3	290	+P	10 03 55.4	0.2			
BTO	37.5	314	eP	10 04 04.0	-1.2			
			epP	10 04 11.5	-1.7			
			ePP	10 05 31.0	-2.0			
			eS	10 09 51.0	-1.2			
			LN	$M_s = 4.5$	15.0	0.40		
CD2	39.4	297	P	10 04 20.9	-0.2			
KMI	39.7	288	eP	10 04 24.5	0.3			
			pP	10 04 31.0	-1.1			
			eS	10 10 31.0	4.4			
			LN	$M_s = 4.6$	10.0	0.30		
LZH	40.4	305	+P	10 04 30.5	0.7			
GTA	44.4	308	+P	10 05 02.2	0.1			
			pP	10 05 10.3	0.1			
			PP	10 06 52.5	5.9			
			LE	$M_s = 4.8$	15.0	0.51		
WMQ	54.2	311	eP	10 06 17.0	-0.6			

1987 6 20

O = 10 23 19.2 ± 0.21s
 LAT = 18.11 N ± 3.09km
 LONG = 145.52 E ± 4.36km
 DEPTH = 34 km ± 0.47km

STATIONS USED = 16, STAND DEV = 2.82s

BJI	33.4	317	eP	10 29 57.5	0.0		
GYA	36.8	290	P	10 30 26.6	0.4		
CD2	39.9	297	eP	10 30 50.6	-1.1		
LZH	40.8	305	eP	10 31 00.0	0.0		
GTA	44.8	308	eP	10 31 31.4	-0.6		
			ePP	10 33 15.4	-2.0		

1987 6 20

O = 17 43 57.9 ± 0.13s
 LAT = 17.91 N ± 1.75km
 LONG = 145.04 E ± 2.75km
 DEPTH = 35 km ± 0.32km

STATIONS USED = 45, STAND DEV = 1.73s

$M_s = 4.6 / 3,$

DL2	29.2	321	+P	17 50 04.0	5.3		
WHN	30.6	300	eP	17 50 11.2	0.2		
BJI	33.3	318	eP	17 50 33.5	-1.2		
			pP	17 50 41.5	-2.7		
XAN	36.0	304	eP	17 50 56.8	-1.3		

GYA	36.4	290	P	17 51 01.2	-0.6		
BTO	37.6	314	eP	17 51 12.0	0.1		
CD2	39.5	297	eP	17 51 26.5	-1.2		
KMI	39.9	288	eP	17 51 31.5	0.8		
LZH	40.6	305	eP	17 51 37.0	0.6		
GTA	44.5	308	eP	17 52 08.5	-0.2		
			pP	17 52 15.5	-2.8		
			PP	17 53 51.3	-2.4		
WMQ	54.3	311	P	17 53 24.4	0.3		

1987 6 20

O = 18 13 10.9 ± 0.11s
 LAT = 51.74 N ± 4.77km
 LONG = 173.88 W ± 2.13km
 DEPTH = 26 km ± 0.90km

STATIONS USED = 31, STAND DEV = 2.08s

CN2	40.5	283	eP	18 20 49.8	0.3		
			eS	18 26 56.0	-0.8		
SNY	42.7	282	eP	18 21 08.7	0.7		
BTO	51.6	289	eP	18 22 18.0	0.3		
XAN	56.6	284	P	18 22 53.7	-0.7		
GTA	58.2	295	P	18 23 05.0	-1.2		
CD2	61.9	285	eP	18 23 30.8	-0.2		
GYA	63.3	279	P	18 23 41.4	0.7		

1987 6 20

O = 19 19 21.5 ± 0.45s
 LAT = 23.62 N ± 2.70km
 LONG = 121.61 E ± 2.49km
 DEPTH = 15 km ± 0.14km

STATIONS USED = 5, STAND DEV = 3.00s

$M_L = 2.9 / 2,$

QZH	3.1	296	-iPn	19 20 10.5	0.8		
			iSn	19 20 45.2	-2.7		
			SMN	$M_L = 3.0$	0.2	0.050	
			SME		0.3	0.060	

1987 6 20

O = 21 35 23.1 ± 0.10s
 LAT = 39.33 N ± 1.03km
 LONG = 117.91 E ± 0.76km
 DEPTH = 12 km ± 0.56km

STATIONS USED = 5, STAND DEV = 3.74s

$M_L = 2.4 / 5,$

BJI	1.5	299	Pn	21 35 47.5	-2.9		
			Sg	21 36 05.0	-5.6		
			SMN	$M_L = 2.0$	0.5	0.020	
			SME		0.5	0.020	
TIA	3.2	191	ePg	21 36 17.3	-2.0		
			Sg	21 36 56.5	-6.1		

SMN		$M_L = 2.0$		0.2 0.0050		sS		00 12 21.0		-3.6	
SME				0.2 0.0050		LN		$M_S = 5.0$		14.0 1.80	
1987 6 20											
O = 21 45 28.5		± 0.12s				LE				15.0 1.80	
LAT = 21.36 S		± 1.30km				QZH		23.9 341		cP 00 07 50.0 -4.6	
LONG = 170.31 E		± 0.93km				S		00 12 04.0		1.4	
DEPTH = 180 km		± 1.44km				SME				16.0 1.76	
STATIONS USED = 36, STAND DEV = 1.04s						GZH		24.5 329		+P 00 08 00.0 -0.4	
DL2	75.3	323	-P	21 56 54.0	-0.2	PMZ		$m_B = 5.9$		4.0 2.05	
MDJ	75.5	331	cP	21 56 54.8	-0.3	sP		00 08 27.7		2.8	
CN2	76.8	328	-P	21 57 01.6	-0.9	cS		00 12 14.5		1.1	
				21 57 50.0	4.7	SME		$m_B = 6.0$		6.0 2.05	
GYA	77.9	305	P	21 57 08.6	0.0	SSE		29.2 350		P 00 08 43.0 -0.2	
				21 57 15.0	-0.7	pP		00 08 55.0		-4.4	
				21 57 58.5	-0.2	sP		00 09 04.0		-4.0	
BJI	79.2	321	cP	22 07 06.0	6.2	cS		00 13 28.0		-1.3	
				21 57 19.4	-1.1	LN		$M_S = 4.7$		16.0 0.89	
				21 57 23.0	1.4	WHN		30.5 338		cP 00 08 56.0 0.7	
XAN	80.3	312	P	21 57 21.7	0.1	NJ2		30.6 346		-P 00 08 56.0 0.3	
				21 57 46.7	1.4	pP		00 09 13.5		1.6	
LZH	84.9	312	+iP	21 57 46.7	1.4	S		00 13 46.5		-4.2	
				21 58 07.0	0.5	LE		$M_S = 4.7$		11.0 0.56	
				21 58 07.0	0.5	GYA		30.9 323		P 00 08 58.4 -0.5	
1987 6 20											
O = 22 49 04.4		± 0.13s				pP		00 09 13.0		-2.1	
LAT = 17.90 N		± 1.82km				S		00 13 55.6		-0.6	
LONG = 145.33 E		± 2.55km				SS		00 16 18.0		-4.1	
DEPTH = 37 km		± 0.35km				LE		$M_S = 4.5$		14.0 0.48	
STATIONS USED = 27, STAND DEV = 1.93s						TIA		35.0 346		-P 00 09 34.2 0.5	
BJI	33.5	317	cP	22 55 41.0	-1.6	XAN		35.8 334		+P 00 09 40.0 -0.9	
				22 56 05.5	-0.9	S		00 15 11.0		-0.8	
XAN	36.2	304	P	22 56 10.6	0.4	DL2		36.8 353		+P 00 09 50.0 1.0	
				22 56 18.0	-1.9	sP		00 10 12.5		-1.7	
GYA	36.7	290	P	22 56 36.4	0.4	iS		00 15 30.0		2.4	
				22 56 44.5	-0.1	LN		$M_S = 4.7$		13.0 0.53	
BTO	37.8	314	cP	22 57 15.2	-1.6	TIY		37.7 341		cP 00 09 57.0 0.2	
				22 57 59.6	-2.5	sP		00 10 20.0		-2.0	
CD2	39.8	297	cP	22 58 32.0	0.1	PP		00 11 32.0		6.1	
				22 58 59.6	-2.5	S		00 15 45.0		4.3	
LZH	40.8	305	cP	22 58 59.6	-2.5	ScP		00 15 55.5		3.0	
				22 58 32.0	0.1	LE		$M_S = 4.6$		11.0 0.37	
GTA	44.8	308	cP	22 58 32.0	0.1	BJI		38.8 347		+P 00 10 07.0 0.8	
				22 58 32.0	0.1	cS		00 15 58.0		-0.9	
WMQ	54.6	311	P	22 58 32.0	0.1	SMN		$m_B = 5.4$		8.0 0.53	
				22 58 32.0	0.1	SNY		39.5 356		+P 00 10 12.0 0.4	
1987 6 21											
O = 00 02 46.0		± 0.13s				sP		00 10 34.5		-2.5	
LAT = 2.28 N		± 1.71km				PP		00 11 40.0		-6.9	
LONG = 126.92 E		± 2.24km				cS		00 16 03.0		-5.8	
DEPTH = 70 km		± 0.23km				LE		$M_S = 4.8$		26.0 1.11	
STATIONS USED = 89, STAND DEV = 1.48s						LZH		39.8 330		+iP 00 10 15.0 0.2	
$M_S = 4.7 / 16,$		$m_B = 5.6 / 9$				QZN		23.6 316		cP 00 07 52.0 0.5	
sP		00 08 12.5		-3.5		S		00 11 59.0		2.0	

			LN	$M_s = 4.8$	12.0	0.91			PP	05 57 52.0	0.5		
			LE		12.0	1.11			S	06 03 34.0	4.9		
MDJ	22.9	11	cP	01 54 18.0	1.3				SME	$m_B = 6.1$	11.0	3.17	
			cS	01 58 23.0	1.6				LN	$M_s = 6.7$	14.0	15.3	
GTA	26.7	315	P	01 54 53.0	-0.6				LE		16.0	26.4	
			cS	01 59 27.5	0.4			TIA	56.1	286	+iP	05 55 47.5	-0.5
			LE	$M_s = 4.7$	12.0	0.80			PcP	05 56 45.0	0.1		
WMQ	36.8	315	P	01 56 22.6	0.7				PP	05 57 51.0	-2.8		
									S	06 03 34.0	1.5		
1987 6 21													
O = 05 46 08.5 ± 0.07s													
LAT = 54.39 N ± 2.07km													
LONG = 162.68 W ± 1.15km													
DEPTH = 30 km ± 0.32km													
STATIONS USED = 99, STAND DEV = 0.94s													
$M_s = 6.6 / 50,$ $m_B = 6.5 / 37$													
MDJ	43.4	286	+iP	05 54 10.0	-1.0			BTO	56.9	295	+iP	05 55 53.4	-0.1
			PMZ	$m_B = 6.1$	8.0	2.49			PMZ	$m_B = 6.5$	7.0	4.00	
			sP	05 54 21.0	-2.5				pP	05 56 00.0	-2.3		
CN2	46.3	288	+iP	05 54 33.4	-0.3				PcP	05 56 51.0	3.2		
			PMZ	$m_B = 6.6$	5.0	4.40			S	06 03 40.0	-2.3		
			sP	05 54 47.4	1.2				ScS	06 05 40.0	4.1		
			PP	05 56 20.0	-1.8				LN	$M_s = 6.7$	13.0	10.5	
			S	06 01 15.0	-2.0			SSE	57.5	279	+iP	05 55 58.0	0.0
SNY	48.6	287	+iP	05 54 52.0	0.2				PMZ		1.2	0.32	
			PMZ	$m_B = 6.6$	6.0	5.33			pP	05 56 09.5	2.6		
			sP	05 55 03.0	-1.4				sP	05 56 14.5	3.9		
			PcP	05 56 17.0	0.1				PcP	05 56 56.0	5.6		
			PP	05 56 46.0	2.0				PP	05 58 05.0	-1.5		
			S	06 01 44.0	-6.0				PcS	06 00 54.0	3.9		
			ScS	06 04 43.5	4.9				S	06 03 48.0	-3.0		
			LN	$M_s = 6.6$	18.0	23.5			sS	06 04 10.0	3.1		
			LE		19.0	25.6			LN	$M_s = 6.2$	17.0	5.12	
DL2	51.7	285	+iP	05 55 15.0	-0.3				LE		21.0	9.72	
			PcP	05 56 30.0	1.9			TIY	57.6	291	+iP	05 55 59.1	0.2
			PP	05 57 12.5	-0.3				PMZ		1.2	0.41	
			ScP	06 00 23.0	2.0				sP	05 56 12.0	0.6		
			S	06 02 31.0	-1.6				PcP	05 56 50.0	-0.8		
			ScS	06 05 02.0	2.6				S	06 03 58.5	6.0		
			LN	$M_s = 6.7$	19.0	30.0			SMN	$m_B = 6.1$	9.0	1.81	
			LE		18.0	28.0			SME		9.0	1.67	
BJI	53.9	290	+P	05 55 32.0	-0.1				ScS	06 05 46.0	4.4		
			PMZ		1.0	0.13			LN	$M_s = 6.6$	19.0	28.4	
			cS	06 03 02.0	-2.3			NJ2	58.2	282	+iP	05 56 02.0	-0.4
			SMN	$m_B = 6.2$	10.0	1.90			PMZ	$m_B = 6.5$	6.0	3.40	
			SME		11.0	2.40			S	06 03 59.5	0.2		
			LN	$M_s = 6.7$	20.0	34.1			LN	$M_s = 6.3$	19.0	14.0	
			LE		20.0	17.5		WHN	61.8	284	+iP	05 56 28.7	1.0
HHC	55.9	294	+iP	05 55 46.4	0.1				PMZ		1.0	0.40	
			PMZ	$m_B = 6.6$	5.0	3.86			sP	05 56 38.0	-2.5		

June, 1987



O = 10 09 00.9 ± 0.18s
 LAT = 57.05 S ± 3.81km
 LONG = 66.22 W ± 7.90km
 DEPTH = 29 km ± 1.05km
 STATIONS USED = 30, STAND DEV = 3.40s

KMI	147.1	161	cPKP	10 28 40.0	-0.4
GYA	149.0	168	PKP	10 28 44.0	0.7
KSH	149.8	109	PKP	10 28 48.0	3.4
WHN	153.5	181	cPKP	10 28 51.3	1.4
XAN	156.8	170	cPKP	10 28 52.0	-2.3
GTA	160.1	147	PKP	10 28 55.8	-2.7
BJI	162.9	186	(PKP)	10 29 03.0	1.9

1987 6 21
 O = 12 28 51.2 ± 0.13s
 LAT = 21.00 S ± 3.20km
 LONG = 174.35 W ± 2.30km
 DEPTH = 116 km ± 1.45km
 STATIONS USED = 24, STAND DEV = 2.24s

MDJ	82.9	323	cP	12 41 04.5	-0.8
CN2	84.8	321	cP	12 41 13.0	-1.8
BJI	88.7	314	cP	12 41 35.0	1.6
GYA	89.9	298	P	12 41 45.0	5.7
TIY	90.2	311	c(P)	12 41 43.5	2.9
XAN	91.2	306	cP	12 41 47.0	1.8
GTA	99.9	308	cP	12 42 27.7	2.4

1987 6 21
 O = 16 18 12.9 ± 0.18s
 LAT = 18.03 N ± 2.62km
 LONG = 145.10 E ± 3.49km
 DEPTH = 35 km ± 0.36km
 STATIONS USED = 79, STAND DEV = 2.05s
 Ms = 4.7 / 13,

SSE	25.3	305	cP	16 23 36.0	-1.9
			PMZ		1.0 0.050
			pP	16 23 46.5	-0.6
			sP	16 23 53.0	1.7
			cS	16 28 05.0	6.1
			sS	16 28 12.0	-2.3
			LN	Ms=4.5	11.0 0.47
QZH	25.6	290	cP	16 23 44.5	3.8
			S	16 28 08.0	4.8
			LN	Ms=4.6	14.0 0.84
NJ2	27.5	306	cP	16 23 59.5	1.2
			LE	Ms=4.7	11.0 0.73
DL2	29.1	320	cP	16 24 15.0	1.8
			cS	16 29 04.0	2.3
MDJ	29.5	337	cP	16 24 17.5	0.9
SNY	30.0	327	+P	16 24 23.4	2.5

			LN	Ms 4.6	16.0 0.76
WHN	30.6	300	cP	16 24 27.5	1.6
CN2	30.6	331	+P	16 24 26.0	0.1
			eS	16 29 24.0	-0.3
TIA	30.6	312	cP	16 24 27.0	0.6
BJI	33.2	317	cP	16 24 48.0	-1.2
			eS	16 30 10.0	4.1
TIY	34.6	311	cP	16 25 01.4	-0.1
			S	16 30 32.0	4.9
			sS	16 30 48.5	4.6
			SS	16 32 45.0	4.6
			LN	Ms=4.7	14.0 0.37
			LE		13.0 0.39
XAN	36.0	303	cP	16 25 07.4	-5.5
GYA	36.4	290	P	16 25 16.2	-0.6
			PcP	16 27 43.8	3.7
HHC	36.7	315	cP	16 25 19.0	0.3
BTO	37.6	314	P	16 25 26.0	-0.5
			PP	16 26 50.5	-4.4
			eS	16 31 11.0	-2.6
			LN	Ms=4.6	12.0 0.20
			LE		14.0 0.30
CD2	39.5	297	cP	16 25 41.2	-1.4
			cS	16 31 48.0	5.2
			LE	Ms=4.9	22.0 1.24
KMI	39.9	288	cP	16 25 46.0	0.2
			S	16 31 52.0	4.9
LZH	40.5	305	+P	16 25 51.0	-0.2
			PMZ		2.0 0.17
GTA	44.5	308	P	16 26 22.5	-1.0
			PcP	16 28 09.0	2.9
			cS	16 32 56.0	-0.2
			LE	Ms=4.8	16.0 0.65
WMQ	54.3	311	+iP	16 27 38.0	-0.7
			S	16 35 10.0	-1.6
KSH	62.8	306	cP	16 28 41.0	3.0
			cS	16 37 08.0	4.6

1987 6 21
 O = 20 10 53.9 ± 0.10s
 LAT = 32.43 N ± 1.25km
 LONG = 137.26 E ± 1.65km
 DEPTH = 409 km ± 2.15km
 STATIONS USED = 42, STAND DEV = 1.44s

MDJ	13.6	336	cP	20 13 52.6	-0.7
CN2	14.7	324	cP	20 14 05.5	0.6
TIY	21.0	291	-P	20 15 09.3	1.5
XAN	23.7	282	P	20 15 33.0	-0.4
GYA	27.2	265	P	20 16 03.0	-2.0
LZH	27.8	287	iP	20 16 09.0	-0.8

CD2	28.5	276	eP	20 16 14.6	-1.3
GTA	31.0	294	P	20 16 37.0	-0.4
WMQ	40.1	301	eP	20 17 55.5	1.9

1987 6 21

O=22 24 42.4 ± 0.13s
 LAT=23.89 N ± 1.87km
 LONG=125.33 E ± 1.89km
 DEPTH= 23 km ± 0.55km
 STATIONS USED = 37, STAND DEV = 1.86s
 Ms=3.6 / 4,

QZH	6.2	281	Pn	22 26 14.3	0.7		
			LN			Ms=3.5	16.0 0.83
SSE	8.1	334	eP	22 26 40.0	-1.3		
			LE			Ms=3.5	16.0 0.45
DL2	15.3	349	eP	22 28 22.7	3.8		
XAN	17.5	309	P	22 28 45.5	-2.0		
TIY	17.7	324	eP	22 28 49.9	0.9		
			eS	22 32 03.5	0.4		
			LE			Ms=3.8	13.0 0.23
BJI	17.9	337	eP	22 28 52.0	0.6		
SNY	17.9	356	eP	22 28 51.3	-1.2		
CN2	19.9	0	eP	22 29 14.0	-1.1		
CD2	20.4	295	eP	22 29 19.8	-0.8		
HHC	20.5	329	eP	22 29 20.3	-1.5		
KMI	20.6	278	eP	22 29 24.5	1.4		
BTO	21.0	326	eP	22 29 30.0	2.3		
GTA	26.5	312	P	22 30 20.0	-1.1		

1987 6 22

O=03 07 10.7 ± 0.06s
 LAT= 1.36 N ± 1.53km
 LONG=125.91 E ± 3.11km
 DEPTH= 30 km ± 0.10km
 STATIONS USED = 10, STAND DEV = 1.58s

CD2	36.1	327	eP	03 14 12.2	-0.1
XAN	36.2	336	eP	03 14 12.2	-0.8

1987 6 22

O=03 42 41.5 ± 0.13s
 LAT=39.84 N ± 0.86km
 LONG=106.32 E ± 1.38km
 DEPTH= 9 km ± 0.51km
 STATIONS USED = 5, STAND DEV = 3.53s

						ML=2.8 / 5,	
BTO	2.9	74	Pn	03 43 27.4	-1.4		
			Pg	03 43 37.7	4.4		
			Sn	03 44 05.4	-0.5		
			Sg	03 44 10.8	-2.6		
			SMN			ML=2.8	0.3 0.040

						SME		
TIY	5.2	112	Pg	03 44 16.0	2.0			
			Sg	03 45 20.1	-5.2			
			SMN			ML=3.1	0.4 0.020	

1987 6 22

O=05 16 32.9 ± 0.18s
 LAT=27.61 S ± 1.59km
 LONG=178.42 W ± 3.04km
 DEPTH=289 km ± 0.72km
 STATIONS USED = 80, STAND DEV = 1.08s

						mb=5.5 / 11	
QZH	80.1	305	-iP	05 28 12.0	-0.7		
			cS	05 37 49.0	-3.3		
			sS	05 39 53.0	4.1		
SSE	82.0	311	+P	05 28 22.5	-0.3		
			PMZ				1.0 0.050
			sP	05 30 00.0	0.1		
			S	05 38 06.0	-4.3		
			sS	05 40 14.0	4.8		
QZN	83.5	295	+P	05 28 31.0	0.7		
NJ2	84.2	311	-iP	05 28 33.5	-0.2		
			PMZ			mb=5.8	4.0 0.71
			sP	05 30 16.0	5.0		
			S	05 38 30.5	-1.1		
MDJ	86.1	326	-iP	05 28 43.5	0.1		
			PMZ			mb=5.7	4.0 1.01
			pP	05 29 52.0	0.9		
			sP	05 30 20.0	-0.9		
			S	05 38 52.0	1.5		
			SMN			mb=5.1	8.0 0.33
			sS	05 40 52.0	1.2		
WHN	86.4	307	-iP	05 28 46.5	1.9		
			PMZ				1.1 0.070
DL2	86.7	317	-P	05 28 46.0	0.0		
			PMZ				3.0 0.86
			pP	05 29 55.5	1.7		
			SKS	05 38 43.0	1.4		
			S	05 38 58.0	2.4		
			SME			mb=5.5	6.0 0.67
SNY	87.4	321	-iP	05 28 49.0	-0.6		
			S	05 39 07.0	4.3		
			sS	05 41 06.0	2.6		
CN2	87.7	323	-iP	05 28 50.0	-1.0		
			PMZ			mb=5.6	4.0 1.00
			pP	05 29 59.0	0.2		
			eS	05 39 03.0	-4.0		
			SME			mb=5.4	6.0 0.50
			esS	05 41 03.0	-3.2		
TIA	87.8	313	-P	05 28 52.0	0.6		

DEPTH = 16 km \pm 0.49km
 STATIONS USED = 18, STAND DEV = 3.79s
 Ms = 4.1 / 2,
 SSE 6.6 285 cP 17 38 05.0 -3.1
 LN Ms = 4.0 16.0 2.22
 XAN 17.3 290 cP 17 40 33.2 1.0
 GTA 25.6 300 cP 17 41 58.0 -1.9
 LN Ms = 4.3 15.0 0.42

1987 6 22

O = 18 54 08.5 \pm 0.05s
 LAT = 30.60 N \pm 0.56km
 LONG = 102.69 E \pm 0.48km
 DEPTH = 13 km \pm 0.28km
 STATIONS USED = 8, STAND DEV = 3.05s

M_L = 3.3 / 3,
 CD2 1.0 71 +iPg 18 54 25.8 0.0
 Sg 18 54 39.3 0.3
 SMN M_L = 3.3 0.4 0.85
 SME 0.3 0.50
 GYA 5.4 139 cPg 18 55 43.0 -1.3
 SMN M_L = 3.3 1.0 0.030

1987 6 22

O = 19 09 59.8 \pm 0.09s
 LAT = 43.95 N \pm 1.06km
 LONG = 86.74 E \pm 0.59km
 DEPTH = 13 km \pm 0.34km
 STATIONS USED = 8, STAND DEV = 1.82s

M_L = 3.9 / 6,
 WMQ 0.7 100 +iPg 19 10 13.8 1.2
 Sg 19 10 26.0 3.7
 GTA 10.8 110 cP 19 12 36.5 -0.8
 LN 1.2 0.020
 LE 1.0 0.010

1987 6 22

O = 19 19 35.5 \pm 0.24s
 LAT = 13.76 N \pm 1.05km
 LONG = 120.88 E \pm 1.04km
 DEPTH = 150 km \pm 2.13km
 STATIONS USED = 25, STAND DEV = 1.56s

WHN 17.8 341 cP 19 23 35.0 0.3
 GYA 18.4 316 P 19 23 39.6 -1.9
 XAN 22.9 334 P 19 24 27.7 0.3
 CD2 23.2 320 cP 19 24 30.2 -0.2
 LZH 27.0 328 +iP 19 25 06.2 0.5
 PMZ 1.5 0.070
 GTA 31.6 328 +iP 19 25 46.0 -0.6

1987 6 22

O = 19 23 34.1 \pm 0.26s
 LAT = 7.66 N \pm 5.98km
 LONG = 82.06 W \pm 4.11km
 DEPTH = 6 km \pm 2.19km
 STATIONS USED = 35, STAND DEV = 3.53s

WMQ 127.9 9 cPKP 19 42 47.5 5.1
 KSH 128.9 22 cPKP 19 42 51.0 6.8
 GTA 133.1 358 cPKP 19 42 53.5 1.2
 XAN 137.2 347 PKP 19 43 03.4 3.6
 GYA 145.0 346 PKP 19 43 11.6 -2.1
 KMI 147.1 352 cPKP 19 43 19.5 2.2
 QZN 151.0 336 cPKP 19 43 25.1 1.9

1987 6 23

O = 00 08 21.8 \pm 0.02s
 LAT = 40.47 N \pm 0.18km
 LONG = 122.11 E \pm 0.15km
 DEPTH = 5 km \pm 0.00km
 STATIONS USED = 5, STAND DEV = 0.83s

M_L = 2.8 / 5,
 DL2 1.6 193 cPg 00 08 50.0 -0.3
 Sg 00 09 11.2 -1.1
 SMN M_L = 2.8 0.4 0.12
 SME 0.4 0.13
 SNY 1.7 39 +iPg 00 08 52.3 -0.5
 Sg 00 09 14.8 -1.8
 SMN M_L = 3.0 0.4 0.19
 SME 0.4 0.090

1987 6 23

O = 04 27 44.8 \pm 0.10s
 LAT = 11.47 S \pm 1.52km
 LONG = 166.50 E \pm 1.98km
 DEPTH = 61 km \pm 1.38km
 STATIONS USED = 57, STAND DEV = 1.11s

Ms = 5.0 / 3,

SSE 60.7 316 cP 04 37 52.3 -0.4
 PMZ 0.6 0.020
 NJ2 62.8 315 -P 04 38 07.4 0.2
 MDJ 65.1 332 cP 04 38 21.3 -0.5
 TIA 66.4 318 cP 04 38 29.6 -0.9
 LN Ms = 4.9 18.0 0.35
 LE 18.0 0.29
 CN2 66.5 329 +P 04 38 30.0 -0.8
 pP 04 38 45.0 -1.1
 cS 04 47 14.0 -1.0
 GYA 69.3 304 P 04 38 48.0 -0.4
 BJI 69.3 321 cP 04 38 48.0 -0.2
 TIY 70.4 317 P 04 38 55.5 0.4

STATIONS USED = 49, STAND DEV = 1.92s															
Ms = 4.8 / 6, M _L = 5.1 / 4,															
KSH	2.2	136	-iPn	02 30 21.0	2.2		NJ2	74.5	314	-P	03 42 08.0	-0.3			
			SMN			6.0	31.7			S	03 51 43.0	4.5			
WMQ	10.5	70	eP	02 32 12.5	-3.6					SME			13.0	4.10	
			LN			Ms = 4.9	7.0	3.22	WIIN	76.7	310	cP	03 42 22.0	0.9	
GTA	19.7	86	+iP	02 34 15.2	0.0					S	03 52 09.0	5.9			
			LN			Ms = 4.6	12.0	0.72		SMN		m _B = 6.0	10.0	1.30	
			LE				12.5	0.72	MDJ	76.8	329	cP	03 42 20.5	-1.2	
CD2	26.0	103	cP	02 35 17.6	0.5					PP	03 45 09.0	-6.0			
BTO	27.1	79	eP	02 35 28.0	0.3					eS	03 52 08.0	2.2			
			eS	02 40 00.0	-3.7					SME		m _B = 6.4	12.0	3.81	
			LN			Ms = 4.6	15.0	0.50	DL2	77.0	321	-P	03 42 23.0	-0.1	
			LE				15.0	0.50		PMZ		m _B = 6.1	5.0	1.22	
GYA	30.6	108	P	02 36 01.2	2.5					S	03 52 13.0	6.1			
BJI	31.8	78	cP	02 36 10.0	0.1					SME		m _B = 6.5	10.0	3.91	
										LN		Ms = 6.2	20.0	4.10	
										LE			18.0	6.15	
1987 6 24															
O = 03 30 31.0 ± 0.20s															
LAT = 21.13 S ± 3.59km															
LONG = 173.63 E ± 3.79km															
DEPTH = 34 km ± 0.78km															
STATIONS USED = 88, STAND DEV = 1.96s															
Ms = 6.3 / 41, m _B = 6.2 / 24															
QZH	70.4	308	+P	03 41 42.0	-2.3										
			S	03 50 57.0	4.7										
			SMN			m _B = 6.4	12.0	2.62	TIA	78.1	316	cP	03 42 27.9	-1.2	
			SME				12.0	3.54		PMZ		m _B = 5.6	5.0	0.44	
			SS	03 55 22.0	-3.0					eS	03 52 25.0	4.8			
			LE			Ms = 6.1	18.0	6.13		SMN			13.0	1.58	
SSE	72.3	314	cP	03 41 55.0	-0.6					SME			13.0	2.90	
			sP	03 42 10.0	0.4					LE		Ms = 6.5	24.0	18.2	
			PcP	03 42 15.0	2.0				CN2	78.3	327	-P	03 42 29.0	-0.8	
			iS	03 51 18.0	2.4					PMZ		m _B = 6.0	6.0	1.30	
			SME			m _B = 6.2	10.0	2.52		eS	03 52 20.0	-1.6			
			SS	03 55 56.0	1.7					SME		m _B = 6.4	10.0	3.10	
			LN			Ms = 6.2	18.0	6.06		SS	03 57 20.0	-5.4			
			LE				18.0	4.34	GYA	80.3	303	P	03 42 42.6	1.6	
GZH	73.4	303	cP	03 42 02.0	0.1					pP	03 42 48.0	-2.7			
			SMN			m _B = 6.5	12.0	3.65		S	03 52 48.0	6.6			
			SME				12.0	3.59		SMN			14.0	3.20	
			SS	03 56 08.0	-3.1					SME			14.0	3.40	
			LN			Ms = 6.4	19.0	10.0		LN		Ms = 6.2	20.0	3.30	
			LE				17.0	6.53		LE			20.0	6.40	
QZN	74.1	298	cP	03 42 06.0	-0.3				BJI	81.0	319	-P	03 42 44.0	-0.8	
			PP	03 44 51.0	-1.6					PMZ		m _B = 6.0	5.0	0.93	
			SMN				13.0	3.01		SME		m _B = 6.6	10.0	5.07	
			SME				13.5	2.88		SS	03 58 08.0	1.0			
			LN			Ms = 6.4	27.0	17.3		LN		Ms = 6.4	20.0	5.89	
			LE				18.0	3.14	TIY	82.0	315	-P	03 42 50.0	-0.2	

			LN	Ms = 5.5	19.0	0.90
			LE		19.0	0.90
LZH	86.9	310	cP	10 29 14.0	-1.4	
GTA	91.2	312	cP	10 29 35.2	-0.9	
			esP	10 29 54.0	3.8	
			cS	10 40 24.5	-5.7	
			LE	Ms = 5.5	17.0	0.85
1987 6 24						
				O = 10 42 25.1	± 0.23s	
				LAT = 21.23 S	± 3.38km	
				LONG = 173.78 E	± 4.24km	
				DEPTH = 34 km	± 0.73km	
				STATIONS USED = 52,	STAND DEV = 2.49s	
				Ms = 5.5 / 7,	m _B = 5.9 / 7	
WHN	76.9	310	cP	10 54 18.0	1.8	
MDJ	76.9	329	cP	10 54 15.0	-1.7	
DL2	77.2	321	cP	10 54 18.0	-0.1	
			S	11 04 07.0	4.2	
			SME	m _B = 5.8	9.0	0.72
TIA	78.3	316	cP	10 54 21.5	-2.6	
			LE	Ms = 5.6	19.0	1.65
CN2	78.4	326	cP	10 54 23.0	-1.8	
GYA	80.5	303	P	10 54 41.0	5.0	
			S	11 04 44.0	6.7	
BJI	81.2	319	cP	10 54 39.0	-0.7	
			cS	11 04 48.0	1.5	
			SME	m _B = 6.0	8.0	0.85
TIY	82.2	315	cP	10 54 45.0	-0.1	
			S	11 05 02.0	6.7	
			SMN	m _B = 5.9	9.0	0.83
			LN	Ms = 5.4	15.0	0.87
XAN	82.6	311	P	10 54 45.5	-1.6	
KMI	82.9	300	+P	10 54 49.0	0.0	
			sP	10 55 04.0	1.4	
			cS	11 05 10.0	5.1	
			SMN	m _B = 5.6	8.0	0.35
CD2	84.8	306	cP	10 55 00.6	2.2	
BTO	85.4	317	cP	10 55 02.0	0.9	
			S	11 05 27.0	0.2	
			LN	Ms = 5.7	20.0	1.20
			LE		20.0	1.40
LZH	87.2	310	cP	10 55 11.0	0.7	
			PMZ		2.5	0.14
			cS	11 05 48.0	1.2	
			SMN	m _B = 5.9	9.0	0.74
			SME		8.0	0.63
GTA	91.6	312	cP	10 55 29.5	-1.4	
			cS	11 06 22.5	-4.1	
			LN	Ms = 5.5	23.0	1.19

1987 6 24						
				O = 13 27 59.4	± 0.20s	
				LAT = 59.71 S	± 4.12km	
				LONG = 26.06 W	± 4.25km	
				DEPTH = 32 km	± 0.94km	
				STATIONS USED = 45,	STAND DEV = 2.85s	
				Ms = 5.8 / 3,		
QZN	128.6	123	cPKP	13 47 09.0	4.4	
KMI	130.7	111	cPKP	13 47 09.0	0.2	
WMQ	138.0	82	cPKP	13 47 25.2	3.0	
LZH	140.3	104	cPKP	13 47 27.5	1.0	
GTA	140.8	96	cPKP	13 47 26.8	-0.7	
			LN	Ms = 5.8	24.0	1.32
XAN	141.1	111	cPKP	13 47 27.7	-0.1	
NJ2	143.9	124	cPKP	13 47 35.5	3.0	
TIY	145.7	111	+PKP	13 47 35.3	-0.6	
			LN	Ms = 5.8	18.0	1.08
TIA	146.6	118	cPKP	13 47 38.6	1.2	
			LN	Ms = 5.9	19.0	1.36
BTO	146.8	105	PKP	13 47 39.0	1.2	
HHC	147.7	107	cPKP	13 47 41.6	2.3	
BJI	149.3	113	cPKP	13 47 40.5	-1.2	
DL2	150.9	121	cPKP	13 47 48.5	4.4	
CN2	156.5	120	+PKP	13 47 55.0	3.1	
			PKP ₂	13 48 26.0		
			cPP	13 52 05.0	4.1	
1987 6 24						
				O = 15 57 13.1	± 0.08s	
				LAT = 30.34 N	± 0.81km	
				LONG = 102.11 E	± 0.95km	
				DEPTH = 10 km	± 0.05km	
				STATIONS USED = 26,	STAND DEV = 2.22s	
				Ms = 3.8 / 3,	M _L = 3.7 / 8,	
CD2	1.5	68	cPg	15 57 42.6	2.3	
			Sg	15 58 06.4	5.2	
			SMN	M _L = 3.7	0.4	0.78
			SME		0.3	1.04
KMI	5.2	174	Pn	15 58 33.0	1.1	
			LE	Ms = 3.6	8.0	0.58
GYA	5.6	133	Pn	15 58 38.4	1.9	
			Sn	15 59 44.6	1.9	
			SMN	M _L = 4.2	1.2	0.20
			SME		1.2	0.20
			LN	Ms = 4.3	6.0	1.50
			LE		6.0	1.40
LZH	5.9	14	cPn	15 58 41.5	0.2	
			LE	Ms = 3.8	7.0	0.67
XAN	6.9	56	cPn	15 58 54.8	0.8	

	Pg	15 59 19.0	5.0
	Sn	16 00 12.0	-2.4
	Sg	16 00 50.6	2.9
CN2	22.9 48 cP	16 02 21.0	2.9

1987 6 24

O=17 53 24.2 ± 0.15s
 LAT=46.96 N ± 2.52km
 LONG=142.36 E ± 1.85km
 DEPTH= 35 km ± 0.33km
 STATIONS USED = 30, STAND DEV = 2.07s

Ms=4.5/ 6,

CN2	12.3 261 cP	17 56 17.0	-3.1
BJI	20.2 259 cP	17 57 57.0	-1.6
TIA	21.6 249 cP	17 58 09.8	-3.8
	LN	Ms=4.6	15.0 1.05
TIY	23.9 258 cP	17 58 37.5	1.9
	LE	Ms=4.5	9.0 0.50
GTA	31.6 272 cP	17 59 46.8	0.2
	LE	Ms=4.5	11.0 0.37
KMI	38.2 249 cP	18 00 44.0	1.0

1987 6 24

O=19 14 10.3 ± 0.11s
 LAT= 1.78 N ± 1.39km
 LONG=127.29 E ± 2.25km
 DEPTH= 123 km ± 0.59km
 STATIONS USED = 45, STAND DEV = 1.80s

CD2	36.5 325 cP	19 21 05.7	-0.5
TIY	38.3 341 +P	19 21 21.8	1.0
BJI	39.4 347 cP	19 21 30.0	0.0
HHC	41.4 342 cP	19 21 47.4	0.7
BTO	41.7 340 cP	19 21 53.8	4.9
MDJ	42.7 2 cP	19 21 57.2	0.1
GTA	45.1 330 +P	19 22 16.4	0.3
WMQ	54.6 326 P	19 23 29.4	0.3
KSH	59.8 316 cP	19 24 05.5	0.0

1987 6 24

O=19 54 12.9 ± 0.21s
 LAT= 7.45 N ± 1.73km
 LONG= 76.27 W ± 1.38km
 DEPTH= 24 km ± 2.17km
 STATIONS USED = 29, STAND DEV = 1.75s

BJI	131.4 347 cPKP	20 13 24.5	-0.1
GTA	133.2 4 cPKP	20 13 29.6	1.3
LZH	136.7 360 PKP	20 13 33.5	-1.3
XAN	138.4 353 cPKP	20 13 40.6	2.8
GYA	146.2 355 PKP	20 13 52.0	0.6
KMI	147.6 2 PKP	20 13 56.5	2.6

1987 6 24

O=20 06 42.1 ± 0.07s
 LAT=19.10 S ± 0.66km
 LONG=169.16 E ± 0.31km
 DEPTH=183 km ± 0.72km
 STATIONS USED = 29, STAND DEV = 0.68s

DL2	72.9 323 cP	20 17 53.1	-0.3
MDJ	73.0 332 cP	20 17 54.6	0.5
CN2	74.3 329 +iP	20 18 01.5	-0.3
BJI	76.8 321 cP	20 18 16.0	0.2
TIY	77.7 317 cP	20 18 21.2	0.4
XAN	78.0 313 cP	20 18 22.6	0.2
GTA	87.0 313 cP	20 19 09.2	0.5

1987 6 24

O=21 02 53.4 ± 0.08s
 LAT= 8.04 N ± 0.81km
 LONG=126.60 E ± 1.10km
 DEPTH= 75 km ± 0.73km
 STATIONS USED = 39, STAND DEV = 1.15s

QZN	19.6 306 cP	21 07 19.6	1.3
XAN	30.6 330 cP	21 09 01.0	-1.7
BJI	33.2 345 cP	21 09 25.0	-0.5
SNY	33.8 356 +P	21 09 30.4	0.1
LZH	34.8 327 cP	21 09 37.5	-1.9
MDJ	36.5 4 -iP	21 09 56.0	2.1
GTA	39.4 327 cP	21 10 18.4	0.4
WMQ	49.2 323 P	21 11 36.0	-0.4
KSH	54.9 313 cP	21 12 22.0	2.3

1987 6 24

O=21 33 30.7 ± 0.13s
 LAT=40.53 N ± 1.34km
 LONG=122.14 E ± 1.11km
 DEPTH= 15 km ± 0.37km
 STATIONS USED = 6, STAND DEV = 4.38s

M_L=2.7/ 6,

SNY	1.7 40 +iPg	21 34 01.0	0.2
	Sg	21 34 23.4	-0.6
	SMN	M _L =2.8	0.4 0.13
	SME		0.4 0.080

1987 6 24

O=22 38 40.5 ± 0.10s
 LAT=24.46 N ± 1.55km
 LONG=121.91 E ± 1.40km
 DEPTH= 40 km ± 1.23km
 STATIONS USED = 71, STAND DEV = 1.93s
 Ms=4.7/ 15, M_L=4.5/ 5,



			LE		18.0	1.61	
DL2	89.9	24	-P	03 02 38.5	-1.4		
			eS	03 13 35.0	4.2		
			LE	$M_s=5.6$	12.0	0.81	
XAN	90.1	35	eP	03 02 41.0	0.1		
			eS	03 13 36.0	3.3		
CD2	90.7	40	eP	03 02 43.2	-0.3		
			PP	03 06 18.3	-0.8		
			eS	03 13 40.0	2.2		
TIA	91.1	28	-P	03 02 45.3	0.0		
			SME	$m_B=5.5$	12.0	0.54	
			SS	03 19 46.0	-0.5		
KMI	95.1	44	eP	03 03 04.0	-0.2		
			PP	03 06 54.0	-0.6		
			S	03 14 19.0	4.2		
			SS	03 20 46.0	1.4		
NJ2	95.4	28	eP	03 03 05.0	-0.4		
GYA	95.8	40	P	03 03 07.0	-0.1		
			PP	03 07 02.0	2.1		
QZN	103.7	41	eP	03 03 37.6	-4.9		
1987 6 25							
O=03 27 06.0 ± 0.07s							
LAT=41.50 N ± 2.12km							
LONG=143.59 E ± 1.45km							
DEPTH= 36 km ± 1.10km							
STATIONS USED = 71, STAND DEV = 1.58s							
$M_s=4.6/9,$							
MDJ	10.7	292	eP	03 29 42.0	1.8		
			eS	03 31 43.0	3.2		
CN2	13.6	286	+P	03 30 18.0	-0.4		
			eS	03 32 51.0	2.4		
SNY	15.0	278	+iP	03 30 37.8	0.9		
DL2	17.0	268	P	03 31 03.2	0.7		
			S	03 34 13.0	4.9		
			LE	$M_s=4.3$	12.0	0.68	
BJI	20.8	275	eP	03 31 44.5	-2.3		
			eS	03 35 29.5	-2.4		
TIA	21.2	264	eP	03 31 49.5	-1.9		
			S	03 35 39.0	-0.7		
			LN	$M_s=4.8$	11.5	0.95	
			LE		11.0	0.83	
NJ2	21.9	252	eP	03 31 51.6	-6.2		
			LE	$M_s=5.0$	13.0	2.70	
TIY	24.2	271	c(P)	03 32 23.7	2.8		
BTO	25.2	279	eP	03 32 29.5	-1.3		
WHN	25.9	254	eP	03 32 33.5	-3.6		
			eS	03 36 59.0	-3.7		
XAN	28.3	266	eP	03 32 58.0	-0.4		
LZH	31.2	273	-P	03 33 26.5	1.4		

			PMZ				
GTA	33.1	281	P	03 33 41.5	0.1		
			PcP	03 36 25.5	2.1		
			eS	03 38 57.5	0.2		
			eScS	03 44 08.0	5.6		
			LE	$M_s=4.3$	15.0	0.26	
CD2	33.6	265	eP	03 33 45.0	-0.2		
GYA	33.8	255	P	03 33 47.4	0.0		
KMI	37.5	257	-P	03 34 19.0	0.5		
WMQ	40.5	293	P	03 34 43.5	-0.2		
1987 6 25							
O=14 45 25.5 ± 0.06s							
LAT=37.73 N ± 0.52km							
LONG=101.65 E ± 0.52km							
DEPTH= 16 km ± 0.12km							
STATIONS USED = 6, STAND DEV = 2.91s							
$M_L=2.4/6,$							
GTA	2.2	320	+iPg	14 46 04.4	-0.4		
			Sg	14 46 33.6	-1.3		
			SMN	$M_L=2.4$	0.6	0.027	
			SME		0.6	0.028	
LZH	2.4	132	Pg	14 46 09.0	0.8		
			Sg	14 46 42.0	1.1		
			SMN	$M_L=2.8$	1.0	0.070	
			SME		1.0	0.050	
1987 6 25							
O=15 50 48.5 ± 0.09s							
LAT=37.62 N ± 0.99km							
LONG=101.37 E ± 0.86km							
DEPTH= 14 km ± 0.47km							
STATIONS USED = 7, STAND DEV = 4.36s							
$M_L=2.9/5,$							
GTA	2.2	326	+iPn	15 51 20.6	-4.2		
			Sg	15 51 54.0	-2.5		
			SMN	$M_L=2.7$	0.6	0.050	
			SME		0.6	0.050	
LZH	2.5	127	P*	15 51 28.5	-2.6		
			SMN	$M_L=3.0$	1.0	0.11	
			SME		1.0	0.070	
1987 6 26							
O=01 05 40.9 ± 0.27s							
LAT= 5.89 N ± 1.59km							
LONG=126.14 E ± 1.43km							
DEPTH=112 km ± 2.94km							
STATIONS USED = 21, STAND DEV = 3.16s							
XAN	32.2	333	P	01 12 00.5	-0.6		
BJI	35.2	347	eP	01 12 26.5	0.4		

	PcP	07 21 19.0	0.7						
	S	07 23 50.5	0.0						
	LE	Ms=5.0	13.0	1.22					
QZN	33.4 246 cP	07 18 40.0	1.2						
	LN	Ms=5.1	14.0	1.16					
	LE		13.0	0.90					
KMI	35.4 262 +P	07 18 56.0	-0.4						
	sP	07 19 05.0	-0.4						
	PP	07 20 17.0	1.5						
	eS	07 24 32.0	1.6						
	LE	Ms=5.1	12.0	1.30					
WMQ	41.2 297 P	07 19 46.4	2.2						
	S	07 26 01.0	5.1						
	LN	Ms=5.3	13.0	1.59					
KSH	50.8 294 P	07 21 02.0	1.6						
	S	07 28 20.0	6.8						
1987 6 26									
	O=08 27 21.3		± 0.12s						
	LAT=10.49 S		± 1.73km						
	LONG=161.39 E		± 2.05km						
	DEPTH= 92 km		± 0.78km						
	STATIONS USED = 77,		STAND DEV = 1.32s						
QZH	54.6 311 cP	08 36 43.5	0.4						
SSE	56.5 318 cP	08 36 56.2	-0.9						
	eS	08 44 40.0	0.0						
GZH	57.7 306 cP	08 37 05.8	0.8						
QZN	58.7 300 P	08 37 13.0	1.0						
NJ2	58.7 318 +P	08 37 11.6	-0.5						
WHN	60.9 314 cP	08 37 27.5	0.4						
DL2	61.5 325 +P	08 37 31.0	-0.5						
MDJ	61.9 335 +P	08 37 34.0	-0.3						
	pP	08 37 55.0	-1.8						
TIA	62.4 320 cP	08 37 36.7	-0.8						
SNY	62.6 329 cP	08 37 37.6	-1.0						
CN2	63.1 332 +P	08 37 42.0	-0.4						
	PMZ								
	epP	08 38 02.0	-2.9						
	cS	08 46 05.0	-0.1						
GYA	64.6 306 P	08 37 52.0	0.0						
BJI	65.4 323 cP	08 37 56.5	-0.6						
TIY	66.3 319 cP	08 38 02.5	-0.3						
XAN	66.6 314 +P	08 38 04.0	-0.9						
KMI	67.2 303 +P	08 38 09.5	0.8						
HHC	68.7 322 cP	08 38 18.0	0.2						
CD2	68.9 309 P	08 38 18.8	-0.2						
BTO	69.5 321 +P	08 38 23.0	0.2						
LZH	71.3 314 +P	08 38 34.0	0.5						
GTA	75.6 315 +iP	08 38 59.4	0.5						
KSH	93.1 309 cP	08 40 26.5	-0.5						
				3.0	0.30				
1987 6 26									
	O=16 36 26.0		± 0.70s						
	LAT=53.92 N		± 1.51km						
	LONG=163.76 W		± 1.29km						
	DEPTH= 25 km		± 4.19km						
	STATIONS USED = 22,		STAND DEV = 1.28s						
	CN2	45.8 288 cP	16 44 47.4	-0.9					
	BTO	56.5 294 cP	16 46 08.9	-0.1					
	XAN	61.8 290 P	16 46 45.0	-1.0					
	GTA	62.7 300 -P	16 46 51.4	-0.6					
	CD2	67.0 291 P	16 47 20.0	0.1					
	GYA	68.8 286 P	16 47 31.4	0.2					
1987 6 26									
	O=22 04 15.3		± 0.10s						
	LAT= 3.35 S		± 1.30km						
	LONG=139.52 E		± 1.50km						
	DEPTH= 9 km		± 0.23km						
	STATIONS USED = 54,		STAND DEV = 1.25s						
	SSE	38.5 334 cP	22 11 40.5	0.9					
		sP	22 11 52.1	4.3					
	NJ2	40.3 332 cP	22 11 56.0	0.9					
	WHN	41.4 326 cP	22 12 07.0	3.0					
	GYA	43.4 315 P	22 12 22.0	1.1					
	DL2	45.2 340 cP	22 12 36.0	1.3					
	KMI	45.5 311 cP	22 12 38.5	0.5					
	XAN	47.1 325 P	22 12 48.0	-1.7					
	TIY	48.0 331 cP	22 12 56.0	-0.9					
	CD2	48.2 318 P	22 13 00.0	1.4					
	BJI	48.2 336 cP	22 12 58.0	-0.6					
	CN2	48.6 346 cP	22 13 02.0	0.2					
	BTO	51.4 331 cP	22 13 22.5	-0.7					
	LZH	51.5 323 +P	22 13 24.0	0.1					
		PMZ							1.5 0.050
	GTA	56.1 323 +iP	22 13 57.2	-0.5					
	WMQ	66.0 321 +P	22 15 04.0	-1.1					
1987 6 26									
	O=22 27 35.3		± 0.14s						
	LAT=22.24 S		± 1.72km						
	LONG=169.90 E		± 1.77km						
	DEPTH= 35 km		± 0.42km						
	STATIONS USED = 21,		STAND DEV = 2.88s						
	DL2	75.8 323 cP	22 39 20.5	0.4					
	CN2	77.3 329 cP	22 39 27.0	-2.0					
	GYA	78.0 305 P	22 39 34.6	1.6					
	KMI	80.4 302 +P	22 39 48.0	2.1					
	XAN	80.6 313 P	22 39 46.5	-0.3					
	LZH	85.2 312 cP	22 40 11.5	1.0					

1987 6 26							
O = 23 05 47.4			± 0.13s				
LAT = 21.46 S			± 3.57km				
LONG = 169.16 E			± 3.04km				
DEPTH = 25 km			± 0.51km				
STATIONS USED = 83,			STAND DEV = 1.83s				
Ms = 5.6 / 30,			m _B = 6.1 / 27				
QZH 67.4 311 P	23 16 47.0	3.6					
	S 23 25 39.0	3.9					
	LN Ms = 5.9	20.0	4.73				
SSE 69.6 317 cP	23 16 55.0	-2.3					
	pP 23 17 08.0	2.5					
	PcP 23 17 18.0	-1.5					
	cPP 23 19 38.0	5.6					
	iS 23 25 58.0	-5.2					
	sS 23 26 19.0	2.2					
	cScS 23 26 56.0	3.4					
	cSS 23 30 34.0	2.5					
	LE Ms = 5.3	14.0	0.72				
GZH 70.1 306 -P	23 17 03.0	2.7					
	eS 23 26 12.0	3.1					
QZN 70.6 300 P	23 17 05.0	1.6					
	ePP 23 19 36.0	-5.2					
	SMN m _B = 6.0	10.0	1.08				
	SME	8.0	0.64				
	sS 23 26 32.0	3.6					
	LN Ms = 5.5	13.0	1.08				
NJ2 71.8 317 cP	23 17 09.0	-1.2					
	cS 23 26 29.0	1.0					
	LE Ms = 5.5	14.0	1.10				
WHN 73.8 313 -P	23 17 23.2	1.0					
	PMZ m _B = 6.0	6.0	1.00				
	iS 23 26 54.0	2.9					
	SMN m _B = 6.1	6.0	1.00				
	LN Ms = 5.5	14.0	1.10				
DL2 74.7 323 +P	23 17 27.0	-0.7					
	eS 23 26 59.0	-2.8					
	LN Ms = 5.7	16.0	1.89				
	LE	13.0	0.55				
MDJ 75.0 332 cP	23 17 28.5	-1.0					
	S 23 27 05.0	1.4					
	SMN m _B = 6.1	6.0	1.00				
TIA 75.6 319 cP	23 17 30.5	-1.9					
	S 23 27 12.0	2.7					
	SMN m _B = 6.0	12.0	1.66				
	LE Ms = 5.6	14.0	1.44				
SNY 75.8 327 +iP	23 17 32.0	-1.7					
	PMZ m _B = 6.0	6.0	1.18				
	sS 23 27 31.0	4.2					
CN2 76.3 329 +iP	23 17 35.0	-1.8					
	PMZ m _B = 6.1	5.0	1.30				
	cS 23 27 14.0	-5.2					
	SMN m _B = 6.2	9.0	1.60				
GYA 77.0 305 P	23 17 41.0	0.0					
	S 23 27 30.0	4.5					
	LE Ms = 5.6	20.0	2.00				
BJI 78.6 321 cP	23 17 49.5	0.0					
	PMZ m _B = 6.0	6.0	1.02				
	cS 23 27 48.0	4.0					
	SMN m _B = 6.3	7.0	1.33				
	SME	7.0	1.08				
	LN Ms = 5.6	16.0	1.36				
KMI 79.4 302 +P	23 17 55.0	1.0					
	pP 23 18 02.5	0.6					
	SKS 23 28 07.0	4.8					
	LN Ms = 5.3	15.0	0.70				
TIY 79.4 318 +P	23 17 53.5	-0.5					
	SMN m _B = 6.2	7.0	0.96				
	SME	7.0	0.82				
	LN Ms = 5.8	18.0	1.63				
	LE	22.0	1.94				
XAN 79.6 313 +P	23 17 54.0	-0.8					
	S 23 27 57.0	4.6					
	SME m _B = 5.9	9.0	0.83				
	LN Ms = 5.7	17.0	1.14				
	LE	17.0	1.37				
CD2 81.5 308 cP	23 18 07.0	1.8					
	S 23 28 17.3	4.4					
	SMN m _B = 6.2	8.0	1.65				
HHC 81.9 320 cP	23 18 07.0	0.0					
	cS 23 28 25.0	6.8					
	SME m _B = 5.7	10.0	0.53				
	LN Ms = 5.7	18.0	1.33				
	LE	19.0	1.33				
BTO 82.6 319 P	23 18 11.0	-0.1					
	cPP 23 21 21.0	-0.6					
	S 23 28 25.0	0.7					
	SKS 23 28 28.0	2.8					
	LN Ms = 5.5	17.0	1.00				
	LE	17.0	0.70				
LZH 84.2 312 +P	23 18 19.5	0.6					
	PMZ	2.5	0.18				
	S 23 28 38.0	-1.4					
	SME	13.0	3.77				
GTA 88.6 314 +P	23 18 40.5	0.0					
	cPP 23 22 15.0	4.8					
	cSKS 23 29 03.5	-0.9					
	SMN	22.0	2.78				
	SS 23 35 18.0	1.7					

				Ms = 5.7	20.0	1.86					Ms = 6.3	11.6	3.90	
WMQ	98.7	314	LE	23 19 26.5	-0.3		LN				16.0	24.3		
			cP	23 30 07.0	6.2		LE							
			eSKS				QZN	35.0	308	+P	00 23 57.0	0.2		
							PMZ			m _B = 6.3	7.0	3.94		
							PP			00 25 19.5	4.8			
							S			00 29 30.0	3.7			
							PcS			00 30 13.0	-0.9			
							LN			Ms = 6.5	20.0	36.2		
							LE				18.0	31.8		
							SSE	36.8	335	+iP	00 24 12.0	-0.2		
							PMZ			m _B = 6.5	6.0	5.19		
							pP			00 24 20.0	0.8			
							sP			00 24 25.0	2.5			
							PP			00 25 36.0	-1.5			
							SMN			m _B = 6.0	12.0	3.89		
							sS			00 30 07.0	0.0			
							ScP			00 30 24.0	5.9			
							ScS			00 34 22.0	-1.8			
							LN			Ms = 6.6	20.0	60.7		
							LE				14.0	14.5		
							NJ2	38.7	333	+P	00 24 27.8	0.2		
							PMZ			m _B = 6.5	6.0	5.40		
							PP			00 26 05.5	5.8			
							iS			00 30 22.5	-0.8			
							SME			m _B = 6.4	11.0	7.10		
							LE			Ms = 6.5	16.0	38.9		
							WHN	39.7	327	+iP	00 24 38.0	1.7		
							PMZ			m _B = 6.8	6.0	10.5		
							pP			00 24 44.0	0.6			
							PP			00 26 12.0	0.5			
							PcS			00 30 33.5	2.0			
							S			00 30 42.0	3.9			
							SMN			m _B = 6.4	12.0	7.90		
							LN			Ms = 6.3	14.0	17.9		
							GYA	41.7	315	P	00 24 54.0	0.9		
							PMZ			m _B = 6.7	5.0	5.90		
							pP			00 25 00.8	0.7			
							PP			00 26 32.0	-0.6			
							PcP			00 26 52.0	2.8			
							S			00 31 11.0	2.8			
							LN			Ms = 6.5	20.0	25.9		
							LE				20.0	26.6		
							TIA	42.9	335	+P	00 25 02.2	-0.8		
							sS			00 31 37.0	-1.8			
							LN			Ms = 6.6	20.0	43.0		
							LE				17.0	20.0		
							DL2	43.6	341	+iP	00 25 09.0	0.6		
							S			00 31 37.0	1.3			
							LN			Ms = 6.5	17.0	12.7		
							LE				17.0	26.5		

1987 6 26

O = 23 19 09.7 ± 0.09s

LAT = 36.92 N ± 1.02km

LONG = 101.64 E ± 0.88km

DEPTH = 17 km ± 0.27km

STATIONS USED = 18, STAND. DEV = 2.66s

M_L = 4.1 / 8,

LZH 2.0 114 Pg 23 19 42.0 -2.6

SMN M_L = 4.3 1.0 2.64

SME 1.0 2.29

GTA 2.9 330 Pn 23 19 56.6 1.2

Pg 23 20 00.4 -0.1

Sg 23 20 39.0 -0.9

SME 2.0 0.60

LE 7.0 0.64

XAN 6.6 114 Pn 23 20 46.4 -0.1

Pg 23 21 07.0 0.8

Sn 23 22 02.5 -1.0

Sg 23 22 30.8 -5.6

SMN M_L = 4.0 1.0 0.11

SME 1.0 0.060

BTO 7.5 58 ePn 23 21 02.3 3.3

TIY 8.6 81 cP 23 21 22.6 5.4

Sg 23 23 36.9 -3.4

SMN M_L = 4.3 1.2 0.080

SME 0.8 0.040

HHC 8.7 60 cP 23 21 16.6 -1.2

1987 6 27

O = 00 17 03.1 ± 0.08s

LAT = 2.11 S ± 1.11km

LONG = 138.33 E ± 1.40km

DEPTH = 20 km ± 0.12km

STATIONS USED = 98, STAND. DEV = 1.33s

M_s = 6.5 / 46,

m_B = 6.5 / 44

QZH 33.0 326 +iP 00 23 38.5 -1.0

PMZ m_B = 6.6 6.0 6.10

sP 00 23 47.5 -2.2

PP 00 24 52.0 2.4

S 00 28 56.0 0.7

SME m_B = 6.4 10.0 7.70

sS 00 29 06.0 -1.9

SS 00 30 58.0 2.6

LN Ms = 6.3 20.0 18.8

LE 22.0 38.3

GZH 34.9 317 +iP 00 23 56.0 -0.1

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		eS	03 04 02.0	2.3		
SNY	45.7	344	+P	02 57 26.4	2.7	
CD2	46.5	318	eP	02 57 30.2	0.2	
BJI	46.6	336	eP	02 57 31.0	0.4	
CN2	47.1	347	eP	02 57 33.0	-1.7	
MDJ	47.2	351	eP	02 57 36.8	2.0	
LZH	49.8	323	eP	02 57 55.5	-0.2	
GTA	54.4	324	P	02 58 28.9	-1.2	
		LE		Ms=5.5	14.5	1.88
WMQ	64.3	322	eP	02 59 37.5	-1.1	
KSH	70.4	313	eP	03 00 21.0	4.0	

1987 6 27

O=03 18 26.3 ± 0.14s
 LAT= 2.03 S ± 2.21km
 LONG=138.50 E ± 2.36km
 DEPTH= 34 km ± 0.26km
 STATIONS USED = 56, STAND DEV= 1.94s

Ms=5.0/ 4,

SSE	36.8	335	eP	03 25 32.5	-1.0	
NJ2	38.7	333	eP	03 25 49.0	0.0	
		LE		Ms=5.3	11.0	1.60
WHN	39.7	326	eP	03 26 01.0	3.2	
GYA	41.8	315	P	03 26 15.6	0.7	
KMI	43.9	310	-P	03 26 32.5	0.1	
XAN	45.4	325	P	03 26 43.2	-0.9	
SNY	45.7	344	eP	03 26 45.6	-0.8	
TIY	46.3	331	eP	03 26 56.0	4.6	
CD2	46.5	318	eP	03 26 53.2	0.1	
		eS	03 33 37.6	-1.2		
BJI	46.6	336	eP	03 26 52.0	-1.4	
CN2	47.1	347	eP	03 26 56.5	-0.9	
MDJ	47.1	351	eP	03 26 57.0	-0.5	
BTO	49.8	332	eP	03 27 18.0	-0.1	
LZH	49.8	323	+iP	03 27 18.5	-0.2	
		PMZ			2.5	0.12
GTA	54.4	323	+P	03 27 52.2	-0.8	
		eS	03 35 23.0	-5.0		
		LE		Ms=5.0	18.0	0.75
WMQ	64.3	322	+P	03 29 00.6	-1.0	
KSH	70.4	313	eP	03 29 42.0	1.9	

1987 6 27

O=03 43 17.3 ± 0.10s
 LAT=29.18 N ± 1.80km
 LONG=130.57 E ± 1.81km
 DEPTH= 67 km ± 2.20km
 STATIONS USED = 55, STAND DEV= 2.22s

Ms=4.4/ 11,

SSE	8.3	286	P	03 45 17.5	-0.6	
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		LE		Ms=4.2	13.0	1.86
QZH	11.5	251	eP	03 45 58.0	-2.7	
		LN		Ms=3.9	14.0	0.58
WHN	14.1	280	eP	03 46 37.5	1.6	
		pP	03 46 46.0	-2.5		
		eS	03 49 12.5	0.8		
CN2	15.2	346	+P	03 46 52.5	3.5	
		pP	03 47 01.5	-0.6		
		eS	03 49 41.0	5.3		
MDJ	15.4	357	eP	03 46 54.0	1.5	
		pP	03 47 02.7	-2.9		
BJI	16.0	316	eP	03 47 00.5	0.3	
TIY	17.3	304	eP	03 47 15.0	-1.7	
		S	03 50 19.0	-6.1		
		SS	03 50 50.0	1.6		
		LN		Ms=4.7	13.0	1.35
		LE			13.0	1.17
XAN	19.1	290	+P	03 47 35.1	-2.1	
		LN		Ms=4.6	11.0	0.69
		LE			11.0	0.69
HHC	19.4	312	eP	03 47 40.0	-0.9	
BTO	20.3	310	eP	03 47 52.5	2.0	
		cpP	03 48 06.0	1.5		
		eS	03 51 33.0	3.2		
		LN		Ms=4.8	15.0	2.10
		LE			14.0	0.70
GYA	21.3	268	P	03 48 01.0	0.2	
QZN	21.4	246	eP	03 48 05.4	3.6	
CD2	23.3	281	P	03 48 20.6	0.7	
		eS	03 52 26.0	2.2		
		LE		Ms=4.9	12.0	1.45
LZH	23.5	294	-P	03 48 21.0	-1.3	
		PMZ			2.0	0.090
KMI	25.1	267	eP	03 48 38.5	0.9	
GTA	27.3	300	P	03 49 01.7	3.8	
		LE		Ms=4.7	15.0	1.05

1987 6 27

O=03 56 40.5 ± 0.07s
 LAT=29.26 N ± 1.33km
 LONG=139.71 E ± 1.59km
 DEPTH=414 km ± 1.03km
 STATIONS USED = 41, STAND DEV= 1.08s

SSE	16.1	281	eP	04 00 08.2	2.1	
MDJ	17.3	335	eP	04 00 19.4	1.3	
NJ2	18.2	284	eP	04 00 27.0	0.4	
CN2	18.5	326	eP	04 00 30.0	0.5	
WHN	22.0	280	P	04 01 06.0	2.2	
BJI	22.1	305	eP	04 01 04.0	-0.5	
TIY	24.2	298	eP	04 01 23.8	0.0	

HHC	25.7	304	cP	04 01 36.8	-0.3
XAN	26.6	288	-iP	04 01 44.3	-1.0
BTO	26.7	303	cP	04 01 46.0	-0.5
GYA	29.3	273	P	04 02 09.4	0.3
GTA	34.2	298	iP	04 02 50.8	-0.6

1987 6 27

O=04 21 55.1 ± 0.53s
 LAT=24.66 N ± 2.90km
 LONG=122.55 E ± 3.33km
 DEPTH= 15 km ± 0.15km
 STATIONS USED = 10, STAND DEV = 0.85s

$M_L=3.5/4,$

QZH	3.6	275	Pn	04 22 51.3	0.4
			Sn	04 23 29.0	-6.1
			SMN	$M_L=3.5$	0.6 0.15
			SME		0.6 0.12
SSE	6.5	350	cPn	04 23 32.4	1.4

1987 6 27

O=05 04 43.2 ± 0.14s
 LAT= 2.17 S ± 1.70km
 LONG=138.37 E ± 3.04km
 DEPTH= 34 km ± 0.23km
 STATIONS USED = 31, STAND DEV = 2.30s

$M_s=5.0/1,$

GYA	41.8	315	cP	05 12 33.6	1.8
XAN	45.4	325	P	05 13 00.7	-0.5
CD2	46.6	318	cP	05 13 11.1	1.1
CN2	47.2	347	cP	05 13 14.0	-1.1
MDJ	47.2	351	cP	05 13 14.5	-0.8
LZH	49.8	323	cP	05 13 35.0	-0.8
GTA	54.4	324	P	05 14 10.0	-0.1
			LE	$M_s=5.0$	21.0 0.88
WMQ	64.4	322	cP	05 15 17.0	-1.7

1987 6 27

O=07 03 41.0 ± 0.27s
 LAT=11.92 N ± 4.84km
 LONG=143.75 E ± 3.80km
 DEPTH= 34 km ± 0.58km
 STATIONS USED = 28, STAND DEV = 3.35s

$M_s=4.5/2,$

BJJ	37.1	324	cP	07 10 48.0	-2.5
GYA	37.7	298	P	07 11 01.4	5.4
TIY	38.0	318	cP	07 10 57.4	-0.6
			LE	$M_s=4.5$	15.0 0.32
XAN	38.6	311	cP	07 11 02.5	-0.6
CD2	41.5	303	cP	07 11 22.0	-4.8
LZH	43.2	311	cP	07 11 41.0	-0.5

GTA	47.5	313	+P	07 12 14.8	-0.5
			pP	07 12 23.8	-0.8
WMQ	57.5	315	cP	07 13 29.0	-1.0

1987 6 27

O=07 38 56.7 ± 0.12s
 LAT=24.37 N ± 1.58km
 LONG=121.62 E ± 1.74km
 DEPTH= 25 km ± 0.30km
 STATIONS USED = 102, STAND DEV = 1.98s
 $M_s=5.4/43, M_L=4.8/2, m_B=5.5/5$

QZH	2.8	282	+Pn	07 39 40.2	-0.4
			Sn	07 40 14.8	-0.7
			SMN	$M_L=5.1$	1.2 8.75
			SME		1.4 6.97
			LN		7.0 17.8
			LE		7.0 28.4
SSE	6.7	357	-iPn	07 40 33.8	-0.4
			LN	$M_s=5.1$	7.0 6.09
			LE		11.0 14.7
GZH	7.7	262	-iPn	07 40 49.6	2.0
			Sn	07 42 11.0	-5.2
			LN	$M_s=5.3$	10.0 11.5
			LE		8.0 14.0
NJ2	8.0	343	-P	07 40 51.2	-3.6
			S	07 42 21.4	-4.2
			LE	$M_s=5.6$	5.0 19.8
WHN	8.9	315	cP	07 41 05.0	-2.1
			sP	07 41 16.0	-1.5
			iS	07 42 45.0	-2.7
			LN	$M_s=5.6$	8.0 25.9
QZN	12.2	246	cP	07 41 53.0	1.4
			sP	07 42 06.0	4.0
			cS	07 44 09.8	2.3
			esS	07 44 21.0	3.1
			LN	$M_s=5.0$	16.0 7.03
			LE		15.0 4.47
TIA	12.4	343	cP	07 41 51.7	-3.4
			LN	$M_s=5.3$	10.0 4.48
			LE		10.0 7.42
GYA	13.7	282	P	07 42 10.2	-1.7
			sP	07 42 22.4	0.1
			S	07 44 37.6	-5.9
			LN	$M_s=5.6$	7.0 9.20
			LE		7.0 8.70
DL2	14.5	0	cP	07 42 24.0	1.6
			cS	07 45 03.5	0.2
			LN	$M_s=4.9$	11.0 2.40
			LE		10.0 1.75
XAN	14.7	314	cP	07 42 25.0	0.1

			S	09 10 00.0	1.9				LN	Ms = 5.7	22.0	0.87		
TIA	19.2	294	cP	09 06 57.6	0.1				LE		32.0	0.75		
BJI	21.0	304	P	09 07 15.0	0.0			DL2	150.8	331	-PKP	09 28 52.0	5.0	
			S	09 10 41.0	2.8			BJI	152.0	340	cPKP	09 28 50.0	1.1	
			ScP	09 14 00.0	1.2						SS	09 51 55.0	-3.7	
WHN	21.2	278	cP	09 07 18.0	1.7			HHC	152.5	348	PKP	09 28 51.0	1.3	
TIY	23.2	296	P	09 07 35.2	0.1			BTO	153.0	350	cPKP	09 28 53.0	2.5	
			S	09 11 15.0	1.2						PKP ₂	09 29 18.0		
			ScS	09 17 52.5	2.6						SKKS	09 39 31.0		
HHC	24.6	303	P	09 07 48.0	-0.1						SS	09 52 09.0	-1.1	
XAN	25.6	287	P	09 07 56.3	-1.0			GTA	154.5	8	PKP	09 28 53.3	0.9	
			S	09 11 52.0	-1.4						PKP ₂	09 29 17.0		
BTO	25.7	302	cP	09 07 59.0	1.4						cPP	09 32 56.0	2.9	
QZN	28.5	254	cP	09 08 22.0	-0.5						SKKS	09 39 32.0		
GYA	28.5	271	-P	09 08 22.6	-0.3						LE	Ms = 5.7	20.0	0.95
			PMZ			1.2	0.13	TIA	155.0	334	cPKP	09 28 54.4	1.4	
			PcP	09 11 22.0	0.8			TIY	155.3	344	PKP	09 28 55.0	1.6	
			S	09 12 36.0	-2.9						PKP ₂	09 29 36.0		
			ScS	09 18 14.0	1.0						SKKS	09 39 37.5		
LZH	29.9	291	-iP	09 08 33.5	-0.9						SS	09 52 31.0	-3.6	
CD2	30.2	281	-iP	09 08 36.5	-0.7						LN	Ms = 6.1	25.0	1.94
			PMZ			0.7	0.080				LE		23.0	1.84
			iS	09 13 02.0	-3.6			SSE	156.9	320	cPKP	09 28 56.0	0.5	
GTA	33.2	297	+iP	09 09 02.6	-0.4						PKP ₂	09 29 26.2		
			S	09 13 48.0	-3.2						PP	09 33 12.0	6.1	
			ScP	09 14 36.4	1.1						SS	09 52 58.0	7.0	
WMQ	42.5	303	cP	09 10 19.4	0.0						LE	Ms = 5.9	22.0	1.66
			S	09 16 09.0	0.2			NJ2	157.5	325	cPKP	09 28 55.0	-1.4	
								LZH	158.1	0	cPKP	09 29 00.0	2.8	
											PKP ₂	09 29 31.2		
											PP	09 33 10.0	-3.0	
											SKKS	09 39 54.0		
											LN	Ms = 6.0	30.0	2.45
								XAN	159.6	348	PKP	09 29 00.2	1.3	
											PP	09 33 16.0	-4.6	
								WHN	161.0	332	PKP	09 29 02.0	1.7	
											PP	09 33 30.0	1.1	
											LN	Ms = 6.1	24.0	2.70
								CD2	163.2	1	cPKP	09 29 04.2	1.6	
											LN	Ms = 6.1	20.0	2.10
CN2	145.1	332	-PKP	09 28 35.0	-2.9			GYA	167.4	349	PKP	09 29 07.6	1.3	
			cPP	09 31 59.0	-0.7						PKP ₂	09 30 28.0		
			cSKS	09 35 38.0	0.0						SKKS	09 40 42.0		
			SKKS	09 38 44.0							LN	Ms = 5.7	30.0	1.00
			cSS	09 50 44.0	1.7						LE		30.0	0.80
WMQ	147.2	22	cPKP	09 28 43.0	1.5			KMI	168.9	6	+PKP	09 29 09.0	1.7	
			PP	09 32 06.5	-5.4						SKKS	09 40 52.0		
			LN	Ms = 6.1		30.0	2.77	QZN	172.6	313	cPKP	09 29 11.0	1.8	
			LE			29.0	2.04				PP	09 34 25.0	-2.5	
SNY	147.6	332	+PKP	09 28 42.5	0.6						SS	09 55 31.0	-0.2	
											LE	Ms = 5.9	22.0	2.10

1987 6 27
 O = 14 33 40.7 ± 0.11s
 LAT = 21.27 S ± 2.77km
 LONG = 174.12 W ± 2.90km
 DEPTH = 42 km ± 1.01km
 STATIONS USED = 58, STAND DEV = 1.79s
 $m_B = 5.7 / 4$

SSE	81.0	308	cP	14 45 50.0	-3.3		
			PMZ			1.0	0.020
			cS	14 55 58.0	0.0		
			cSKS	14 56 08.0	5.5		
			sS	14 56 22.0	4.6		
NJ2	83.2	308	-P	14 46 05.8	1.2		
			cS	14 56 24.0	3.6		
MDJ	83.3	323	cP	14 46 04.0	-1.1		
			SME	$m_B = 5.8$		9.0	0.62
DL2	84.8	315	+P	14 46 12.0	-0.8		
CN2	85.2	321	+P	14 46 14.0	-0.5		
			PMZ	$m_B = 5.9$		4.0	0.50
			cS	14 56 40.0	0.0		
			SME	$m_B = 5.7$		6.0	0.40
SNY	85.2	318	+P	14 46 14.0	-0.6		
			S	14 56 38.0	-0.4		
WHN	85.8	305	P	14 46 19.5	1.6		
TIA	86.5	311	-P	14 46 21.6	0.5		
BJI	89.0	314	cP	14 46 33.0	-0.2		
GYA	90.2	298	P	14 46 40.2	1.3		
			SKS	14 57 10.0	6.9		
			S	14 57 32.0	6.3		
			sS	14 57 48.0	1.0		
TIY	90.5	311	cP	14 46 38.5	-1.9		
XAN	91.5	306	+P	14 46 44.8	-0.2		
			SKS	14 57 14.0	3.3		
			S	14 57 38.0	0.7		
HHC	92.5	313	cP	14 46 50.0	0.3		
KMI	92.9	296	-P	14 46 53.5	1.7		
BTO	93.5	312	cP	14 46 53.8	-0.2		
LZH	96.1	306	cP	14 47 07.0	0.8		
GTA	100.3	308	cP	14 47 25.2	0.1		

1987 6 27
 O = 16 14 20.6 ± 0.09s
 LAT = 5.45 S ± 0.97km
 LONG = 151.92 E ± 0.95km
 DEPTH = 63 km ± 0.49km
 STATIONS USED = 50, STAND DEV = 1.06s

QZH	44.3	314	cP	16 22 28.0	1.5		
WHN	50.7	317	(P)	16 23 18.5	1.9		
GYA	54.1	308	P	16 23 42.6	0.6		

BJI	56.0	327	cP	16 23 54.0	-1.3		
XAN	56.5	317	P	16 23 57.6	-1.6		
KMI	56.6	305	cP	16 24 01.5	1.1		
CD2	58.5	311	P	16 24 13.0	-0.3		
BTO	59.8	324	cP	16 24 22.0	-0.4		
LZH	61.1	316	cP	16 24 31.5	0.2		
GTA	65.5	318	P	16 25 00.0	-0.5		
WMQ	75.6	318	-iP	16 26 01.8	0.4		

1987 6 27
 O = 16 29 16.6 ± 0.20s
 LAT = 15.45 S ± 2.37km
 LONG = 172.80 W ± 2.78km
 DEPTH = 38 km ± 0.66km
 STATIONS USED = 52, STAND DEV = 1.88s
 $M_s = 5.3 / 8$, $m_B = 5.7 / 3$

MDJ	79.4	322	+P	16 41 20.7	-0.7		
			S	16 51 24.0	6.9		
			SME	$m_B = 5.9$		9.0	0.77
NJ2	80.7	307	cP	16 41 28.0	0.0		
			LE	$M_s = 5.4$		16.0	0.90
CN2	81.5	320	+P	16 41 31.5	-1.0		
			cS	16 51 39.0	-1.4		
SNY	81.7	317	+iP	16 41 33.1	-0.4		
			cS	16 51 39.0	-3.5		
			LE	$M_s = 5.1$		20.0	0.59
TIA	83.7	310	cP	16 41 43.9	0.2		
			cS	16 52 04.0	1.5		
			LE	$M_s = 4.9$		24.0	0.39
BJI	85.9	313	cP	16 41 55.0	0.2		
TIY	87.7	310	cP	16 42 03.8	0.1		
			SMN	$m_B = 5.4$		11.0	0.31
			SME			13.0	0.39
			LN	$M_s = 4.8$		18.0	0.20
GYA	88.6	298	P	16 42 08.0	0.2		
			S	16 52 44.0	-3.9		
XAN	89.1	306	P	16 42 10.5	0.1		
HHC	89.5	313	P	16 42 12.0	-0.1		
BTO	90.5	312	P	16 42 17.0	0.1		
			SKS	16 52 46.0	4.0		
			S	16 53 07.0	1.5		
LZH	93.7	306	cP	16 42 32.5	0.7		
GTA	97.7	309	cP	16 42 49.0	-0.7		
			LE	$M_s = 5.6$		22.0	1.27

1987 6 27
 O = 17 09 11.7 ± 0.09s
 LAT = 44.22 N ± 2.75km
 LONG = 149.22 E ± 1.74km
 DEPTH = 41 km ± 1.07km

STATIONS USED = 68, STAND DEV = 1.66s
Ms=4.4 / 4,

MDJ	14.0	278	cP	17 12 29.2	-1.0		
CN2	17.1	277	+P	17 13 07.0	-2.5		
SNY	18.9	272	+P	17 13 30.6	-0.8		
DL2	21.3	265	cP	17 13 56.3	-0.6		
BJI	24.8	272	cP	17 14 31.5	0.2		
SSE	25.6	249	cP	17 14 41.0	1.5		
			sP	17 14 54.0	-0.6		
			sS	17 19 24.0	3.9		
TIA	25.7	263	cP	17 14 40.0	0.2		
NJ2	26.6	253	+P	17 14 52.0	3.2		
HHC	27.8	276	P	17 15 00.0	0.5		
TIY	28.4	270	cP	17 15 05.0	0.5		
			LE	Ms=4.3	14.0	0.36	
BTO	29.0	277	cP	17 15 09.8	-0.4		
			PP	17 16 00.0	-3.7		
			S	17 19 56.0	0.1		
			LN	Ms=4.5	13.0	0.40	
			LE		13.0	0.30	
XAN	32.6	266	cP	17 15 41.0	-0.9		
LZH	35.2	273	+iP	17 16 05.5	0.5		
			PMZ		1.5	0.070	
GTA	36.7	280	+iP	17 16 17.8	0.7		
CD2	37.9	265	cP	17 16 27.2	-0.3		
GYA	38.5	257	P	17 16 31.8	-0.4		
KMI	42.1	259	cP	17 17 02.5	0.5		

1987 6 27
O=18 35 47.9 ± 0.21s
LAT=19.21 N ± 2.37km
LONG=120.95 E ± 1.88km
DEPTH= 37 km ± 1.07km
STATIONS USED = 50, STAND DEV = 2.34s
Ms=4.0 / 2, ML=4.0 / 6,

QZH	6.1	339	cP	18 37 16.2	-2.0		
			S	18 38 22.0	-5.4		
			SMN	ML=3.8	0.3	0.050	
			SME		0.5	0.080	
GZH	8.1	300	cP	18 37 43.7	-2.0		
QZN	10.5	271	P	18 38 17.2	-2.0		
			cS	18 40 11.6	-4.9		
			LE	Ms=3.9	15.0	0.70	
GYA	15.0	301	P	18 39 20.0	0.5		
KMI	17.9	293	+P	18 39 58.7	2.8		
XAN	18.2	326	P	18 40 01.7	1.4		
CD2	19.4	310	P	18 40 14.8	0.7		
TIY	19.9	340	P	18 40 21.0	1.8		
			LN	Ms=4.1	17.0	0.46	
BJI	21.2	350	cP	18 40 34.0	1.5		

LZH	22.6	322	-P	18 40 48.5	1.8		
SNY	22.7	5	-P	18 40 53.0	5.7		
HHC	23.0	342	cP	18 40 56.0	5.0		
BTO	23.3	339	cP	18 40 55.0	1.3		
CN2	24.8	8	cP	18 41 05.0	-3.3		
GTA	27.2	322	cP	18 41 31.2	0.7		
WMQ	37.1	319	cP	18 42 59.0	2.0		
1987 6 27							
O=22 05 19.7					± 0.12s		
LAT=21.15 S					± 2.28km		
LONG=169.38 E					± 3.03km		
DEPTH= 33 km					± 0.45km		
STATIONS USED = 74, STAND DEV = 1.55s							
Ms=5.2 / 9, mB=5.7 / 7							
QZH	67.3	310	cP	22 16 12.0	-2.1		
			S	22 25 10.0	5.1		
SSE	69.5	317	cP	22 16 26.0	-1.8		
GZH	70.1	306	cP	22 16 32.0	0.8		
QZN	70.6	300	cP	22 16 35.5	0.9		
			SMN	mB=5.7	11.0	0.74	
NJ2	71.7	316	+P	22 16 38.0	-2.7		
			cS	22 26 04.0	6.6		
			SMN		15.0	0.50	
WHN	73.7	313	P	22 16 54.0	1.1		
			pP	22 17 02.0	-0.5		
			cS	22 26 23.0	2.2		
			SMN	mB=5.5	7.0	0.30	
			LN	Ms=5.5	20.0	1.53	
DL2	74.6	323	P	22 16 57.0	-1.1		
			S	22 26 32.0	2.8		
MDJ	74.9	332	+P	22 16 59.0	-0.5		
			pP	22 17 07.5	-1.5		
			cS	22 26 36.0	2.5		
			SME	mB=5.7	10.0	0.74	
TIA	75.5	319	cP	22 17 03.0	0.1		
			cS	22 26 38.0	-2.2		
			LE	Ms=5.2	16.0	0.61	
SNY	75.6	326	cP	22 17 03.6	-0.3		
			S	22 26 43.0	2.4		
			LN	Ms=5.6	14.0	1.05	
			LE		14.0	1.05	
CN2	76.1	329	+P	22 17 05.5	-1.4		
			PMZ	mB=5.6	5.0	0.40	
			pP	22 17 14.0	-2.4		
			cS	22 26 46.0	-1.8		
GYA	77.0	305	P	22 17 12.0	0.0		
			S	22 27 02.0	6.3		
			sS	22 27 10.0	-3.2		
BJI	78.5	321	cP	22 17 19.0	-1.0		

LAT=37.66 N ± 1.22km				LE Ms=4.9 11.0 3.30			
LONG=101.65 E ± 1.06km				DL2 15.7 79 cP 01 20 23.0 3.2			
DEPTH= 16 km ± 0.07km				LN Ms=4.3 8.0 0.54			
STATIONS USED = 78, STAND DEV= 2.32s				SNY 17.4 69 -P 01 20 42.0 1.6			
Ms=4.6/24, M _L =5.1/7, m _R =5.3/2				LN Ms=4.8 6.0 0.91			
GTA	2.3	321	+iPn 01 17 15.6 1.3	LE 5.5 0.56			
			Pg 01 17 16.3 -0.5	SSE 17.4 106 eP 01 20 41.2 0.4			
			Sg 01 17 44.8 -3.1	cS 01 23 57.0 4.5			
			SME 2.0 4.74	cSS 01 24 07.0 -6.3			
			LE 7.0 11.9	LN Ms=4.5 12.0 1.04			
LZH	2.4	131	Pn 01 17 19.5 3.9	CN2 19.0 64 cP 01 21 03.0 2.1			
			Pg 01 17 20.5 2.0	PMZ 3.0 0.30			
			Sg 01 17 48.5 -2.3	cS 01 24 30.0 0.6			
			SMN M _L =5.2 1.0 14.8	QZH 19.2 126 cP 01 21 05.0 2.0			
			SME 1.0 11.6	cS 01 24 35.0 1.5			
XAN	6.9	119	Pn 01 18 19.0 0.9	LN Ms=4.7 8.0 0.70			
			Pg 01 18 44.0 5.0	LE 8.0 0.70			
			Sn 01 19 44.0 5.2	QZN 19.9 157 cP 01 21 09.2 -1.6			
			Sg 01 20 16.6 3.0	cS 01 24 49.0 0.0			
			SMN M _L =4.7 1.0 0.39	LN Ms=4.7 10.0 0.63			
			SME 1.0 0.29	LE 10.0 0.81			
CD2	7.0	165	ePn 01 18 22.8 4.2	KSH 20.1 283 cP 01 21 11.0 -2.6			
			LN Ms=4.8 7.3 6.52	MDJ 22.1 63 cP 01 21 34.5 1.1			
BTO	7.1	63	cPn 01 18 23.0 1.8	S 01 25 29.0 -1.8			
			Sn 01 19 41.0 -3.1	LN Ms=4.4 10.0 0.43			
			LN Ms=4.3 7.0 1.30				
			LE 7.0 1.20				
HHC	8.3	64	cP 01 18 39.0 -1.1	1987 6 28			
			Sg 01 20 53.0 -4.5	O=01 37 34.5 ± 0.12s			
			SME M _L =5.3 0.6 0.71	LAT=37.66 N ± 1.09km			
TIY	8.6	86	cP 01 18 42.0 -1.3	LONG=101.50 E ± 1.16km			
			S 01 20 18.3 -1.7	DEPTH= 5 km ± 0.10km			
			LN 2.0 3.31	STATIONS USED = 7, STAND DEV= 4.64s			
			LE 2.0 1.72	M _L =2.7/5,			
BJI	11.6	74	cP 01 19 23.0 -1.7	GTA 2.2 323 -iPg 01 38 11.8 -1.6			
			LN Ms=4.6 12.0 2.88	Sg 01 38 40.2 -3.0			
GYA	11.9	158	P 01 19 28.8 -1.1	SMN M _L =2.6 0.7 0.037			
			S 01 21 39.6 -3.8	SME 0.7 0.042			
			LN Ms=4.7 9.0 1.40	LZH 2.5 129 Pg 01 38 16.0 -2.0			
			LE 9.0 1.70	Sg 01 38 47.0 -4.3			
WMQ	12.2	305	P 01 19 31.4 -2.3	SMN M _L =2.8 1.0 0.060			
			LN Ms=4.4 10.0 1.23	SME 1.0 0.050			
KMI	12.5	175	-P 01 19 37.0 -0.9	1987 6 28			
			sP 01 19 48.5 2.1	O=02 07 06.3 ± 0.07s			
			S 01 21 57.0 -0.6	LAT=27.21 N ± 0.66km			
			LE Ms=4.5 11.0 1.60	LONG=100.89 E ± 0.75km			
WHN	12.7	120	cP 01 19 39.0 -0.7	DEPTH= 10 km ± 0.27km			
			cS 01 21 56.0 -5.7	STATIONS USED = 6, STAND DEV= 3.12s			
			LN Ms=4.6 7.0 1.20	M _L =2.6/3,			
NJ2	15.2	106	cP 01 20 11.5 -1.1	KMI 2.7 141 -Pn 02 07 53.0 3.1			

CD2 4.5 34 Pg 02 08 25.4 0.2

1987 6 28
 O=02 37 08.9 ± 0.20s
 LAT= 0.59 S ± 2.05km
 LONG=129.77 E ± 3.25km
 DEPTH= 65 km ± 1.79km

STATIONS USED = 14, STAND DEV = 4.30s

GYA	34.9	322	P	02 44 01.4	4.5
XAN	39.6	332	cP	02 44 35.7	-0.5
BJI	42.3	344	P	02 44 57.5	-0.7
LZH	43.7	329	c(P)	02 45 10.0	-0.2
GTA	48.3	329	P	02 45 46.8	0.3

1987 6 28
 O=06 15 26.4 ± 0.08s
 LAT=37.74 N ± 0.81km
 LONG=101.49 E ± 0.74km
 DEPTH= 4 km ± 0.21km

STATIONS USED = 11, STAND DEV = 2.41s

$M_L = 3.5 / 8,$

GTA	2.1	322	+iPn	06 16 03.9	0.8
			Pg	06 16 04.6	0.7
			Sg	06 16 33.2	0.3
			SME	$M_L = 3.5$	1.0 0.36
			LE		6.0 0.55
XAN	7.1	119	cPg	06 17 32.5	1.1
			Sg	06 19 05.0	-2.8

1987 6 28
 O=09 00 08.2 ± 0.14s
 LAT=37.63 N ± 1.21km
 LONG=101.46 E ± 1.30km
 DEPTH= 17 km ± 0.27km

STATIONS USED = 8, STAND DEV = 4.49s

$M_L = 2.6 / 6,$

GTA	2.2	324	Pg	09 00 45.5	-1.8
			Sg	09 01 14.0	-3.2
			SMN	$M_L = 2.6$	0.6 0.035
			SME		0.6 0.046
LZH	2.5	128	Pg	09 00 50.0	-1.9
			Sg	09 01 20.5	-4.7
			SMN	$M_L = 3.0$	1.0 0.11
			SME		1.0 0.077

1987 6 28
 O=12 49 09.5 ± 0.16s
 LAT=24.04 N ± 1.63km
 LONG=114.50 E ± 1.08km
 DEPTH= 14 km ± 0.58km

STATIONS USED = 18, STAND DEV = 2.94s

$M_L = 3.7 / 13,$

GZH	1.4	229	+iPn	12 49 31.9	-3.5
			Sg	12 49 48.0	-6.3
			SMN		2.0 2.78
			SME		2.0 2.02
QZH	3.8	76	cPn	12 50 07.8	-0.8
			Sn	12 50 51.0	-4.4
QZN	6.6	222	cPg	12 51 06.6	0.3
			S*	12 52 18.0	-2.6
			SMN	$M_L = 3.6$	0.7 0.020
			SME		0.7 0.050
GYA	7.5	290	Pn	12 50 58.6	-0.5

1987 6 28
 O=13 07 34.8 ± 0.10s
 LAT=38.02 N ± 1.03km
 LONG=119.35 E ± 0.94km
 DEPTH= 8 km ± 0.20km

STATIONS USED = 9, STAND DEV = 3.60s

$M_L = 3.1 / 8,$

TIA	2.5	225	-Pn	13 08 15.7	-0.9
			Pg	13 08 25.7	6.1
			Sg	13 08 56.1	1.8
			SMN	$M_L = 3.1$	0.6 0.10
			SME		0.6 0.090
BJI	3.2	310	cPn	13 08 25.0	-0.5
			Pg	13 08 33.0	1.9
			cSg	13 09 11.0	-3.7
			SMN	$M_L = 2.7$	0.5 0.020
			SME		0.5 0.030
SNY	5.0	39	cPg	13 09 06.4	3.2
			SMN	$M_L = 3.0$	1.0 0.020
			SME		1.0 0.020

1987 6 28
 O=20 46 12.1 ± 0.05s
 LAT=32.50 N ± 0.44km
 LONG=121.69 E ± 0.36km
 DEPTH= 29 km ± 0.74km

STATIONS USED = 11, STAND DEV = 1.30s

$M_L = 3.4 / 7,$

SSE	1.5	197	Pg	20 46 38.2	-0.1
			Sn	20 46 57.2	0.6
			Sg	20 46 58.5	0.0
			SMN	$M_L = 3.4$	0.6 0.36
			SME		0.6 0.59
NJ2	2.4	260	+iPg	20 46 54.4	-1.1
			Sg	20 47 26.0	-3.0
			SMN	$M_L = 3.7$	0.4 0.40

TIA	5.3	316	ePg	20 47 45.2	-0.5	0.4	0.50
			Sg	20 48 53.8	-4.2		
			SMN	$M_L = 3.3$		0.7	0.030
			SME			1.0	0.040
WHN	6.6	255	ePg	20 48 08.5	0.4		

MDJ	86.2	324	cP	04 24 07.0	0.1		
WHN	87.6	305	P	04 24 16.2	2.5		
CN2	87.9	321	cP	04 24 15.0	-0.3		
TIA	88.6	311	cP	04 24 19.0	0.1		
BJI	91.3	314	cP	04 24 31.5	0.0		
TIY	92.6	311	cP	04 24 36.0	-1.5		
			SKS	04 35 02.0	-3.6		
			cS	04 35 35.0	-2.6		
XAN	93.3	306	cP	04 24 40.3	-0.3		

1987 6 28

O = 22 38 03.6 ± 0.11s
 LAT = 24.73 N ± 1.57km
 LONG = 122.60 E ± 1.20km
 DEPTH = 126 km ± 1.00km
 STATIONS USED = 68, STAND DEV = 2.04s

QZH	3.6	274	+iP	22 38 57.5	-2.2		
			iS	22 39 36.0	-6.2		
			SMN			0.3	0.76
			SME			0.3	0.38
			LN			6.0	0.47
SSE	6.5	349	+iP	22 39 37.5	-0.2		
			PMZ			0.6	0.28
NJ2	8.0	337	-P	22 39 57.6	-1.0		
			cS	22 41 28.8	0.9		
			LE			3.0	0.60
GZH	8.6	261	cP	22 40 06.6	-0.2		
			cS	22 41 46.6	3.9		
WHN	9.3	310	cP	22 40 16.5	0.2		
			LN			4.0	0.20
TIA	12.4	339	cP	22 40 56.3	-0.4		
QZN	13.1	247	cP	22 41 04.0	-2.3		
DL2	14.2	357	cP	22 41 25.1	5.5		
GYA	14.5	280	P	22 41 27.6	3.7		
XAN	15.1	311	P	22 41 34.5	2.9		
TIY	15.6	329	cP	22 41 39.5	1.8		
			LE			8.0	0.22
BJI	16.2	342	cP	22 41 47.0	1.7		
SNY	17.1	2	+iP	22 41 57.6	1.5		
CD2	17.8	294	P	22 42 04.0	-0.3		
BTO	19.0	329	P	22 42 18.0	-0.4		
			cS	22 45 46.0	3.4		
CN2	19.2	6	+P	22 42 19.2	-0.7		
MDJ	20.6	14	cP	22 42 34.2	-0.9		
GTA	24.1	313	-iP	22 43 09.3	-0.1		
WMQ	34.2	313	-P	22 44 39.0	-0.5		

1987 6 29

O = 04 11 27.0 ± 0.10s
 LAT = 25.51 S ± 1.72km
 LONG = 175.05 W ± 1.75km
 DEPTH = 33 km ± 0.23km
 STATIONS USED = 25, STAND DEV = 1.16s

1987 6 29

O = 09 55 43.4 ± 0.10s
 LAT = 53.82 N ± 3.66km
 LONG = 163.58 W ± 1.38km
 DEPTH = 33 km ± 0.45km
 STATIONS USED = 31, STAND DEV = 1.89s

SNY	48.3	287	cP	10 04 25.0	1.3		
BTO	56.6	294	cP	10 05 25.5	-0.7		
TIY	57.3	290	cP	10 05 32.2	0.9		
XAN	62.0	290	cP	10 06 02.7	-0.4		
GTA	62.9	300	P	10 06 08.7	-0.5		
GYA	69.0	286	P	10 06 49.0	0.8		
QZN	72.9	279	cP	10 07 09.6	-2.1		

1987 6 29

O = 13 14 17.5 ± 0.08s
 LAT = 37.63 N ± 0.79km
 LONG = 101.53 E ± 0.68km
 DEPTH = 13 km ± 0.37km
 STATIONS USED = 7, STAND DEV = 3.05s

						$M_L = 2.8 / 6,$	
GTA	2.2	324	Pn	13 14 54.7	0.0		
			Pg	13 14 55.2	-1.7		
			Sg	13 15 23.8	-3.6		
			SMN	$M_L = 2.8$	0.6	0.060	
			SME		0.6	0.070	
LZH	2.4	129	Pg	13 15 00.0	-0.3		
			Sg	13 15 32.0	-1.1		
			SMN	$M_L = 2.9$	1.0	0.065	
			SME		1.0	0.081	

1987 6 29

O = 22 49 08.3 ± 0.15s
 LAT = 24.68 S ± 1.50km
 LONG = 179.88 W ± 1.02km
 DEPTH = 489 km ± 2.09km
 STATIONS USED = 17, STAND DEV = 1.67s

MDJ	83.0	326	cP	23 00 42.5	-0.5		
CN2	84.6	324	cP	23 00 49.0	-2.0		
TIA	84.8	314	cP	23 00 52.1	-0.2		

TIY	88.8	313	P	23 01 11.6	0.4		
XAN	89.3	308	P	23 01 13.4	-0.1		
1987 6 30							
O	= 01 05 28.8			± 0.07s			
LAT	= 36.69 N			± 1.39km			
LONG	= 70.98 E			± 1.22km			
DEPTH	= 243 km			± 0.43km			
STATIONS USED = 84, STAND DEV = 1.19s							
$m_B = 4.9 / 4$							
KSH	4.8	54	-P	01 06 43.8	0.7		
			S	01 07 40.5	0.3		
			LN			3.0	7.50
WMQ	14.6	56	-iP	01 08 46.0	-0.1		
			S	01 11 24.5	2.9		
			SMN			$m_B = 5.6$	6.0 2.49
GTA	22.8	74	-iP	01 10 13.8	1.4		
			PP	01 11 00.0	4.0		
			eS	01 14 04.0	3.0		
			SME			$m_B = 4.8$	8.0 0.49
			LE				8.0 0.33
LZH	26.4	81	-iP	01 10 46.0	0.5		
			PMZ				2.0 0.11
			pP	01 11 34.5	2.7		
CD2	27.8	92	P	01 10 58.1	0.4		
KMI	29.5	104	eP	01 11 12.0	-1.0		
			sP	01 12 23.5	-5.0		
			S	01 15 50.0	2.6		
			sS	01 17 15.0	2.0		
			SS	01 17 39.0	-5.0		
BTO	30.6	71	-P	01 11 23.0	0.4		
			pP	01 12 12.0	1.5		
			esP	01 12 37.0	-1.4		
			eS	01 16 06.5	0.6		
			esS	01 17 32.5	1.7		
XAN	30.9	83	-P	01 11 25.2	-0.4		
			pP	01 12 15.3	1.6		
GYA	31.9	98	-P	01 11 34.4	0.2		
			pP	01 12 23.4	0.8		
			PcP	01 14 18.6	0.6		
			S	01 16 27.0	1.4		
			ScP	01 17 36.0	-0.7		
TIY	32.8	75	+P	01 11 42.6	0.4		
			pP	01 12 33.0	2.2		
			S	01 16 43.0	2.8		
			ScS	01 21 40.0	0.7		
			LN				8.0 0.28
BJI	35.3	70	eP	01 12 04.0	1.0		
			cpP	01 12 53.5	1.3		
			ePP	01 13 30.5	1.8		

			ScP	01 17 49.0	0.4		
WHN	36.4	87	+P	01 12 14.5	2.3		
			pP	01 13 06.0	4.4		
			eS	01 17 36.0	0.4		
			LN				8.0 0.28
TIA	36.8	77	eP	01 12 17.1	1.1		
QZN	38.3	107	eP	01 12 28.2	0.2		
NJ2	39.5	82	+P	01 12 38.0	0.4		
			iScP	01 18 04.6	0.4		
DL2	39.7	71	-P	01 12 40.0	0.7		
SNY	40.5	66	+P	01 12 46.6	0.3		
CN2	41.5	63	eP	01 12 52.8	-1.8		
			pP	01 13 46.0	1.1		
SSE	41.7	83	eP	01 12 57.0	1.4		
			pP	01 13 48.5	2.5		
			eS	01 18 54.0	0.0		
MDJ	44.3	61	eP	01 13 18.0	1.0		

1987 6 30							
O	= 09 17 06.7			± 0.08s			
LAT	= 36.11 N			± 1.82km			
LONG	= 140.02 E			± 1.70km			
DEPTH	= 73 km			± 1.09km			
STATIONS USED = 69, STAND DEV = 1.70s							
$M_s = 4.1 / 6,$							
MDJ	11.6	320	+P	09 19 53.8	1.9		
			S	09 22 04.0	3.6		
CN2	13.6	309	eP	09 20 18.0	0.7		
			pP	09 20 28.0	-2.0		
			eS	09 22 47.0	0.4		
SNY	14.0	299	+P	09 20 24.9	1.7		
			SS	09 23 09.0	-5.8		
SSE	16.5	258	eP	09 20 58.0	3.4		
			cS	09 23 59.0	4.6		
			csS	09 24 15.0	-1.2		
TIA	18.5	277	eP	09 21 18.0	-1.4		
			LN			$M_s = 4.0$	12.0 0.33
BJI	19.2	289	eP	09 21 26.0	-1.1		
			cS	09 24 55.0	0.1		
TIY	22.1	282	eP	09 21 51.6	-5.8		
			LE			$M_s = 4.2$	19.0 0.62
WHN	22.1	263	P	09 22 01.0	3.4		
BTO	23.9	290	eP	09 22 14.0	-0.9		
			LN			$M_s = 4.5$	19.0 0.70
			LE				19.0 0.70
XAN	25.5	275	P	09 22 29.4	-0.7		
GZH	26.5	248	+P	09 22 39.2	-0.1		
LZH	29.1	281	eP	09 23 02.5	-0.9		
GYA	30.0	261	P	09 23 09.8	-1.0		
CD2	30.6	271	eP	09 23 16.0	0.0		

GTA	31.8	288	cP	09 23 25.1	-1.7
KMI	33.7	262	cP	09 23 42.5	-1.2
WMQ	40.3	298	-iP	09 24 40.0	1.4
KSH	49.8	294	P	09 25 56.0	1.4

1987 6 30

O = 12 47 48.3 ± 0.18s

LAT = 23.97 N ± 1.98km

LONG = 121.73 E ± 2.28km

DEPTH = 25 km ± 0.42km

STATIONS USED = 63, STAND DEV = 2.52s

Ms = 4.3 / 18, ML = 4.5 / 6,

QZH	3.0	289	cPn	12 48 35.5	0.6
			iSn	12 49 09.5	-2.5
			LN	Ms = 4.2	6.0 4.33
SSE	7.1	356	cPn	12 49 30.7	-0.5
			cSn	12 50 53.0	-0.4
			LE	Ms = 4.5	7.0 2.66
GZH	7.7	265	cPn	12 49 42.0	2.1
			cSn	12 51 04.5	-4.5
			LN		3.0 2.76
NJ2	8.4	343	-P	12 49 50.0	-2.0
			LE	Ms = 4.7	5.0 2.20
WHN	9.3	317	cP	12 50 01.0	-2.5
			cS	12 51 46.0	-2.0
			LN	Ms = 4.7	4.0 1.40
			LE		4.0 0.80
QZN	12.1	248	cP	12 50 47.0	4.7
			cS	12 52 56.0	-1.6
			LN	Ms = 4.1	13.0 0.75
GYA	13.9	283	P	12 51 05.2	-0.6
			pP	12 51 08.4	-3.5
XAN	15.0	315	cP	12 51 20.5	-0.5
			LE	Ms = 4.1	13.0 0.60
TIY	15.8	332	cP	12 51 35.3	3.7
			LN	Ms = 4.3	10.5 0.67
BJI	16.7	345	P	12 51 45.0	2.7
KMI	17.3	278	cP	12 51 55.5	5.1
			cS	12 55 07.5	6.5
			sS	12 55 16.0	4.9
			LE	Ms = 4.5	10.0 0.80
CD2	17.4	297	cP	12 51 51.2	0.3
BTO	19.3	332	cP	12 52 12.9	-1.3
			cpP	12 52 20.0	-0.8
			cS	12 55 39.0	-6.1
			LN	Ms = 4.3	12.0 0.30
			LE		14.0 0.60
LZH	19.6	312	cP	12 52 18.0	0.1
CN2	20.0	8	cP	12 52 21.4	-0.9
			cS	12 55 56.0	-5.2

MDJ	21.6	15	cP	12 52 37.0	-1.3
GTA	24.1	315	P	12 53 07.0	3.8
			cS	12 57 17.0	0.3
			LE	Ms = 4.3	12.0 0.41
WMQ	34.2	314	cP	12 54 33.5	-0.4

1987 6 30

O = 14 11 03.8 ± 0.05s

LAT = 39.85 N ± 0.44km

LONG = 113.51 E ± 0.42km

DEPTH = 14 km ± 0.09km

STATIONS USED = 5, STAND DEV = 2.54s

ML = 2.5 / 5,

BJI	2.1	84	cPn	14 11 40.0	1.6
			Pg	14 11 42.5	2.3
			Sg	14 12 07.0	-1.4
			SMN	ML = 2.1	0.5 0.020
			SME		0.5 0.010
TIY	2.3	202	+Pg	14 11 43.6	-0.9
			Sg	14 12 13.2	-2.6
			SMN	ML = 2.7	0.6 0.040
			SME		0.4 0.060

1987 6 30

O = 14 45 34.0 ± 0.11s

LAT = 38.52 N ± 0.81km

LONG = 104.75 E ± 0.54km

DEPTH = 13 km ± 0.83km

STATIONS USED = 8, STAND DEV = 2.80s

ML = 3.1 / 7,

GTA	3.9	285	Pn	14 46 35.0	0.2
			Pg	14 46 41.5	-2.1
			Sn	14 47 25.6	2.9
			Sg	14 47 34.6	-3.0
			SMN	ML = 3.0	0.8 0.040
			SME		0.8 0.020
TIY	6.1	95	cP*	14 47 19.2	3.5
			Sg	14 48 44.2	-1.4
			SMN	ML = 3.3	0.8 0.020
			SME		0.8 0.020

1987 6 30

O = 17 02 34.0 ± 0.43s

LAT = 24.93 N ± 2.67km

LONG = 120.89 E ± 2.06km

DEPTH = 17 km ± 0.36km

STATIONS USED = 5, STAND DEV = 3.86s

ML = 2.6 / 1,

QZH	2.1	271	cPn	17 03 07.0	-1.7
			Sn	17 03 40.5	4.4

SMN $M_L = 2.6$ 0.2 0.050

LAT = 50.98 N ± 1.40 km

LONG = 176.49 W ± 1.10 km

DEPTH = 35 km ± 1.29 km

1987 6 30

O = 17 49 27.4 ± 0.19 s

LAT = 15.16 S ± 1.32 km

LONG = 167.50 E ± 1.55 km

DEPTH = 128 km ± 1.32 km

STATIONS USED = 26, STAND DEV = 1.37s

MDJ	68.8	332	cP	18 00 19.4	-0.9
CN2	70.1	329	+P	18 00 28.4	-0.2
			pP	18 01 00.0	0.5
GYA	72.1	305	P	18 00 40.8	0.0
BJI	72.7	321	cP	18 00 44.0	-0.1
TIY	73.7	317	P	18 00 51.0	1.0
KMI	74.7	302	cP	18 00 57.5	1.6
LZH	78.8	312	+P	18 01 19.5	1.0
GTA	83.1	314	+P	18 01 42.0	0.7
			pP	18 02 14.2	1.3
WMQ	93.2	314	cP	18 02 29.5	0.2

1987 6 30

O = 18 05 49.2 ± 0.07 s

LAT = 50.86 N ± 0.58 km

LONG = 176.50 W ± 0.52 km

DEPTH = 57 km ± 0.58 km

STATIONS USED = 11, STAND DEV = 1.96s

LZH	56.9	288	cP	18 15 30.5	-1.2
GTA	57.1	294	+P	18 15 30.9	-2.0
GYA	61.8	278	P	18 16 04.0	-1.4

1987 6 30

O = 19 08 13.7 ± 0.17 s

LAT = 50.94 N ± 1.99 km

LONG = 176.28 W ± 1.28 km

DEPTH = 50 km ± 1.68 km

STATIONS USED = 43, STAND DEV = 1.67s

SNY	41.4	282	cP	19 15 55.2	-2.2
BJI	47.0	284	cP	19 16 42.0	-0.5
TIA	48.8	279	cP	19 16 55.7	-0.7
BTO	50.4	289	P	19 17 09.0	0.1
XAN	55.3	283	cP	19 17 42.5	-2.7
LZH	57.0	288	-P	19 17 57.5	-0.2
GTA	57.2	294	+iP	19 17 57.5	-1.4
CD2	60.6	284	cP	19 18 23.8	1.3
WMQ	60.9	305	cP	19 18 23.0	-1.5
GYA	62.0	278	P	19 18 29.6	-1.9
KMI	65.4	280	cP	19 18 53.5	-0.5

1987 6 30

O = 19 45 17.8 ± 0.13 s

STATIONS USED = 28, STAND DEV = 1.05s

SNY	41.3	281	cP	19 53 02.9	1.0
BJI	46.9	284	cP	19 53 47.0	0.0
TIA	48.7	279	cP	19 54 00.0	-1.0
BTO	50.3	288	cP	19 54 14.0	0.4
TIY	50.6	284	cP	19 54 16.4	0.3
XAN	55.2	283	cP	19 54 48.7	-1.2
LZH	56.9	288	+iP	19 55 02.5	0.1
GTA	57.1	293	cP	19 55 02.3	-1.3
CD2	60.5	284	cP	19 55 28.6	1.3
GYA	61.8	278	P	19 55 38.2	1.8
KMI	65.2	280	cP	19 55 58.5	-0.4

1987 6 30

O = 23 22 04.6 ± 0.11 s

LAT = 50.98 N ± 1.34 km

LONG = 176.52 W ± 0.84 km

DEPTH = 46 km ± 1.05 km

STATIONS USED = 31, STAND DEV = 1.21s

SNY	41.3	281	-P	23 29 48.0	0.5
BJI	46.9	284	cP	23 30 32.0	-0.6
TIA	48.6	279	cP	23 30 45.6	-0.9
TIY	50.6	284	cP	23 31 02.2	0.6
XAN	55.1	283	cP	23 31 34.6	-0.8
LZH	56.9	288	cP	23 31 48.5	0.5
GTA	57.0	293	P	23 31 48.0	-1.2
CD2	60.5	284	cP	23 32 14.4	1.6
GYA	61.8	278	P	23 32 20.4	-1.5