

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)
1987 5 1							
O = 04 32 29.9				± 0.10s			
LAT = 25.07 N				± 1.18km			
LONG = 104.27 E				± 0.45km			
DEPTH = 5 km							
STATIONS USED = 5, STAND DEV = 4.47s							
M _L = 3.1 / 3,							
KMI	1.4	272	ePn	04 32 53.5	-3.1		
			Sg	04 33 15.5	1.9		
			SMN		M _L = 2.8	1.0	0.13
			SME			1.0	0.14
GYA	2.6	57	Pn	04 33 12.0	-0.6		
			Pg	04 33 21.8	6.7		
			SMN		M _L = 3.1	1.0	0.10
1987 5 1							
O = 06 52 10.5				± 0.09s			
LAT = 35.53 N				± 2.74km			
LONG = 140.89 E				± 3.92km			
DEPTH = 55 km				± 2.82km			
STATIONS USED = 49, STAND DEV = 2.27s							
M _s = 4.2 / 8,							
MDJ	12.5	320	eP	06 55 04.6	-3.9		
CN2	14.5	309	eP	06 55 29.0	-4.9		
SNY	14.9	300	-iP	06 55 44.0	4.4		
DL2	15.7	288	eP	06 55 53.1	3.1		
SSE	17.1	261	eP	06 56 03.0	-3.8		
			eSS	06 59 30.0	-3.8		
			LN		M _s = 4.2	18.0	0.90
NJ2	18.6	266	+P	06 56 25.2	-1.1		
			LN		M _s = 4.5	7.0	0.60
TIA	19.3	279	eP	06 56 30.6	-3.0		
			LN		M _s = 4.2	13.0	0.51
BJI	20.0	290	eP	06 56 38.5	-3.2		
WHN	22.8	265	P	06 57 09.7	0.4		
			eS	07 01 12.6	3.0		
TIY	22.9	284	eP	06 57 08.6	-2.3		
			S	07 01 11.5	0.1		
			LE		M _s = 4.4	15.0	0.64
HHC	23.6	292	eP	06 57 15.0	-2.5		
BTO	24.8	291	eP	06 57 27.5	-1.3		
XAN	26.2	276	P	06 57 41.3	-1.4		
LZH	29.9	282	P	06 58 15.5	-0.7		
CD2	31.3	272	P	06 58 25.8	-2.1		
GTA	32.6	289	-P	06 58 39.0	-0.8		
WMQ	41.2	298	P	06 59 53.0	1.4		

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)
LSA	41.9	277	P	06 59 58.6	0.1		
KSH	50.7	295	P	07 01 08.5	1.5		
1987 5 1							
O = 10 57 39.2				± 0.02s			
LAT = 37.66 N				± 0.16km			
LONG = 102.67 E				± 0.15km			
DEPTH = 4 km				± 0.00km			
STATIONS USED = 6, STAND DEV = 2.35s							
M _L = 2.8 / 5,							
LZH	1.8	149	Pg	10 58 12.0	0.1		
			Sg	10 58 34.5	-2.2		
			SMN		M _L = 3.2	0.5	0.27
			SME			0.5	0.13
GTA	2.8	309	Pg	10 58 29.8	0.3		
			Sg	10 59 06.1	-1.9		
			SMN		M _L = 2.7	0.7	0.050
			SME			0.7	0.010
1987 5 1							
O = 16 42 43.7				± 1.01s			
LAT = 24.33 N				± 6.87km			
LONG = 120.29 E				± 4.88km			
DEPTH = 14 km							
STATIONS USED = 9, STAND DEV = 2.74s							
M _L = 2.7 / 6,							
QZH	1.7	292	-Pn	16 43 12.8	-0.1		
			SMN		M _L = 2.7	0.4	0.10
			SME			0.7	0.070
1987 5 1							
O = 23 06 15.4				± 0.07s			
LAT = 37.17 N				± 2.01km			
LONG = 141.76 E				± 1.90km			
DEPTH = 40 km				± 1.52km			
STATIONS USED = 84, STAND DEV = 1.65s							
M _s = 4.8 / 35,							
MDJ	11.8	313	+iP	23 09 09.5	4.8		
			PP	23 09 20.0	5.6		
CN2	14.1	303	+P	23 09 34.0	-0.3		
			eS	23 12 10.0	0.4		
SNY	14.8	294	eP	23 09 44.4	0.7		
			SS	23 12 50.0	6.1		
			LN		M _s = 4.8	11.0	0.91
			LE			14.0	3.07
DL2	16.0	282	eP	23 10 00.0	1.1		
			LN		M _s = 4.6	12.0	0.67

			LE		12.0	1.37	GTA	32.8	287	P	23 12 47.8	0.1		
SSE	18.1	256	P	23 10 25.5	0.2					LN	Ms=4.5	13.0	0.44	
			epP	23 10 31.0	-2.7		QZN	33.2	246	eP	23 12 52.6	1.2		
			esP	23 10 36.0	-2.9					eS	23 18 12.0	4.4		
			eSS	23 14 08.0	2.8					LN	Ms=4.9	15.0	0.60	
			LN	Ms=4.6	13.0	0.59				LE		15.0	1.00	
			LE		13.0	1.24	KMI	35.3	261	+P	23 13 09.0	0.0		
NJ2	19.5	262	eP	23 10 38.0	-4.4					sP	23 13 27.0	3.4		
			LE	Ms=4.6	14.0	1.40				eS	23 18 39.0	-0.4		
TIA	19.8	275	eP	23 10 44.4	-0.8		WMQ	41.0	297	P	23 13 58.6	1.6		
			eS	23 14 27.0	6.3					LE	Ms=4.8	16.0	0.80	
			LN	Ms=4.9	14.0	2.29				PMZ		2.0	0.14	
			LE		15.0	1.36				LN	Ms=4.8	16.0	0.72	
BJI	20.2	286	eP	23 10 48.0	-1.6		LSA	42.5	275	-iP	23 14 10.7	1.4		
			eS	23 14 34.0	4.9		KSH	50.6	294	eP	23 15 16.0	2.7		
			LN	Ms=4.5	14.0	0.88				LE	Ms=5.3	14.0	1.30	
QZH	23.2	245	P	23 11 19.0	-1.1									
			eS	23 15 28.0	2.6									
			LE	Ms=4.5	17.0	0.84								
TIY	23.3	280	eP	23 11 19.6	-0.9									
			eS	23 15 27.0	0.8									
			sS	23 15 40.5	-2.1									
			LN	Ms=4.9	14.0	0.74								
			LE		15.0	1.82								
WHN	23.7	262	eP	23 11 21.0	-3.3		LZH	2.5	358	Pn	08 11 21.0	1.5		
			LE	Ms=4.6	13.0	0.96				Pg	08 11 25.5	2.9		
HHC	23.7	288	eP	23 11 24.2	-0.6					Sg	08 11 58.0	1.5		
			LN	Ms=4.6	12.0	0.37				SMN	Ms=4.3	1.0	1.30	
			LE		12.0	0.64				SME		1.0	2.30	
BTO	24.9	288	P	23 11 36.0	-0.3		CD2	2.7	184	Pn	08 11 24.5	2.0		
			PP	23 12 13.0	0.0					Pg	08 11 27.7	1.1		
			S	23 15 55.0	1.9					Sg	08 12 05.4	1.9		
			LN	Ms=4.6	13.0	0.50	XAN	4.2	83	Pn	08 11 44.0	1.5		
			LE		13.0	0.60				Pg	08 11 56.4	4.1		
XAN	26.8	273	-iP	23 11 54.6	0.3					Sg	08 12 56.0	6.8		
			PP	23 12 33.6	-5.6					SMN	Ms=4.0	0.7	0.17	
			LN	Ms=4.9	14.0	1.02				SME		0.7	0.40	
			LE		14.0	1.01	GTA	6.7	331	Pn	08 12 16.0	-1.3		
GZH	28.2	248	-P	23 12 08.4	1.8					LN	Ms=3.4	8.0	0.26	
LZH	30.3	280	-iP	23 12 27.0	1.1		GYA	7.5	161	Pn	08 12 30.4	1.8		
			PMZ			1.0				Sn	08 13 54.4	-1.4		
			PP	23 13 28.0	3.1		TIY	8.0	57	eP	08 12 38.0	-0.3		
			LE	Ms=5.0	15.0	1.57	WHN	9.3	106	eP	08 13 00.0	3.6		
GYA	31.5	260	+P	23 12 36.0	-0.5					eS	08 14 39.5	-2.7		
			PMZ			1.2				LN	Ms=4.3	6.0	0.86	
			S	23 17 45.2	5.3									
			LN	Ms=5.1	14.0	1.20								
			LE		14.0	1.10								
CD2	31.9	270	P	23 12 39.6	-0.6									
			PMZ			0.9								

1987 5 2
 O = 08 10 38.9 ± 0.12s
 LAT = 33.61 N ± 1.07km
 LONG = 103.96 E ± 1.38km
 DEPTH = 14 km
 STATIONS USED = 20, STAND DEV = 3.12s
 Ms = 3.8 / 2, ML = 3.9 / 5,

1987 5 2
 O = 12 48 25.1 ± 0.09s
 LAT = 31.43 N ± 1.82km
 LONG = 141.83 E ± 2.06km

DEPTH = 36 km ± 0.56km
 STATIONS USED = 21, STAND DEV = 1.848

MDJ	16.3	327	eP	12 52 12.0	-1.0
CN2	17.9	318	eP	12 52 38.8	6.0
SNY	17.9	310	+P	12 52 33.3	-0.1
BJI	22.5	300	eP	12 53 22.0	-0.7
BTO	27.2	299	eP	12 54 06.4	-1.4
XAN	27.7	284	P	12 54 11.9	-0.9
WMQ	43.9	302	eP	12 56 32.0	1.5

1987 5 2
 O = 13 58 48.6 ± 0.14s
 LAT = 7.48 S ± 1.15km
 LONG = 128.13 E ± 0.61km
 DEPTH = 183 km ± 1.69km
 STATIONS USED = 11, STAND DEV = 2.52s

XAN	45.1	337	eP	14 06 47.6	-1.4
BJI	48.6	348	eP	14 07 15.0	-0.6

1987 5 2
 O = 18 16 59.6 ± 0.06s
 LAT = 6.08 N ± 0.78km
 LONG = 125.96 E ± 1.46km
 DEPTH = 144 km ± 0.26km
 STATIONS USED = 27, STAND DEV = 1.12s

QZN	20.3	311	P	18 21 26.8	0.6
			eS	18 25 06.5	5.6
XAN	32.0	333	P	18 23 12.9	-1.9
BJI	34.9	347	eP	18 23 39.0	-0.9
SNY	35.7	357	-iP	18 23 46.0	0.0
CN2	37.6	359	-P	18 24 01.5	-0.6
MDJ	38.5	4	eP	18 24 10.2	0.2

1987 5 2
 O = 19 21 28.4 ± 0.07s
 LAT = 54.98 N ± 2.02km
 LONG = 160.15 W ± 1.13km
 DEPTH = 31 km ± 0.17km
 STATIONS USED = 85, STAND DEV = 0.95s
 Ms = 5.0 / 14, m_B = 5.7 / 4

MDJ	44.7	287	+iP	19 29 40.4	-0.3
CN2	47.5	289	+P	19 30 02.4	-0.5
			eS	19 36 54.0	-0.9
			LN	Ms=4.8	28.0 1.00
SNY	49.8	288	+iP	19 30 21.5	0.5
			PMZ		3.0 0.86
			S	19 37 30.0	3.4
			LN	Ms=5.0	24.0 0.77
			LE		24.0 0.82
DL2	52.9	287	eP	19 30 44.3	-0.1

BJI	55.1	291	eP	19 31 00.0	-0.3
			eS	19 38 40.0	0.5
			LE	Ms=4.9	13.0 0.40
HHC	56.9	295	eP	19 31 13.2	-0.6
			pP	19 31 24.0	1.1
			S	19 39 05.0	1.9
			LN	Ms=5.0	15.0 0.47
			LE		15.0 0.40
TIA	57.3	288	P	19 31 16.0	-0.5
			eS	19 39 11.5	1.9
			LE	Ms=4.9	15.0 0.43
BTO	57.9	296	+iP	19 31 20.0	-0.8
			ePP	19 33 28.0	-2.0
			eS	19 39 15.0	-2.5
TIY	58.8	292	+P	19 31 26.8	0.1
			PMZ		1.3 0.090
			S	19 39 32.5	5.3
			LN	Ms=5.0	12.0 0.42
SSE	58.9	281	-P	19 31 27.0	-0.1
			PMZ		1.0 0.040
			pP	19 31 36.8	0.5
			eS	19 39 29.0	-0.4
			LE	Ms=4.8	20.0 0.47
NJ2	59.5	283	+P	19 31 29.0	-2.3
			PMZ	m _B =6.0	4.0 0.70
WHN	63.1	285	P	19 31 56.5	0.5
			eS	19 40 28.0	4.4
			LE	Ms=4.8	24.0 0.50
XAN	63.4	292	+iP	19 31 57.4	-0.6
			S	19 40 26.2	0.0
GTA	64.0	302	+iP	19 32 01.0	-0.7
			PMZ	m _B =5.7	4.0 0.43
			pP	19 32 07.5	-3.4
			SMN	m _B =5.5	6.0 0.29
			SME		6.0 0.21
			LE	Ms=5.3	18.0 1.02
LZH	64.5	297	+iP	19 32 05.5	0.2
			PMZ		2.0 0.40
			S	19 40 40.0	0.2
			LE	Ms=5.0	20.0 0.62
WMQ	66.0	313	+P	19 32 15.1	0.2
			PMZ		2.0 0.16
			S	19 41 02.7	4.5
			LN	Ms=5.3	24.0 1.61
GZH	69.5	281	-P	19 32 37.0	0.7
GYA	70.5	288	+P	19 32 43.4	0.4
			S	19 41 55.0	3.1
KMI	73.7	290	eP	19 33 02.0	-0.1
			PMZ	m _B =5.7	5.0 0.47
			eS	19 42 30.0	-0.4

KSH	74.4	318	P	19 33 07.0	0.8
			eS	19 42 41.0	2.8
			LE	Ms=5.5	14.0 1.10
QZN	74.6	281	eP	19 33 08.6	1.3
LSA	76.0	302	P	19 33 17.0	1.5

O = 01 55 56.1 ± 0.09s
 LAT = 37.05 N ± 3.04km
 LONG = 141.55 E ± 1.96km
 DEPTH = 64 km ± 1.62km
 STATIONS USED = 33, STAND DEV = 2.24s

MDJ	11.8	314	-P	01 58 45.7	1.9
TIA	19.6	275	eP	02 00 22.8	0.7
BJI	20.1	286	eP	02 00 25.5	-1.3
TIY	23.1	281	eP	02 00 56.8	-0.7
XAN	26.6	273	P	02 01 31.5	0.4
GYA	31.3	260	P	02 02 14.0	0.9
WMQ	40.9	297	P	02 03 36.5	2.2

1987 5 2

O = 20 43 52.5 ± 0.14s
 LAT = 44.72 N ± 2.67km
 LONG = 10.55 E ± 3.67km
 DEPTH = 13 km ± 0.50km
 STATIONS USED = 27, STAND DEV = 2.56s

KSH	47.7	72	eP	20 52 33.0	1.6
WMQ	53.2	62	eP	20 53 16.5	2.8
GTA	63.2	60	eP	20 54 26.5	2.7
XAN	72.3	60	eP	20 55 19.4	-1.0
BJI	72.4	51	P	20 55 20.0	-1.3
CN2	74.6	43	eP	20 55 32.8	-0.9
GYA	76.0	67	eP	20 55 40.8	-1.1

1987 5 3

O = 10 28 06.5 ± 0.14s
 LAT = 24.09 N ± 1.49km
 LONG = 118.97 E ± 0.73km
 DEPTH = 19 km ± 1.49km
 STATIONS USED = 7, STAND DEV = 3.21s

QZH	0.9	338	-iPg	10 28 22.7	-0.3
			Sg	10 28 34.2	-1.5
			SMN	ML=3.3	0.2 0.84
			SME		0.1 0.82

1987 5 2

O = 21 38 29.0 ± 0.14s
 LAT = 39.82 N ± 1.75km
 LONG = 74.22 E ± 0.74km
 DEPTH = 13 km ± 2.00km
 STATIONS USED = 14, STAND DEV = 2.86s

				ML=4.1 / 4,	
KSH	1.4	104	-iPg	21 38 54.0	-0.2
			Sg	21 39 11.0	-2.3
			LE		3.0 27.4
WMQ	10.8	64	P	21 41 06.0	-1.2
			S	21 43 05.5	-3.3
			LN		1.8 0.070
GTA	19.7	83	P	21 43 01.0	-0.4

1987 5 3

O = 11 35 17.7 ± 0.14s
 LAT = 25.24 S ± 1.00km
 LONG = 178.48 E ± 0.94km
 DEPTH = 598 km ± 1.89km
 STATIONS USED = 61, STAND DEV = 0.79s

SSE	78.4	313	+P	11 46 18.0	-1.2
			PMZ		1.0 0.71
NJ2	80.5	312	+iP	11 46 32.2	1.8
MDJ	82.6	327	-iP	11 46 40.9	-0.3
WHN	82.7	309	P	11 46 42.2	0.5
DL2	83.0	319	eP	11 46 42.5	-0.8
SNY	83.8	322	eP	11 46 46.3	-0.8
CN2	84.2	324	-iP	11 46 48.6	-0.1
TIA	84.2	314	-P	11 46 49.3	0.5
GYA	86.2	301	P	11 46 59.0	0.0
BJI	87.1	317	eP	11 47 03.0	0.4
TIY	88.1	314	-P	11 47 07.7	0.1
			PMZ		1.2 0.11
			S	11 56 53.5	-6.6
XAN	88.5	309	-P	11 47 09.5	0.0
HHC	90.4	316	eP	11 47 18.5	0.1
CD2	90.7	304	-iP	11 47 20.2	0.7
			PMZ		0.8 0.040
BTO	91.2	315	eP	11 47 23.0	0.8

1987 5 3

O = 00 39 22.8 ± 0.11s
 LAT = 37.86 N ± 1.66km
 LONG = 68.46 E ± 1.51km
 DEPTH = 33 km ± 0.28km
 STATIONS USED = 21, STAND DEV = 2.39s

				Ms=4.3 / 2,	
KSH	6.1	73	eP	00 40 55.0	1.9
			LE	Ms=4.4	6.0 2.30
WMQ	15.7	62	P	00 43 04.4	0.7
			LN		2.5 0.10
LSA	20.5	107	P	00 44 01.5	0.0
GTA	24.5	77	P	00 44 42.1	1.5

1987 5 3

GTA	97.5	310	P	11 47 50.0	-0.5		
1987 5 3							
O	=12 26 53.7			± 0.07s			
LAT	=49.39 S			± 2.64km			
LONG	=164.28 E			± 1.70km			
DEPTH	= 25 km			± 0.61km			
STATIONS USED = 14, STAND DEV = 1.15s							
SSE	88.8	324	+P	12 39 48.0	0.2		
			PMZ			1.4	0.060
NJ2	90.6	323	-iP	12 39 56.0	-0.1		
KMI	92.1	307	eP	12 40 04.5	1.0		
XAN	96.5	317	+P	12 40 22.6	-0.7		
1987 5 3							
O	=14 34 28.2			± 0.06s			
LAT	=41.92 N			± 0.83km			
LONG	= 84.08 E			± 0.57km			
DEPTH	= 13 km			± 0.27km			
STATIONS USED = 10, STAND DEV = 2.00s							
				$M_L=3.5/8,$			
WMQ	3.3	53	+Pn	14 35 22.4	2.8		
			Sg	14 36 09.2	-1.2		
			SMN	$M_L=3.5$	0.4	0.16	
GTA	12.2	97	eP	14 37 23.9	-1.3		
			LN		0.9	0.010	
			LE		0.9	0.010	
1987 5 3							
O	=15 46 07.2			± 0.03s			
LAT	=37.97 N			± 0.23km			
LONG	=102.10 E			± 0.25km			
DEPTH	= 11 km			± 0.12km			
STATIONS USED = 8, STAND DEV = 1.61s							
				$M_L=3.2/4,$			
GTA	2.3	309	-iPg	15 46 48.1	0.2		
			Sg	15 47 18.5	-0.5		
			SMN	$M_L=3.2$	0.7	0.18	
			SME		0.5	0.15	
LZH	2.3	143	Pg	15 46 49.0	0.2		
			Sg	15 47 18.0	-2.7		
			SMN	$M_L=3.6$	1.0	0.52	
			SME		0.5	0.22	
1987 5 3							
O	=16 46 10.7			± 0.07s			
LAT	=20.81 S			± 1.39km			
LONG	=178.54 W			± 0.72km			
DEPTH	=575 km			± 1.26km			
STATIONS USED = 70, STAND DEV = 0.71s							

SSE	77.5	310	+P	16 57 09.0	-0.6		
			PMZ			0.8	0.030
			sP	17 00 06.0	-1.1		
			eSKS	17 06 22.0	-1.9		
GZH	79.4	300	-iP	16 57 20.5	0.7		
NJ2	79.7	310	-P	16 57 21.4	0.3		
MDJ	80.5	325	-iP	16 57 25.4	0.1		
			PMZ			$m_B=5.6$	4.0 0.90
			pP	16 59 26.0	-0.8		
			sP	17 00 26.0	2.5		
			iS	17 06 45.0	-0.9		
QZN	80.5	294	P	16 57 26.0	0.5		
			eS	17 06 45.5	-0.8		
DL2	81.6	317	P	16 57 30.0	-1.0		
SNY	82.1	320	-iP	16 57 33.2	-0.4		
WHN	82.2	307	-P	16 57 35.2	1.1		
			PMZ			1.2	0.42
			sP	17 00 34.5	1.6		
			eS	17 07 00.0	-3.1		
CN2	82.2	323	-iP	16 57 34.0	-0.2		
			PMZ			3.0	0.90
			epP	16 59 36.0	-0.3		
			sP	17 00 34.0	1.0		
			eS	17 07 02.0	-1.3		
TIA	83.1	313	-P	16 57 38.8	0.2		
			PMZ			$m_B=5.6$	4.0 0.93
			sP	17 00 38.0	0.4		
BJI	85.8	316	eP	16 57 51.0	-0.5		
			PMZ			$m_B=5.6$	4.0 0.53
			esP	17 00 52.0	0.9		
			eSKS	17 07 20.0	-0.6		
			eS	17 07 39.0	2.1		
GYA	86.4	300	-P	16 57 54.8	0.3		
			PMZ			1.2	0.10
TIY	87.1	312	-iP	16 57 58.2	0.2		
			PMZ			1.4	0.13
			SKS	17 07 30.0	0.7		
			S	17 07 48.0	0.3		
XAN	87.9	308	-iP	16 58 02.2	0.4		
			PMZ			1.0	0.16
KMI	89.0	297	-P	16 58 08.0	0.8		
			PMZ			3.0	0.48
			PP	17 01 50.0	1.1		
			SKS	17 07 42.5	1.5		
HHC	89.2	315	-iP	16 58 08.2	0.3		
BTO	90.1	314	-P	16 58 12.0	-0.1		
LZH	92.6	308	-iP	16 58 23.8	0.5		
			PMZ			1.0	0.080
GTA	96.8	309	-P	16 58 41.7	-0.7		

KSH	43.8	298	eP	17 29 09.5	0.9
			sP	17 30 20.0	-0.2
			eS	17 35 23.0	0.8
			sS	17 36 48.0	3.6

LAT=	4.50 S	±	0.98km
LONG=	137.30 E	±	2.19km
DEPTH=	33 km	±	0.24km
STATIONS USED = 32, STAND DEV = 1.42s			

1987 5 3
 O=23 18 54.8 ± 0.15s
 LAT=34.18 N ± 1.50km
 LONG=103.43 E ± 1.71km
 DEPTH= 3 km ± 0.68km
 STATIONS USED = 12, STAND DEV = 3.01s

QZN	35.7	312	-P	06 36 34.8	1.0
GYA	42.7	318	P	06 37 32.8	0.7
XAN	46.8	327	eP	06 38 02.1	-2.2
CD2	47.6	320	P	06 38 11.3	0.5
BJI	48.4	338	eP	06 38 16.0	-1.0
CN2	49.2	349	eP	06 38 22.5	-1.1
GTA	55.7	325	eP	06 39 09.2	-2.7

$M_L=3.5/5,$

LZH	1.9	10	Pg	23 19 30.0	0.8
			Sg	23 19 55.0	-0.3
			SMN	$M_L=3.5$	1.0 0.45
			SME		1.0 0.46
XAN	4.6	90	Pn	23 20 04.6	-0.4
			Pg	23 20 17.9	2.6
			Sg	23 21 19.4	1.8
			SMN	$M_L=3.7$	1.3 0.10
			SME		1.3 0.15
GTA	6.0	332	cPg	23 20 46.0	5.5

1987 5 4
 O=09 47 46.3 ± 0.06s
 LAT=37.58 N ± 1.15km
 LONG= 72.28 E ± 0.99km
 DEPTH=192 km ± 0.44km
 STATIONS USED = 28, STAND DEV = 1.49s

1987 5 4
 O=06 24 33.4 ± 0.10s
 LAT= 2.08 N ± 1.44km
 LONG=126.58 E ± 2.04km
 DEPTH= 62 km ± 0.29km
 STATIONS USED = 64, STAND DEV = 1.39s

KSH	3.5	56	eP	09 48 42.0	0.1
			sP	09 49 15.0	-4.5
			S	09 49 24.5	0.3
			SME		0.5 5.50

QZN	23.5	317	-P	06 29 39.4	0.7
			eS	06 33 48.0	3.8
GZH	24.5	329	P	06 29 48.0	-0.5
SSE	29.3	351	eP	06 30 33.0	0.5
			eS	06 35 22.0	2.5
WHN	30.6	339	eP	06 30 44.0	0.1
GYA	30.9	323	P	06 30 47.6	-1.0
XAN	35.8	335	-iP	06 31 28.3	-1.0
DL2	36.9	354	eP	06 31 38.8	0.3
TIY	37.8	342	eP	06 31 40.0	-5.7
			S	06 37 30.0	-0.1
BJI	38.9	347	eP	06 31 55.0	-0.4
SNY	39.7	356	+P	06 32 02.5	1.2
LZH	39.9	331	eP	06 32 04.0	0.9
HHC	40.9	343	eP	06 32 12.3	0.5
CN2	41.6	359	eP	06 32 13.5	-3.4
MDJ	42.4	3	eP	06 32 24.5	0.3
GTA	44.4	330	P	06 32 40.1	-0.4

WMQ	13.2	57	eP	09 50 47.8	-0.6
LSA	17.5	111	-P	09 51 41.5	0.6
GTA	21.6	77	+iP	09 52 25.0	3.0
LZH	25.2	84	eP	09 52 58.0	1.2
GYA	31.0	101	P	09 53 49.2	0.5
QZN	37.6	109	eP	09 54 45.4	1.2
SSE	40.5	84	eP	09 55 10.0	1.4
			epP	09 55 52.0	2.7

1987 5 4
 O=06 29 35.7 ± 0.09s

1987 5 4
 O=10 22 55.6 ± 0.10s
 LAT=28.79 N ± 1.57km
 LONG=131.63 E ± 1.48km
 DEPTH= 37 km ± 0.43km
 STATIONS USED = 53, STAND DEV = 1.88s
 $M_s=4.3/9,$

SSE	9.4	287	eP	10 25 11.0	-0.1
			PMZ		1.2 0.050
			esP	10 25 21.8	-1.8
			eSS	10 27 06.0	-3.0
			LN	$M_s=3.9$	12.0 0.78
NJ2	11.5	290	+P	10 25 40.8	0.3
			LN	$M_s=4.5$	15.0 2.60
WHN	15.1	281	eP	10 26 32.5	3.9
			S	10 29 21.0	6.1
			LN	$M_s=4.3$	10.0 0.71
CN2	15.8	343	eP	10 26 41.0	4.0
			eS	10 29 35.0	4.3

BJI	17.0	315	eP	10 26 52.5	0.6	WMQ	41.2	291	P	17 12 00.0	0.5
GZH	17.4	255	eP	10 26 59.0	1.6						
TIY	18.3	304	+P	10 27 09.0	-0.1						
			LN	Ms=4.3	13.0	0.63					
XAN	20.1	291	+P	10 27 26.4	-2.5						
			pP	10 27 37.7	-0.1						
HHC	20.3	312	eP	10 27 31.0	-0.9						
			LN	Ms=4.3	12.0	0.38					
			LE		11.0	0.26					
BTO	21.3	309	P	10 27 39.5	-1.8						
			eS	10 31 25.0	-5.7						
			LN	Ms=4.3	14.0	0.40					
			LE		13.0	0.40					
QZN	22.1	249	eP	10 27 52.4	2.5						
GYA	22.2	270	P	10 27 52.6	1.6						
LZH	24.5	294	eP	10 28 12.0	-1.2						
GTA	28.3	300	P	10 28 49.8	1.7						
			LN	Ms=4.4	20.0	0.62					
1987 5 4											
O=17 04 15.2 ± 0.11s											
LAT=43.90 N ± 2.57km											
LONG=145.95 E ± 2.32km											
DEPTH= 30 km ± 0.86km											
STATIONS USED = 58, STAND DEV = 1.87s											
Ms=4.5/ 8;											
MDJ	11.8	279	eP	17 07 06.6	2.6						
			eS	17 09 14.0	-1.2						
CN2	14.8	277	eP	17 07 44.0	-0.2						
			eS	17 10 24.0	-4.1						
			LN	Ms=5.0	15.0	5.80					
SNY	16.5	271	eP	17 08 06.3	-0.2						
BJI	22.4	270	eP	17 09 12.0	-0.9						
TIA	23.3	261	eP	17 09 19.8	-1.6						
SSE	23.3	245	eP	17 09 23.0	1.0						
			sP	17 09 36.0	1.7						
			esS	17 13 43.0	0.1						
HHC	25.5	275	eP	17 09 43.6	0.8						
			LN	Ms=4.4	12.0	0.33					
			LE		11.0	0.30					
TIY	26.0	268	eP	17 09 45.3	-2.2						
			S	17 14 12.0	-1.3						
			sS	17 14 28.0	-0.2						
			LN	Ms=4.2	13.0	0.32					
WHN	28.3	253	eP	17 10 08.5	0.1						
LZH	32.9	271	eP	17 10 48.5	-0.9						
GTA	34.4	279	eP	17 11 03.3	0.9						
			LN	Ms=4.7	12.0	0.51					
CD2	35.6	263	eP	17 11 12.0	-0.1						
KMI	39.7	256	eP	17 11 47.0	-0.1						
MDJ	87.6	325	eP	17 50 23.3	-1.1						
			SKS	18 00 48.0	6.5						
WHN	88.1	306	eP	17 50 29.0	2.3						
CN2	89.2	322	eP	17 50 31.0	-1.1						
			eS	18 01 15.0	1.7						
TIA	89.5	312	-P	17 50 34.0	0.8						
			SMN	m _B =5.6	11.0	0.65					
BJI	92.3	315	eP	17 50 46.0	-0.4						
			SMN	m _B =5.7	8.0	0.64					
TIY	93.4	311	eP	17 50 54.0	2.5						
			SMN	m _B =5.7	9.0	0.56					
1987 5 4											
O=19 06 52.5 ± 0.15s											
LAT=21.86 N ± 2.00km											
LONG=121.70 E ± 1.85km											
DEPTH= 30 km ± 1.07km											
STATIONS USED = 53, STAND DEV = 2.28s											
Ms=4.4/ 16, M _L =3.8/ 3,											
QZH	4.2	318	+Pn	19 07 54.5	-0.3						
			eSn	19 08 39.5	-4.9						
GZH	7.8	281	ePn	19 08 47.5	2.8						
			eSn	19 10 09.0	-5.3						
WHN	10.9	324	eP	19 09 31.0	1.7						
			eS	19 11 33.0	1.9						
			LN	Ms=4.4	10.0	1.43					
QZN	11.5	258	eP	19 09 41.4	4.1						
			eS	19 11 46.2	0.7						
			LN	Ms=4.3	14.0	1.00					
			LE		13.0	0.90					
XAN	16.6	320	eP	19 10 43.2	-1.1						
			LN	Ms=4.5	10.0	0.63					
			LE		12.0	0.76					
KMI	17.7	284	eP	19 11 03.0	4.3						
TIY	17.7	335	P	19 11 01.2	2.4						
			S	19 14 10.5	-1.8						
			LN	Ms=4.8	15.0	1.86					
			LE		12.0	1.09					
CD2	18.4	303	eP	19 11 07.8	0.4						
BJI	18.7	347	eP	19 11 10.0	-1.3						
			LE	Ms=4.1	16.0	0.53					

SNY	20.0	4	eP	19 11 28.0	2.6		
			LE	Ms=4.5	13.0	0.89	
HHC	20.8	338	eP	19 11 33.0	-1.0		
			LN	Ms=4.5	15.0	0.53	
			LE		14.0	0.86	
LZH	21.0	316	-P	19 11 37.0	0.2		
			PMZ		3.0	0.19	
BTO	21.1	335	eP	19 11 37.0	-0.7		
			eS	19 15 21.0	-5.7		
			LN	Ms=4.8	14.0	1.30	
			LE		13.0	1.20	
CN2	22.1	7	eP	19 11 45.5	-1.7		
			eS	19 15 38.0	-6.3		
MDJ	23.6	14	eP	19 12 02.0	0.0		
GTA	25.6	318	eP	19 12 20.0	-1.2		
			LE	Ms=4.4	12.0	0.40	
WMQ	35.6	316	eP	19 13 49.2	-0.8		

1987 5 4

O=23 17 20.7 ± 0.13s
 LAT=46.95 N ± 4.79km
 LONG= 27.41 W ± 1.94km
 DEPTH= 10 km ± 0.47km
 STATIONS USED = 37, STAND DEV = 1.66s
 Ms=5.4/ 2,

KSH	70.2	53	P	23 28 37.0	0.1		
			PP	23 31 15.0	2.0		
			eS	23 37 53.0	5.1		
			eScS	23 38 36.0	1.2		
			LE	Ms=5.5	16.0	1.50	
WMQ	73.0	43	P	23 28 53.2	-0.4		
GTA	82.0	39	-P	23 29 42.0	-1.4		
BTO	84.9	31	P	23 29 58.0	-0.5		
LZH	86.5	38	-P	23 30 06.5	0.3		
			PMZ		3.0	0.23	
BJI	87.5	27	eP	23 30 10.0	-0.9		
TIY	88.4	31	eP	23 30 15.4	0.2		
			LN	Ms=5.3	16.0	0.65	
XAN	90.3	35	eP	23 30 23.9	-0.5		

1987 5 5

O=00 31 17.2 ± 0.14s
 LAT=28.17 S ± 1.32km
 LONG=176.38 W ± 1.68km
 DEPTH= 32 km ± 0.45km
 STATIONS USED = 25, STAND DEV = 0.89s

SSE	83.7	310	P	00 43 45.5	0.3		
			pP	00 43 55.8	1.1		
			eS	00 54 04.0	-0.9		
			esS	00 54 24.0	3.4		

MDJ	87.6	325	+P	00 44 04.5	0.2		
CN2	89.2	322	eP	00 44 12.0	-0.1		
GYA	91.7	299	P	00 44 25.2	1.5		
BJI	92.3	315	eP	00 44 26.5	-0.1		
XAN	93.9	307	eP	00 44 33.0	-0.7		

1987 5 5

O=04 04 07.6 ± 0.15s
 LAT=34.48 N ± 1.50km
 LONG=104.61 E ± 1.68km
 DEPTH= 14 km ± 0.08km
 STATIONS USED = 23, STAND DEV = 3.29s

M_L=3.8/ 9,

LZH	1.7	339	Pn	04 04 34.5	-3.3		
			Pg	04 04 35.5	-2.5		
			Sn	04 04 57.0	-4.1		
			SMN	M _L =4.2	1.0	1.71	
			SME		1.0	2.82	
XAN	3.6	96	Pn	04 05 04.5	1.0		
			Pg	04 05 12.5	1.3		
			Sg	04 06 01.9	1.4		
			SMN	M _L =3.8	0.7	0.25	
			SME		0.8	0.24	
CD2	3.6	192	Pn	04 05 05.4	1.4		
			Pg	04 05 17.0	5.2		
			Sg	04 06 05.8	4.3		
			SMN	M _L =3.5	0.8	0.11	
			SME		1.0	0.12	
GTA	6.2	323	Pn	04 05 37.6	-2.2		
TIY	7.1	61	ePg	04 06 18.4	5.1		
			S*	04 07 28.6	-4.5		
			SMN	M _L =3.8	0.8	0.030	
			SME		0.6	0.050	
BTO	7.5	34	ePg	04 06 24.6	5.0		
GYA	8.2	167	P	04 06 08.0	-1.3		

1987 5 5

O=04 33 44.0 ± 0.11s
 LAT=45.00 N ± 1.27km
 LONG= 93.79 E ± 0.90km
 DEPTH= 14 km
 STATIONS USED = 11, STAND DEV = 2.44s

M_L=3.9/ 6,

WMQ	4.5	257	Pn	04 34 55.4	2.9		
			Sg	04 36 04.4	-1.1		
			SMN	M _L =4.2	0.8	0.35	
GTA	7.2	139	Pn	04 35 28.7	-0.2		

1987 5 5

O=05 19 42.4 ± 0.10s

LAT=37.29 N ± 2.14km
 LONG=141.41 E ± 1.85km
 DEPTH= 90 km ± 1.13km
 STATIONS USED = 51, STAND DEV= 1.99s

MDJ	11.5	313	P	05 22 29.5	3.8
CN2	13.8	303	cP	05 22 54.0	-0.9
SNY	14.5	294	cP	05 23 08.4	4.2
DL2	15.7	282	cP	05 23 23.5	4.2
NJ2	19.3	261	cP	05 24 02.5	0.0
TIA	19.5	274	cP	05 24 03.1	-1.8
BJI	19.9	286	cP	05 24 07.0	-2.1
TIY	23.0	280	cP	05 24 40.6	0.6
			S	05 28 43.0	4.0
WHN	23.4	261	cP	05 24 45.0	0.9
XAN	26.5	273	P	05 25 13.4	-0.4
GYA	31.3	260	P	05 25 56.0	-0.3
GTA	32.5	287	P	05 26 08.0	1.0
WMQ	40.7	297	P	05 27 19.2	2.9

1987 5 5
 O=10 40 44.1 ± 0.22s
 LAT=42.56 N ± 3.37km
 LONG= 46.79 E ± 1.79km
 DEPTH= 32 km ± 0.50km
 STATIONS USED = 25, STAND DEV= 1.68s

KSH	22.2	88	cP	10 45 40.5	0.9
WMQ	29.7	73	P	10 46 48.9	-0.4
GTA	39.6	76	-P	10 48 15.0	0.1
XAN	48.5	78	cP	10 49 26.2	-0.4
BJI	50.8	68	cP	10 49 44.0	-0.3
DL2	55.1	67	cP	10 50 15.0	-0.9
CN2	55.3	60	P	10 50 16.0	-1.0

1987 5 5
 O=15 40 46.9 ± 0.06s
 LAT=36.52 N ± 1.33km
 LONG= 70.59 E ± 1.18km
 DEPTH=203 km ± 0.46km
 STATIONS USED = 96, STAND DEV= 1.06s
 m_B=5.9 / 44

KSH	5.2	54	-iP	15 42 05.0	0.5
			S	15 43 02.0	-2.1
			LN		6.0 39.7
WMQ	15.0	56	-iP	15 44 09.0	-0.9
			sP	15 45 02.0	0.2
			S	15 46 46.0	-3.9
LSA	18.5	106	+P	15 44 50.6	-0.3
			sP	15 45 43.0	-4.4
			S	15 48 12.0	6.3
			SMN	m _B =6.1	6.0 5.63

			iScS	15 56 08.0	2.4		
GTA	23.2	74	+iP	15 45 37.9	0.9		
			pP	15 46 18.0	-2.1		
			sP	15 46 38.5	-0.8		
			PcP	15 49 18.7	-1.1		
			S	15 49 36.5	6.8		
			SME			13.0	23.5
			iScS	15 56 22.0	0.0		
			LE			11.0	6.48
LZH	26.7	81	+iP	15 46 10.0	-0.1		
			PMZ			2.5	0.82
			pP	15 46 51.0	1.0		
			PP	15 47 04.0	-0.4		
			sP	15 47 16.0	2.3		
			PcP	15 49 27.5	0.0		
			S	15 50 29.0	0.7		
			sS	15 51 37.0	-3.0		
			SS	15 52 00.5	-2.3		
CD2	28.1	92	+iP	15 46 22.2	0.2		
			PMZ			1.2	1.02
			sP	15 47 27.0	1.1		
			PcP	15 49 31.8	1.0		
			S	15 50 46.0	-3.7		
KMI	29.7	103	+iP	15 46 37.0	0.1		
			PMZ	m _B =6.1		5.0	2.20
			pP	15 47 22.0	4.6		
			sP	15 47 42.0	1.0		
			PcP	15 49 36.5	1.6		
			iS	15 51 17.0	-0.2		
			SME	m _B =5.8		7.0	4.40
			ScP	15 52 58.0	1.8		
			isS	15 52 31.0	1.9		
			SS	15 53 10.5	0.9		
			PcS	15 53 17.0	0.3		
			LN			12.0	3.00
BTO	30.9	70	+iP	15 46 47.0	-0.3		
			PMZ	m _B =6.0		7.0	2.20
			pP	15 47 29.0	0.8		
			sP	15 47 53.0	1.4		
			S	15 51 36.0	1.3		
			sS	15 52 50.0	1.9		
			LN			11.0	2.70
			LE			11.0	3.00
XAN	31.3	83	+P	15 46 48.9	-1.2		
			PMZ	m _B =5.9		8.0	1.95
			sP	15 47 53.0	-1.6		
			PcP	15 49 37.5	-1.4		
			iS	15 51 39.9	-1.0		
			SMN	m _B =5.6		8.0	2.26
			SME			8.0	2.24

			sS	15 52 58.0	4.5				ScP	15 53 21.4	-0.8			
			PcS	15 53 22.0	0.2				S	15 53 05.0	-6.2			
			SS	15 53 38.0	-5.1				SMN	$m_B = 5.8$		12.0	1.94	
			ScS	15 56 54.0	-3.7				SME			10.0	2.37	
HHC	32.1	70	+P	15 46 57.0	-0.2				sS	15 54 30.0	3.9			
			pP	15 47 42.0	3.5				ScS	15 57 27.6	-1.7			
			sP	15 47 59.0	-2.7				LN			12.5	4.14	
			PP	15 48 06.5	-4.6				LE			12.0	2.00	
			PcP	15 49 35.0	-6.1			QZN	38.5	106	+P	15 47 51.5	-0.3	
			S	15 51 59.0	6.5				PMZ	$m_B = 5.7$		6.0	1.50	
			LN			10.0	1.36		sP	15 48 58.0	0.7			
			LE			10.0	1.54		ScP	15 53 27.0	-0.3			
GYA	32.2	98	+P	15 46 58.6	0.2				S	15 53 30.0	-1.6			
			PMZ			1.2	1.30		SME	$m_B = 5.9$		11.0	3.60	
			sP	15 48 03.0	0.2				PcS	15 53 51.0	3.1			
			PcP	15 49 43.0	1.5				SS	15 56 25.0	3.1			
			S	15 51 55.0	0.5				ScS	15 57 39.0	1.9			
			SMN	$m_B = 6.0$		7.0	2.80		LN			16.0	2.70	
			SME			7.0	4.90		LE			15.0	1.80	
			ScP	15 53 04.0	-0.3			GZH	39.1	98	+iP	15 47 57.5	0.8	
			PcS	15 53 25.0	0.1				sP	15 49 01.0	-1.2			
			ScS	15 57 00.0	-2.4				iS	15 53 41.0	-0.3			
TIY	33.2	75	+iP	15 47 07.0	0.1				SMN	$m_B = 6.2$		7.0	2.93	
			PMZ			1.2	0.29		SME			9.0	3.62	
			sP	15 48 12.0	0.5				SS	15 56 38.0	3.8			
			S	15 52 12.0	2.0				LN			10.0	1.96	
			SMN	$m_B = 5.8$		5.5	1.66		LE			10.0	2.43	
			SME			8.0	3.17	NJ2	39.8	82	+iP	15 48 02.0	-0.2	
			sS	15 53 19.5	-4.6				PMZ	$m_B = 6.0$		6.5	2.90	
			PcS	15 53 28.0	-0.4				sP	15 49 09.5	1.8			
			ScS	15 57 10.0	2.4				PP	15 49 43.0	2.6			
BJI	35.7	70	eP	15 47 27.5	-0.2				PcP	15 50 03.8	-0.4			
			esP	15 48 32.0	-0.8				ScP	15 53 31.5	-0.6			
			PcP	15 49 52.5	1.2				iS	15 53 53.0	1.7			
			ScP	15 53 16.5	-0.1				SME	$m_B = 6.3$		9.5	7.30	
			PcS	15 53 39.5	2.3				sS	15 55 09.0	3.0			
			eS	15 52 50.0	1.2			DL2	40.0	71	+P	15 48 03.0	-1.0	
			esS	15 54 03.0	0.6				S	15 53 54.0	0.4			
			eSS	15 55 17.0	-3.2				LN			10.0	1.40	
			ScS	15 57 20.5	-0.3				LE			13.0	4.30	
WHN	36.7	86	+iP	15 47 38.0	1.4			SNY	40.9	66	+iP	15 48 10.0	-1.0	
			PMZ	$m_B = 6.2$		6.0	4.50		PMZ	$m_B = 5.8$		7.0	2.35	
			sP	15 48 44.0	2.2				PP	15 49 57.0	6.2			
			iS	15 53 05.0	0.0				PcP	15 50 07.0	-0.6			
			SMN	$m_B = 5.8$		9.0	2.76		ScP	15 53 30.0	-6.4			
			ScP	15 53 21.2	0.7				S	15 54 06.0	-0.3			
			sS	15 54 21.0	2.1				SMN	$m_B = 5.7$		11.0	1.04	
TIA	37.2	76	+P	15 47 40.3	-0.2				SME			10.0	1.56	
			PMZ	$m_B = 6.0$		7.5	3.34		sS	15 55 23.0	0.7			
			sP	15 48 46.0	0.2				ScS	15 57 51.4	0.6			

LONG = 179.77 W ± 1.10km
 DEPTH = 32 km ± 0.06km
 STATIONS USED = 29, STAND DEV = 0.98s

SNY	39.2	279	+P	04 25 51.8	0.7
BJI	44.8	282	cP	04 26 37.5	0.4
TIA	46.6	277	+P	04 26 51.2	0.0
TIY	48.5	281	-P	04 27 08.0	1.4
XAN	53.1	280	P	04 27 40.4	-0.7
WMQ	58.9	302	P	04 28 23.2	0.4
GYA	59.7	275	P	04 28 27.4	-1.3

1987 5 6
 O = 05 16 15.9 ± 0.18s
 LAT = 51.37 N ± 3.30km
 LONG = 179.94 W ± 1.29km
 DEPTH = 33 km ± 0.25km
 STATIONS USED = 29, STAND DEV = 1.02s

SNY	39.1	279	cP	05 23 42.6	0.7
BJI	44.7	281	cP	05 24 28.0	0.2
TIY	48.4	281	cP	05 24 58.0	0.6
GTA	54.9	291	-iP	05 25 46.0	-0.4
WMQ	58.7	302	P	05 26 13.0	-0.6

1987 5 6
 O = 09 10 35.7 ± 0.03s
 LAT = 35.06 N ± 0.27km
 LONG = 106.78 E ± 0.28km
 DEPTH = 18 km ± 0.10km
 STATIONS USED = 8, STAND DEV = 1.48s
 $M_L = 3.1 / 5,$

XAN	2.0	119	-Pn	09 11 10.3	0.5
			Pg	09 11 12.8	1.0
			Sg	09 11 40.9	1.1
			SMN	$M_L = 3.1$	0.6 0.15
			SME		0.4 0.16
TIY	5.3	58	ePg	09 12 09.4	0.3
			SMN	$M_L = 3.8$	0.4 0.080
			SME		0.4 0.11

1987 5 6
 O = 12 39 49.2 ± 0.17s
 LAT = 5.56 S ± 2.55km
 LONG = 152.76 E ± 3.75km
 DEPTH = 24 km ± 0.75km
 STATIONS USED = 91, STAND DEV = 2.06s
 $M_S = 6.0 / 46,$ $m_B = 6.0 / 15$

QZH	45.0	314	cP	12 48 04.5	-0.4
			LN	$M_S = 5.7$	16.5 5.00
SSE	47.3	322	+P	12 48 26.0	2.7
			PMZ		1.5 0.060

			ScP	12 53 40.0	-4.8
			cS	12 55 08.0	-6.9
			eScS	12 58 08.0	-4.4
			LN	$M_S = 6.0$	20.0 5.52
			LE		18.0 7.95
GZH	47.9	308	cP	12 48 27.6	-0.3
			cS	12 55 17.0	-6.0
			ScS	12 58 20.0	3.9
			LN	$M_S = 6.2$	17.0 10.2
			LE		17.0 7.80
QZN	48.8	301	P	12 48 36.6	1.5
			PcP	12 49 54.0	-5.2
			S	12 55 39.5	4.4
			LN	$M_S = 6.0$	19.0 9.70
NJ2	49.4	321	+P	12 48 43.0	3.4
			PMZ	$m_B = 6.1$	6.0 1.80
			S	12 55 40.5	-2.8
			SS	12 59 06.0	-5.1
WHN	51.4	317	cP	12 48 56.5	1.9
			S	12 56 16.0	5.5
			LN	$M_S = 5.8$	16.0 4.58
DL2	52.8	330	-P	12 49 07.0	1.7
			cS	12 56 35.0	3.9
			LN	$M_S = 6.0$	16.0 7.06
TIA	53.3	324	cP	12 49 07.3	-1.8
			cS	12 56 32.7	-5.3
			SME	$m_B = 5.7$	10.0 1.00
			SS	13 00 18.2	2.3
			LN	$M_S = 6.0$	17.0 6.85
			LE		17.0 2.98
MDJ	54.1	340	cP	12 49 12.5	-2.6
			PP	12 51 20.0	2.7
			cS	12 56 47.0	-2.0
SNY	54.2	333	-P	12 49 16.0	0.6
			PMZ	$m_B = 5.9$	7.0 1.03
			PcP	12 50 13.0	-6.0
			S	12 56 53.0	4.5
			LN	$M_S = 6.3$	28.0 16.9
			LE		25.0 13.3
GYA	54.8	308	P	12 49 19.6	-0.8
			PP	12 51 25.0	1.4
			LN	$M_S = 6.1$	18.0 6.70
			LE		18.0 5.40
CN2	55.0	336	cP	12 49 16.5	-4.9
			PMZ	$m_B = 6.0$	5.0 1.00
			LN	$M_S = 6.2$	20.0 11.7
BJI	56.5	327	cP	12 49 32.0	-0.3
			PMZ	$m_B = 6.0$	6.0 1.12
			cS	12 57 16.0	-4.9
			LN	$M_S = 6.2$	32.0 18.4

DL2	15.2	245	-iP	03 09 03.0	-0.4			WHN	25.2	239	-iP	03 10 40.0	0.6			
			PMZ		$m_B = 6.8$	7.0	23.2				PMZ			3.0	5.15	
			iS	03 11 39.0	-1.7						sP	03 12 47.0	2.7			
			SMN		$m_B = 6.9$	6.0	92.3				iS	03 14 30.0	-3.2			
			SME			9.0	110				ScP	03 16 58.5	2.7			
			LN			7.0	38.6				ScS	03 20 47.5	3.3			
			LE			7.0	25.1	XAN	26.3	252	-iP	03 10 48.0	-0.9			
BJI	18.1	257	-iP	03 09 32.5	-0.4						PMZ		$m_B = 6.1$	10.0	9.02	
			PMZ		$m_B = 6.6$	8.0	19.3				sP	03 12 58.0	3.6			
			esP	03 11 20.0	-3.3						S	03 14 51.0	1.9			
			S	03 12 35.0	1.0						ScP	03 16 55.0	-3.8			
			ScS	03 20 19.5	1.5			QZH	27.4	224	-P	03 10 58.5	0.0			
TIA	19.6	246	-iP	03 09 48.4	0.4						sP	03 13 00.0	-4.9			
			PMZ		$m_B = 6.7$	8.0	23.2				SMN		$m_B = 6.3$	10.0	13.7	
			sP	03 11 46.0	3.0						SME			9.0	14.4	
			iS	03 13 04.0	2.5						LZH	28.5	261	-iP	03 11 09.0	0.5
			SMN		$m_B = 7.1$	12.0	142				PMZ		$m_B = 6.5$	4.0	9.43	
			SME			10.5	136				S	03 15 24.0	0.2			
			ScS	03 20 23.4	0.3						PcS	03 17 50.0	2.3			
HHC	20.9	264	-iP	03 10 00.0	0.3						ScS	03 21 05.0	6.4			
			sP	03 11 59.0	0.9						LN			10.0	14.5	
			SME		$m_B = 6.6$	10.0	45.6				LE			10.0	16.1	
			LN			10.0	11.9	GTA	29.6	270	-iP	03 11 18.5	0.5			
			LE			10.0	22.1				PMZ		$m_B = 6.5$	4.0	9.49	
SSE	21.0	228	+iP	03 10 02.0	1.1						pP	03 12 34.5	-0.7			
			PMZ			1.0	0.74				sP	03 13 20.5	-4.7			
			sP	03 11 58.0	-1.9						iS	03 15 37.0	-4.9			
			S	03 13 29.0	5.2						SMN		$m_B = 6.6$	6.0	12.0	
			SMN		$m_B = 7.0$	6.0	22.5				SME			6.0	14.9	
			SME			6.0	59.4				sS	03 17 56.0	-4.1			
			ScP	03 16 48.0	3.2			GZH	31.6	231	-iP	03 11 35.2	0.2			
			PcS	03 17 29.0	2.2						PMZ		$m_B = 6.1$	4.0	3.10	
			ScS	03 20 30.0	2.3						pP	03 12 54.0	0.3			
			LN			12.0	17.4				sP	03 13 43.0	-0.2			
			LE			12.0	13.6				S	03 16 08.0	-3.8			
NJ2	21.5	234	-iP	03 10 05.5	-0.2						SMN		$m_B = 6.3$	11.0	8.39	
			PMZ		$m_B = 6.6$	5.0	11.3				SME			10.0	12.7	
			sP	03 12 09.0	2.9						sS	03 18 36.0	3.0			
			S	03 13 26.0	-6.3						SS	03 18 45.0	-3.5			
			ScP	03 16 46.0	0.0			CD2	31.6	253	-iP	03 11 35.0	-0.5			
TIY	21.8	255	-iP	03 10 09.5	0.9						iS	03 16 10.0	-3.6			
			PMZ			1.2	0.94				SMN		$m_B = 6.7$	6.0	21.8	
			iS	03 13 40.0	1.9						GYA	32.8	243	-P	03 11 44.4	-1.4
			SMN		$m_B = 6.5$	6.0	13.1				PMZ		$m_B = 6.2$	4.0	4.60	
			SME			6.0	17.4				pP	03 13 05.0	0.0			
			PcP	03 13 53.5	1.4						S	03 16 27.0	-4.1			
			LN			22.0	80.9				SMN		$m_B = 6.5$	6.0	9.20	
BTO	22.0	264	-iP	03 10 10.7	0.0						SME			6.0	11.5	
			esP	03 12 07.6	-4.4						LN			14.0	55.4	
			S	03 13 43.6	2.8						LE			14.0	83.4	

WMQ	35.9	285	-iP	03 12 12.6	0.5		
			PMZ	$m_B = 6.8$		4.0	15.7
			PP	03 13 50.0	3.2		
			PcP	03 14 34.0	6.2		
			S	03 17 12.0	-6.6		
			SME	$m_B = 6.8$		6.0	26.2
			ScP	03 17 35.0	4.0		
			sS	03 19 40.5	-2.1		
			ScS	03 21 38.0	0.9		
KMI	36.2	246	-iP	03 12 15.0	0.5		
			PMZ	$m_B = 6.5$		4.0	7.30
			pP	03 13 32.0	-3.0		
			sP	03 14 20.0	-3.7		
			ScP	03 17 39.0	6.9		
			iS	03 17 21.0	-3.1		
			SMN	$m_B = 6.8$		6.0	23.8
			SS	03 20 15.0	-0.2		
QZN	36.7	231	-iP	03 12 19.8	1.2		
			PP	03 13 57.0	1.2		
			PcP	03 14 33.0	2.8		
			ScP	03 17 39.0	5.0		
			iS	03 17 32.5	0.9		
			SMN	$m_B = 6.6$		11.0	12.4
			SME			11.5	23.5
			sS	03 19 52.0	-3.1		
			SS	03 20 28.0	3.2		
			ScS	03 21 45.0	3.3		
LSA	40.8	263	-iP	03 12 52.8	0.1		
			pP	03 14 13.5	-1.1		
			iS	03 18 30.0	-3.0		
			SME	$m_B = 6.5$		7.0	11.2
KSH	45.7	285	-iP	03 13 32.0	0.9		
			iS	03 19 44.0	2.0		
			sS	03 22 09.0	-2.7		
			LE			13.0	36.9
1987 5 7							
			O	= 04 14 44.4		$\pm 0.05s$	
			LAT	= 37.65 N		$\pm 0.46km$	
			LONG	= 102.55 E		$\pm 0.42km$	
			DEPTH	= 6 km		$\pm 0.12km$	
			STATIONS USED	= 8,	STAND DEV	= 2.09s	
			M_L	= 3.1 / 6,			
LZH	1.9	146	Pn	04 15 17.0	-0.5		
			Sn	04 15 44.5	1.4		
			SMN	$M_L = 3.2$		0.5	0.28
			SME			0.5	0.20
GTA	2.8	310	+Pn	04 15 32.1	2.3		
			Pg	04 15 32.8	-0.5		
			Sg	04 16 06.2	-5.1		

			SMN	$M_L = 3.1$			
			SME				
1987 5 7							
			O	= 08 56 52.0		$\pm 0.11s$	
			LAT	= 36.70 N		$\pm 1.99km$	
			LONG	= 26.80 E		$\pm 1.37km$	
			DEPTH	= 150 km		$\pm 0.30km$	
			STATIONS USED	= 46,	STAND DEV	= 1.29s	
WMQ	46.1	61	P	09 05 04.8	1.5		
GTA	56.1	63	P	09 06 18.2	-0.2		
LZH	60.3	65	cP	09 06 48.5	0.4		
CD2	62.6	71	cP	09 07 03.5	0.3		
KMI	64.6	77	cP	09 07 16.5	-0.2		
XAN	65.0	65	+P	09 07 18.8	0.2		
TIY	65.7	60	cP	09 07 23.7	0.1		
GYA	67.0	73	P	09 07 30.8	-0.9		
BJI	67.2	56	cP	09 07 32.0	-0.5		
TIA	69.7	60	cP	09 07 42.9	-5.5		
SNY	71.1	52	cP	09 07 55.4	-0.9		
1987 5 7							
			O	= 14 20 24.2		$\pm 0.07s$	
			LAT	= 43.56 N		$\pm 1.98km$	
			LONG	= 148.14 E		$\pm 1.27km$	
			DEPTH	= 41 km		$\pm 0.35km$	
			STATIONS USED	= 37,	STAND DEV	= 1.22s	
MDJ	13.4	281	cP	14 23 34.0	-0.1		
CN2	16.4	279	cP	14 24 12.0	-1.4		
BJI	24.0	273	cP	14 25 36.0	-0.4		
NJ2	25.7	253	cP	14 25 53.0	0.4		
TIY	27.6	270	cP	14 26 10.0	0.0		
BTO	28.3	277	cP	14 26 15.8	-0.6		
XAN	31.8	266	cP	14 26 46.0	-1.2		
LZH	34.5	273	cP	14 27 10.5	-0.6		
GTA	36.0	280	P	14 27 23.1	-1.0		
CD2	37.1	265	cP	14 27 32.4	-0.6		
GYA	37.6	257	P	14 27 35.0	-2.1		
WMQ	42.8	292	P	14 28 20.0	-0.5		
1987 5 7							
			O	= 15 22 55.8		$\pm 0.09s$	
			LAT	= 28.20 N		$\pm 1.86km$	
			LONG	= 129.06 E		$\pm 1.42km$	
			DEPTH	= 96 km		$\pm 0.95km$	
			STATIONS USED	= 24,	STAND DEV	= 1.94s	
SSE	7.4	295	-P	15 24 41.0	-2.4		
			pP	15 24 48.0	4.7		
CN2	15.8	350	cP	15 26 38.6	4.0		
BJI	15.9	321	cP	15 26 35.0	-0.3		

TIY	16.8	308	eP	15 26 48.0	0.7		
XAN	18.2	294	P	15 27 02.0	-1.5		
			LN			10.0	0.34
			LE			10.0	0.21
GYA	20.0	270	eP	15 27 25.0	1.9		
CD2	22.2	283	eP	15 27 44.6	-0.4		
LZH	22.7	297	eP	15 27 50.0	-0.5		
GTA	26.6	302	P	15 28 26.2	-1.5		

1987 5 7

O=15 30 06.3 ± 0.09s

LAT=42.01 N ± 1.14km

LONG= 84.09 E ± 0.77km

DEPTH= 5 km ± 0.39km

STATIONS USED = 10, STAND DEV = 2.19s

$M_L=3.3/7,$

WMQ	3.2	55	ePn	15 31 01.0	3.2		
			Pg	15 31 06.6	3.6		
			Sg	15 31 45.3	-1.6		
			SME			$M_L=3.3$	0.6 0.11

1987 5 7

O=17 51 58.9 ± 0.13s

LAT=41.40 N ± 1.33km

LONG= 79.57 E ± 1.50km

DEPTH= 6 km ± 0.21km

STATIONS USED = 10, STAND DEV = 3.45s

$M_L=3.6/5,$

KSH	3.4	236	Pn	17 52 55.4	3.1		
			Sg	17 53 40.6	-3.5		
			SMN			$M_L=3.6$	0.2 0.20
			SME				0.2 0.20
WMQ	6.5	65	ePn	17 53 37.8	2.8		
			Sg	17 55 23.8	2.4		
			SMN			$M_L=3.4$	0.8 0.020
			SME				0.8 0.020
GTA	15.5	91	eP	17 55 40.1	-0.6		

1987 5 7

O=21 52 41.1 ± 0.15s

LAT=27.02 N ± 2.87km

LONG=129.44 E ± 2.82km

DEPTH= 38 km ± 0.99km

STATIONS USED = 25, STAND DEV = 2.92s

$M_s=4.1/4,$

SSE	8.3	301	eP	21 54 38.0	-3.7		
			LN			$M_s=4.0$	12.0 0.78
			LE				12.0 0.82
NJ2	10.5	301	eP	21 55 10.0	-2.2		
			LE			$M_s=4.1$	13.0 1.10

BJI	17.0	323	eP	21 56 37.5	-0.6		
CN2	17.0	350	eP	21 56 41.0	2.6		
			eS	21 59 50.0	4.7		
TIY	17.9	311	eP	21 56 48.0	-0.7		
			LN			$M_s=4.1$	14.0 0.37
			LE				14.0 0.36
GYA	20.3	274	eP	21 57 18.0	0.7		
			S	22 00 56.0	-1.8		
			LE			$M_s=4.3$	14.0 0.60
CD2	22.8	286	eP	21 57 39.4	-2.4		
LZH	23.6	299	eP	21 57 49.0	-0.4		
KMI	24.0	271	eP	21 57 55.0	0.8		
GTA	27.6	304	-P	21 58 23.5	-3.6		

1987 5 7

O=22 12 17.6 ± 0.11s

LAT= 8.88 N ± 1.58km

LONG=126.31 E ± 2.63km

DEPTH= 68 km ± 0.32km

STATIONS USED = 26, STAND DEV = 2.81s

QZN	18.9	304	eP	22 16 37.0	1.7		
SSE	22.6	349	P	22 17 14.9	1.2		
			PMZ				1.0 0.020
BJI	32.3	345	eP	22 18 42.0	-0.7		
SNY	32.9	356	+iP	22 18 47.7	-0.1		
CN2	34.8	359	P	22 19 04.0	-0.1		
MDJ	35.7	4	+P	22 19 12.5	0.6		

1987 5 8

O=03 09 39.7 ± 0.08s

LAT= 5.55 S ± 1.05km

LONG=146.08 E ± 1.48km

DEPTH= 58 km ± 0.62km

STATIONS USED = 66, STAND DEV = 0.96s

QZN	43.2	305	eP	03 17 38.2	0.6		
			eS	03 23 58.0	-1.7		
SSE	43.5	328	+P	03 17 40.5	0.8		
			PMZ				1.0 0.030
			pP	03 17 48.8	-5.0		
NJ2	45.5	327	-P	03 17 56.6	1.0		
			pP	03 18 05.5	-4.2		
WHN	47.0	322	-P	03 18 09.8	2.2		
			pP	03 18 18.0	-3.7		
TIA	49.6	329	P	03 18 27.5	-0.3		
GYA	49.7	312	P	03 18 27.6	-1.0		
SNY	51.4	339	eP	03 18 41.1	-0.5		
KMI	52.0	308	eP	03 18 47.0	0.9		
MDJ	52.1	345	eP	03 18 45.5	-1.0		
CN2	52.5	341	eP	03 18 49.4	-0.5		
XAN	52.8	321	+P	03 18 51.0	-0.6		

BJI	53.1	331	eP	03 18 52.5	-1.3
TIY	53.2	327	eP	03 18 54.0	-1.1
CD2	54.3	315	eP	03 19 02.7	-0.3
HHC	56.0	329	eP	03 19 15.2	0.0
BTO	56.6	328	eP	03 19 19.4	-0.3
LZH	57.3	320	+iP	03 19 24.5	0.0
GTA	61.8	321	+P	03 19 55.4	-0.3
WMQ	71.8	320	P	03 20 59.0	-0.1

1987 5 8

O=07 39 08.1 ± 0.12s
 LAT= 5.47 S ± 1.74km
 LONG=152.82 E ± 2.75km
 DEPTH= 49 km ± 0.82km
 STATIONS USED = 50, STAND DEV= 1.36s

QZN	48.8	301	eP	07 47 52.7	1.7
WHN	51.4	317	eP	07 48 11.5	1.2
TIA	53.3	324	eP	07 48 24.0	-0.6
MDJ	54.1	340	eP	07 48 29.6	-0.8
GYA	54.8	308	P	07 48 34.4	-1.7
CN2	54.9	336	eP	07 48 34.4	-2.3
		PcP	07 49 37.5	0.4	
BJI	56.5	327	eP	07 48 47.0	-0.8
TIY	57.1	322	eP	07 48 51.9	-0.4
XAN	57.1	317	P	07 48 51.6	-1.0
KMI	57.4	304	eP	07 48 55.0	0.4
CD2	59.2	311	eP	07 49 07.0	-0.1
LZH	61.7	316	eP	07 49 25.0	0.5
GTA	66.2	317	P	07 49 53.8	0.3
KSH	83.4	311	eP	07 51 35.0	2.7

1987 5 8

O=09 17 00.2 ± 0.50s
 LAT=23.62 N ± 3.49km
 LONG=120.52 E ± 2.28km
 DEPTH= 14 km
 STATIONS USED = 8, STAND DEV= 1.95s

$M_L=3.1/6,$

QZH	2.2	307	-iPg	09 17 38.0	-1.0
		Sg	09 18 16.0	7.0	
		SMN	$M_L=3.2$	0.3 0.23	
		SME		0.3 0.12	

1987 5 8

O=12 49 42.1 ± 0.07s
 LAT= 4.19 S ± 0.93km
 LONG=152.73 E ± 1.46km
 DEPTH=129 km ± 0.47km
 STATIONS USED = 49, STAND DEV= 1.00s

TIA	52.2	323	eP	12 58 42.0	-0.2
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MDJ	52.8	339	eP	12 58 46.5	-0.5
		pP	12 59 14.5	-2.2	
CN2	53.7	336	P	12 58 52.6	-0.9
		pP	12 59 21.2	-2.1	
BJI	55.3	326	eP	12 59 04.0	-1.4
XAN	56.1	316	eP	12 59 10.8	-0.3
		pP	12 59 42.0	0.9	
CD2	58.3	310	P	12 59 26.8	0.6
LZH	60.7	316	eP	12 59 45.0	1.8
		pP	13 00 13.5	0.0	
GTA	65.2	317	P	13 00 12.8	0.4
		pP	13 00 42.8	-0.1	
LSA	67.8	304	eP	13 00 28.8	-0.8
WMQ	75.2	317	P	13 01 13.8	0.5
		pP	13 01 44.0	-0.7	

1987 5 8

O=18 20 22.7 ± 0.13s
 LAT=26.17 N ± 1.19km
 LONG=100.53 E ± 0.92km
 DEPTH= 14 km ± 0.55km
 STATIONS USED = 13, STAND DEV= 3.02s

$M_L=3.9/2,$

KMI	2.2	117	Pg	18 21 03.5	0.7
		Sg	18 21 31.5	-1.8	
		SMN	$M_L=3.8$	1.0 0.60	
		SME		0.5 0.70	
CD2	5.5	30	ePn	18 21 47.5	2.6
		Sn	18 22 50.7	0.6	
GYA	5.5	86	P*	18 21 49.0	-5.5
		Sn	18 22 51.0	0.8	
WHN	12.9	67	eP	18 23 32.7	3.6

1987 5 8

O=19 45 32.1 ± 0.12s
 LAT=18.18 N ± 1.92km
 LONG=119.79 E ± 2.18km
 DEPTH= 22 km ± 0.54km
 STATIONS USED = 46, STAND DEV= 2.11s

$M_s=4.5/14, M_L=3.9/5,$

QZH	6.8	351	Pn	19 47 10.8	-0.6
		SMN	$M_L=3.9$	0.7 0.040	
		SME		0.8 0.090	
GZH	7.8	310	ePn	19 47 25.0	0.6
		Sn	19 48 51.0	-3.0	
		LN	$M_s=4.5$	13.0 3.88	
QZN	9.5	277	+P	19 47 48.3	-2.3
		eS	19 49 34.1	-3.4	
		LN	$M_s=4.0$	12.0 0.80	
		LE		12.0 0.50	

KMI	17.3	297	eP	19 49 29.0	-5.3		
			LE		$M_s=4.5$	12.0	1.10
TIA	18.1	353	eP	19 49 46.7	2.3		
			LE		$M_s=4.5$	15.0	1.36
XAN	18.5	330	P	19 49 50.8	1.0		
			eS	19 53 12.0	-1.1		
			LN		$M_s=4.7$	14.0	1.36
			LE			14.0	1.01
CD2	19.3	314	P	19 50 00.1	1.4		
TIY	20.5	343	eP	19 50 13.9	2.1		
			S	19 53 54.0	-0.7		
			sS	19 54 07.0	1.1		
			LN		$M_s=4.3$	11.0	0.13
			LE			15.0	0.60
BJI	22.0	353	eP	19 50 28.5	1.5		
			eS	19 54 30.0	6.1		
			LE		$M_s=4.3$	16.0	0.66
LZH	22.7	325	eP	19 50 37.0	2.5		
			LN		$M_s=4.9$	12.0	1.51
SNY	23.8	7	eP	19 50 40.0	-4.5		
			S	19 55 00.0	4.9		
			LE		$M_s=4.6$	15.0	0.93
BTO	23.9	341	eP	19 50 49.4	3.9		
GTA	27.3	325	P	19 51 19.5	1.3		
			LE		$M_s=4.6$	15.0	0.73
MDJ	27.6	15	eP	19 51 20.5	0.1		
			eS	19 55 56.0	-3.4		

1987 5 8

O=19 54 27.1 ± 0.14s
 LAT=26.11 N ± 1.25km
 LONG=100.57 E ± 1.03km
 DEPTH= 17 km ± 0.62km

STATIONS USED = 13, STAND DEV = 2.89s
 $M_L=3.6/5,$

KMI	2.2	116	Pg	19 55 06.5	0.3		
			Sg	19 55 35.0	-0.9		
			SMN		$M_L=3.8$	0.5	0.80
			SME			0.5	0.50
GYA	5.5	85	ePn	19 55 49.4	0.8		
			SMN		$M_L=3.6$	1.2	0.060
CD2	5.5	30	ePn	19 55 51.7	2.3		
			Sn	19 56 55.6	0.7		
XAN	10.7	40	eP	19 57 00.0	-3.2		

1987 5 8

O=20 35 57.1 ± 0.10s
 LAT= 9.81 N ± 1.65km
 LONG=126.21 E ± 2.50km
 DEPTH= 50 km ± 0.46km

STATIONS USED = 66, STAND DEV = 1.52s							
$M_s=4.4/7,$							
$m_B=5.2/3$							
QZN	18.3	302	eP	20 40 11.6	2.5		
			LN		$M_s=4.4$	15.0	0.50
			LE			16.0	0.90
SSE	21.7	348	eP	20 40 46.0	0.3		
			PMZ			1.0	0.070
			eS	20 44 40.0	2.6		
			sS	20 44 54.0	-2.8		
			LE		$M_s=4.1$	12.0	0.27
NJ2	23.2	344	-P	20 41 02.4	2.2		
			SME		$m_B=5.0$	9.0	0.40
WHN	23.4	333	P	20 41 05.5	2.9		
			SMN		$m_B=5.3$	8.0	0.69
			LN		$M_s=4.3$	13.0	0.48
GYA	24.8	314	P	20 41 16.0	-0.5		
TIA	27.6	344	eP	20 41 41.6	-0.1		
XAN	28.9	329	P	20 41 51.8	-1.7		
CD2	29.6	318	eP	20 41 53.7	-6.5		
TIY	30.4	338	eP	20 42 06.5	-1.0		
			LN		$M_s=4.5$	17.0	0.61
BJI	31.4	345	eP	20 42 16.0	0.0		
SNY	32.0	356	+P	20 42 20.7	-0.3		
LZH	33.1	326	+iP	20 42 31.0	-0.2		
HHC	33.5	340	eP	20 42 35.2	0.6		
BTO	33.9	338	eP	20 42 37.0	-0.5		
CN2	33.9	359	eP	20 42 39.0	-1.6		
			pP	20 42 53.0	3.2		
			eS	20 47 59.0	2.0		
			LE		$M_s=4.5$	20.0	0.60
MDJ	34.8	4	+P	20 42 45.2	-0.2		
GTA	37.7	326	P	20 43 10.0	-0.3		
			LE		$M_s=4.5$	15.0	0.38
WMQ	47.5	322	eP	20 44 30.0	0.0		

1987 5 8

O=23 45 32.4 ± 0.59s
 LAT=23.06 N ± 3.71km
 LONG=119.10 E ± 4.32km
 DEPTH= 16 km

STATIONS USED = 13, STAND DEV = 3.12s
 $M_L=2.9/5,$

QZH	1.9	346	ePn	23 46 05.7	0.5		
GZH	5.3	271	ePn	23 46 51.0	-0.5		
			eSn	23 47 58.0	3.6		
QZN	9.5	247	eP	23 47 52.8	0.5		
GTA	23.1	319	eP	23 50 36.5	-2.8		

1987 5 9

O=03 54 31.7 ± 0.09s

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LAT=34.05 N ± 1.75km				pP 03 59 19.0 3.4										
LONG=135.66 E ± 2.23km				S 04 02 48.0 -2.0										
DEPTH= 20 km ± 1.02km				SMN m _B =5.9 6.0 0.86										
STATIONS USED = 73, STAND DEV= 1.80s				SME 6.0 3.16										
Ms=4.9/31, m _B =5.5/10				BTO 21.4 295 -iP 03 59 18.0 -2.6										
MDJ	11.5	338	+P	03 57 20.0	1.2			pP	03 59 27.0	-0.2				
			sP	03 57 33.0	4.8			ePP	03 59 41.0	-2.8				
			eS	03 59 33.0	4.8			sS	04 03 20.0	-2.9				
SNY	12.3	313	-P	03 57 30.0	1.2			LN	Ms=5.0	14.0	1.30			
			eSS	04 00 00.0	-0.3			LE		15.0	2.30			
			LE	Ms=4.8	8.0	2.39	XAN	22.1	278	+P	03 59 28.0	-0.2		
SSE	12.6	260	P	03 57 32.0	-0.4			eS	04 03 20.0	-6.4				
			epP	03 57 39.0	1.0			LN	Ms=4.9	12.0	1.53			
			eS	03 59 48.0	-4.8			LE		12.0	0.66			
			sS	04 00 00.0	-2.1			GZH	22.4	247	eP	03 59 33.0	2.4	
CN2	12.6	324	-P	03 57 33.5	1.0			S	04 03 35.0	4.8				
			pP	03 57 41.0	3.0			SMN	m _B =5.5	10.0	1.23			
			eS	03 59 51.0	-1.8			SME		10.0	1.27			
			LN	Ms=4.9	10.0	2.41	LZH	26.1	284	eP	04 00 04.5	-1.8		
NJ2	14.2	267	eP	03 57 52.5	-2.1			PMZ		2.0	0.28			
			sP	03 58 06.3	2.0			pP	04 00 10.0	-2.9				
			LN	Ms=5.2	6.0	3.90	S	04 04 33.0	-0.3					
			LE		10.0	2.85	SME	m _B =5.7	10.0	2.33				
TIA	15.3	283	eP	03 58 08.6	-0.2			LN	Ms=4.9	10.0	0.77			
			S	04 01 00.5	2.4			LE		10.0	0.94			
			sS	04 01 10.0	2.1			GYA	26.1	261	P	04 00 05.4	-1.2	
			LN	Ms=5.0	11.5	3.75	pP	04 00 14.6	1.3					
BJI	16.7	297	eP	03 58 26.5	0.7			LE	Ms=4.9	12.0	1.30			
			eS	04 01 28.0	-1.6			CD2	27.0	272	eP	04 00 12.7	-2.4	
			SMN	m _B =5.5	6.0	0.59	pP	04 00 19.0	-3.0					
			SME		6.0	1.44	eS	04 04 57.0	6.8					
QZH	17.4	243	LN	Ms=4.7	11.0	1.49	sS	04 05 06.0	4.3					
			eP	03 58 36.0	0.9			LN	Ms=5.2	11.0	2.30			
			pP	03 58 43.0	1.9			GTA	29.1	291	+P	04 00 31.2	-2.6	
			eS	04 01 52.0	5.4			PMZ	m _B =5.3	4.0	0.21			
WHN	18.3	265	LN	Ms=4.9	18.0	2.77	eS	04 05 19.0	-4.4					
			LE		18.0	3.06	SME	m _B =5.1	8.0	0.32				
			eP	03 58 48.5	1.5			LE	Ms=4.9	13.0	1.10			
			PMZ	m _B =5.5	6.0	1.50	KMI	29.9	262	eP	04 00 37.0	-3.8		
TIY	19.2	288	pP	03 58 56.0	3.0			WMQ	38.1	299	eP	04 01 48.2	-3.3	
			S	04 02 05.5	-2.2			KSH	47.4	295	-iP	04 03 08.0	1.0	
			LN	Ms=5.1	13.0	3.33	PP	04 05 01.0	4.0					
			LE		10.0	1.53	S	04 09 54.0	-4.1					
HHC	20.3	297	P	03 59 08.2	-1.0			sS	04 10 12.0	0.9				
			PMZ	m _B =5.7	5.0	2.01	LN	Ms=5.2	14.0	1.30				
			SME	m _B =5.7	7.0	2.31								
			LN	Ms=4.9	14.0	0.93								

1987 5 9

O=06 32 35.1 ± 0.14s
 LAT=11.28 S ± 1.95km
 LONG=165.76 E ± 2.17km

DEPTH = 48 km ± 0.66km
 STATIONS USED = 87, STAND DEV = 1.26s
 Ms = 5.3 / 22, m_B = 5.7 / 14

QZH	58.4	309	eP	06 42 30.0	1.2		
			sP	06 42 49.0	2.8		
			SMN	m _B = 5.5	8.0	0.58	
			LN	Ms = 5.2	14.0	0.77	
SSE	60.0	316	P	06 42 37.5	-2.5		
			PMZ		1.0	0.15	
			sP	06 43 00.0	2.5		
			S	06 50 45.0	-1.3		
			eScS	06 52 18.0	-3.4		
			LE	Ms = 5.1	12.0	0.55	
GZH	61.6	304	+P	06 42 51.6	0.8		
			pP	06 43 06.5	3.2		
NJ2	62.2	315	+iP	06 42 54.6	0.0		
			sP	06 43 17.0	4.8		
			SMN	m _B = 6.0	8.0	1.50	
			LN	Ms = 5.5	15.0	1.50	
QZN	62.8	298	eP	06 42 59.5	0.8		
			PP	06 45 20.0	2.4		
			SMN	m _B = 5.7	12.0	1.10	
			LN	Ms = 5.1	13.0	0.60	
WHN	64.6	312	P	06 43 10.5	0.3		
			pP	06 43 26.7	4.0		
			S	06 51 49.0	5.8		
			LN	Ms = 5.4	14.0	1.11	
MDJ	64.6	332	+P	06 43 10.0	-0.2		
			sP	06 43 30.0	2.1		
			iS	06 51 51.0	6.4		
			SME	m _B = 5.7	7.0	0.70	
			LE	Ms = 5.3	15.0	0.92	
DL2	64.7	323	eP	06 43 10.8	-0.1		
			esP	06 43 30.0	1.4		
			LN	Ms = 5.5	15.0	1.59	
SNY	65.5	327	eP	06 43 15.7	-0.8		
			sP	06 43 36.0	1.8		
			S	06 52 00.0	4.8		
			SME		13.0	0.89	
			LN	Ms = 5.7	17.0	2.22	
			LE		17.0	1.04	
TIA	65.8	318	+P	06 43 17.5	-0.7		
			eS	06 52 04.5	4.8		
			LN	Ms = 5.6	15.0	1.40	
			LE		16.0	0.91	
CN2	65.9	329	+P	06 43 18.0	-1.2		
			PMZ	m _B = 5.8	6.0	0.80	
			sP	06 43 38.0	1.2		
			eS	06 52 04.0	2.5		
			eSS	06 56 24.0	6.8		

GYA	68.6	304	P	06 43 33.8	-1.9		
			pP	06 43 50.8	2.7		
			PcP	06 43 58.0	-1.4		
			S	06 52 37.0	5.4		
			ScS	06 53 32.0	5.6		
BJI	68.7	321	eP	06 43 36.0	-0.3		
			esP	06 43 58.0	4.0		
			SMN	m _B = 5.5	6.0	0.32	
TIY	69.7	317	+P	06 43 43.3	0.4		
			PMZ		1.2	0.14	
			LN	Ms = 5.5	15.0	1.31	
XAN	70.3	312	P	06 43 45.5	-0.8		
			PMZ		1.0	0.13	
			S	06 52 56.0	4.0		
			SMN	m _B = 5.5	8.0	0.41	
			LN	Ms = 5.3	14.0	0.68	
KMI	71.3	301	-iP	06 43 54.5	2.2		
			SMN	m _B = 6.0	7.0	1.20	
			LE	Ms = 5.4	18.0	1.10	
HHC	72.0	320	+P	06 43 57.5	0.8		
CD2	72.8	307	eP	06 44 01.0	0.0		
			PMZ		1.0	0.22	
			eS	06 53 25.0	3.0		
BTO	72.9	319	+P	06 44 02.0	0.2		
			ePP	06 46 49.0	3.8		
			S	06 53 24.0	2.2		
			LN	Ms = 5.5	17.0	0.80	
			LE		17.0	1.00	
LZH	74.9	312	+iP	06 44 14.0	0.2		
			PMZ		1.5	0.28	
GTA	79.2	314	+P	06 44 38.2	0.3		
			pP	06 44 54.0	3.7		
			sP	06 45 00.0	4.6		
			SMN	m _B = 5.8	7.5	0.50	
LSA	82.5	302	+P	06 44 56.0	0.6		
WMQ	89.3	315	eP	06 45 27.7	-0.6		
			PMZ		1.5	0.10	
			S	06 56 17.0	6.6		
			SMN	m _B = 5.7	8.0	0.59	
KSH	96.9	309	P	06 46 05.0	1.5		

1987 5 9
 O = 08 05 37.5 ± 0.17s
 LAT = 19.33 N ± 2.21km
 LONG = 145.64 E ± 2.88km
 DEPTH = 152 km ± 0.47km
 STATIONS USED = 86, STAND DEV = 1.84s
 m_B = 5.3 / 10

SSE	25.0	303	+P	08 10 48.0	-0.7		
			PMZ	m _B = 5.7	4.0	0.88	

	PMZ			1.5	0.060			pP	16 56 06.0	-0.5		
	S	08 22 10.0		2.0				LN	Ms=4.8	14.0	1.32	
	sS	08 23 11.0		1.5				LE		14.0	1.41	
						QZH	22.7 246	eP	16 56 20.5	-2.2		
								eS	17 00 30.0	5.3		
								LN	Ms=4.7	16.0	1.35	
						TIY	23.3 282	eP	16 56 27.0	-1.1		
								S	17 00 40.0	6.5		
								LN	Ms=5.5	13.0	2.06	
								LE		14.0	6.55	
						WHN	23.4 264	eP	16 56 30.0	0.8		
								eS	17 00 30.0	-6.5		
								LE	Ms=5.0	14.0	2.41	
						HHC	23.8 290	eP	16 56 33.0	-0.5		
								sP	16 56 45.0	-1.4		
								eS	17 00 42.0	-2.3		
								SME	m _B =5.4	7.0	0.83	
								sS	17 00 59.0	0.3		
								LN	Ms=5.0	12.0	0.55	
								LE		14.0	2.06	
						BTO	25.0 289	eP	16 56 44.4	-0.5		
								esP	16 56 58.0	0.2		
								PP	16 57 23.0	1.0		
								eS	17 01 05.0	0.7		
								esS	17 01 21.0	2.2		
								LN	Ms=5.3	14.0	1.60	
								LE		16.0	3.90	
						XAN	26.7 275	+iP	16 57 01.6	0.8		
								PMZ		1.4	0.15	
								pP	16 57 09.9	0.1		
								eS	17 01 30.0	-2.5		
								LN	Ms=5.0	13.0	1.16	
								LE		13.0	1.45	
						GZH	27.7 249	eP	16 57 10.5	0.5		
								(S)	17 01 55.5	6.9		
								LE	Ms=4.9	13.0	1.37	
						LZH	30.3 281	+iP	16 57 33.5	0.2		
								PMZ		1.8	0.13	
								pP	16 57 44.0	1.6		
								S	17 02 32.0	2.8		
								sS	17 02 49.0	3.6		
								LN	Ms=5.4	14.0	2.41	
								LE		16.0	3.30	
						GYA	31.2 262	+P	16 57 39.0	-2.4		
								pP	16 57 50.0	-0.4		
								sP	16 57 57.0	2.5		
								S	17 02 43.0	-0.5		
								sS	17 03 03.0	3.2		
								LN	Ms=5.4	15.0	3.50	
								LE		15.0	2.60	

			epP	00 45 50.0	-3.4		
			eS	00 52 36.0	1.9		
			esS	00 52 50.0	-2.0		
			LN	Ms=4.8	15.0	0.52	
BTO	48.4	354	P	00 45 49.5	-0.4		
			S	00 52 50.0	4.4		
			LN	Ms=5.2	16.0	1.10	
			LE		13.0	0.40	
HHC	48.5	355	P	00 45 51.0	0.3		
GTA	49.3	343	+iP	00 45 57.0	0.4		
			pP	00 46 05.5	-1.5		
			SMN	m _B =5.3	10.0	0.43	
SNY	49.8	7	+P	00 45 56.0	-4.3		
			S	00 53 05.0	0.3		
			LN	Ms=5.0	19.0	0.83	
CN2	52.0	9	+P	00 46 15.0	-2.0		
			eS	00 53 37.0	0.9		
MDJ	53.5	12	+P	00 46 27.0	-1.3		
			pP	00 46 37.0	-2.0		
WMQ	57.4	336	+P	00 46 56.3	-0.3		
			PMZ		2.0	0.22	
			S	00 54 54.0	6.4		
			LE	Ms=5.4	9.0	0.87	
KSH	59.9	325	+iP	00 47 14.0	0.2		
			pP	00 47 22.0	-2.4		
			eS	00 55 26.0	4.7		
			esS	00 55 40.0	0.9		
			LN	Ms=5.3	14.0	1.00	

1987 5 10

O=03 23 23.2 ± 0.07s

LAT=36.59 N ± 1.32km

LONG= 71.12 E ± 1.17km

DEPTH=245 km ± 0.58km

STATIONS USED = 43, STAND DEV = 1.48s

KSH	4.8	52	+iP	03 24 38.0	0.9		
			S	03 25 34.0	0.0		
			SME		3.0	5.40	
WMQ	14.6	55	P	03 26 39.4	-0.5		
			eS	03 29 13.0	-2.7		
GTA	22.7	74	+iP	03 28 07.5	1.7		
CD2	27.6	92	eP	03 28 51.0	0.2		
XAN	30.8	83	P	03 29 18.6	-0.3		
GYA	31.8	98	P	03 29 24.6	-2.7		
			S	03 34 15.6	-2.1		
TIY	32.8	75	eP	03 29 36.4	0.7		
WHN	36.3	87	eP	03 30 07.0	1.6		
QZN	38.2	107	eP	03 30 26.0	5.0		
NJ2	39.4	82	+P	03 30 31.0	0.0		

1987 5 10

O=03 36 21.4 ± 0.08s

LAT=36.87 N ± 1.18km

LONG= 82.85 E ± 1.18km

DEPTH= 11 km ± 0.22km

STATIONS USED = 15, STAND DEV = 2.51s

M_L=4.5 / 6,

WMQ 7.9 27 ePn 03 38 19.5 3.3

SME M_L=4.5 0.6 0.15

1987 5 10

O=05 10 34.3 ± 0.46s

LAT=27.43 N ± 2.56km

LONG= 86.69 E ± 4.24km

DEPTH= 16 km

STATIONS USED = 6, STAND DEV = 2.55s

LSA 4.5 59 ePn 05 11 45.8 2.6

Sg 05 12 57.0 1.0

CD2 15.3 73 eP 05 14 10.4 -1.4

GYA 17.8 89 P 05 14 45.6 1.6

1987 5 10

O=05 12 27.8 ± 0.10s

LAT=25.84 N ± 0.57km

LONG= 98.51 E ± 0.85km

DEPTH= 7 km ± 0.53km

STATIONS USED = 6, STAND DEV = 2.79s

M_L=3.4 / 4,

KMI 3.9 100 ePg 05 13 39.0 2.2

Sg 05 14 28.5 -1.2

SMN M_L=3.6 1.5 0.20

SME 1.0 0.10

CD2 6.8 41 ePn 05 14 10.4 1.3

1987 5 10

O=09 39 05.6 ± 0.08s

LAT=51.35 N ± 2.74km

LONG=179.87 W ± 1.20km

DEPTH= 33 km ± 0.28km

STATIONS USED = 39, STAND DEV = 1.25s

SNY 39.1 279 eP 09 46 33.0 1.1

BJI 44.7 281 eP 09 47 18.5 0.6

TIY 48.5 281 eP 09 47 48.6 1.2

WHN 52.0 273 eP 09 48 14.0 -0.2

XAN 53.0 280 P 09 48 21.6 -0.4

LZH 54.7 285 eP 09 48 35.5 0.6

GTA 55.0 291 +iP 09 48 36.4 0.0

WMQ 58.8 302 P 09 49 04.0 0.4

GYA 59.7 275 P 09 49 07.0 -2.7



1987 5 10
 O = 10 45 06.2 ± 0.15s
 LAT = 6.54 N ± 1.15km
 LONG = 145.35 E ± 2.31km
 DEPTH = 31 km ± 0.27km
 STATIONS USED = 31, STAND DEV = 1.45s

WHN	37.6	313	eP	10 52 21.5	1.0
SNY	40.1	335	eP	10 52 41.8	0.7
GYA	41.8	303	P	10 52 54.6	-0.7
BJI	42.4	326	eP	10 53 00.0	0.1
TIY	43.1	321	eP	10 53 06.5	0.8
XAN	43.4	314	eP	10 53 07.4	-0.6
CD2	45.8	307	eP	10 53 28.2	0.3
BTO	46.3	322	eP	10 53 32.2	0.5
GTA	52.4	316	P	10 54 18.5	0.3

1987 5 10
 O = 12 23 17.3 ± 0.07s
 LAT = 37.55 N ± 1.61km
 LONG = 141.85 E ± 1.54km
 DEPTH = 37 km ± 1.13km
 STATIONS USED = 76, STAND DEV = 1.42s
 Ms = 4.3 / 11,

MDJ	11.6	311	eP	12 26 07.5	3.6
CN2	13.9	302	eP	12 26 34.0	-0.4
			sP	12 26 46.0	-1.1
			eS	12 29 07.0	-1.5
SNY	14.7	293	eP	12 26 45.4	0.8
			SS	12 29 45.0	1.0
			LE	Ms = 4.3	19.0 1.54
DL2	16.0	281	eP	12 27 02.0	1.1
			LE	Ms = 4.1	13.0 0.47
SSE	18.2	255	-P	12 27 31.0	1.7
			PMZ		1.0 0.050
			esS	12 31 00.0	-1.3
			eSS	12 31 12.0	0.5
			LE	Ms = 4.3	15.0 0.70
NJ2	19.6	261	+P	12 27 44.8	-1.1
			pP	12 27 54.0	-0.6
TIA	19.8	274	eP	12 27 46.6	-1.2
			eS	12 31 24.0	0.0
			LE	Ms = 4.3	14.0 0.66
BJI	20.1	285	eP	12 27 49.0	-2.3
TIY	23.3	279	P	12 28 21.0	-1.8
			eS	12 32 22.0	-6.8
			sS	12 32 39.5	-4.7
			LE	Ms = 4.4	14.0 0.65
HHC	23.6	287	eP	12 28 25.6	-0.9
WHN	23.8	261	P	12 28 30.0	2.3
BTO	24.8	287	P	12 28 38.0	0.0

csP	12 28 51.0	-0.7		
PP	12 29 14.0	-0.6		
cS	12 32 55.0	-0.9		
LN	Ms = 4.3	12.0	0.20	
LE		14.0	0.40	
XAN	26.9 273	-iP	12 28 56.6	-0.4
		pP	12 29 06.0	-0.5
GZH	28.4 248	P	12 29 12.0	1.3
GYA	31.7 260	+P	12 29 37.2	-2.7
		pP	12 29 48.0	-1.4
		S	12 34 39.0	-5.6
CD2	32.0 270	P	12 29 42.3	-0.8
GTA	32.7 286	+P	12 29 48.5	-1.0
		pP	12 29 59.6	0.5
		PcP	12 32 34.2	0.6
QZN	33.5 245	P	12 29 57.2	1.8
KMI	35.4 261	+P	12 30 12.0	-0.2
		pP	12 30 23.0	1.1
		eS	12 35 43.0	-0.9
WMQ	40.9 296	P	12 30 59.5	1.2
KSH	50.5 294	P	12 32 16.4	1.6

1987 5 10
 O = 15 16 21.6 ± 0.21s
 LAT = 30.86 S ± 1.52km
 LONG = 65.39 W ± 3.03km
 DEPTH = 168 km ± 1.92km
 STATIONS USED = 39, STAND DEV = 1.67s

KSH	147.5	64	PKP	15 35 46.0	1.8
LSA	159.7	87	PKP	15 36 02.0	0.4
CN2	164.5	329	ePKP	15 36 04.0	-2.0
GTA	165.2	51	+iPKP	15 36 07.0	0.2
CD2	170.7	87	ePKP	15 36 10.8	0.4
GYA	171.8	120	PKP	15 36 09.0	-2.0
XAN	174.2	55	PKP	15 36 12.0	0.2
TIA	174.3	339	ePKP	15 36 12.2	0.4
			PKP ₂	15 37 44.8	
WHN	179.6	144	ePKP	15 36 14.0	1.2
			PKP ₂	15 38 12.5	

1987 5 10
 O = 20 19 29.5 ± 0.16s
 LAT = 44.20 N ± 1.96km
 LONG = 79.53 E ± 1.78km
 DEPTH = 16 km
 STATIONS USED = 27, STAND DEV = 2.91s
 Ms = 4.4 / 3, M_L = 4.5 / 6,

WMQ	5.9	91	Pn	20 21 00.0	2.9
			LN	Ms = 4.4	5.0 2.09
GTA	15.9	101	P	20 23 19.0	4.7

			pP	20 23 24.6	5.3		
			LE		Ms=4.1	6.0	0.27
LZH	20.2	105	eP	20 24 06.0	-1.3		
BTO	22.7	88	eP	20 24 31.0	-1.7		
			eS	20 28 31.0	-5.3		
XAN	24.8	104	eP	20 24 52.7	-0.4		
TIY	25.6	93	P	20 24 59.4	-0.6		
			S	20 29 22.0	-2.0		

1987 5 10

O=20 47 55.0 ± 0.07s

LAT=25.82 N ± 0.43km

LONG= 98.52 E ± 0.60km

DEPTH= 5 km ± 0.33km

STATIONS USED = 6, STAND DEV= 2.01s

Ms=3.5/ 4,

KMI	3.9	99	cPg	20 49 05.0	1.3		
			Sg	20 49 55.5	-0.9		
			SMN		Ms=3.7	1.5	0.23
			SME			1.0	0.14
CD2	6.9	41	Pg	20 49 55.8	-0.3		

1987 5 10

O=21 35 18.0 ± 0.12s

LAT=34.97 N ± 2.37km

LONG=139.70 E ± 2.08km

DEPTH= 34 km ± 0.68km

STATIONS USED = 39, STAND DEV= 2.42s

Ms=4.5/ 11,

MDJ	12.4	324	+P	21 38 15.5	0.7		
CN2	14.1	313	eP	21 38 37.0	-0.7		
SNY	14.4	303	eP	21 38 43.1	2.0		
DL2	15.0	290	eP	21 38 51.0	1.9		
			LN		Ms=4.5	15.0	1.59
NJ2	17.6	266	+P	21 39 27.0	4.2		
TIA	18.4	280	eP	21 39 33.9	1.5		
			LN		Ms=4.6	12.0	1.11
			LE			12.0	0.65
BJI	19.3	292	eP	21 39 40.0	-3.3		
			eS	21 43 10.0	-3.9		
			LN		Ms=4.2	15.0	0.52
WHN	21.7	265	P	21 40 08.7	0.0		
			S	21 43 57.0	-4.7		
			LN		Ms=4.7	13.0	1.19
HHC	22.9	293	eP	21 40 17.8	-2.5		
BTO	24.1	292	eP	21 40 30.0	-1.5		
QZN	30.8	247	eP	21 41 32.8	-0.6		
			eS	21 46 27.0	-6.7		
			LN		Ms=4.5	13.0	0.40

1987 5 10

O=21 38 15.3 ± 0.11s

LAT=32.88 N ± 0.85km

LONG=104.25 E ± 1.04km

DEPTH= 14 km ± 0.36km

STATIONS USED = 23, STAND DEV= 3.04s

Ms=3.7/ 3, ML=4.1/ 7,

CD2	2.0	192	Pn	21 38 50.1	0.7		
			Pg	21 38 52.0	1.2		
			Sn	21 39 18.3	2.2		
			Sg	21 39 19.8	1.5		
			SMN		ML=3.2	0.6	0.25
			SME			0.8	0.16
LZH	3.2	354	Pg	21 39 08.5	-3.9		
			Sg	21 39 50.0	-6.2		
			SMN		ML=4.0	0.5	0.44
			SME			0.5	0.56
XAN	4.1	72	-iPn	21 39 20.0	2.3		
			Pg	21 39 30.4	3.2		
			Sn	21 40 03.0	-4.2		
			Sg	21 40 19.6	-3.3		
			SMN		ML=4.2	1.0	0.45
			SME			1.0	0.56
GYA	6.7	161	Pn	21 39 56.0	1.6		
			Sn	21 41 07.0	-6.1		
			SMN		ML=4.1	1.2	0.070
			SME			1.2	0.14
GTA	7.4	332	Pn	21 40 04.7	0.6		
			LN		Ms=3.4	9.0	0.28
TIY	8.2	52	P	21 40 13.6	-4.2		
			SMN		ML=4.1	0.9	0.040
			SME			0.9	0.060
			LN		Ms=3.9	13.0	0.63
			LE			13.0	0.78
BTO	9.0	29	eP	21 40 30.0	1.9		
WMQ	16.9	315	eP	21 42 17.5	3.7		

1987 5 11

O=02 37 43.6 ± 0.14s

LAT=20.40 S ± 1.71km

LONG=178.30 W ± 0.86km

DEPTH=568 km ± 1.87km

STATIONS USED = 60, STAND DEV= 0.92s

QZH	76.1	303	eP	02 48 35.3	-0.3		
SSE	77.4	310	eP	02 48 42.5	0.0		
GZH	79.4	299	+P	02 48 54.0	0.8		
			eS	02 58 07.5	-1.5		
NJ2	79.6	310	-P	02 48 54.2	0.1		
MDJ	80.3	325	eP	02 48 57.5	-0.2		
QZN	80.6	294	eP	02 49 03.4	4.3		



DL2	81.5	317	eP	02 49 04.0	0.3		
SNY	82.0	320	+iP	02 49 05.9	-0.3		
CN2	82.0	323	-P	02 49 06.0	-0.7		
			pP	02 51 09.0	1.5		
			sP	02 52 06.0	2.5		
			eS	02 58 32.0	-3.4		
WHN	82.2	307	P	02 49 08.5	1.3		
BJI	85.6	316	eP	02 49 23.0	-1.3		
GYA	86.4	300	+P	02 49 26.4	-1.5		
			pP	02 51 26.0	-4.0		
TIY	87.0	312	eP	02 49 31.2	0.3		
			pP	02 51 34.0	0.8		
			SKS	02 59 04.5	1.9		
			eS	02 59 22.0	-0.6		
XAN	87.8	307	eP	02 49 35.3	0.4		
			PMZ			1.0	0.58
			sP	02 52 34.0	1.0		
			eS	02 59 37.0	6.8		
KMI	89.1	297	eP	02 49 42.0	1.3		
CD2	90.5	303	eP	02 49 48.0	0.8		
LZH	92.5	308	eP	02 49 56.0	-0.4		
GTA	96.7	309	P	02 50 15.5	0.0		

1987 5 11

O=05 19 10.2 ± 0.11s
 LAT=51.76 N ± 1.62km
 LONG=105.57 E ± 1.44km
 DEPTH= 26 km ± 0.24km
 STATIONS USED = 52, STAND DEV= 2.17s
 Ms=4.9/ 19,

BTO	11.6	163	eP	05 21 54.6	-2.6		
			eS	05 24 03.0	-3.9		
			LN			Ms=4.8	10.0 3.00
			LE				9.0 1.90
HHC	11.7	157	eP	05 21 56.4	-2.0		
			LE			Ms=4.8	10.0 3.16
GTA	13.0	200	P	05 22 14.7	-1.5		
			LN			Ms=5.0	8.5 2.83
			LE				9.0 2.52
BJI	13.8	144	eP	05 22 25.0	-2.2		
			LN			Ms=4.9	9.0 2.68
			LE				10.0 1.49
WMQ	14.4	243	eP	05 22 34.4	0.0		
			LE			Ms=5.1	8.0 4.25
CN2	15.5	113	eP	05 22 54.0	4.8		
LZH	15.7	185	+iP	05 22 56.5	4.5		
			eS	05 25 40.0	-5.8		
			LN				2.5 0.69
			LE				2.5 0.75
SNY	15.8	122	eP	05 22 56.6	3.9		

			LN			Ms=4.8	10.0 1.32
			LE				11.0 1.85
XAN	17.9	171	eP	05 23 19.6	0.5		
			eS	05 26 32.0	-3.3		
			LN			Ms=5.1	12.0 3.67
CD2	20.9	184	+P	05 23 53.2	0.0		
			PMZ				0.7 0.040
			eS	05 27 40.0	0.0		
			LN			Ms=4.9	10.0 1.45
NJ2	22.0	149	eP	05 24 04.0	-0.1		
WHN	22.2	160	eP	05 24 09.5	3.4		
			eS	05 28 11.0	6.9		
			sS	05 28 18.0	1.4		
			LN			Ms=4.6	10.0 0.71
KSH	23.9	251	eP	05 24 27.7	4.4		
			LN			Ms=4.9	9.0 1.10
GYA	25.3	178	+P	05 24 34.8	-1.8		
			S	05 28 53.0	-4.6		

1987 5 11

O=06 56 38.0 ± 0.14s
 LAT=34.88 N ± 2.74km
 LONG=139.86 E ± 2.96km
 DEPTH= 47 km ± 1.23km
 STATIONS USED = 37, STAND DEV= 2.90s
 Ms=4.3/ 7,

MDJ	12.5	324	eP	06 59 34.2	-2.0		
CN2	14.3	313	eP	06 59 57.0	-2.0		
SNY	14.5	303	eP	07 00 08.2	5.7		
DL2	15.1	291	eP	07 00 13.5	3.1		
TIA	18.5	281	eP	07 00 49.5	-3.7		
			LN			Ms=4.3	12.0 0.55
			LE				12.0 0.32
BJI	19.5	292	eP	07 01 02.0	-1.8		
WHN	21.9	266	eP	07 01 24.0	-4.7		
			eS	07 05 18.0	-4.2		
			LN			Ms=4.3	11.0 0.38
TIY	22.3	285	P	07 01 34.0	1.4		
			sS	07 05 44.5	-3.4		
			SS	07 06 16.5	6.2		
			LN			Ms=4.3	13.0 0.32
			LE				12.0 0.34
XAN	25.5	277	eP	07 02 03.5	-0.3		
GYA	29.7	263	P	07 02 42.0	0.2		
			S	07 07 29.0	-2.6		
CD2	30.5	273	eP	07 02 51.8	2.9		

1987 5 11

O=07 47 39.4 ± 0.10s
 LAT=14.59 S ± 1.23km

LONG = 167.33 E ± 1.23km
DEPTH = 164 km ± 0.44km
STATIONS USED = 59, STAND DEV = 0.84s

NJ2	65.6	316	eP	07 58 08.0	-0.6
			pP	07 58 46.0	-0.9
QZN	65.7	299	eP	07 58 09.2	0.0
			eS	08 06 40.0	-1.0
WHN	67.9	312	eP	07 58 23.3	0.4
			pP	07 59 01.0	-0.4
MDJ	68.2	332	+P	07 58 24.0	-0.7
DL2	68.2	323	eP	07 58 25.0	0.1
SNY	69.1	326	eP	07 58 31.2	0.8
CN2	69.6	329	+P	07 58 32.0	-1.1
			PMZ		3.0 0.30
			pP	07 59 11.0	-0.7
			eS	08 07 26.0	-0.7
GYA	71.7	305	+P	07 58 46.0	0.0
			pP	07 59 25.2	0.5
			S	08 07 52.0	2.2
BJI	72.2	321	eP	07 58 48.5	-0.3
			pP	07 59 28.0	0.3
			eS	08 08 00.0	3.0
TIY	73.2	317	+P	07 58 55.0	0.1
			pP	07 59 34.0	0.2
			S	08 08 12.0	5.1
XAN	73.6	313	eP	07 58 57.5	0.1
			pP	07 59 37.0	0.6
KMI	74.3	302	eP	07 59 02.5	1.2
HHC	75.5	320	+P	07 59 08.5	0.3
			pP	07 59 48.0	0.7
CD2	76.0	307	eP	07 59 10.5	-0.2
BTO	76.4	319	eP	07 59 13.4	0.5
LZH	78.3	312	+P	07 59 24.5	0.9
			PMZ		2.0 0.10
			pP	08 00 03.5	0.7
GTA	82.6	314	+P	07 59 47.2	0.7
			pP	08 00 26.8	0.6
WMQ	92.7	315	P	08 00 35.0	0.3
			pP	08 01 15.0	-0.1

1987 5 11
O = 09 21 40.2 ± 0.13s
LAT = 32.78 N ± 1.10km
LONG = 104.42 E ± 1.39km
DEPTH = 10 km ± 0.23km
STATIONS USED = 12, STAND DEV = 2.52s
M_L = 3.5 / 5,

CD2	1.9	197	Pn	09 22 12.6	-1.1
			Pg	09 22 13.8	-0.7
			Sg	09 22 41.6	0.5

			SMN	M _L = 3.0	0.6	0.14
			SME		0.7	0.13
LZH	3.3	352	Pn	09 22 30.5	-2.5	
			Sg	09 23 20.0	-4.8	
			SMN	M _L = 3.5	1.0	0.15
			SME		1.0	0.16
XAN	4.0	70	Pn	09 22 41.8	0.3	
			Pg	09 22 52.8	2.5	
			Sn	09 23 24.0	-6.0	
			Sg	09 23 44.4	-0.1	
			SMN	M _L = 3.9	1.0	0.27
			SME		0.8	0.22
GYA	6.6	162	ePg	09 23 33.0	-3.8	
			Sn	09 24 31.0	-4.0	
TIY	8.2	51	eP	09 23 45.4	3.1	
			SMN	M _L = 3.7	0.8	0.020

1987 5 11
O = 09 59 33.5 ± 0.09s
LAT = 4.42 N ± 1.45km
LONG = 127.93 E ± 1.95km
DEPTH = 97 km ± 0.30km
STATIONS USED = 95, STAND DEV = 1.16s
m_B = 6.3 / 43

QZH	22.3	337	+iP	10 04 24.0	0.2	
			PMZ		m _B = 6.2	6.0 ¹ 7.85
			pP	10 04 44.0	-0.1	
			S	10 08 17.0	-0.2	
			sS	10 08 50.0	-2.4	
			LN			15.0 24.7
QZN	22.9	311	-P	10 04 29.2	-0.1	
			pP	10 04 49.5	-0.4	
			PP	10 05 07.0	4.1	
			S	10 08 23.0	-4.1	
			SMN	m _B = 6.9	10.5	25.7
			SME		10.5	19.2
			LN		14.5	10.5
			LE		18.0	10.8
GZH	23.3	324	+P	10 04 33.5	-0.1	
			pP	10 04 59.0	4.7	
			sP	10 05 11.0	4.6	
			iS	10 08 37.0	1.5	
			sS	10 09 13.0	1.9	
			LN			13.0 6.40
			LE			12.0 3.30
SSE	27.3	347	+iP	10 05 11.0	0.0	
			PMZ			1.2 0.21
			pP	10 05 31.0	-1.3	
			sP	10 05 44.0	-0.2	
			PP	10 06 02.0	0.2	

DEPTH = 35 km ± 1.35km						GYA 39.8 328 +P 18 20 12.6 0.5						
STATIONS USED = 52, STAND DEV = 1.83s						pP 18 20 48.0 1.4						
Ms=4.1/ 4,						PcP 18 22 17.0 2.3						
MDJ	11.9	305	+P	14 54 18.3	0.5	S 18 26 06.0 2.5						
CN2	14.4	297	eP	14 54 53.0	1.8	WHN 40.0 340 P 18 20 15.7 2.4						
SNY	15.4	288	eP	14 55 09.6	5.3	NJ2 40.1 346 -P 18 20 15.4 1.1						
DL2	16.9	278	eP	14 55 23.0	-0.5	KMI 41.1 322 eP 18 20 24.0 1.8						
TIA	20.9	272	eP	14 56 09.9	-0.1	CD2 44.9 329 eP 18 20 52.9 -0.3						
			LN	Ms=4.2	13.0	0.32	XAN 45.2 336 eP 18 20 52.9 -2.2					
			LE		13.0	0.25	pP 18 21 30.0 -0.2					
NJ2	21.0	259	eP	14 56 07.0	-3.5	PcP 18 22 33.7 1.2						
BJI	21.0	282	eP	14 56 09.0	-1.9	ScP 18 26 10.0 1.8						
TIY	24.3	278	eP	14 56 41.3	-1.5	TIY 47.2 342 eP 18 21 11.0 -0.2						
			sS	15 01 07.0	-4.8	BJI 48.4 347 eP 18 21 20.0 -0.2						
			LN	Ms=4.3	11.0	0.19	LZH 49.1 333 eP 18 21 26.5 0.7					
			LE		11.0	0.25	CN2 50.7 357 P 18 21 38.0 -0.3					
WHN	25.1	260	eP	14 56 52.5	1.5	MDJ 51.4 0 eP 18 21 43.0 -0.6						
BTO	25.7	285	eP	14 56 56.0	-0.2	GTA 53.6 332 +iP 18 21 59.5 -0.4						
			epP	14 57 03.0	-2.4	PcP 18 23 05.0 1.6						
			eS	15 01 17.0	-3.1	WMQ 63.0 327 P 18 23 05.1 0.2						
XAN	28.0	271	eP	14 57 17.4	-0.3	pP 18 23 41.5 -0.6						
GYA	33.0	259	P	14 58 01.4	-0.6	KSH 67.5 318 eP 18 23 35.0 1.3						
CD2	33.2	269	eP	14 58 04.4	0.7							
GTA	33.6	285	-iP	14 58 08.3	1.3							
WMQ	41.5	296	eP	14 59 17.6	4.1							
LSA	43.6	275	P	14 59 33.9	2.9							
1987 5 11						1987 5 11						
O=16 05 19.6 ± 0.05s						O=20 09 59.6 ± 0.11s						
LAT=21.79 N ± 1.04km						LAT= 3.03 S ± 1.41km						
LONG=144.65 E ± 1.33km						LONG=147.57 E ± 3.53km						
DEPTH= 32 km ± 0.21km						DEPTH= 5 km ± 0.54km						
STATIONS USED = 21, STAND DEV = 1.09s						STATIONS USED = 34, STAND DEV = 1.86s						
Ms=4.8/ 2,												
SSE	22.9	299	eP	16 10 23.3	1.3	NJ2 44.3 324 eP 20 18 13.0 0.6						
			PMZ		1.0	0.030	GYA 49.2 309 P 20 18 52.0 0.5					
GYA	34.9	285	P	16 12 10.4	-0.2	BJI 51.6 329 eP 20 19 07.5 -2.3						
CD2	37.6	293	eP	16 12 32.9	-0.4	KMI 51.7 305 eP 20 19 12.0 1.4						
LZH	38.2	301	eP	16 12 39.0	0.7	TIY 52.0 325 eP 20 19 12.5 -0.2						
GTA	41.9	305	-P	16 13 10.1	0.6	(S) 20 26 37.0 1.4						
WMQ	51.6	309	eP	16 14 26.0	0.7	LN Ms=4.9 14.0 0.46						
							CD2 53.7 312 eP 20 19 24.2 -0.8					
							HHC 54.6 327 eP 20 19 32.5 0.1					
							BTO 55.3 326 eP 20 19 37.0 -0.4					
							LZH 56.4 318 eP 20 19 43.3 -1.6					
							GTA 60.9 319 eP 20 20 16.0 -0.2					
							WMQ 70.9 319 eP 20 21 20.5 -0.3					
1987 5 11						1987 5 11						
O=18 12 52.3 ± 0.09s						O=20 51 42.5 ± 0.07s						
LAT= 7.07 S ± 0.99km						LAT=38.84 N ± 1.60km						
LONG=129.17 E ± 1.75km						LONG=141.94 E ± 1.48km						
DEPTH=161 km ± 0.47km						DEPTH= 51 km ± 0.87km						
STATIONS USED = 55, STAND DEV = 0.99s						STATIONS USED = 95, STAND DEV = 1.69s						
SSE	38.7	349	eP	18 20 03.5	0.9							
			PMZ		0.8	0.010						
			epP	18 20 38.2	1.1							

$M_s = 5.4 / 47,$				$m_B = 5.7 / 19$				PMZ					
MDJ	10.9	306	+P	20 54 19.5	1.0			sP	20 57 12.0	0.0			
			PP	20 54 30.0	3.1			S	21 01 06.0	1.5			
CN2	13.3	297	+iP	20 54 51.0	-0.5			SMN	$m_B = 5.9$	10.0	3.21		
			pP	20 55 00.0	-0.4			LE	$M_s = 5.3$	14.0	5.00		
			sP	20 55 07.0	-0.1			BTO	24.6	284	eP	20 56 58.0	-1.2
			S	20 57 17.0	-0.9			pP	20 57 12.0	1.0			
SNY	14.3	288	+P	20 55 05.0	0.8			PP	20 57 35.0	-0.2			
			pP	20 55 14.5	1.2			S	21 01 11.0	-1.5			
			SS	20 58 00.0	1.4			sS	21 01 35.0	1.3			
			LN	$M_s = 5.3$	20.0	6.73		LN	$M_s = 5.9$	14.0	4.50		
			LE		20.0	14.5		LE		14.0	15.4		
DL2	15.8	277	P	20 55 24.0	0.4			XAN	26.9	270	+P	20 57 20.3	-0.9
			PMZ	$m_B = 5.7$	6.0	2.27		PMZ	$m_B = 5.6$	6.0	0.77		
			sP	20 55 40.0	0.6			pP	20 57 35.0	1.8			
			LN	$M_s = 5.0$	14.0	4.90		S	21 01 47.9	-3.5			
			LE		16.0	1.62		SME	$m_B = 5.3$	12.0	1.01		
SSE	18.7	252	eP	20 55 58.0	-0.8			LN	$M_s = 5.6$	19.0	7.94		
			PMZ		1.0	0.43		LE		18.0	7.57		
			pP	20 56 08.0	-0.7			GZH	29.0	246	+P	20 57 40.5	0.9
			sP	20 56 14.0	-1.0			sP	20 57 55.0	-2.5			
			eS	20 59 18.0	-3.2			S	21 02 29.0	4.6			
			SS	20 59 46.0	0.0			sS	21 02 45.0	-1.6			
			LE	$M_s = 5.2$	17.0	7.32		LN	$M_s = 5.6$	14.0	5.70		
TIA	19.8	270	eP	20 56 10.6	-1.5			LE		16.0	3.87		
			esP	20 56 24.5	-4.7			LZH	30.2	277	+iP	20 57 50.0	-1.0
			ePP	20 56 29.0	-2.1			PMZ		1.0	0.090		
			eS	20 59 41.2	-6.3			eS	21 02 40.0	-5.5			
			SMN	$m_B = 5.7$	9.0	2.07		esS	21 03 06.0	-0.6			
			SME		9.0	1.10		GYA	32.0	258	+P	20 58 04.5	-1.9
			LN	$M_s = 5.5$	22.0	10.5		PMZ		1.2	0.23		
			LE		22.0	9.74		pP	20 58 19.0	0.4			
BJI	19.9	282	eP	20 56 10.5	-2.4			ScP	21 04 29.0	-3.2			
			epP	20 56 24.0	0.0			PcS	21 04 35.0	-3.0			
			eS	20 59 55.0	6.0			LN	$M_s = 5.2$	20.0	1.60		
			LN	$M_s = 5.5$	12.0	2.97		LE		20.0	3.00		
			LE		14.0	9.40		CD2	32.1	268	eP	20 58 06.7	-1.0
NJ2	20.0	257	+P	20 56 11.5	-1.9			eS	21 03 16.0	0.8			
			LN	$M_s = 5.4$	13.5	7.60		LN	$M_s = 5.4$	15.0	4.09		
TIY	23.2	277	+P	20 56 44.0	-1.6			GTA	32.5	285	+iP	20 58 10.2	-0.6
			PP	20 57 17.0	0.8			PMZ	$m_B = 5.6$	7.0	0.76		
			SME	$m_B = 5.7$	7.0	1.54		pP	20 58 24.0	1.0			
			LN	$M_s = 5.6$	15.0	5.57		PcP	21 00 57.0	1.0			
			LE		15.0	9.65		ScP	21 04 36.6	2.6			
HHC	23.4	285	+P	20 56 46.4	-1.2			S	21 03 18.0	-1.6			
			pP	20 57 01.0	1.6			SME		20.0	1.51		
			PP	20 57 19.0	-0.1			ScP	21 04 36.6	2.6			
			SME	$m_B = 5.5$	7.0	0.83		LE	$M_s = 5.7$	16.0	8.38		
			LE	$M_s = 5.8$	15.0	15.1		QZN	34.1	244	eP	20 58 23.5	-1.0
WHN	24.1	258	+iP	20 56 56.0	1.6			PP	20 59 39.5	0.8			

			LE		16.0	38.7				LN	Ms=6.5	20.0	36.3
KMI	29.2	310	+iP	01 36 27.5	1.0					LE		17.5	30.6
			PMZ	m _B =6.3	5.0	3.20	LZH	35.6	327	+iP	01 37 23.0	0.0	
			PP	01 37 26.0	5.7					PMZ	m _B =6.0	8.0	2.22
			PcP	01 39 27.0	-6.1					PP	01 38 39.5	-3.5	
			S	01 41 18.0	3.0					PcP	01 39 52.0	1.2	
			LE	Ms=6.2	16.0	29.6				S	01 42 56.0	-0.3	
TIA	30.2	344	eP	01 36 34.5	-1.1					SS	01 45 10.0	-6.7	
			PMZ	m _B =5.8	11.0	2.10				ScS	01 47 38.0	0.8	
			PcP	01 39 36.4	0.7					LN	Ms=6.6	14.0	27.8
			ScP	01 43 14.2	-0.9					LE		18.0	52.4
			eS	01 41 27.0	-5.4		HHC	36.2	340	+iP	01 37 27.5	0.0	
			SMN	m _B =6.4	9.0	4.27				pP	01 37 37.0	1.9	
			SME		8.0	6.49				sP	01 37 41.0	2.4	
			ScS	01 47 11.2	1.9					PP	01 38 46.5	-3.0	
			LN	Ms=6.2	17.0	25.2				S	01 43 04.0	-0.4	
			LE		12.0	6.22				SMN	m _B =6.3	7.0	2.93
XAN	31.4	331	+P	01 36 44.7	-1.8					SME		10.0	4.91
			pP	01 36 56.0	1.9					LN	Ms=6.4	18.0	35.6
			sP	01 37 02.0	4.4					LE		16.0	10.8
			PP	01 37 47.5	-2.4								
			PcP	01 39 39.5	0.5		CN2	36.4	358	+iP	01 37 29.5	-0.1	
			S	01 41 46.0	-4.9					PMZ	m _B =6.5	5.0	3.80
			SME	m _B =6.1	9.0	3.91				pP	01 37 40.0	2.6	
			ScS	01 47 14.5	-0.8					PcP	01 39 53.0	-0.1	
			LN	Ms=6.4	18.0	32.5				eS	01 43 06.0	-3.6	
			LE		18.0	35.9	BTO	36.5	338	+P	01 37 29.5	-0.7	
DL2	31.9	352	P	01 36 49.0	-1.5					PcP	01 39 55.0	1.7	
			LN	Ms=6.3	16.0	29.0				S	01 43 09.0	-0.4	
			LE		16.0	11.6				SMN	m _B =6.1	10.0	1.30
CD2	32.0	320	P	01 36 54.0	2.4					SME		10.0	3.80
			S	01 41 59.5	-0.5					sS	01 43 26.0	2.6	
			LE	Ms=6.7	16.0	74.0				SS	01 45 32.0	-3.9	
TIY	33.1	339	+P	01 37 00.0	-0.8					ScS	01 47 42.5	0.6	
			PMZ		14.0	2.89				LN	Ms=6.4	19.0	37.0
			iS	01 42 16.0	-1.5					LE		15.0	10.6
			SME	m _B =6.1	10.0	3.68	MDJ	37.3	3	+P	01 37 39.3	2.4	
			LN	Ms=6.3	18.0	31.6				pP	01 37 46.0	1.3	
BJI	34.1	345	+P	01 37 08.5	-0.7					sP	01 37 52.0	3.8	
			PMZ	m _B =5.9	6.0	1.22				PP	01 39 07.0	2.8	
			PcP	01 39 47.5	1.3					PcP	01 39 57.0	1.2	
			S	01 42 32.0	0.3					iS	01 43 24.0	1.1	
			SMN	m _B =6.4	6.0	3.50				sS	01 43 40.0	4.2	
			SME		8.0	4.10	GTA	40.2	327	+iP	01 38 01.9	0.3	
			LN	Ms=6.0	19.0	17.2				PP	01 39 32.0	-5.9	
SNY	34.6	356	+iP	01 37 14.0	0.3					PcP	01 40 06.0	1.0	
			PMZ	m _B =6.3	5.5	2.61				ScP	01 43 49.8	-1.4	
			sP	01 37 30.0	5.0					ScS	01 48 03.2	-0.2	
			iS	01 42 40.0	-0.7		LSA	40.4	308	+P	01 38 03.0	0.2	
			ScS	01 47 31.1	-0.4					PcP	01 40 06.0	0.7	

	PcS	01 43 54.0	-0.6		
	S	01 44 05.0	-2.9		
	LE	Ms=5.9	19.0	9.95	
WMQ	50.0	323	P	01 39 20.0	0.6
	PMZ		3.0	3.02	
	pP	01 39 31.0	3.8		
	ScP	01 44 30.0	-1.1		
	PcS	01 44 32.0	-2.1		
	S	01 46 28.0	1.4		
	SMN	m _B =6.5	8.0	5.47	
	sS	01 46 44.0	3.0		
	ScS	01 49 05.0	-0.2		
	LN	Ms=6.8	16.0	44.1	
KSH	55.7	313	+iP	01 40 03.0	0.9
	sP	01 40 16.0	2.7		
	S	01 47 48.0	3.5		
	ScS	01 49 47.0	1.9		

	LAT=28.16 N	± 2.54km			
	LONG=55.52 E	± 1.80km			
	DEPTH=40 km	± 0.46km			
	STATIONS USED = 76,	STAND DEV = 1.30s			
	Ms=5.2 / 25,	m _B =5.4 / 3			
KSH	20.4	51	eP	07 19 49.5	1.4
			pP	07 19 57.5	-0.1
			PP	07 20 10.0	1.7
			S	07 23 33.0	4.7
			LN	Ms=5.7	8.0 9.10
WMQ	30.1	50	P	07 21 22.0	1.2
			pP	07 21 32.0	0.8
			S	07 26 19.0	4.2
			LN	Ms=5.4	9.0 2.54
LSA	31.2	78	eP	07 21 29.2	-1.0
LZH	41.3	66	+iP	07 22 56.0	-0.3
			PMZ		1.5 0.070
			eS	07 29 10.0	2.0
			LN	Ms=5.2	11.0 1.09
CD2	41.8	74	eP	07 23 00.0	0.0
KMI	42.1	83	eP	07 23 03.0	0.3
			sP	07 23 20.0	2.3
			eS	07 29 20.0	0.5
			LE	Ms=5.0	16.0 0.94
GYA	45.2	80	P	07 23 27.0	-0.6
			pP	07 23 37.8	-0.4
			S	07 30 04.0	1.1
			LN	Ms=5.1	15.0 0.60
			LE		15.0 0.80
XAN	45.7	69	eP	07 23 30.6	-0.7
			eS	07 30 13.0	2.1
			LN	Ms=5.3	15.0 1.60
BTO	46.0	60	P	07 23 34.0	0.1
			epP	07 23 44.0	-0.5
			ePP	07 25 23.0	1.6
			S	07 30 17.0	2.8
			LN	Ms=5.4	14.0 1.20
			LE		16.0 1.90
HHC	47.2	59	eP	07 23 44.0	1.0
TIY	48.1	63	eP	07 23 49.8	-0.4
			S	07 30 48.0	4.3
			LN	Ms=5.4	12.0 1.25
			LE		11.0 0.61
QZN	50.3	88	eP	07 24 06.0	-1.0
			eS	07 31 18.0	2.7
			LE	Ms=5.1	15.0 0.83
BJI	50.7	60	eP	07 24 11.0	0.5
WHN	50.8	72	eP	07 24 12.0	0.7
			eS	07 31 28.0	4.9
			LN	Ms=5.3	12.0 1.04

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O=04 03 57.3 ± 0.19s
 LAT=50.01 N ± 2.71km
 LONG=156.42 E ± 1.67km
 DEPTH=45 km ± 0.72km
 STATIONS USED = 46, STAND DEV = 1.35s

MDJ	18.9	264	eP	04 08 19.5	2.2
CN2	21.9	265	eP	04 08 48.0	-1.0
TIY	33.5	266	eP	04 10 35.2	-0.2
LZH	40.0	270	eP	04 11 30.0	-0.3
GTA	40.7	277	P	04 11 35.0	-0.7
CD2	43.4	264	eP	04 11 58.0	0.4
GYA	44.6	257	-P	04 12 07.0	-0.4
WMQ	45.8	290	P	04 12 17.8	0.4
KMI	48.0	259	eP	04 12 34.5	-0.1
QZN	48.1	247	eP	04 12 37.0	1.5

1987 5 12

O=04 17 10.9 ± 0.48s
 LAT=28.63 S ± 6.20km
 LONG=176.72 W ± 4.22km
 DEPTH=173 km ± 2.09km
 STATIONS USED = 21, STAND DEV = 2.03s

MDJ	87.8	325	eP	04 29 41.2	-1.2
CN2	89.4	322	eP	04 29 49.0	-1.0
TIA	89.6	312	eP	04 29 51.1	0.3
GYA	91.6	299	P	04 30 01.4	0.8
BJI	92.5	315	eP	04 30 03.0	-1.1
TIY	93.5	311	eP	04 30 09.4	0.3

1987 5 12

O=07 15 12.1 ± 0.10s

			LE		14.0	1.14				SMN	$m_B = 5.7$	2.0	0.81	
DL2	51.9	330	eP	14 05 27.4	-0.8					SME		10.0	0.72	
			pP	14 05 52.0	2.3		XAN	56.1	317	+P	14 05 57.6	-1.2		
			S	14 12 42.0	0.1					PMZ		1.2	0.18	
			LN			15.0				pP	14 06 21.0	0.5		
			LE			15.0				sP	14 06 34.5	3.5		
TIA	52.3	325	+P	14 05 31.3	0.0					S	14 13 37.0	-0.9		
			pP	14 05 52.5	-0.3					SMN	$m_B = 5.8$	8.0	1.03	
			ScP	14 10 29.2	1.4					SME		10.0	0.85	
			SMN	$m_B = 5.7$		10.0				sS	14 14 19.0	2.1		
			SME			10.0				LN		13.0	1.16	
			sS	14 13 28.5	2.5					LE		12.0	0.91	
			ScS	14 15 09.9	1.7				TIY	56.1	323	+P	14 05 58.0	-1.0
			LN			14.0				PMZ	$m_B = 5.8$	5.0	0.67	
			LE			12.0				pP	14 06 20.0	-0.7		
SNY	53.3	334	+P	14 05 37.5	-1.2					S	14 13 36.5	-1.8		
			pP	14 06 00.0	-0.3					sS	14 14 20.0	2.8		
			S	14 12 57.0	-4.2					ScS	14 15 29.0	-5.9		
			SMN			19.0				SS	14 17 25.0	-0.9		
			SME			26.0				LN		16.5	2.25	
			sS	14 13 38.0	-1.7					LE		16.5	2.34	
			LN			19.0			KMI	56.2	305	+iP	14 06 00.0	0.2
			LE			20.0				PMZ	$m_B = 6.3$	4.0	1.40	
MDJ	53.4	341	eP	14 05 38.5	-0.7					pP	14 06 25.0	3.7		
			PMZ	$m_B = 6.3$		6.0				PcP	14 06 59.0	3.7		
			pP	14 06 01.0	0.2					PP	14 08 06.0	-0.6		
			sP	14 06 14.0	2.7					S	14 13 38.0	-1.4		
			eS	14 13 00.0	-3.2					sS	14 14 17.0	-1.4		
			sS	14 13 41.0	0.3					SS	14 17 30.0	2.6		
			SS	14 16 38.0	-4.1					LN		18.0	1.60	
GYA	53.7	308	+P	14 05 42.0	0.7				CD2	58.1	311	eP	14 06 12.0	-0.8
			PMZ	$m_B = 6.3$		4.0				PMZ	$m_B = 6.2$	5.0	1.39	
			pP	14 06 06.0	3.3					pP	14 06 36.5	1.9		
			PcP	14 06 43.0	-2.6					eS	14 14 02.0	-3.4		
			PP	14 07 46.0	1.7					LN		26.0	4.13	
			ScP	14 10 34.0	0.5				HHC	58.7	325	+iP	14 06 17.0	-0.1
			PcS	14 10 44.0	0.9					pP	14 06 39.0	0.2		
			S	14 13 10.0	4.3					S	14 14 07.0	-5.0		
			LN			20.0				SMN		15.0	0.78	
			LE			20.0				SME		12.0	1.27	
CN2	54.2	337	+P	14 05 43.0	-2.0					LN		15.0	1.18	
			PMZ	$m_B = 6.3$		5.0				LE		15.0	1.37	
			pP	14 06 05.5	-1.1				BTO	59.4	324	+iP	14 06 21.0	-1.1
			eS	14 13 07.0	-6.9					PMZ	$m_B = 5.9$	5.0	0.80	
			LE			34.0				pP	14 06 43.5	-0.4		
BJI	55.6	327	+P	14 05 55.0	0.0					sP	14 06 58.0	3.7		
			PMZ	$m_B = 5.8$		4.0				ePP	14 08 32.0	-3.3		
			pP	14 06 18.0	1.2					S	14 14 22.0	0.6		
			ScP	14 10 43.0	1.1					SMN	$m_B = 5.7$	9.0	0.70	
			S	14 13 25.0	-6.2					SME		10.0	0.80	

			LN	Ms=4.3	13.0	0.44
			LE		13.0	0.43
BJI	20.2	292	eP	00 29 29.0	-1.4	
TIY	23.0	285	eP	00 30 00.8	2.0	
XAN	26.2	277	eP	00 30 29.5	-0.3	
GYA	30.4	263	P	00 31 07.8	0.1	
CD2	31.2	273	P	00 31 13.6	-1.1	
GTA	32.8	290	P	00 31 28.5	0.5	
WMQ	41.4	299	eP	00 32 38.2	-2.2	

1987 5 14

O=05 05 37.2 ± 0.07s
 LAT=51.65 N ± 2.91km
 LONG=176.48 W ± 1.61km
 DEPTH= 28 km ± 0.59km
 STATIONS USED = 26, STAND DEV = 1.15s

BJI	46.7	283	eP	05 14 06.0	-0.1	
TIA	48.6	279	+P	05 14 20.6	0.2	
TIY	50.5	283	eP	05 14 37.0	1.9	
XAN	55.0	282	eP	05 15 08.6	-0.5	
CD2	60.3	283	-P	05 15 46.6	0.1	
GYA	61.7	278	P	05 15 55.6	-0.4	
KMI	65.1	279	eP	05 16 18.0	-0.5	

1987 5 14

O=12 04 03.1 ± 0.06s
 LAT= 4.84 N ± 0.97km
 LONG=122.84 E ± 1.48km
 DEPTH=612 km ± 0.38km
 STATIONS USED = 61, STAND DEV = 0.92s

QZN	19.0	319	eP	12 07 48.6	0.1	
GZH	20.3	334	+P	12 08 02.0	1.0	
GYA	26.5	326	P	12 08 56.4	0.5	
NJ2	27.3	353	+P	12 09 04.2	1.1	
KMI	27.9	318	-P	12 09 09.0	0.6	
CD2	31.5	328	-P	12 09 38.8	-0.3	
			PMZ		1.0	0.060
XAN	31.8	338	-P	12 09 41.2	-0.1	
TIY	34.1	345	eP	12 10 01.0	0.7	
			PMZ		0.9	0.050
BJI	35.6	351	eP	12 10 12.0	-0.4	
LZH	35.7	333	-iP	12 10 11.5	-2.1	
			PMZ		1.5	0.11
SNY	36.8	1	+P	12 10 22.0	-0.9	
LSA	38.8	313	-P	12 10 39.5	-0.2	
CN2	38.9	3	eP	12 10 38.0	-1.5	
MDJ	40.1	7	-P	12 10 49.0	-0.1	
GTA	40.2	332	-iP	12 10 51.3	0.7	
			ScP	12 15 30.2	0.4	
WMQ	49.6	327	P	12 12 02.5	-0.2	

KSH 54.5 316 P 12 12 39.0 1.5

1987 5 14

O=13 52 23.1 ± 0.12s
 LAT=39.91 N ± 1.82km
 LONG=104.78 E ± 0.88km
 DEPTH= 16 km

STATIONS USED = 6, STAND DEV = 3.79s

M_L=2.8 / 4,

GTA	3.9	264	Pn	13 53 18.9	-3.7	
			Pg	13 53 27.2	-4.2	
			Sn	13 54 05.0	-4.5	
			SMN	M _L =2.8	0.6	0.020
			SME		0.5	0.020
BTO	4.1	79	Pg	13 53 34.6	-0.5	
TIY	6.4	108	ePg	13 54 16.0	0.3	
			Sg	13 55 38.6	-3.9	
			SME	M _L =3.0	0.6	0.010

1987 5 14

O=15 31 02.2 ± 0.08s
 LAT=22.55 N ± 1.20km
 LONG=121.35 E ± 1.30km
 DEPTH= 37 km ± 0.72km

STATIONS USED = 72, STAND DEV = 1.64s

M_s=4.6 / 24, M_L=4.7 / 6,

QZH	3.5	314	iP	15 31 54.3	-0.9	
			S	15 32 32.7	-2.3	
			SMN	M _L =4.7	0.3	1.78
			SME		0.6	2.47
GZH	7.4	276	eP	15 32 49.8	-0.8	
			S	15 34 08.3	-5.5	
SSE	8.5	359	eP	15 33 08.0	2.0	
			LN	M _s =4.1	12.0	1.30
			LE		20.0	1.36
NJ2	9.7	347	+P	15 33 20.2	-2.5	
			S	15 35 08.8	-2.4	
			LE	M _s =4.5	7.0	1.50
QZN	11.3	254	eP	15 33 44.9	0.3	
			LN	M _s =4.5	15.0	1.70
			LE		14.0	1.70
GYA	13.9	289	P	15 34 20.0	0.6	
			LN	M _s =4.6	11.0	1.40
			LE		11.0	0.90
TIA	14.1	346	eP	15 34 24.8	3.2	
			LN	M _s =4.6	13.0	1.90
			LE		13.0	1.11
XAN	15.8	319	eP	15 34 44.6	0.6	
			eS	15 37 38.0	-0.1	
			LN	M _s =4.6	10.0	0.86

			LE		10.0	0.76				PP	16 26 20.0	-2.4		
TIY	16.9	335	eP	15 35 01.6	3.3					SS	16 44 09.0	-4.1		
			LN	Ms=5.0		11.0	2.75	SNY	137.6	332	+PKP	16 23 48.0	-0.4	
			LE			11.0	2.21				PP	16 26 38.0	0.5	
KMI	17.2	282	eP	15 35 05.0	3.1						eSKKS	16 33 23.0		
			sP	15 35 15.0	0.4						SS	16 44 41.0	-0.9	
			eS	15 38 16.0	5.3						LN	Ms=5.9	28.0	1.33
			sS	15 38 27.0	3.9						LE		28.0	1.60
			LE	Ms=4.3		12.0	0.70	KSH	140.4	28	PKP	16 23 47.0	-6.7	
CD2	17.8	302	eP	15 35 09.8	1.3						PP	16 26 51.0	-3.9	
			eS	15 38 24.0	1.2						eSKKS	16 33 29.0		
			LN	Ms=4.7		16.0	2.36				LE	Ms=6.5	15.0	4.40
BJI	18.0	347	eP	15 35 12.5	1.4			DL2	140.8	331	ePKP	16 23 51.0	-3.2	
			LN	Ms=4.3		20.0	0.65				cPP	16 27 00.0	2.9	
			LE			22.0	0.96	BJI	142.2	338	ePKP	16 23 55.0	-1.6	
SNY	19.3	5	eP	15 35 26.0	-1.1						LN	Ms=6.0	18.0	1.72
			LN	Ms=4.7		14.0	1.05	HHC	143.0	344	PKP	16 23 56.0	-2.1	
			LE			16.0	1.41				PKP ₂	16 24 02.0		
HHC	20.0	338	eP	15 35 35.4	0.4						LN	Ms=5.8	18.0	1.04
			S	15 39 11.0	-1.4			BTO	143.6	345	+PKP	16 23 57.0	-2.1	
			LN	Ms=4.7		14.0	1.42				cPP	16 27 07.0	-6.9	
			LE			8.0	0.27				LN	Ms=6.2	17.0	1.90
LZH	20.3	315	+P	15 35 40.0	1.8						LE		17.0	1.30
			PMZ			2.0	0.090	TIA	145.1	334	+PKP	16 24 01.7	0.1	
			eS	15 39 14.0	-5.5						LN	Ms=6.1	20.0	1.78
			LN	Ms=4.8		8.0	0.88				LE		20.0	1.54
			LE			10.0	0.94	TIY	145.6	341	+PKP	16 24 04.0	1.4	
BTO	20.4	335	eP	15 35 38.0	-0.8						LN	Ms=6.5	20.0	3.95
			eS	15 39 17.0	-3.5						LE		18.0	2.84
CN2	21.5	8	+P	15 35 51.2	1.5			GTA	146.2	358	-iPKP	16 24 05.0	1.3	
			eS	15 39 42.0	1.4						PP	16 27 24.5	-5.1	
MDJ	23.0	15	eP	15 36 05.5	0.3						SS	16 46 16.0	-5.2	
GTA	24.9	317	P	15 36 24.5	1.3						LN	Ms=6.0	20.0	1.81
			pP	15 36 28.0	-4.7			SSE	146.9	323	-PKP	16 24 07.5	2.7	
			LE	Ms=4.3		9.0	0.30				PKP ₂	16 24 16.0		
LSA	28.0	291	P	15 36 53.2	0.9						eSKKS	16 31 10.0		
WMQ	34.9	315	P	15 37 55.6	2.9						SS	16 46 36.0	6.2	
											LE	Ms=5.9	18.0	1.30
								NJ2	147.6	327	+PKP	16 24 07.0	1.2	
											LN	Ms=6.2	19.0	2.60
								LZH	149.2	352	PKP	16 24 10.7	2.1	
											PP	16 27 45.0	-1.4	
											SKKS	16 31 18.0		
											LN	Ms=5.8	20.0	1.09
								XAN	150.1	343	+PKP	16 24 11.0	1.1	
											PKP ₂	16 24 39.0		
											SS	16 47 04.0	-0.3	
											LN	Ms=5.9	15.0	1.04
CN2	135.2	332	ePKP	16 23 43.0	-1.0			WHN	151.1	331	ePKP	16 24 12.0	0.7	
											ePP	16 27 56.0	-1.7	

1987 5 14

O=16 04 24.6 ± 0.56s

LAT= 5.50 S ± 7.51km

LONG= 81.27 W ± 8.07km

DEPTH= 21 km ± 3.61km

STATIONS USED = 76, STAND DEV = 2.84s

Ms=6.0/22,

MDJ 132.6 330 ePKP 16 23 34.0 -5.2

PP 16 26 04.0 -1.7

SS 16 43 44.0 1.6

LN Ms=5.8 20.0 1.24

CN2 135.2 332 ePKP 16 23 43.0 -1.0

			SS	16 47 15.0	-0.3		
			LN	Ms=6.1	20.0	2.31	
QZH	152.9	317	ePKP	16 24 17.0	3.1		
			LN	Ms=6.1	20.0	1.75	
			LE		20.0	1.13	
CD2	154.3	350	ePKP	16 24 17.6	1.6		
			ePP	16 28 11.0	-4.8		
			SS	16 47 50.0	-0.7		
			LN	Ms=6.1	22.0	1.87	
			LE		26.0	2.06	
LSA	154.9	16	PKP	16 24 19.3	2.1		
GZH	157.5	323	+PKP	16 24 21.0	0.8		
			ePP	16 28 36.0	2.4		
			SS	16 48 27.0	1.5		
			LN	Ms=6.0	15.0	1.04	
			LE		15.0	0.75	
GYA	157.8	341	PKP	16 24 22.0	1.3		
			PKP ₂	16 24 56.0			
			PP	16 28 34.0	-1.3		
			LE	Ms=6.3	20.0	3.50	
KMI	160.1	349	+PKP	16 24 25.0	1.5		
			PP	16 28 45.0	-1.9		
			SKKS	16 35 38.0			
			SS	16 48 47.0	-5.7		
			LN	Ms=5.9	20.0	1.38	
QZN	162.7	322	ePKP	16 24 25.5	-0.4		
			ePP	16 28 57.5	-3.3		
			eSS	16 49 21.0	1.2		
			LN	Ms=6.0	17.0	1.10	
			LE		17.0	1.20	

1987 5 14

O=21 11 35.6 ± 0.14s
 LAT=13.57 N ± 1.51km
 LONG=120.61 E ± 1.99km
 DEPTH= 70 km ± 0.49km
 STATIONS USED = 34, STAND DEV= 1.68s

GYA	18.3	317	P	21 15 47.4	0.8		
NJ2	18.5	355	eP	21 15 49.0	0.7		
KMI	20.4	307	eP	21 16 10.0	0.5		
XAN	23.0	334	eP	21 16 34.5	-0.7		
CD2	23.2	321	eP	21 16 38.0	0.5		
			PMZ			1.0	0.10
BJI	26.6	352	eP	21 17 08.0	-2.1		
LZH	27.0	329	-iP	21 17 13.5	-0.1		
GTA	31.6	328	-P	21 17 53.4	-1.1		
WMQ	41.2	323	P	21 19 16.6	0.6		

1987 5 14

O=22 24 04.3 ± 0.10s

			LAT=39.92 N	± 2.60km
			LONG= 40.09 E	± 1.43km
			DEPTH= 48 km	± 0.29km
			STATIONS USED = 36,	STAND DEV= 1.76s
WMQ	35.3	68	eP	22 30 57.5 0.4
GTA	45.2	71	P	22 32 19.3 0.2
LZH	49.4	73	eP	22 32 53.0 0.7
XAN	54.1	73	eP	22 33 26.6 -0.4
GYA	56.1	82	P	22 33 42.8 0.8
BJI	56.5	63	(P)	22 33 43.0 -1.7
WHN	59.8	74	eP	22 34 08.0 0.5
NJ2	62.3	70	eP	22 34 24.0 -0.5

1987 5 15

O=01 45 52.8 ± 0.37s
 LAT=19.66 S ± 7.79km
 LONG= 67.01 E ± 5.95km
 DEPTH= 10 km ± 0.49km
 STATIONS USED = 21, STAND DEV= 3.82s
 Ms=5.0 / 2,

GYA	59.9	41	eP	01 56 03.0	1.2		
CD2	61.4	36	eP	01 56 09.4	-3.1		
WMQ	66.0	16	eP	01 56 41.0	-1.2		
GTA	66.3	27	P	01 56 42.7	-1.7		
XAN	66.7	37	eP	01 56 51.0	4.3		
TIY	71.3	37	S	02 06 39.5	8.0		
			LE	Ms=5.0	18.0	0.53	
TIA	73.0	40	eP	01 57 28.7	3.1		
			LN	Ms=5.0	12.0	0.28	

1987 5 15

O=03 41 27.8 ± 0.10s
 LAT=31.70 N ± 0.89km
 LONG=103.57 E ± 1.10km
 DEPTH= 16 km ± 0.20km
 STATIONS USED = 42, STAND DEV= 2.34s
 Ms=3.9 / 5, M_L=4.1 / 8,

CD2	0.8	168	-iPg	03 41 43.7	1.3		
			Sg	03 41 55.2	1.7		
LZH	4.4	3	ePn	03 42 37.0	2.7		
			Pg	03 42 52.0	6.9		
			Sg	03 43 51.5	6.5		
			SMN	M _L =4.1	1.5	0.29	
			SME		1.5	0.32	
XAN	5.1	61	ePn	03 42 45.2	1.5		
			Pg	03 43 00.0	2.7		
			Sn	03 43 42.8	-1.1		
			Sg	03 44 06.7	0.0		
			SMN	M _L =4.3	1.2	0.45	
			SME		1.0	0.30	

GYA	5.9	152	Pn	03 42 58.6	3.7		
			Sn	03 44 02.0	-2.1		
			Sg	03 44 38.0	5.8		
			SMN	$M_L=4.3$	1.0	0.30	
			SME		1.0	0.20	
			LN	$M_s=4.1$	6.0	0.90	
			LE		6.0	0.80	
KMI	6.6	187	cPn	03 43 05.0	0.2		
			Sn	03 44 23.0	1.3		
			LE	$M_s=3.6$	10.0	0.50	
WHN	9.3	94	cP	03 43 44.5	-0.1		
TIY	9.4	48	cP	03 43 44.0	-2.5		
			LN	$M_s=3.6$	8.0	0.22	
BTO	10.3	29	cP	03 44 02.5	4.2		
			LN	$M_s=4.1$	9.0	0.50	
			LE		9.0	0.50	
TIA	12.1	65	cP	03 44 24.2	1.1		
GZH	12.2	132	P	03 44 25.2	1.0		
CN2	21.0	49	cP	03 46 13.5	-0.1		
MDJ	24.1	50	cP	03 46 40.0	-3.7		

1987 5 15

O=08 44 02.9 ± 0.05s
 LAT=56.42 N ± 1.13km
 LONG=153.24 W ± 0.72km
 DEPTH= 33 km ± 0.21km
 STATIONS USED = 43, STAND DEV= 0.80s

CN2	50.6	292	+P	08 53 01.0	-0.5		
			cS	09 00 10.0	-3.1		
SNY	53.0	292	cP	08 53 19.4	0.1		
TIY	61.8	296	cP	08 54 21.0	-0.3		
NJ2	62.8	288	cP	08 54 28.0	-0.5		
XAN	66.4	296	cP	08 54 51.6	0.1		
GTA	66.4	306	cP	08 54 51.3	-0.4		
LZH	67.2	301	cP	08 54 57.0	0.1		
WMQ	67.8	317	cP	08 55 02.1	1.8		
CD2	71.5	298	cP	08 55 23.4	0.4		
GZH	72.9	286	P	08 55 31.1	-0.3		
GYA	73.7	293	P	08 55 36.8	0.8		

1987 5 15

O=11 26 27.6 ± 0.09s
 LAT=37.58 N ± 0.78km
 LONG=101.92 E ± 0.79km
 DEPTH= 12 km ± 0.43km
 STATIONS USED = 6, STAND DEV= 4.22s

				$M_L=2.7/4,$			
LZH	2.1	133	Pg	11 27 04.5	-1.3		
			Sg	11 27 32.5	-2.5		
			SMN	$M_L=2.8$	1.0	0.069	

GTA	2.5	318	Pn	11 27 06.2	-2.0		
			Pg	11 27 07.8	-3.3		
			Sn	11 27 35.5	-4.5		
			SMN	$M_L=2.7$	0.6	0.046	
			SME		0.6	0.037	

1987 5 15

O=11 30 30.0 ± 0.04s
 LAT=38.72 N ± 0.26km
 LONG=116.49 E ± 0.46km
 DEPTH= 4 km ± 0.14km
 STATIONS USED = 5, STAND DEV= 1.68s
 $M_L=2.5/5,$

BJI	1.3	350	Pg	11 30 54.3	0.6		
			Sg	11 31 12.5	0.4		
			SMN	$M_L=2.1$	0.5	0.020	
			SME		0.5	0.040	
TIA	2.6	168	Pg	11 31 15.0	-0.2		
			Sg	11 31 50.1	0.1		
			SMN	$M_L=2.3$	0.3	0.013	
			SME		0.3	0.020	
TIY	3.3	254	cPg	11 31 30.0	0.8		
			Sg	11 32 15.2	0.4		
			SMN	$M_L=2.6$	0.6	0.010	
			SME		0.6	0.030	

1987 5 15

O=13 20 39.2 ± 0.30s
 LAT=24.37 N ± 2.01km
 LONG=121.34 E ± 2.11km
 DEPTH= 1 km ± 0.31km
 STATIONS USED = 10, STAND DEV= 1.28s
 $M_L=3.4/6,$

QZH	2.6	283	cPn	13 21 22.5	0.4		
			Sn	13 21 56.8	0.8		
			SMN	$M_L=3.4$	0.3	0.25	
			SME		0.4	0.14	
GYA	13.4	282	cP	13 23 54.4	0.5		

1987 5 15

O=13 49 13.3 ± 0.17s
 LAT=49.58 S ± 6.37km
 LONG=115.25 W ± 8.48km
 DEPTH= 15 km ± 0.78km
 STATIONS USED = 41, STAND DEV= 2.85s

TIA	140.2	271	cPKP	14 08 37.2	-5.4		
GYA	140.4	250	PKP	14 08 46.2	3.0		
BJI	142.9	275	cPKP	14 08 45.0	-2.4		
TIY	144.1	269	+PKP	14 08 49.6	0.1		

XAN	144.2	261	-PKP	14 08 49.0	-0.6
CD2	145.4	252	ePKP	14 08 52.9	1.2
HHC	146.4	273	-PKP	14 08 55.0	1.5
BTO	147.2	272	ePKP	14 08 56.4	1.4
LZH	148.7	259	PKP	14 09 02.0	4.7
LSA	151.8	235	ePKP	14 09 03.8	1.3
GTA	153.2	261	PKP	14 09 05.7	1.6
			PKP ₂	14 09 25.8	
			PP	14 12 59.0	-0.1
KSH	167.1	223	ePKP	14 09 20.0	0.5

1987 5 15

O=18 39 51.1 ± 0.08s

LAT=25.45 N ± 1.10km

LONG=96.50 E ± 0.77km

DEPTH=22 km ± 0.30km

STATIONS USED = 16, STAND DEV = 2.31s

$M_L = 4.3 / 1,$

LSA	6.4	313	Pn	18 41 30.5	5.9
XAN	13.8	49	eP	18 43 06.6	-1.1
WMQ	19.7	341	eP	18 44 24.0	2.0

1987 5 15

O=20 15 31.3 ± 0.16s

LAT=19.63 S ± 2.27km

LONG=177.74 W ± 0.71km

DEPTH=598 km ± 2.26km

STATIONS USED = 28, STAND DEV = 1.58s

MDJ	79.9	325	eP	20 26 41.0	-0.1
CN2	81.8	322	-iP	20 26 50.4	0.0
WHN	82.1	306	eP	20 26 54.0	1.8
BJI	85.4	315	eP	20 27 08.5	-0.1
GYA	86.4	300	P	20 27 14.0	0.6
TIY	86.9	312	eP	20 27 16.2	0.7
XAN	87.8	307	eP	20 27 20.7	0.9
GTA	96.6	309	eP	20 28 00.0	-0.1

1987 5 16

O=03 34 51.3 ± 0.11s

LAT=7.49 S ± 1.53km

LONG=128.22 E ± 2.23km

DEPTH=116 km ± 0.37km

STATIONS USED = 79, STAND DEV = 1.25s

$m_B = 5.9 / 3$

QZN	32.0	326	eP	03 41 09.0	0.1
QZH	33.6	344	+P	03 41 22.5	-0.1
			sP	03 42 02.0	0.1
			PP	03 42 44.0	6.1
			eS	03 46 34.0	-1.7
			sS	03 47 24.0	3.9

GZH	33.7	335	P	03 41 23.5	-0.2		
SSE	38.9	350	+P	03 42 09.0	1.0		
			PMZ			1.3	0.090
			epP	03 42 36.0	2.2		
			sP	03 42 50.0	2.4		
			eS	03 47 54.0	-3.9		
			esS	03 48 41.0	-2.1		
			LN			10.0	0.26
			LE			10.0	0.24
GYA	39.7	329	P	03 42 15.4	1.1		
			sP	03 42 54.0	0.1		
			PcP	03 44 19.4	0.7		
			S	03 48 08.4	0.2		
WHN	40.1	341	+P	03 42 19.2	1.8		
			PMZ			1.5	0.21
			cS	03 48 15.2	0.3		
			LE			13.0	0.77
NJ2	40.3	348	+iP	03 42 19.5	0.2		
			PMZ		$m_B = 5.9$	3.5	0.70
			sP	03 42 56.2	-2.8		
			ScP	03 47 56.5	-1.2		
KMI	40.8	323	+P	03 42 25.0	1.4		
			PMZ			3.0	0.70
			sP	03 43 03.0	-0.1		
TIA	44.7	347	+P	03 42 54.0	-0.9		
			esP	03 43 34.0	-0.8		
			eS	03 49 17.0	-5.4		
			LN			14.0	0.59
CD2	44.8	330	eP	03 42 55.3	-0.5		
			eS	03 49 23.0	-0.9		
			LE			22.0	1.00
XAN	45.2	337	+P	03 42 57.5	-1.2		
TIY	47.3	343	+P	03 43 15.0	-0.7		
			sP	03 43 57.5	1.9		
			PP	03 45 09.5	1.8		
			S	03 49 55.0	-3.7		
BJI	48.6	348	eP	03 43 25.5	0.1		
LZH	49.0	334	+iP	03 43 29.0	0.0		
			PMZ			2.0	0.41
			PP	03 45 25.0	1.1		
			PcS	03 48 48.5	3.1		
			S	03 50 20.7	-1.8		
SNY	49.3	355	+iP	03 43 29.5	-1.1		
			PMZ		$m_B = 6.0$	3.5	0.78
			sP	03 44 10.0	-0.7		
			S	03 50 24.0	-1.8		
			sS	03 51 17.0	3.5		
HHC	50.5	344	P	03 43 39.6	-0.5		
			eS	03 50 38.0	-6.0		
BTO	50.7	342	eP	03 43 40.8	-1.0		

SNY	41.6	281	+P	16 16 15.9	0.3
BJI	47.2	284	eP	16 17 01.0	0.6
TIA	49.0	279	-P	16 17 13.5	-1.2
HHC	49.5	288	eP	16 17 20.0	1.8
SSE	49.9	271	eP	16 17 23.5	2.1
			eS	16 24 31.0	2.6
			esS	16 24 44.0	0.1
BTO	50.5	288	eP	16 17 23.6	-2.9
NJ2	50.7	274	eP	16 17 27.0	-0.5
TIY	50.9	284	P	16 17 30.3	1.0
WHN	54.5	276	eP	16 17 59.6	3.5
XAN	55.5	283	P	16 18 01.7	-1.4
LZH	57.2	288	eP	16 18 13.0	-2.2
GTA	57.3	294	eP	16 18 18.5	2.5
CD2	60.8	284	eP	16 18 39.3	-1.0
WMQ	60.9	305	eP	16 18 39.6	-1.1
GYA	62.2	278	P	16 18 49.0	-0.8
KMI	65.6	280	eP	16 19 11.0	-1.1

1987 5 16

O=18 21 08.1 ± 0.09s
 LAT=39.53 N ± 2.53km
 LONG= 73.06 E ± 2.96km
 DEPTH= 10 km ± 2.77km
 STATIONS USED = 13, STAND DEV = 2.47s

Ms=4.0/ 1, ML=4.6/ 3,

KSH	2.3	91	+Pn	18 21 48.2	2.1
			Sg	18 22 20.2	1.1
			SMN	ML=4.6	0.6 5.10
			SME		0.5 3.60
WMQ	11.8	64	P	18 23 58.2	-1.1
			S	18 26 04.5	-6.7
			LN		1.2 0.050
GTA	20.6	82	+P	18 25 50.6	-0.3
			LE	Ms=4.0	8.0 0.17
LZH	24.5	88	eP	18 26 31.5	2.2

1987 5 16

O=23 12 11.6 ± 0.15s
 LAT=28.90 N ± 1.61km
 LONG=105.11 E ± 1.43km
 DEPTH= 12 km ± 0.19km
 STATIONS USED = 28, STAND DEV = 2.89s

Ms=4.0/ 7, ML=4.0/ 7,

CD2	2.3	330	ePn	23 12 51.4	1.3
			Pg	23 12 55.3	2.6
			Sn	23 13 25.0	4.6
			SME	ML=4.3	0.4 1.84
GYA	2.8	150	Pn	23 12 56.0	-0.7
			Sn	23 13 33.0	1.0

			Sg	23 13 45.0	5.9
			SMN	ML=4.1	
			SME		1.2 0.70
			LN		4.0 2.60
			LE		4.0 2.40
KMI	4.3	210	ePn	23 13 17.0	-0.6
			eSn	23 14 09.0	-0.6
XAN	6.1	31	Pn	23 13 43.6	1.9
			Pg	23 14 03.9	5.1
			Sn	23 14 53.7	0.5
			Sg	23 15 24.4	2.6
			SMN	ML=4.6	1.0 0.40
			SME		1.0 0.39
			LN	Ms=4.1	6.0 0.84
			LE		6.0 1.02
LZH	7.2	352	Pn	23 14 02.5	4.6
			Sn	23 15 17.0	-5.4
			LN	Ms=4.0	6.0 0.79
WHN	8.2	76	eP	23 14 13.5	0.0
			S	23 15 45.5	-1.2
			LN	Ms=4.0	12.0 1.25
GZH	9.4	126	eP	23 14 27.0	-3.0
TIY	10.7	33	eP	23 14 46.0	-2.3
			LN	Ms=3.8	9.0 0.28
			LE		11.0 0.27
GTA	11.4	339	P	23 14 55.6	-1.7
			LE	Ms=3.8	8.0 0.26
WMQ	20.4	322	eP	23 16 53.8	2.4
CN2	22.0	42	eP	23 17 07.0	-1.2

1987 5 17

O=00 35 49.8 ± 0.08s
 LAT=35.90 N ± 2.19km
 LONG=140.70 E ± 2.22km
 DEPTH= 71 km ± 1.36km
 STATIONS USED = 34, STAND DEV = 1.89s

BJI	19.8	289	eP	00 40 16.0	-0.8
WHN	22.6	264	+P	00 40 48.0	2.0
XAN	26.1	275	P	00 41 18.3	-0.4
GYA	30.5	262	P	00 41 57.2	-1.5
GTA	32.4	289	+iP	00 42 16.4	1.1
WMQ	40.8	298	P	00 43 29.8	3.1

1987 5 17

O=00 55 11.8 ± 0.11s
 LAT=42.46 N ± 1.18km
 LONG=126.45 E ± 0.75km
 DEPTH= 14 km ± 0.25km
 STATIONS USED = 6, STAND DEV = 4.87s
 ML=3.3/ 5,

GTA	81.7	314	+iP	05 24 13.8	0.7		
			PMZ	$m_B = 6.1$		4.0	1.41
			pP	05 24 57.0	1.0		
			PP	05 27 21.7	-1.4		
			S	05 34 12.6	4.4		
			SMN	$m_B = 5.7$		6.0	0.32
			SME			6.5	0.41
			sS	05 35 29.5	4.6		
LSA	84.8	302	+P	05 24 29.1	0.0		
WMQ	91.8	315	+iP	05 25 01.6	-0.1		
			pP	05 25 44.5	-0.9		
			PP	05 28 48.5	4.0		
			SKS	05 35 15.0	0.4		
KSH	99.3	308	P	05 25 37.0	0.7		
			ePP	05 29 42.0	-0.8		
			SKS	05 36 01.0	6.1		
			eS	05 36 50.0	0.6		
			esS	05 38 08.0	1.6		

1987 5 17

O = 06 16 47.2 ± 0.08s
 LAT = 28.68 N ± 0.90km
 LONG = 104.78 E ± 0.71km
 DEPTH = 16 km ± 0.27km
 STATIONS USED = 7, STAND DEV = 2.56s

$M_L = 3.1 / 3,$

CD2	2.4	338	ePn	06 17 26.6	0.2		
			Pg	06 17 30.8	1.2		
			Sn	06 17 57.6	0.4		
			Sg	06 18 02.0	-0.4		
			SMN	$M_L = 2.9$		0.6	0.070
			SME			0.7	0.070
GYA	2.8	143	Pn	06 17 32.4	0.8		
			Pg	06 17 39.0	2.8		
			Sn	06 18 06.6	0.2		
			Sg	06 18 18.0	3.9		
			SMN	$M_L = 3.1$		1.0	0.10
			SME			1.0	0.070

1987 5 17

O = 09 57 53.0 ± 0.07s
 LAT = 10.43 S ± 1.22km
 LONG = 119.50 E ± 1.38km
 DEPTH = 33 km ± 0.12km
 STATIONS USED = 22, STAND DEV = 1.25s

GYA	38.7	341	P	10 05 18.6	2.3		
CD2	43.8	340	eP	10 05 57.6	-0.3		
XAN	45.3	348	P	10 06 11.0	0.6		
BJI	50.3	357	eP	10 06 48.0	-1.0		
GTA	52.9	341	-P	10 07 08.2	-0.2		

1987 5 17

O = 11 48 07.3 ± 0.13s
 LAT = 18.03 S ± 1.87km
 LONG = 178.44 W ± 1.97km
 DEPTH = 611 km ± 0.67km
 STATIONS USED = 57, STAND DEV = 1.01s

$m_B = 5.4 / 2$

SSE	75.8	310	eP	11 58 52.0	-2.0		
			eS	12 07 45.0	-3.8		
NJ2	78.0	310	+P	11 59 06.0	0.2		
MDJ	78.3	325	+iP	11 59 07.0	-0.3		
			S	12 08 14.0	0.9		
			SMN	$m_B = 5.4$		7.0	0.61
DL2	79.7	317	eP	11 59 14.4	-0.2		
SNY	80.1	320	+iP	11 59 16.0	-0.7		
			eS	12 08 26.0	-7.0		
CN2	80.1	322	+iP	11 59 16.0	-0.9		
			PMZ			3.0	0.30
			eS	12 08 32.0	-1.4		
			SMN	$m_B = 5.4$		6.0	0.50
WHN	80.7	306	eP	11 59 22.0	2.3		
BJI	83.8	315	P	11 59 35.5	-0.3		
			eSKS	12 09 00.0	1.3		
			eS	12 09 14.0	3.9		
GYA	85.1	300	P	11 59 42.4	0.5		
			S	12 09 13.0	-7.0		
TIY	85.3	312	+P	11 59 43.0	-0.1		
			PMZ			1.0	0.050
XAN	86.3	307	+P	11 59 48.3	0.6		
HHC	87.3	314	+P	11 59 52.8	0.2		
BTO	88.3	314	eP	11 59 57.1	0.0		
CD2	89.1	303	eP	12 00 00.8	-0.1		
LZH	90.9	308	iP	12 00 10.0	0.6		
			PMZ			1.5	0.060
GTA	95.1	310	P	12 00 27.7	-0.5		

1987 5 17

O = 12 11 08.8 ± 0.13s
 LAT = 2.98 N ± 2.94km
 LONG = 97.06 E ± 2.50km
 DEPTH = 75 km ± 1.00km
 STATIONS USED = 55, STAND DEV = 1.90s

QZN	20.3	37	eP	12 15 41.0	0.1		
WHN	31.9	29	eP	12 17 32.0	2.2		
XAN	32.8	18	P	12 17 35.5	-2.2		
			eS	12 22 46.0	-2.7		
LZH	33.5	10	-iP	12 17 43.2	-0.8		
			PMZ			1.5	0.050
GTA	36.4	4	+iP	12 18 07.0	-1.0		

STATIONS USED = 8, STAND DEV = 3.91s
 $M_L = 3.3 / 6,$
 WMQ 3.6 59 Pn 18 45 18.6 5.3
 Pg 18 45 18.6 -1.7
 Sn 18 45 55.0 -3.6
 SMN $M_L = 3.3$ 0.7 0.080

1987 5 18
 O = 01 53 49.9 ± 0.10s
 LAT = 25.27 N ± 1.63km
 LONG = 94.16 E ± 1.32km
 DEPTH = 50 km ± 0.58km

STATIONS USED = 97, STAND DEV = 1.70s
 $M_s = 6.2 / 46,$ $m_B = 6.5 / 31$
 KMI 7.8 89 -iP 01 55 48.0 4.6
 PMZ $m_B = 6.3$ 4.0 4.40
 sP 01 56 02.0 3.7
 S 01 57 16.0 6.5
 SMN $m_B = 6.2$ 8.0 33.7
 LE $M_s = 6.0$ 10.0 97.7
 CD2 10.2 54 -iP 01 56 16.0 -0.2
 PMZ $m_B = 6.7$ 10.0 14.6
 S 01 58 07.0 -1.6
 LE $M_s = 6.1$ 10.0 87.6
 GYA 11.3 81 -P 01 56 34.0 2.0
 PMZ 3.0 8.00
 sP 01 56 49.2 2.2
 PP 01 56 43.0 2.3
 S 01 58 39.0 2.3
 SS 01 58 52.0 0.6
 LN $M_s = 6.2$ 10.0 68.7
 LE 10.0 60.2
 GTA 14.9 17 -iP 01 57 17.2 -1.9
 PMZ $m_B = 6.6$ 6.0 6.14
 pP 01 57 26.9 -1.1
 sP 01 57 38.6 4.2
 S 01 59 59.5 -2.3
 LE $M_s = 6.0$ 9.0 34.8
 XAN 15.5 52 -P 01 57 23.4 -3.7
 PMZ $m_B = 6.2$ 6.0 5.81
 pP 01 57 31.5 -4.7
 LN $M_s = 6.4$ 7.0 40.9
 LE 6.0 29.2
 QZN 15.8 110 +iP 01 57 31.5 0.8
 pP 01 57 40.5 0.6
 PP 01 57 45.5 2.2
 ScP 02 05 58.0 1.5
 S 02 00 28.5 5.5
 sS 02 00 42.5 3.7
 LN $M_s = 6.1$ 10.0 26.8

LE
 GZH 17.6 93 P 01 57 54.0 0.2
 S 02 01 08.0 2.8
 LN $M_s = 6.5$ 10.0 92.3
 LE 10.0 18.4
 WHN 18.6 69 -iP 01 58 04.0 -1.5
 PMZ $m_B = 6.0$ 10.0 7.80
 sP 01 58 20.0 -1.4
 S 02 01 20.0 -6.7
 SMN $m_B = 6.5$ 8.0 15.5
 LN $M_s = 6.3$ 9.0 47.2
 WMQ 19.2 346 -iP 01 58 14.2 1.1
 PMZ $m_B = 6.0$ 10.0 8.42
 pP 01 58 25.0 2.0
 sP 01 58 29.0 -0.1
 S 02 01 39.2 -1.8
 LN $M_s = 6.1$ 18.0 49.0
 TIY 19.9 47 -iP 01 58 19.0 -1.0
 PMZ 1.2 1.48
 sP 01 58 36.0 -0.7
 PP 01 58 44.5 5.5
 S 02 01 52.0 -3.0
 SMN $m_B = 6.7$ 8.0 21.8
 SS 02 02 21.0 -2.9
 LN $M_s = 6.1$ 9.0 24.5
 BTO 20.2 37 -iP 01 58 23.5 -0.2
 PMZ $m_B = 6.5$ 6.0 16.5
 pP 01 58 33.0 -1.6
 PP 01 58 46.0 2.2
 iS 02 02 04.0 1.1
 sS 02 02 20.0 0.8
 LN $M_s = 6.3$ 10.0 27.3
 LE 10.0 31.3
 KSH 20.8 317 +iP 01 58 33.0 3.0
 S 02 02 14.0 0.7
 LE $M_s = 6.4$ 12.0 64.2
 HHC 21.2 39 -iP 01 58 35.0 0.7
 PMZ $m_B = 6.6$ 4.0 12.0
 pP 01 58 47.0 1.4
 sP 01 58 53.0 1.8
 PP 01 59 04.0 6.0
 LN $M_s = 6.4$ 11.0 32.6
 LE 11.0 48.7
 QZH 22.1 86 -iP 01 58 42.5 -0.3
 pP 01 58 54.0 -0.5
 iS 02 02 40.5 2.3
 LN $M_s = 6.3$ 10.0 37.5
 TIA 22.5 56 +P 01 58 47.2 0.7
 PMZ $m_B = 6.0$ 7.0 4.64
 NJ2 22.7 67 -iP 01 58 47.0 -1.2

			SMN	$m_B = 6.1$	9.0	8.14			ipP	03 15 18.0	0.9			
			SME		9.0	13.9			isP	03 16 19.0	0.9			
			ScP	03 18 28.0	4.0				iS	03 18 37.0	-3.2			
			PcS	03 19 21.0	5.4				isS	03 21 27.0	-0.5			
			ScS	03 22 16.0	0.7				SMN			17.0	58.7	
SSE	27.0	238	-P	03 12 33.0	-0.3				SME			17.0	77.8	
			PMZ			1.0	0.25		isS	03 21 27.0	-0.5			
			sP	03 15 04.0	-0.1				ScS	03 22 58.5	0.8			
			iS	03 16 30.0	-3.7			GZH	37.6	239	-P	03 14 03.0	0.3	
			SMN	$m_B = 6.2$	11.0	9.60			PMZ	$m_B = 6.0$		10.0	4.43	
			SME		11.0	22.1			isP	03 16 37.0	-1.7			
			ScP	03 18 28.0	3.2				S	03 19 12.0	-2.5			
			ScS	03 22 16.0	-0.4				SMN	$m_B = 6.5$		10.0	9.20	
NJ2	27.6	243	-iP	03 12 38.0	-0.8				SME			10.0	19.8	
			PMZ			14.0	4.30		ScS	03 23 14.0	2.8			
			sP	03 15 10.0	-0.1				CD2	37.7	258	-iP	03 14 04.0	0.1
			iS	03 16 40.0	-3.4				PMZ	$m_B = 6.5$		10.0	14.6	
			SMN	$m_B = 6.0$	7.0	10.0			sP	03 16 40.0	0.2			
			ScP	03 18 26.0	-0.7				iS	03 19 14.0	-3.5			
BTO	27.9	267	-iP	03 12 40.7	-0.5				SME			14.0	44.4	
			PMZ	$m_B = 6.4$	8.0	7.70		GYA	39.0	250	-P	03 14 14.0	-0.2	
			sP	03 15 11.0	-1.6				PMZ			3.0	6.80	
			iS	03 16 43.0	-4.8				pP	03 15 49.0	-1.3			
			SMN	$m_B = 6.1$	10.0	8.60			PP	03 16 03.0	3.7			
			SME		10.0	17.0			sP	03 16 50.0	-0.4			
TIY	27.9	259	-iP	03 12 41.8	0.6				ScP	03 19 05.0	-1.3			
			PMZ			1.0	0.81		S	03 19 29.0	-5.9			
			sP	03 15 14.0	1.4				SMN	$m_B = 6.9$		6.0	15.7	
			S	03 16 46.5	-0.3				SME			6.0	24.5	
			SMN	$m_B = 6.4$	8.5	19.0			sS	03 22 23.0	-3.9			
			SME		11.0	27.3			ScS	03 23 22.0	2.5			
WHN	31.4	246	-iP	03 13 11.5	0.5			WMQ	40.8	286	-iP	03 14 29.4	0.7	
			PMZ			1.0	0.50		pP	03 16 06.0	0.2			
			pP	03 14 41.0	2.3				sP	03 17 09.0	3.3			
			sP	03 15 44.0	-0.4				S	03 20 00.0	-1.0			
			SME	$m_B = 6.3$	10.0	18.6			SME	$m_B = 6.6$		9.0	18.8	
XAN	32.4	257	-iP	03 13 19.2	-0.4			KMI	42.4	252	-iP	03 14 41.0	-0.6	
			PMZ	$m_B = 6.3$	8.0	7.14			PMZ	$m_B = 6.4$		4.0	4.60	
			sP	03 15 51.5	-2.0				pP	03 16 18.0	-1.3			
			SMN	$m_B = 6.3$	10.0	7.50			PcP	03 16 24.0	2.0			
			SME		10.0	15.9			sP	03 17 19.0	0.1			
			ScS	03 22 42.5	-0.1				ScP	03 19 23.0	3.2			
QZH	33.2	234	-P	03 13 28.0	1.3				PcS	03 20 14.0	2.3			
			pP	03 15 00.0	3.5				iS	03 20 21.0	-4.2			
			isP	03 16 04.0	3.0				SME	$m_B = 6.7$		10.0	26.0	
			iS	03 18 08.0	-2.3				ScS	03 23 42.0	2.0			
			SME	$m_B = 6.4$	10.0	23.2		KSH	50.5	288	-iP	03 15 44.0	0.4	
			iScS	03 22 50.0	2.8				pP	03 17 30.0	4.2			
GTA	35.2	272	-iP	03 13 43.8	0.6				iS	03 22 20.0	2.2			
			PMZ	$m_B = 6.5$	8.5	11.4			ScS	03 24 32.0	-1.6			

1987 5 18									
O=04 45 07.8 ± 0.15s									
LAT=26.22 N ± 1.15km									
LONG=100.12 E ± 1.15km									
DEPTH= 16 km ± 0.66km									
STATIONS USED = 14, STAND DEV = 3.25s									
M _L =4.0 / 4,									
KMI	2.6	114	-Pg	04 45 54.0	-0.1				
			Sg	04 46 26.0	-3.5				
			SMN			M _L =4.1	1.5	1.40	
			SME				1.0	0.80	
CD2	5.7	34	ePn	04 46 34.3	2.5				
			Pg	04 46 51.7	4.0				
			cSn	04 47 43.0	4.5				
			Sg	04 48 06.0	0.9				
			SME			M _L =3.6	1.0	0.050	
GYA	5.9	86	Pn	04 46 40.4	5.6				
XAN	10.9	42	cP	04 47 43.0	-3.4				
1987 5 18									
O=07 18 02.4 ± 0.08s									
LAT=44.54 N ± 2.48km									
LONG=147.10 E ± 1.52km									
DEPTH=108 km ± 0.99km									
STATIONS USED = 76, STAND DEV = 1.62s									
m _B =5.3 / 10									
MDJ	12.5	276	eP	07 20 57.5	0.0				
			sP	07 21 28.0	0.9				
			SMN			m _B =5.0	9.0	1.00	
CN2	15.6	275	-P	07 21 34.5	-2.5				
			PMZ				2.0	0.30	
			sP	07 22 06.0	-1.8				
			eS	07 24 20.0	-6.4				
			LN				18.0	4.20	
SNY	17.4	269	-P	07 21 58.0	-1.3				
			eS	07 25 12.0	5.0				
DL2	19.8	262	P	07 22 26.4	-0.2				
			S	07 26 02.2	4.0				
BJI	23.2	270	eP	07 23 01.0	0.1				
			PMZ			m _B =5.3	4.0	0.53	
			esP	07 23 37.0	0.1				
			eS	07 27 02.0	0.5				
			SME			m _B =5.4	9.0	0.81	
			esS	07 27 45.0	4.5				
SSE	24.4	245	P	07 23 12.0	0.4				
			PMZ				1.2	0.040	
			cpP	07 23 36.0	1.5				
			esP	07 23 49.0	1.2				
			cS	07 27 22.0	1.4				
NJ2	25.3	250	+P	07 23 21.0	0.4				
HHC	26.2	274	cP	07 23 30.0	0.4				
			S	07 27 53.0	1.7				
TIY	26.8	267	P	07 23 36.0	1.0				
			sP	07 24 13.0	1.6				
			cS	07 28 02.0	0.0				
			LN				13.0	0.79	
			LE				12.0	0.41	
BTO	27.4	275	cP	07 23 40.8	0.3				
			pP	07 24 05.0	1.4				
			PP	07 24 32.0	-0.3				
			S	07 28 09.0	-1.6				
WHN	29.3	253	cP	07 23 57.0	0.2				
			cS	07 28 43.0	2.3				
			sS	07 29 25.5	3.6				
XAN	31.1	264	P	07 24 14.2	1.2				
GTA	35.1	278	-iP	07 24 43.0	-4.9				
			PMZ				3.0	0.33	
			SMN			m _B =5.3	6.0	0.33	
			SME				6.0	0.30	
			LE				9.0	1.13	
CD2	36.5	263	-iP	07 24 58.3	-0.7				
			cS	07 30 27.0	-5.6				
GYA	37.1	255	P	07 25 04.0	-0.4				
KMI	40.7	257	-P	07 25 34.0	-0.1				
WMQ	41.8	291	P	07 25 44.0	0.9				
			pP	07 26 08.5	0.9				
			S	07 31 51.0	-0.2				
			SMN			m _B =5.7	4.0	0.56	
KSH	51.6	291	cP	07 27 01.0	0.9				
			S	07 34 12.5	2.5				
			esS	07 34 52.0	-3.3				
1987 5 18									
O=07 23 23.7 ± 0.08s									
LAT= 2.26 S ± 1.38km									
LONG=100.03 E ± 1.40km									
DEPTH= 33 km ± 0.17km									
STATIONS USED = 75, STAND DEV = 0.93s									
M _s =6.2 / 18, m _B =5.7 / 2									
QZN	23.3	24	P	07 28 30.3	0.9				
KMI	27.3	5	+P	07 29 08.5	0.2				
GYA	29.3	12	P	07 29 24.6	-0.8				
CD2	33.2	6	cP	07 29 58.2	-1.7				
WHN	35.4	22	P	07 30 19.5	0.9				
			S	07 35 54.5	5.0				
			LN			M _s =6.2	17.0	22.7	
XAN	37.1	12	+iP	07 30 32.0	-1.0				
			pP	07 30 45.0	2.9				
NJ2	38.5	26	-P	07 30 46.0	0.9				

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GYA	24.6	23	-P	16 06 14.4	0.6
CD2	27.9	14	P	16 06 42.5	-1.2
XAN	32.3	20	P	16 07 21.5	-1.4
GTA	35.6	5	+P	16 07 50.0	-1.1
BTO	38.7	17	cP	16 08 16.0	-0.9
HHC	39.4	18	cP	16 08 23.6	0.9
BJI	40.3	24	cP	16 08 31.0	0.7
CN2	47.5	29	P	16 09 26.8	-0.9

1987 5 18

O=18 26 33.9 ± 0.06s

LAT=29.87 N ± 0.95km

LONG=129.87 E ± 0.87km

DEPTH=161 km ± 0.70km

STATIONS USED = 36, STAND DEV = 1.12s

SSE	7.6	281	cP	18 28 22.0	-1.0
			PMZ		1.0 0.070
			eS	18 29 48.0	0.1
NJ2	9.7	286	cP	18 28 49.4	-1.4
SNY	13.0	339	+P	18 29 35.2	1.9
CN2	14.3	347	-P	18 29 52.0	1.2
BJI	15.1	316	cP	18 30 01.0	0.5
TIY	16.5	303	cP	18 30 18.2	1.1
XAN	18.3	289	+P	18 30 36.2	-1.8
HHC	18.5	311	cP	18 30 39.4	-1.0
BTO	19.4	309	cP	18 30 49.0	-0.9
GYA	20.7	266	P	18 31 04.6	1.0
GTA	26.4	299	P	18 31 57.2	-0.5

1987 5 18

O=18 27 24.9 ± 0.11s

LAT=16.28 S ± 1.55km

LONG=178.36 E ± 2.43km

DEPTH=20 km ± 0.44km

STATIONS USED = 25, STAND DEV = 1.70s

CN2	76.9	324	+P	18 39 17.5	-0.6
			cpP	18 39 25.5	0.3
			eS	18 49 06.0	2.1
BJI	80.5	316	cP	18 39 34.0	-3.7
GYA	81.5	301	P	18 39 44.0	0.4
TIY	81.9	313	cP	18 39 46.2	0.9
XAN	82.8	308	cP	18 39 51.4	1.3
CD2	85.6	304	cP	18 40 08.4	4.3
GTA	91.6	311	cP	18 40 33.9	1.0

1987 5 18

O=18 33 19.3 ± 0.17s

LAT=16.13 S ± 3.44km

LONG=178.37 E ± 2.38km

DEPTH=35 km ± 0.41km

STATIONS USED = 49, STAND DEV = 1.21s

Ms=5.3 / 8, m_B=5.5 / 2

QZH	71.1	304	cP	18 44 36.0	-0.9
			LN	Ms=5.3	24.0 1.35
SSE	72.2	311	cP	18 44 40.0	-3.5
			cS	18 54 04.0	0.9
			csS	18 54 15.0	-4.8
			cSS	18 58 39.0	-2.5
NJ2	74.4	311	cP	18 44 55.5	-0.9
MDJ	75.0	326	cP	18 44 59.0	-0.6
			cS	18 54 39.0	5.0
			SMN	m _B =5.5	10.0 0.40
QZN	75.9	295	cP	18 45 08.0	3.1
			cPP	18 48 00.0	3.7
			cS	18 54 50.0	5.7
CN2	76.8	324	cP	18 45 11.0	1.3
			cS	18 54 54.0	0.5
WHN	77.1	307	cP	18 45 12.0	0.5
			cS	18 55 01.3	4.4
			LN	Ms=5.6	20.0 1.69
TIA	77.8	313	cP	18 45 14.9	-0.6
			LN	Ms=5.3	18.0 0.87
BJI	80.4	316	cP	18 45 28.0	-1.5
			cS	18 55 28.0	-3.9
			cSKS	18 55 40.0	1.4
GYA	81.5	301	P	18 45 34.6	-0.9
TIY	81.8	313	cP	18 45 37.6	0.5
			S	18 55 52.0	6.9
			LN	Ms=5.4	16.0 0.78
XAN	82.7	308	cP	18 45 41.9	0.0
HHC	83.8	315	cP	18 45 48.1	0.5
			LE	Ms=5.2	32.0 0.95
KMI	84.3	298	-P	18 45 51.0	1.1
BTO	84.8	315	cP	18 45 50.1	-2.2
CD2	85.5	304	cP	18 45 57.2	1.3
			cS	18 56 28.0	4.0
			LE	Ms=5.3	24.0 0.96
GTA	91.5	311	cP	18 46 24.3	-0.4
			LN	Ms=5.2	17.0 0.47

1987 5 19

O=00 14 32.2 ± 0.08s

LAT=29.85 N ± 1.35km

LONG=139.03 E ± 1.61km

DEPTH=416 km ± 0.35km

STATIONS USED = 89, STAND DEV = 1.58s

SSE	15.4	279	P	00 17 50.0	-0.8
			PMZ	m _B =5.5	5.0 0.87
			csP	00 19 29.0	0.2

			iS	00 20 32.0	0.9				TIY	23.4	297	-P	00 19 08.5	0.3		
			PcS	00 26 00.0	-0.7							PMZ				0.7 0.060
			ScS	00 28 57.0	-1.0							S	00 22 52.0	2.4		
MDJ	16.5	336	+iP	00 18 01.0	-0.8							SMN	$m_B = 5.5$		7.0	1.46
			ScP	00 25 23.0	0.4							SME			8.0	1.58
			iS	00 20 50.0	-1.5				GZH	23.9	260	cP	00 19 13.5	0.6		
			SMN	$m_B = 5.6$		7.0	5.10		HHC	24.9	304	-P	00 19 21.0	-0.3		
			ScS	00 29 00.0	-1.1				BTO	25.9	302	-P	00 19 30.0	-0.8		
DL2	17.0	307	P	00 18 05.5	-0.6							pP	00 20 41.0	3.5		
			esP	00 19 46.0	-2.7							S	00 23 26.0	-3.9		
			eS	00 20 58.0	-1.3				QZN	28.6	255	P	00 19 56.7	2.2		
SNY	17.3	318	-iP	00 18 09.5	0.0							pP	00 21 11.0	2.6		
			PMZ			3.0	1.41					iS	00 24 18.0	5.0		
			S	00 21 05.0	0.1							SMN	$m_B = 5.4$		7.0	1.10
			SMN	$m_B = 5.6$		10.0	4.89					SME			8.0	1.30
			SME			6.0	1.98					PcS	00 26 36.0	1.9		
			ScP	00 25 26.0	1.9				GYA	28.7	271	-P	00 19 55.0	-0.4		
			ScS	00 29 02.0	-1.3							PMZ			3.0	1.10
NJ2	17.5	282	-iP	00 18 11.5	0.4							PP	00 21 19.0	4.8		
			PMZ			2.0	2.00					sP	00 21 56.0	-1.2		
			sP	00 19 50.0	-5.3							PcP	00 22 54.0	0.4		
			iS	00 21 11.0	2.5							iS	00 24 13.0	-1.7		
			SMN	$m_B = 5.6$		5.0	2.20					SME	$m_B = 5.6$		5.0	1.70
			SME			5.0	2.30					ScP	00 25 56.0	2.0		
CN2	17.6	326	-iP	00 18 13.0	0.0							PcS	00 26 35.0	0.7		
			PMZ			3.0	0.60					ScS	00 29 49.6	2.3		
			sP	00 19 54.0	-3.7				CD2	30.4	281	P	00 20 09.8	-0.2		
			eS	00 21 11.0	-0.9							PMZ	$m_B = 5.5$		4.0	0.84
			SMN	$m_B = 5.8$		7.0	4.60					pP	00 21 26.0	0.8		
			SME			7.0	3.70					S	00 24 39.0	-0.9		
			ScP	00 25 25.8	0.9							SME	$m_B = 5.8$		5.0	2.64
			ScS	00 29 04.5	0.2				KMI	32.5	271	-iP	00 20 29.0	1.0		
QZH	18.8	260	-P	00 18 25.0	0.6							PMZ			3.0	0.78
			sP	00 20 12.0	-0.4							PP	00 21 57.0	0.0		
			iS	00 21 35.0	2.5							iS	00 25 14.0	0.7		
			SMN	$m_B = 5.8$		9.0	2.76					sS	00 27 29.0	0.5		
			SME			8.0	6.29		GTA	33.4	297	-P	00 20 35.6	-0.6		
BJI	21.3	305	cP	00 18 47.5	-0.8							PMZ			3.0	0.69
			PMZ			3.0	1.07					PP	00 22 03.8	-3.8		
			sP	00 20 42.0	-1.4							ScP	00 26 12.1	2.3		
			ScP	00 25 34.0	0.9							iS	00 25 26.0	-2.2		
			eS	00 22 15.0	0.0							SMN	$m_B = 5.7$		5.0	1.28
			SMN	$m_B = 5.6$		4.0	1.38					SME			4.5	1.27
			SME			4.0	0.59					SS	00 28 05.0	-5.2		
WHN	21.3	278	-iP	00 18 51.0	2.0							ScS	00 30 10.0	-1.0		
			PMZ	$m_B = 6.1$		4.0	3.04		KSH	51.8	299	P	00 23 04.0	1.7		
			sP	00 20 43.0	-1.3							PP	00 25 07.0	1.2		
			S	00 22 17.0	1.4							iS	00 29 57.0	4.7		
			SME	$m_B = 5.6$		8.0	3.05					ScS	00 32 09.5	4.5		
			ScP	00 25 37.0	3.7											

1987 5 19
 O=01 54 49.6 ± 0.27s
 LAT=24.88 N ± 0.95km
 LONG= 98.65 E ± 1.57km
 DEPTH= 6 km ± 2.24km
 STATIONS USED = 5, STAND DEV = 4.99s
 M_L=3.5 / 2,
 KMI 3.7 85 +Pg 01 55 55.0 -0.6
 Sg 01 56 40.5 -5.7
 SMN M_L=3.9 1.0 0.30
 SME 1.0 0.30

1987 5 19
 O=03 17 18.6 ± 0.10s
 LAT=38.18 N ± 3.07km
 LONG= 71.33 E ± 1.17km
 DEPTH= 65 km ± 2.59km
 STATIONS USED = 5, STAND DEV = 4.63s
 M_L=4.8 / 2,
 KSH 3.8 69 P 03 18 19.7 2.6
 SMN M_L=5.1 1.0 5.90
 SME 0.8 2.10
 GTA 22.2 78 P 03 22 12.7 1.6

1987 5 19
 O=03 55 55.5 ± 0.04s
 LAT=33.05 N ± 0.34km
 LONG=119.40 E ± 0.47km
 DEPTH= 6 km ± 0.19km
 STATIONS USED = 5, STAND DEV = 2.13s
 M_L=2.6 / 3,
 NJ2 1.1 205 +iPg 03 56 13.5 -1.3
 iSg 03 56 26.7 -3.1
 SMN M_L=3.0 0.2 0.30
 SME 0.2 0.30
 SSE 2.5 142 Pg 03 56 40.0 1.0
 Sg 03 57 14.2 1.5

1987 5 19
 O=08 12 05.3 ± 0.10s
 LAT=59.76 S ± 2.20km
 LONG= 26.08 W ± 2.56km
 DEPTH= 30 km ± 0.49km
 STATIONS USED = 14, STAND DEV = 2.27s
 TIY 145.7 111 -iPKP 08 31 41.1 -1.0
 TIA 146.6 118 cPKP 08 31 44.8 1.2
 BJI 149.3 113 cPKP 08 31 46.5 -1.4

1987 5 19
 O=09 23 48.3 ± 0.04s

LAT=41.97 N ± 0.40km
 LONG= 87.94 E ± 0.23km
 DEPTH= 12 km ± 0.12km
 STATIONS USED = 6, STAND DEV = 3.05s
 M_L=3.1 / 5,

1987 5 19
 O=12 56 26.3 ± 0.45s
 LAT=30.13 S ± 4.25km
 LONG= 71.65 W ± 3.36km
 DEPTH= 44 km ± 3.74km
 STATIONS USED = 73, STAND DEV = 1.85s
 M_s=6.1 / 20,

KSH 152.0 62 cPKP 13 16 11.5 0.4
 PKP₂ 13 16 30.0
 PP 13 20 00.0 -0.5
 SKS 13 23 12.0 1.5
 cSKKS 13 26 49.0
 LE M_s=6.5 17.0 4.40
 MDJ 157.9 317 cPKP 13 16 16.0 -2.9
 PKP₂ 13 16 49.0
 SKKS 13 27 56.0
 SS 13 40 24.0 -1.1
 CN2 160.7 320 +PKP 13 16 20.0 -2.1
 PKP₂ 13 17 04.0
 PP 13 20 46.0 -3.3
 cSS 13 40 54.0 -0.9
 SNY 163.1 318 +PKP 13 16 22.0 -2.4
 SKKS 13 27 48.0
 LN M_s=6.1 20.0 0.84
 LE 23.0 2.22
 DL2 166.0 312 cPKP 13 16 28.0 0.7
 cPP 13 21 14.0 -2.7
 SKKS 13 28 00.0
 LN M_s=6.2 21.0 2.80
 BJI 168.2 329 PKP 13 16 29.0 0.3
 PKP₂ 13 17 36.0
 PP 13 21 24.0 -3.9
 LN M_s=6.0 20.0 2.12
 GTA 168.4 35 PKP 13 16 29.0 0.0
 PKP₂ 13 17 35.0
 PP 13 21 26.0 -2.7
 cSKKS 13 28 16.0
 LN M_s=6.1 20.0 2.68
 QZN 168.9 187 PKP 13 16 29.0 -0.1
 PKP₂ 13 17 36.5
 PP 13 21 26.0 -5.1
 SKKS 13 28 00.0
 LN M_s=6.3 20.0 3.00
 LE 20.0 3.20



WMQ	150.6	108	PKP	14 14 00.0	-1.7
GTA	152.1	129	-iPKP	14 14 09.6	5.6
TIA	154.0	160	cPKP	14 14 05.7	-0.8
TIY	154.5	151	cPKP	14 14 06.6	-0.7
BJI	157.6	156	cPKP	14 14 10.0	-1.2
MDJ	163.3	184	cPKP	14 14 15.2	-2.2

1987 5 20

O=15 52 05.3 ± 0.11s
 LAT=44.01 N ± 1.49km
 LONG= 88.51 E ± 0.94km
 DEPTH= 18 km ± 0.44km
 STATIONS USED = 9, STAND DEV= 3.41s

$M_L = 3.5 / 5,$

WMQ	0.6	252	Pg	15 52 14.4	-2.3
			Sg	15 52 22.2	-3.1
GTA	9.6	115	cP	15 54 25.8	-0.6

1987 5 20

O=23 40 45.3 ± 0.19s
 LAT=19.30 S ± 2.40km
 LONG=173.34 W ± 4.14km
 DEPTH= 35 km ± 0.31km
 STATIONS USED = 27, STAND DEV= 1.85s

MDJ	82.1	323	cP	23 53 03.5	-1.4
CN2	84.1	320	cP	23 53 15.0	0.1
SNY	84.2	318	+P	23 53 15.5	0.2
WHN	85.3	304	cP	23 53 16.0	-5.0
BJI	88.2	314	cP	23 53 35.0	0.1
TIY	89.8	310	cP	23 53 44.5	1.9
KMI	92.8	296	cP	23 53 58.5	2.0

1987 5 21

O=09 20 22.7 ± 0.10s
 LAT= 7.38 S ± 1.91km
 LONG=128.52 E ± 2.11km
 DEPTH= 32 km ± 0.23km
 STATIONS USED = 69, STAND DEV= 1.33s

GZH	33.7	334	-iP	09 27 04.0	0.4
SSE	38.9	350	P	09 27 48.6	1.2
			PMZ		0.8 0.010
GYA	39.8	329	+P	09 27 56.0	1.2
WHN	40.1	341	P	09 27 59.5	2.3
NJ2	40.3	347	cP	09 27 58.8	-0.1
KMI	40.9	323	+iP	09 28 05.5	1.1
TIA	44.7	347	P	09 28 34.6	-0.1
CD2	44.9	329	cP	09 28 36.0	-0.3
			PMZ		0.8 0.050
			pP	09 28 40.7	-4.7
			cS	09 35 13.0	1.4

XAN	45.2	337	+iP	09 28 38.4	-0.6
TIY	47.3	343	cP	09 28 55.0	-0.8
			S	09 35 45.5	0.1
BJI	48.5	347	cP	09 29 05.0	-0.3
LZH	49.1	333	+iP	09 29 10.0	0.5
			PMZ		1.5 0.070
SNY	49.2	355	cP	09 29 10.0	-0.2
HHC	50.5	343	cP	09 29 20.4	0.2
CN2	51.0	357	+P	09 29 23.0	-1.3
MDJ	51.8	1	cP	09 29 28.5	-1.4
GTA	53.6	332	+iP	09 29 43.6	-0.3
WMQ	62.9	328	P	09 30 48.2	-0.7
KSH	67.3	318	cP	09 31 20.0	2.9

1987 5 21

O=12 05 24.7 ± 0.14s
 LAT=32.16 N ± 0.77km
 LONG=120.71 E ± 1.24km
 DEPTH= 3 km ± 0.77km
 STATIONS USED = 9, STAND DEV= 2.54s

$M_L = 3.4 / 8,$

SSE	1.1	159	-iPg	12 05 44.3	-0.4
			Sg	12 05 56.0	-4.2
			SMN	$M_L = 3.3$	0.3 0.56
			SME		0.3 0.73
NJ2	1.6	267	Pn	12 05 55.2	1.4
			Pg	12 05 56.2	3.7
			iSg	12 06 15.8	1.7
			SMN	$M_L = 3.6$	0.2 0.70
			SME		0.2 0.60

1987 5 21

O=12 25 26.3 ± 0.10s
 LAT=24.24 N ± 1.61km
 LONG=125.25 E ± 1.48km
 DEPTH= 43 km ± 0.78km
 STATIONS USED = 81, STAND DEV= 1.78s

$M_s = 4.8 / 32,$

$m_B = 5.3 / 3$

QZH	6.1	278	cP	12 26 55.0	-1.4
			S	12 28 07.0	2.0
			LE	$M_s = 4.3$	10.0 3.49
SSE	7.7	333	P	12 27 18.2	-0.8
			S	12 28 47.0	1.7
NJ2	9.6	325	cP	12 27 46.4	1.2
			sP	12 27 56.0	-2.9
			cS	12 29 32.0	-0.4
			LN	$M_s = 4.8$	12.0 5.40
WHN	11.5	305	cP	12 28 12.5	1.0
			sP	12 28 22.0	-3.2
			LN	$M_s = 4.8$	12.0 2.92

SME		0.5	0.030	WMQ	54.9	298	P	08 52 45.4	-0.8
				GYA	55.8	270	P	08 52 51.6	-1.1
1987 5 22									
O=03 50 43.0		± 0.09s							
LAT=39.85 N		± 0.98km							
LONG=116.67 E		± 0.76km							
DEPTH= 11 km		± 0.38km							
STATIONS USED = 18,		STAND DEV= 2.06s							
		M _L =3.8 / 16,							
BJI	0.4	297	Pg	03 50 50.0				-0.7	
			Sg	03 50 56.0				-0.6	
TIA	3.7	174	Pn	03 51 39.6				-0.3	
			Pg	03 51 50.4				2.9	
			Sn	03 52 21.5				-3.4	
			Sg	03 52 36.5				-0.9	
			SMN		M _L =3.5			0.4	0.11
			SME					0.4	0.12
TIY	3.9	239	cPn	03 51 44.8				1.0	
			Pg	03 51 54.8				2.3	
			Sg	03 52 48.4				2.1	
			SMN		M _L =3.9			0.6	0.22
			SME					0.8	0.30
HHC	4.0	286	Pg	03 51 55.2				0.9	
			Sg	03 52 46.6				-2.5	
			SMN		M _L =3.9			0.6	0.18
			SME					0.6	0.31
BTO	5.1	280	cPg	03 52 15.4				1.4	
			Sg	03 53 24.6				0.5	
			SMN		M _L =3.8			0.6	0.13
			SME					0.6	0.10
SNY	5.6	67	-Pg	03 52 21.8				-0.1	
			Sg	03 53 34.2				-4.2	
			SMN		M _L =3.7			0.6	0.080
			SME					0.6	0.050
CN2	7.7	56	+Pg	03 53 01.8				3.6	
			SMN		M _L =4.0			0.6	0.040
			SME					0.6	0.050

1987 5 22									
O=08 43 17.0		± 0.16s							
LAT=52.54 N		± 2.03km							
LONG=173.93 E		± 0.86km							
DEPTH= 42 km		± 0.56km							
STATIONS USED = 36,		STAND DEV= 1.15s							
CN2	32.9	274	cP	08 49 48.0				-2.1	
TIY	44.5	276	cP	08 51 26.4				-0.2	
WHN	48.2	267	+P	08 51 56.0				0.6	
XAN	49.0	275	cP	08 52 02.0				-0.4	
LZH	50.7	280	cP	08 52 15.5				-0.1	
GTA	50.9	286	+iP	08 52 19.7				2.7	

1987 5 22									
O=11 35 39.1		± 0.53s							
LAT=24.86 N		± 3.39km							
LONG=121.36 E		± 3.24km							
DEPTH= 15 km		± 0.02km							
STATIONS USED = 10,		STAND DEV= 1.89s							
		M _L =2.8 / 5,							
QZH	2.5	272	-Pn	11 36 20.0				0.1	
			Sn	11 36 51.8				-0.4	
			SMN		M _L =2.8			0.2	0.080
			SME					0.2	0.030
1987 5 22									
O=12 46 50.3		± 0.07s							
LAT=39.55 N		± 0.76km							
LONG=118.30 E		± 0.60km							
DEPTH= 14 km		± 0.26km							
STATIONS USED = 16,		STAND DEV= 1.89s							
		M _L =3.7 / 14,							
BJI	1.7	287	Pn	12 47 18.5				-1.6	
			Pg	12 47 20.0				-0.5	
			Sg	12 47 43.0				-0.9	
			SMN		M _L =4.2			0.5	2.87
			SME					0.5	2.45
DL2	2.7	103	cPn	12 47 33.4				0.1	
			Pg	12 47 41.6				4.2	
			Sg	12 48 12.8				-1.1	
			SMN		M _L =3.5			0.7	0.31
			SME					0.7	0.14
TIA	3.5	196	cPn	12 47 45.7				1.4	
			Pg	12 47 54.2				2.8	
			Sg	12 48 38.3				-0.5	
			SMN		M _L =3.3			0.4	0.080
			SME					0.4	0.090
SNY	4.6	59	cPg	12 48 12.5				0.7	
			Sg	12 49 11.2				-3.6	
			SMN		M _L =3.6			0.6	0.11
			SME					0.6	0.090
TIY	4.9	250	Pn	12 48 06.0				1.3	
			Pg	12 48 20.0				2.4	
			Sg	12 49 22.0				-3.3	
			SMN		M _L =3.5			0.8	0.050
			SME					0.6	0.060
HHC	5.3	286	cPg	12 48 26.4				2.0	
			SMN		M _L =3.9			0.8	0.080
			SME					0.8	0.14
CN2	6.8	49	+Pg	12 48 53.2				2.2	

Sn 12 49 48.6 -1.8
 SMN $M_L=4.0$ 1.0 0.080
 SME 1.0 0.070

1987 5 22

O=16 20 44.5 ± 0.08s
 LAT=52.77 N ± 2.66km
 LONG=163.97 W ± 1.56km
 DEPTH= 27 km ± 0.53km
 STATIONS USED = 37, STAND DEV= 1.26s

CN2	46.0	288	-P	16 29 08.2	-0.2
SNY	48.4	288	+P	16 29 27.2	0.8
XAN	62.1	290	-P	16 31 05.7	-0.4
GTA	63.2	300	-iP	16 31 13.0	-0.4
WMQ	65.8	311	P	16 31 31.4	1.0
GYA	69.0	286	eP	16 31 50.6	0.0

1987 5 22

O=17 06 53.2 ± 0.08s
 LAT=38.24 N ± 1.15km
 LONG= 74.50 E ± 1.15km
 DEPTH=147 km ± 0.72km
 STATIONS USED = 23, STAND DEV= 1.89s

KSH	1.7	43	-iP	17 07 28.0	2.9
			S	17 07 52.0	3.1
			SMN		3.0 5.80
WMQ	11.4	57	eP	17 09 31.3	-1.8
			eS	17 11 35.5	-2.9
			LN		1.0 0.020
GTA	19.7	79	P	17 11 14.7	0.7

1987 5 22

O=17 59 35.9 ± 0.04s
 LAT=40.69 N ± 0.36km
 LONG=122.72 E ± 0.39km
 DEPTH= 4 km ± 0.00km
 STATIONS USED = 7, STAND DEV= 1.20s

$M_L=3.0 / 7,$

SNY	1.3	29	ePg	17 59 58.0	-1.0
			Sg	18 00 15.0	-1.8
			SMN	$M_L=2.8$	0.4 0.16
			SME		0.4 0.12
DL2	2.0	206	Pg	18 00 10.0	-0.7
			Sg	18 00 36.3	-1.3
			SMN	$M_L=3.0$	0.5 0.12
			SME		0.5 0.16
CN2	3.7	32	Pg	18 00 41.6	0.2
			Sg	18 01 28.8	-3.3
			SMN	$M_L=3.0$	0.6 0.050
			SME		0.6 0.030

1987 5 22

O=18 20 29.2 ± 0.10s
 LAT=33.62 S ± 2.46km
 LONG= 77.90 E ± 1.84km
 DEPTH= 8 km ± 0.16km
 STATIONS USED = 8, STAND DEV= 2.81s

XAN	73.3	27	eP	18 32 01.7	-2.4
LZH	73.5	22	eP	18 32 09.5	4.5

1987 5 22

O=18 30 36.9 ± 0.17s
 LAT=40.31 N ± 1.23km
 LONG= 78.70 E ± 1.39km
 DEPTH= 10 km ± 0.77km
 STATIONS USED = 8, STAND DEV= 3.43s

$M_L=3.9 / 4,$

KSH	2.3	249	Pn	18 31 15.0	0.2
			Sg	18 31 45.5	-2.2
WMQ	7.6	60	Pn	18 32 28.1	0.5
			Sn	18 33 50.0	-5.8
			Sg	18 34 40.0	6.3
			SMN	$M_L=3.8$	0.8 0.030
GTA	16.2	86	eP	18 34 23.8	-3.4

1987 5 23

O=07 01 03.0 ± 0.07s
 LAT=51.22 N ± 2.58km
 LONG=176.00 W ± 1.26km
 DEPTH= 37 km ± 1.00km
 STATIONS USED = 57, STAND DEV= 0.88s

CN2	39.3	283	+P	07 08 29.8	-0.7
DL2	44.5	279	eP	07 09 14.0	1.3
BJI	47.1	284	eP	07 09 34.0	0.1
TIA	48.9	279	eP	07 09 48.0	0.0
HHC	49.4	288	P	07 09 53.0	1.1
SSE	49.8	271	eP	07 09 55.0	0.6
			PMZ		1.0 0.010
			eS	07 17 02.0	2.0
BTO	50.5	288	P	07 10 00.0	-0.2
NJ2	50.6	274	eP	07 10 00.0	-0.6
TIY	50.9	284	-P	07 10 04.0	1.1
WHN	54.4	276	eP	07 10 30.0	0.7
XAN	55.4	283	P	07 10 35.6	-1.0
			pP	07 10 49.4	2.6
LZH	57.1	288	+iP	07 10 49.0	0.0
			PMZ		1.5 0.10
GTA	57.3	294	+P	07 10 49.0	-0.9
CD2	60.7	284	eP	07 11 13.2	-0.7
WMQ	60.9	305	eP	07 11 13.8	-1.3

GYA	62.1	278	P	07 11 23.6	0.5
KMI	65.5	280	eP	07 11 45.5	0.0
KSH	70.0	308	eP	07 12 14.3	0.4

1987 5 23

O = 08 49 35.2 ± 0.13s
 LAT = 30.11 N ± 1.27km
 LONG = 103.10 E ± 1.19km
 DEPTH = 15 km ± 0.30km

STATIONS USED = 19, STAND DEV = 3.17s

$M_L = 3.6 / 8,$

CD2	1.0	35	Pn	08 49 53.1	-1.9		
			Pg	08 49 54.2	1.5		
			Sg	08 50 11.3	5.1		
			SMN	$M_L = 3.4$	1.0	1.04	
			SME			0.4	0.86
GYA	4.8	138	Pn	08 50 49.4	1.7		
			Sn	08 51 52.0	6.9		
			SMN	$M_L = 3.8$	1.0	0.13	
KMI	5.0	184	Pn	08 50 53.0	2.9		
			Sn	08 51 50.5	1.2		
			SMN	$M_L = 3.4$	1.2	0.050	
LZH	6.0	6	ePg	08 51 26.8	5.5		
XAN	6.3	50	Pn	08 51 07.6	-0.6		
			Sn	08 52 16.1	-6.1		
			Sg	08 52 55.0	2.2		
			SMN	$M_L = 3.9$	1.0	0.080	
			SME		1.0	0.070	

1987 5 23

O = 12 53 33.8 ± 0.07s
 LAT = 37.42 N ± 0.65km
 LONG = 115.02 E ± 0.74km
 DEPTH = 14 km ± 0.08km

STATIONS USED = 14, STAND DEV = 1.98s

$M_L = 3.4 / 12,$

TIY	2.1	279	ePn	12 54 08.6	-0.2		
			Pg	12 54 10.2	-0.3		
			Sg	12 54 37.1	-1.8		
			SMN	$M_L = 3.0$	0.6	0.090	
			SME			0.4	0.12
TIA	2.1	125	Pn	12 54 08.9	0.1		
			Pg	12 54 11.8	1.3		
			Sg	12 54 38.9	-0.1		
			SMN	$M_L = 3.4$	0.3	0.30	
			SME		0.3	0.30	
BJI	2.8	19	ePn	12 54 17.0	-1.2		
			Pg	12 54 23.0	0.4		
			eSg	12 54 58.0	-2.5		
			SMN	$M_L = 3.6$	0.5	0.29	

HHC	4.3	323	cPg	12 54 51.2	0.4		
			Sg	12 55 45.4	-4.7		
			SMN	$M_L = 3.8$	0.8	0.13	
			SME		0.5	0.17	
BTO	5.0	311	Pg	12 55 02.5	-0.2		
			Sg	12 56 04.8	-6.3		
XAN	6.0	238	ePg	12 55 21.0	1.1		
			Sg	12 56 38.0	-3.7		
			SMN	$M_L = 3.1$	0.8	0.020	
			SME		0.8	0.010	

1987 5 23

O = 17 09 05.0 ± 0.17s
 LAT = 8.17 N ± 2.79km
 LONG = 125.63 E ± 3.50km
 DEPTH = 32 km ± 0.26km

STATIONS USED = 81, STAND DEV = 2.33s

$M_s = 5.4 / 43,$

$m_B = 5.9 / 17$

QZH	18.0	339	-P	17 13 14.8	0.5		
			PMZ	$m_B = 5.8$	6.0	2.96	
			S	17 16 34.0	3.4		
			SME	$m_B = 5.8$	7.0	3.33	
			sS	17 16 46.0	3.0		
			LN	$M_s = 5.2$	20.0	8.61	
QZN	18.7	307	+P	17 13 24.0	0.3		
			PMZ	$m_B = 5.9$	7.0	4.10	
			SMN	$m_B = 5.6$	9.0	1.30	
			SME		9.0	2.00	
			LN	$M_s = 5.2$	12.0	2.50	
			LE		13.0	4.40	
GZH	18.9	323	+P	17 13 29.0	2.8		
			PMZ	$m_B = 5.9$	6.5	3.88	
			LN	$M_s = 5.6$	18.0	14.6	
			LE		19.0	10.8	
SSE	23.2	350	eP	17 14 10.0	0.0		
			esP	17 14 23.0	0.2		
			PP	17 14 41.0	0.6		
			S	17 18 18.0	3.0		
			SMN	$m_B = 6.1$	12.0	6.35	
			sS	17 18 32.0	1.9		
			SS	17 19 08.0	6.7		
NJ2	24.6	346	+P	17 14 23.0	-0.6		
			LE	$M_s = 5.1$	20.0	4.62	
				$M_s = 5.1$	12.5	2.60	
WHN	24.6	336	eP	17 14 27.0	2.9		
			PMZ	$m_B = 5.7$	6.0	1.80	
			pP	17 14 36.3	3.4		
			SMN	$m_B = 6.0$	11.0	5.19	
			GYA	25.6	318	P	17 14 37.2

			PMZ		1.5	0.080
			S	02 18 17.0	0.7	
XAN	26.8	30	+P	02 13 51.0	-3.3	
WHN	27.4	43	eP	02 14 05.0	4.9	
GTA	28.5	11	-iP	02 14 09.5	-0.6	
			PMZ		1.2	0.060
			S	02 18 50.0	0.0	
			ScP	02 20 52.4	-0.2	
			ScS	02 24 46.3	1.9	
KSH	31.8	334	P	02 14 39.6	0.6	
BTO	32.7	24	eP	02 14 44.4	-2.5	
BJI	35.1	32	eP	02 15 07.0	-0.3	
SNY	40.3	36	eP	02 15 54.7	3.2	
CN2	42.7	35	eP	02 16 13.0	2.5	
			pP	02 16 31.0	2.2	

1987 5 24

O=10 34 02.2 ± 0.11s
 LAT=39.08 N ± 0.84km
 LONG=123.75 E ± 0.97km
 DEPTH= 4 km ± 0.00km
 STATIONS USED = 5, STAND DEV= 3.49s

$M_L=3.0/5,$

DL2	1.7	265	Pg	10 34 29.7	-1.9	
			Sg	10 34 49.6	-4.8	
			SMN	$M_L=3.2$	0.4	0.31
			SME		0.4	0.17
SNY	2.7	357	-Pg	10 34 48.7	-2.0	
			Sg	10 35 21.4	-6.8	
			SMN	$M_L=3.2$	0.6	0.11
			SME		0.6	0.13

1987 5 24

O=19 51 25.9 ± 0.26s
 LAT=24.41 N ± 1.68km
 LONG=121.17 E ± 1.63km
 DEPTH= 52 km
 STATIONS USED = 7, STAND DEV= 0.87s

$M_L=3.5/3,$

QZH	2.4	283	eP	19 52 04.2	0.3	
			SMN	$M_L=3.5$	0.8	0.34
			SME		0.8	0.17
			LN		9.0	0.20

1987 5 24

O=22 45 09.1 ± 0.05s
 LAT=23.92 N ± 0.60km
 LONG=122.60 E ± 0.60km
 DEPTH= 22 km ± 0.79km
 STATIONS USED = 7, STAND DEV= 2.92s

					$M_L=3.3/2,$	
QZH	3.8	286	ePn	22 46 07.3	0.7	
			Sn	22 46 49.0	-3.4	
			SMN	$M_L=3.1$	0.3	0.050
			SME		0.3	0.050
SSE	7.3	350	ePn	22 46 56.0	1.7	

1987 5 25

O=11 31 53.6 ± 0.31s
 LAT=63.86 N ± 4.37km
 LONG= 19.87 W ± 2.47km
 DEPTH= 7 km ± 0.73km
 STATIONS USED = 90, STAND DEV= 1.51s

$M_s=6.3/46,$ $m_B=6.2/10$

KSH	57.8	65	P	11 41 50.0	1.1	
			S	11 49 51.0	5.1	
			sS	11 49 58.0	2.5	
			LE	$M_s=6.7$	12.0	24.8
WMQ	58.6	54	P	11 41 53.0	-1.0	
			PcP	11 42 47.0	3.8	
			eS	11 49 57.0	0.1	
			SMN		28.0	3.87
			sS	11 50 06.0	1.0	
			LN	$M_s=6.3$	11.0	8.25
GTA	66.6	47	+P	11 42 46.8	-0.9	
			PMZ		3.0	0.63
			sP	11 42 53.8	-1.3	
			S	11 51 40.0	3.3	
			SME		14.0	1.18
			LE	$M_s=6.2$	20.0	8.43
BTO	68.6	39	eP	11 43 00.2	0.0	
			csP	11 43 07.0	-0.7	
			PP	11 45 35.0	2.1	
			S	11 52 02.0	1.4	
			LN	$M_s=6.3$	19.0	9.30
			LE		19.0	6.60
HHC	68.8	38	+P	11 43 02.5	1.1	
			pP	11 43 07.0	0.7	
			PP	11 45 38.0	3.4	
			ScP	11 47 30.0	2.2	
			LN	$M_s=5.9$	18.0	1.19
			LE		17.0	3.27
MDJ	69.2	23	-P	11 43 03.6	-0.2	
			sP	11 43 12.0	0.6	
			S	11 52 13.0	5.3	
CN2	69.2	26	+P	11 43 03.0	-1.0	
			PMZ		3.0	1.70
			eS	11 52 12.0	2.5	
			SMN	$m_B=6.2$	7.0	1.60
			eSS	11 56 41.0	4.8	

SNY	70.7	28	+P	11 43 12.6	-0.6				LN	Ms=6.3	17.0	6.29		
			PMZ			3.0	1.57		LE		17.0	3.05		
			SMN		$m_B=6.2$	7.0	0.81	KMI	80.7	51	cP	11 44 09.0	-0.9	
			SME			8.0	1.29				pP	11 44 14.0	-0.6	
			LN		$M_s=6.2$	30.0	6.89				cS	11 54 20.0	2.9	
			LE			28.0	10.8				LE	$M_s=6.3$	21.0	8.90
BJI	70.7	34	cP	11 43 12.0	-1.2			GYA	80.7	47	P	11 44 10.6	0.4	
			PMZ			3.0	0.96				LN	$M_s=6.3$	18.0	6.50
			eS	11 52 32.0	4.7						LE		18.0	4.30
			SME		$m_B=6.0$	10.0	1.25	QZH	85.7	37	-P	11 44 36.0	0.6	
			LE		$M_s=6.4$	26.0	19.6				cS	11 55 08.0	0.7	
LZH	70.9	45	+iP	11 43 14.5	-0.1						sS	11 55 18.0	2.4	
			PMZ			2.5	0.41				LE	$M_s=6.3$	22.0	8.36
			LN		$M_s=6.4$	14.0	2.49	GZH	86.0	42	-P	11 44 38.7	2.0	
			LE			18.0	10.1				LE	$M_s=6.1$	15.0	3.65
TIY	72.0	38	cP	11 43 21.3	0.7			QZN	88.7	47	cP	11 44 49.5	-0.5	
			S	11 52 46.0	6.1						S	11 55 37.5	3.5	
			ScS	11 53 27.5	5.3						LN	$M_s=6.2$	17.0	1.90
			SS	11 57 19.0	0.9						LE		17.0	4.80
			LN		$M_s=6.3$	28.0	6.02							
			LE			29.0	15.6							
DL2	73.1	31	eP	11 43 27.0	-0.4			1987 5 25						
			sS	11 53 09.0	6.1			O=11 40 42.0			± 0.11s			
			LN		$M_s=6.3$	16.0	6.93	LAT=56.33 N			± 2.49km			
			LE			16.0	3.88	LONG=152.94 W			± 1.70km			
XAN	74.4	42	cP	11 43 34.0	-0.8			DEPTH= 37 km			± 0.63km			
			S	11 53 14.0	6.7			STATIONS USED = 48, STAND DEV = 1.61s						
			LN		$M_s=6.4$	18.0	9.38	CN2	50.8	292	+P	11 49 41.4	-0.2	
			LE			14.0	4.25	SNY	53.2	292	+P	11 49 59.7	0.4	
TIA	74.6	35	cP	11 43 36.0	-0.1			BJI	58.3	296	cP	11 50 36.0	0.0	
			PMZ		$m_B=6.3$	3.5	1.25	HHC	60.0	299	cP	11 50 47.6	-0.1	
			ePP	11 46 30.0	6.0			TIA	60.7	292	cP	11 50 52.8	-0.1	
			SMN		$m_B=6.1$	10.0	0.65	BTO	60.9	300	cP	11 50 53.0	-1.2	
			SME			10.0	1.23	TIY	62.0	296	cP	11 51 01.4	0.2	
			LN		$M_s=6.3$	15.0	7.77	SSE	62.5	285	cP	11 51 05.0	0.0	
			LE			15.0	1.45				PMZ		1.2	0.030
NJ2	79.0	35	-iP	11 44 02.0	1.3			GTA	66.6	306	P	11 51 30.9	-0.6	
			PMZ			3.0	1.90	WMQ	68.0	317	P	11 51 40.8	0.8	
			S	11 54 04.0	6.5			QZH	68.8	283	cP	11 51 46.0	0.9	
			LN		$M_s=6.0$	15.0	3.10	GYA	73.9	293	P	11 52 16.2	0.5	
WHN	79.2	39	P	11 44 04.0	2.1			QZN	78.3	287	cP	11 52 36.5	-4.2	
			eS	11 54 00.0	-1.6			1987 5 25						
			sS	11 54 08.0	-1.8			O=12 05 00.1			± 0.09s			
			LN		$M_s=6.2$	16.0	5.83	LAT=37.81 N			± 1.68km			
SSE	80.5	33	-iP	11 44 10.0	1.3			LONG=139.66 E			± 1.44km			
			PMZ			1.5	0.40	DEPTH= 45 km			± 0.79km			
			S	11 54 20.0	6.9			STATIONS USED = 34, STAND DEV = 1.91s						
			SKS	11 54 24.0	2.7			MDJ	10.2	315	-P	12 07 21.6	-5.2	
			ScS	11 54 34.0	3.0			CN2	12.3	304	cP	12 07 56.0	0.3	
			SS	11 59 30.0	2.0			SNY	13.0	293	cP	12 08 06.0	1.2	

SSE	16.6	252	cP	12 08 54.5	2.7
TIA	18.1	272	cP	12 09 12.2	2.5
BJI	18.4	284	cP	12 09 12.5	-1.3
GYA	30.0	258	P	12 11 08.4	1.2

1987 5 25

O=15 07 33.9 ± 0.09s
 LAT=28.64 N ± 0.91km
 LONG=101.14 E ± 0.69km
 DEPTH= 10 km ± 0.29km
 STATIONS USED = 11, STAND DEV = 3.58s

M_L=3.4 / 6,

CD2	3.2	45	cPn	15 08 26.4	1.5
			Pg	15 08 30.2	-0.4
			Sg	15 09 12.2	-2.3
			SMN	M _L =3.5	0.6 0.11
			SME		1.0 0.25
KMI	3.8	157	-Pg	15 08 40.5	-0.6
			Sg	15 09 29.0	-3.5
			SME	M _L =3.3	1.5 0.070
GYA	5.4	113	cPn	15 08 57.0	2.4
			Pg	15 09 07.0	-1.7
			Sn	15 09 57.0	-1.5
			SMN	M _L =3.4	1.2 0.040

1987 5 25

O=19 01 11.3 ± 0.10s
 LAT=28.62 N ± 0.79km
 LONG=101.21 E ± 1.04km
 DEPTH= 9 km ± 0.12km
 STATIONS USED = 11, STAND DEV = 2.44s

M_L=3.2 / 4,

CD2	3.2	44	cPn	19 02 03.0	1.1
			Pg	19 02 06.8	-0.6
			Sg	19 02 48.8	-2.0
			SMN	M _L =3.4	0.8 0.10
			SME		1.0 0.19
KMI	3.7	158	cPg	19 02 17.0	-0.8
			eSg	19 03 06.0	-2.7
			SMN	M _L =3.1	0.5 0.050
GYA	5.3	113	cPn	19 02 35.0	3.8

1987 5 26

O=01 37 41.5 ± 0.13s
 LAT= 5.55 S ± 1.54km
 LONG=134.02 E ± 2.23km
 DEPTH= 33 km ± 0.27km
 STATIONS USED = 74, STAND DEV = 1.37s

M_s=5.0 / 4,

QZH	33.8	334	-P	01 44 22.0	-1.1
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QZN	34.1	316	+P	01 44 24.8	-0.9
NJ2	40.1	340	+P	01 45 17.0	1.1
WHN	40.5	333	-P	01 45 22.0	2.4
GYA	41.4	321	P	01 45 27.0	-0.1
KMI	43.1	316	-P	01 45 41.0	0.3
TIA	44.5	340	-P	01 45 51.3	-0.5
			LN	M _s =5.0	16.0 1.03
XAN	46.0	331	-P	01 46 03.3	-0.6
			LE	M _s =4.6	12.0 0.26
CD2	46.4	323	cP	01 46 06.2	-0.9
SNY	48.1	350	cP	01 46 20.3	-0.3
BJI	48.3	342	cP	01 46 21.5	-0.2
CN2	49.7	352	cP	01 46 31.0	-2.1
MDJ	50.1	356	-P	01 46 36.0	0.1
LZH	50.2	328	-iP	01 46 37.0	0.4
			PMZ		2.0 0.13
BTO	50.9	336	cP	01 46 41.5	-1.0
GTA	54.8	328	-iP	01 47 11.0	0.0
WMQ	64.4	325	-iP	01 48 17.9	0.3
KSH	69.7	316	P	01 48 52.0	1.3

1987 5 26

O=01 49 51.7 ± 0.12s
 LAT=29.70 N ± 2.29km
 LONG=142.36 E ± 2.48km
 DEPTH= 80 km ± 0.88km
 STATIONS USED = 41, STAND DEV = 2.35s

M_s=4.3 / 5,

MDJ	18.0	329	cP	01 53 56.0	-2.3
SSE	18.3	280	cP	01 54 01.5	-0.5
			cpP	01 54 13.5	-3.9
			eS	01 57 20.0	-0.4
			LN	M _s =4.3	10.0 0.22
			LE		10.0 0.45
DL2	19.4	304	cP	01 54 18.5	4.4
CN2	19.5	321	+P	01 54 16.5	1.4
QZH	21.6	263	cP	01 54 43.0	5.9
BJI	23.8	303	P	01 54 56.0	-1.8
			eS	01 59 09.0	4.5
			LE	M _s =4.2	16.0 0.44
WHN	24.2	279	eP	01 55 07.0	4.7
BTO	28.4	301	cP	01 55 44.0	2.4
			cPP	01 56 33.0	-2.6
			eS	02 00 29.0	6.9
			LN	M _s =4.5	15.0 0.40
			LE		15.0 0.50
XAN	28.7	287	P	01 55 40.0	-3.4
GYA	31.6	273	P	01 56 09.4	0.0
CD2	33.2	282	P	01 56 22.2	-1.6
GTA	36.1	297	cP	01 56 47.0	-1.0

1987 5 26

O=07 09 39.2 ± 0.06s

LAT= 3.58 N ± 0.70km

LONG=126.84 E ± 1.13km

DEPTH= 63 km ± 0.35km

STATIONS USED = 16, STAND DEV= 1.26s

XAN	34.6	333	eP	07 16 22.0	-2.6
BJI	37.6	347	eP	07 16 49.5	0.0
SNY	38.2	356	eP	07 16 55.8	1.0
MDJ	40.9	3	eP	07 17 18.0	0.4

1987 5 26

O=07 16 11.3 ± 0.13s

LAT=36.43 N ± 1.31km

LONG=100.85 E ± 0.84km

DEPTH= 15 km

STATIONS USED = 8, STAND DEV= 3.02s

$M_L=3.0/6,$

LZH	2.4	97	ePn	07 16 53.0	1.6
			Pg	07 16 55.5	1.0
			Sg	07 17 29.5	1.6
			SMN	$M_L=3.2$	1.0 0.13
			SME		1.0 0.14
GTA	3.1	345	Pn	07 17 04.1	4.0
			Pg	07 17 07.2	1.4
			P11	07 17 09.0	2.4
			Sg	07 17 46.8	-1.1
			SMN	$M_L=2.3$	0.7 0.0090
			SME		0.9 0.015

1987 5 26

O=10 55 33.0 ± 0.15s

LAT=23.79 S ± 1.40km

LONG=179.85 W ± 0.87km

DEPTH=480 km ± 1.85km

STATIONS USED = 38, STAND DEV= 1.15s

MDJ	82.3	326	+P	11 07 05.0	0.1
WHN	83.0	308	+P	11 07 10.0	1.1
SNY	83.6	321	+P	11 07 11.6	-0.3
CN2	83.9	324	eP	11 07 11.4	-1.7
TIA	84.3	314	P	11 07 15.0	0.0
BJI	87.0	316	eP	11 07 28.0	-0.4
TIY	88.2	313	+P	11 07 34.6	0.6
XAN	88.8	308	P	11 07 36.2	-0.4

1987 5 26

O=12 07 51.1 ± 0.09s

LAT=38.20 N ± 1.79km

LONG=142.22 E ± 1.70km

DEPTH= 32 km ± 0.95km

STATIONS USED = 87, STAND DEV= 1.58s

$M_s=5.3/43,$ $m_B=5.8/8$

MDJ	11.4	308	+P	12 10 37.7	2.3
			PMZ		3.0 1.50
			pP	12 10 45.0	2.7
			cS	12 12 46.0	2.8
			sS	12 12 57.0	3.0
CN2	13.8	299	+P	12 11 08.0	0.5
			PMZ	$m_B=6.3$	4.0 2.00
			pP	12 11 15.5	1.1
			cS	12 13 42.0	0.9
SNY	14.7	290	+P	12 11 21.0	1.8
			pP	12 11 28.5	2.2
			LN	$M_s=5.3$	14.0 5.43
			LE		18.0 10.3
DL2	16.1	279	P	12 11 37.5	0.3
			cS	12 14 32.0	-2.9
			LN	$M_s=5.0$	13.0 3.06
			LE		15.0 3.81
SSE	18.7	254	+P	12 12 09.0	-0.1
			PMZ		0.6 0.090
			pP	12 12 18.0	1.6
			S	12 15 31.0	-1.5
			sS	12 15 44.0	-0.9
			SS	12 15 55.0	-2.2
			PcS	12 20 13.0	1.1
			LN	$M_s=4.9$	11.0 1.87
			LE		11.0 1.50
NJ2	20.0	259	+P	12 12 23.0	-1.6
			LE	$M_s=5.2$	15.0 4.80
TIA	20.1	272	-P	12 12 24.0	-0.9
			S	12 16 02.0	-1.3
			SMN	$m_B=5.5$	6.0 0.71
			SME		6.0 0.87
			LN	$M_s=5.2$	14.0 4.87
			LE		14.5 2.42
BJI	20.3	283	eP	12 12 24.5	-2.4
			cS	12 16 04.0	-4.0
			LE	$M_s=5.0$	14.0 3.10
TIY	23.4	278	eP	12 12 57.3	-1.6
			S	12 17 10.0	4.0
			sS	12 17 19.0	-1.8
			SS	12 17 58.0	4.2
			LN	$M_s=5.3$	11.5 1.45
			LE		13.5 3.59
HHC	23.7	286	eP	12 13 01.0	-0.7
			S	12 17 08.0	-3.0
			LN	$M_s=5.4$	12.0 0.92
			LE		14.0 6.28

Ms=4.8 / 9,

KSH	14.9	55	P	19 27 29.0	-0.2		
			LE			Ms=5.4	7.0 6.90
WMQ	24.7	53	P	19 29 20.5	1.5		
			eS	19 33 31.0	-6.4		
			LN			Ms=4.8	9.0 0.92
GTA	32.8	65	-P	19 30 32.9	0.0		
			LE			Ms=4.7	10.0 0.54
LZH	36.2	71	eP	19 31 02.0	0.4		
CD2	36.9	80	eP	19 31 08.0	-0.1		
KMI	37.7	89	eP	19 31 14.0	-0.8		
XAN	40.6	73	P	19 31 37.6	-0.8		
GYA	40.6	85	P	19 31 42.6	3.8		
BTO	40.6	63	eP	19 31 39.0	0.1		
			eS	19 37 46.0	-2.2		
			LN			Ms=4.6	12.0 0.20
			LE				10.0 0.20
TIY	42.8	67	+P	19 31 57.1	0.5		
			eS	19 38 19.0	-1.1		
			sS	19 38 32.0	1.2		
			LN			Ms=5.0	13.0 0.79
BJI	45.4	63	eP	19 32 17.0	-0.3		
TIA	46.8	68	eP	19 32 28.2	-0.1		
			LN			Ms=4.8	11.0 0.40
NJ2	49.2	73	eP	19 32 46.5	-0.5		
			LE			Ms=4.8	15.0 0.50
SNY	50.6	60	eP	19 32 57.2	-1.1		
CN2	51.6	57	eP	19 33 09.0	3.0		
			eS	19 40 28.0	2.6		

1987 5 26
 O=22 26 31.7 ± 0.06s
 LAT= 1.75 N ± 0.93km
 LONG=126.75 E ± 1.90km
 DEPTH= 32 km ± 0.06km
 STATIONS USED = 25, STAND DEV= 1.16s

XAN	36.2	334	eP	22 33 34.4	0.6		
DL2	37.3	353	eP	22 33 44.0	1.2		
BJI	39.3	347	eP	22 34 00.5	0.7		
SNY	40.0	356	eP	22 34 05.2	-0.3		
LZH	40.2	331	eP	22 34 07.7	0.1		
MDJ	42.8	3	eP	22 34 28.0	-0.3		
WMQ	54.3	326	eP	22 35 57.5	-0.7		

1987 5 27
 O=04 24 48.1 ± 0.44s
 LAT=23.68 N ± 3.11km
 LONG=121.22 E ± 2.53km
 DEPTH= 15 km ± 0.02km
 STATIONS USED = 8, STAND DEV= 2.43s

M_L=3.2 / 5,

QZH	2.7	298	ePn	04 25 30.2	-1.3		
			SMN			M _L =3.0	0.2 0.080
			SME				0.2 0.070

1987 5 27
 O=19 32 23.3 ± 0.06s
 LAT=19.90 N ± 0.68km
 LONG=122.61 E ± 1.20km
 DEPTH= 27 km ± 0.29km
 STATIONS USED = 16, STAND DEV= 1.11s

QZN	12.1	268	eP	19 35 18.0	1.3		
			eS	19 37 26.0	-5.5		
GYA	16.0	297	eP	19 36 07.0	-2.0		
XAN	18.6	322	P	19 36 40.8	-0.2		
TIY	19.8	336	eP	19 36 54.0	-1.2		
BJI	20.8	346	eP	19 37 07.0	1.6		
LZH	23.1	318	eP	19 37 27.5	-0.5		
BTO	23.3	335	eP	19 37 31.0	1.0		

1987 5 27
 O=20 35 34.0 ± 0.04s
 LAT=12.03 N ± 2.02km
 LONG=142.74 E ± 0.83km
 DEPTH= 34 km ± 0.75km
 STATIONS USED = 16, STAND DEV= 0.81s

GYA	36.8	298	P	20 42 42.8	1.6		
TIY	37.3	319	eP	20 42 45.0	0.2		
XAN	37.8	311	P	20 42 49.3	0.0		
GTA	46.7	314	+P	20 44 02.3	0.3		
WMQ	56.7	315	P	20 45 17.3	-0.1		

1987 5 27
 O=21 03 32.9 ± 0.13s
 LAT=34.84 N ± 2.28km
 LONG=136.17 E ± 2.77km
 DEPTH= 39 km ± 1.19km
 STATIONS USED = 60, STAND DEV= 2.57s

Ms=4.3 / 16,

MDJ	11.0	335	eP	21 06 10.7	-0.2		
SNY	12.1	309	eP	21 06 26.2	0.5		
			eS	21 08 36.2	-3.8		
			LN			Ms=4.1	16.0 0.99
CN2	12.2	320	eP	21 06 26.0	-1.1		
DL2	12.3	293	eP	21 06 30.0	1.1		
SSE	13.1	258	eP	21 06 40.5	1.0		
			LN			Ms=4.5	10.0 0.66
			LE				10.0 1.19
TIA	15.6	281	eP	21 07 12.4	0.9		
			LE			Ms=4.3	12.0 0.85

BJI	16.7	294	eP	21 07 25.0	-0.8			
			eS	21 10 34.0	5.1			
WHN	18.9	263	+P	21 07 56.5	4.1			
			S	21 11 24.0	6.9			
			LN	Ms=4.3	12.0	0.63		
TIY	19.3	285	eP	21 07 55.4	-2.7			
			LN	Ms=4.5	12.5	0.63		
			LE		12.5	0.54		
BTO	21.4	293	eP	21 08 16.5	-3.6			
			LN	Ms=4.2	13.0	0.30		
			LE		13.0	0.30		
XAN	22.5	276	P	21 08 30.0	-0.3			
			eS	21 12 27.0	-2.7			
			LE	Ms=4.6	12.0	0.77		
LZH	26.3	282	-iP	21 09 04.5	-2.8			
			PMZ			2.0	0.12	
			LE	Ms=4.7	16.0	1.03		
GYA	26.7	260	P	21 09 15.0	4.5			
CD2	27.4	271	eP	21 09 23.2	5.6			
QZN	28.1	243	eP	21 09 25.0	1.0			
			eS	21 14 03.5	-1.5			
GTA	29.2	290	P	21 09 30.0	-3.7			
			LE	Ms=4.5	12.0	0.47		
KMI	30.4	261	eP	21 09 41.5	-2.9			
			LE	Ms=4.5	8.0	0.30		
WMQ	38.1	299	eP	21 10 48.5	-1.7			
KSH	47.4	294	P	21 12 05.9	-0.3			

1987 5 29

O=02 35 45.9 ± 0.14s
 LAT=25.73 N ± 1.62km
 LONG=122.34 E ± 1.57km
 DEPTH= 15 km ± 2.01km
 STATIONS USED = 7, STAND DEV = 3.22s

Ms=4.0 / 5,

QZH	3.5	258	ePn	02 36 39.0	-0.9			
			eSn	02 37 22.0	-0.8			
			LN	Ms=3.9	10.0	3.18		
SSE	5.4	350	ePn	02 37 05.0	-2.0			
			LN	Ms=3.8	14.0	1.78		
XAN	14.3	309	eP	02 39 14.4	4.4			
			LN	Ms=4.3	10.0	0.64		
			LE		10.0	0.43		

1987 5 29

O=03 26 05.8 ± 0.09s
 LAT= 5.09 S ± 1.56km
 LONG=102.57 E ± 1.81km
 DEPTH= 47 km ± 0.45km
 STATIONS USED = 66, STAND DEV = 1.13s

						Ms=4.8 / 4,		
QZN	25.0	16	-P	03 31 29.2	2.0			
			eS	03 35 49.5	4.3			
			LN	Ms=4.6	16.0	0.90		
KMI	30.0	0	+P	03 32 14.0	0.9			
GYA	31.6	7	+P	03 32 27.4	0.4			
			pP	03 32 38.8	0.5			
CD2	35.8	2	P	03 33 02.3	-0.9			
WHN	37.2	17	P	03 33 16.0	1.4			
XAN	39.4	8	+iP	03 33 32.4	-0.6			
			pP	03 33 45.0	0.3			
			eS	03 39 35.0	4.1			
NJ2	40.1	22	eP	03 33 37.0	-1.6			
SSE	40.1	25	eP	03 33 40.6	1.4			
			PMZ			1.0	0.010	
			epP	03 33 52.5	1.5			
			eS	03 39 40.0	-2.1			
LZH	41.0	2	+iP	03 33 46.5	0.1			
			PMZ			1.5	0.050	
			pP	03 33 59.0	1.0			
TIA	43.3	17	eP	03 34 04.0	-1.2			
			PcP	03 35 54.1	0.9			
GTA	44.3	357	+iP	03 34 14.3	0.4			
			pP	03 34 26.8	1.2			
			LN	Ms=4.8	16.0	0.57		
BTO	46.0	8	eP	03 34 26.0	-0.8			
			pP	03 34 38.0	-0.6			
			cPP	03 36 16.0	1.8			
			eS	03 41 08.0	0.4			
			LN	Ms=5.1	17.0	1.00		
			LE		15.0	0.40		
BJI	46.6	14	eP	03 34 31.0	-0.7			
SNY	50.5	20	eP	03 35 00.7	-0.9			
			pP	03 35 12.8	-0.7			
WMQ	50.5	346	P	03 35 02.5	0.6			
			PMZ			0.8	0.15	
			pP	03 35 14.8	1.1			
			S	03 42 13.5	3.8			
KSH	50.7	333	P	03 35 04.0	0.8			
			pP	03 35 16.0	1.0			
			eS	03 42 17.5	4.1			
CN2	52.9	21	-P	03 35 18.0	-1.6			
			pP	03 35 30.0	-1.6			
MDJ	55.1	23	eP	03 35 35.0	-1.1			

1987 5 29

O=06 27 49.8 ± 0.39s
 LAT=34.08 N ± 3.33km
 LONG= 48.21 E ± 2.94km
 DEPTH= 39 km ± 1.85km

STATIONS USED = 52, STAND DEV = 2.06s

Ms = 5.0 / 9,

KSH	22.8	68	P	06 32 54.0	3.0
WMQ	32.0	60	P	06 34 15.8	1.0
GTA	41.2	67	P	06 35 34.0	0.7
			LN	Ms = 4.9	20.0 0.95
LZH	45.0	71	-P	06 36 00.5	-3.8
			PMZ		2.5 0.080
			S	06 42 40.0	1.3
			LN	Ms = 5.0	32.0 1.68
CD2	46.5	78	P	06 36 15.8	0.3
KMI	47.8	86	+P	06 36 25.5	-0.4
BTO	48.7	63	eP	06 36 32.0	-0.9
			eS	06 43 30.0	-1.7
			LN	Ms = 4.9	15.0 0.50
			LE		15.0 0.40
XAN	49.6	72	P	06 36 39.3	-0.6
			LN	Ms = 5.1	16.0 0.96
			LE		14.0 0.41
HHC	49.8	63	eP	06 36 40.0	-1.3
			eS	06 43 44.0	-2.9
			LN	Ms = 5.1	11.0 0.62
			LE		12.0 0.34
GYA	50.5	82	P	06 36 45.8	-0.8
TIY	51.2	66	eP	06 36 52.7	0.3
			LN	Ms = 5.0	12.0 0.42
			LE		12.0 0.41
BJI	53.4	62	eP	06 37 08.0	-0.3
			LN	Ms = 4.9	22.0 0.67
WHN	55.1	74	eP	06 37 21.0	-0.1
QZN	56.4	89	eP	06 37 29.8	-0.3
			eS	06 45 18.5	2.2
NJ2	58.1	71	eP	06 37 42.0	-0.4
SSE	60.3	71	eP	06 37 56.5	-1.2
			eS	06 46 06.0	-1.8

1987 5 29

O = 09 46 48.0 ± 0.17s

LAT = 3.37 N ± 1.98km

LONG = 128.53 E ± 2.44km

DEPTH = 58 km ± 1.52km

STATIONS USED = 36, STAND DEV = 2.24s

QZH	23.5	337	eP	09 51 54.5	1.0
QZN	24.0	312	eP	09 51 59.8	1.3
			eS	09 56 12.0	4.0
WHN	30.2	335	eP	09 52 56.0	0.8
XAN	35.6	331	P	09 53 40.5	-1.6
			eS	09 59 14.0	1.4
CD2	36.0	322	eP	09 53 46.0	0.2
TIY	37.2	339	eP	09 53 55.5	-0.6

			S	09 59 35.0	-2.1
BJI	38.2	345	eP	09 54 02.5	-1.4
LZH	39.7	328	eP	09 54 18.0	0.9
			pP	09 54 35.5	4.6
			sP	09 54 41.0	3.7
MDJ	41.1	1	eP	09 54 32.2	4.1
GTA	44.3	328	eP	09 54 54.0	-0.8
WMQ	54.0	324	eP	09 56 08.4	-1.0

1987 5 29

O = 11 02 12.7 ± 0.09s

LAT = 40.23 N ± 1.96km

LONG = 63.19 E ± 1.13km

DEPTH = 33 km ± 0.33km

STATIONS USED = 30, STAND DEV = 1.61s

Ms = 4.8 / 2,

KSH	9.9	90	eP	11 04 33.0	-2.7
			LE	Ms = 4.9	4.0 2.50
WMQ	18.5	71	P	11 06 29.8	0.7
			eS	11 09 55.0	3.2
GTA	28.0	80	eP	11 08 03.0	-0.4
XAN	36.7	85	eP	11 09 18.5	-0.1
TIY	38.0	77	eP	11 09 30.0	0.3
GYA	38.5	97	P	11 09 34.0	0.3

1987 5 29

O = 14 20 50.1 ± 0.20s

LAT = 12.05 N ± 2.91km

LONG = 143.98 E ± 3.43km

DEPTH = 26 km ± 0.05km

STATIONS USED = 33, STAND DEV = 3.06s

Ms = 4.7 / 3,

TIY	38.0	318	eP	14 28 05.6	-3.0
			LN	Ms = 4.4	13.0 0.16
			LE		12.0 0.20
XAN	38.7	310	eP	14 28 18.7	4.7
CD2	41.6	303	eP	14 28 36.0	-1.9
GTA	47.6	313	eP	14 29 23.6	-2.4
			LN	Ms = 4.7	27.0 0.72
WMQ	57.6	314	eP	14 30 39.6	-1.0

1987 5 29

O = 17 37 36.7 ± 0.10s

LAT = 22.60 N ± 1.41km

LONG = 143.41 E ± 2.00km

DEPTH = 120 km ± 0.24km

STATIONS USED = 88, STAND DEV = 1.24s

m_B = 5.3 / 7

SSE	21.5	298	+P	17 42 17.0	-0.6
			PMZ		1.0 0.20

		LN	Ms=4.7	25.0	0.44
LZH	63.6	64	eP	18 51 00.0	0.7
BTO	65.6	57	eP	18 51 15.0	2.3
CD2	66.1	69	eP	18 51 15.2	-0.1
HHC	66.5	56	P	18 51 18.2	-0.2
XAN	68.2	63	P	18 51 22.8	-5.9
KMI	68.3	74	eP	18 51 29.5	-0.2
TIY	68.7	58	eP	18 51 32.0	0.0
		S		19 00 31.5	2.9
		LN	Ms=4.8	12.0	0.21
BJI	70.0	55	eP	18 51 39.0	-0.5
GYA	70.6	71	P	18 51 43.0	-0.4
CN2	73.5	47	-P	18 52 00.0	-0.9
SNY	73.6	50	eP	18 52 00.7	-0.5
MDJ	75.4	45	eP	18 52 12.5	0.8
NJ2	76.2	60	+P	18 52 16.2	-0.3
QZN	77.2	76	+P	18 52 22.5	0.8
		eS		19 02 05.0	-1.0
1987 5 29					
O=20 52 06.3			± 0.14s		
LAT=54.29 N			± 2.31km		
LONG=160.43 E			± 2.03km		
DEPTH= 33 km			± 0.09km		
STATIONS USED = 31,			STAND DEV = 1.10s		
MDJ	22.1	257	eP	20 57 01.0	0.5
CN2	25.0	260	eP	20 57 28.0	-0.5
LZH	42.6	269	eP	21 00 00.0	-1.3
GTA	42.7	275	P	21 00 02.7	0.4
WMQ	46.8	288	P	21 00 35.0	0.1
GYA	48.0	257	P	21 00 45.0	0.7
QZN	52.1	248	eP	21 01 17.0	1.4
1987 5 29					
O=22 21 26.1			± 0.08s		
LAT=37.03 N			± 2.32km		
LONG=141.29 E			± 1.63km		
DEPTH= 58 km			± 1.57km		
STATIONS USED = 41,			STAND DEV = 1.82s		
MDJ	11.7	314	+iP	22 24 15.7	3.5
CN2	13.8	304	eP	22 24 37.0	-4.0
NJ2	19.1	262	eP	22 25 44.8	-2.5
BJI	19.9	286	eP	22 25 54.5	-0.8
TIY	22.9	280	eP	22 26 24.0	-2.2
		eS		22 30 28.0	0.7
XAN	26.4	273	eP	22 27 00.4	0.6
LZH	30.0	280	eP	22 27 32.0	0.2
GYA	31.1	260	P	22 27 40.8	-1.1
GTA	32.5	287	eP	22 27 52.2	-1.5
WMQ	40.8	297	eP	22 29 04.5	1.0

1987 5 29					
O=23 33 47.3			± 0.05s		
LAT= 3.73 S			± 1.10km		
LONG= 86.44 E			± 1.03km		
DEPTH= 8 km			± 0.23km		
STATIONS USED = 12,			STAND DEV = 1.09s		
XAN	43.1	28	eP	23 41 48.8	-1.8
WMQ	47.3	1	P	23 42 24.6	0.4
1987 5 30					
O=02 59 36.8			± 0.36s		
LAT=15.27 S			± 5.05km		
LONG=173.25 W			± 5.00km		
DEPTH= 36 km			± 0.87km		
STATIONS USED = 45,			STAND DEV = 2.57s		
Ms=5.5 / 9,			m _B =5.6 / 7		
QZH	77.5	300	eP	03 11 34.0	2.7
			sP	03 11 46.0	0.3
			eS	03 21 22.0	3.0
			SMN	m _B =5.7	10.0 0.65
SSE	78.0	307	eP	03 11 32.0	-2.0
			eS	03 21 22.0	-2.2
			LN	Ms=5.6	32.0 1.81
			LE		32.0 2.49
MDJ	79.0	322	eP	03 11 38.0	-1.6
			PP	03 14 43.0	3.5
			eS	03 21 31.0	-4.0
			SME	m _B =5.8	10.0 0.70
			ScS	03 21 55.0	0.6
NJ2	80.2	307	eP	03 11 46.0	0.0
			eS	03 21 51.0	3.5
CN2	81.1	320	+P	03 11 48.0	-2.7
			PMZ	m _B =5.6	6.0 0.40
SNY	81.3	318	eP	03 11 51.5	-0.2
			pP	03 12 04.0	2.2
			PP	03 15 02.0	3.3
			S	03 22 00.0	2.9
			LN	Ms=5.2	32.0 0.85
			LE		32.0 0.75
QZN	83.0	292	eP	03 11 57.0	-3.6
			eS	03 22 12.0	-4.2
TIA	83.2	310	eP	03 12 03.3	1.5
			esP	03 12 19.0	2.9
			eS	03 22 22.4	3.7
			SMN	m _B =5.8	11.0 0.75
			eSS	03 27 44.6	-0.8
			LE	Ms=5.5	23.0 1.47
BJI	85.5	313	eP	03 12 12.5	-0.6
			eS	03 22 40.0	-0.9

			SMN	$m_B = 5.6$	10.0	0.56
			LN	$M_s = 5.3$	28.0	0.76
			LE		28.0	0.66
TIY	87.3	310	eP	03 12 22.0	0.1	
			pP	03 12 35.5	3.5	
			SKS	03 22 45.5	2.7	
			LE	$M_s = 5.4$	21.0	1.12
GYA	88.1	298	P	03 12 30.4	4.4	
XAN	88.7	306	P	03 12 32.8	4.2	
			eSKS	03 22 54.0	2.5	
			eS	03 23 15.0	3.7	
HHC	89.0	313	eP	03 12 30.0	-0.5	
BTO	90.1	312	eP	03 12 35.8	0.6	
			ePP	03 16 11.0	1.2	
			SKS	03 23 05.0	5.0	
			S	03 23 29.0	6.8	
LZH	93.3	306	eP	03 12 50.0	-0.1	

			O = 15 21 41.2	$\pm 0.14s$
			LAT = 22.64 N	$\pm 2.10km$
			LONG = 94.48 E	$\pm 1.37km$
			DEPTH = 109 km	$\pm 0.45km$
			STATIONS USED = 44, STAND DEV = 2.25s	
			KMI 7.9 70 +P	15 23 38.5 2.6
			CD2 11.7 43 eP	15 24 26.8 1.1
			GYA 11.7 69 P	15 24 26.0 -0.3
			QZN 14.8 101 eP	15 25 07.8 1.5
			XAN 17.0 45 P	15 25 30.5 -3.6
			GTA 17.3 14 eP	15 25 34.8 -3.0
			WHN 19.4 62 eP	15 26 02.0 0.6
			TIY 21.5 42 eP	15 26 21.5 -1.7
			WMQ 21.8 347 P	15 26 26.6 0.3
				sP 15 27 03.5 1.4
				S 15 30 22.0 6.8
			NJ2 23.5 61 eP	15 26 42.0 -0.6
			TIA 23.8 50 eP	15 26 45.1 -0.4

1987 5 30

O = 03 14 22.1 $\pm 0.11s$
 LAT = 40.62 N $\pm 1.00km$
 LONG = 122.69 E $\pm 1.05km$
 DEPTH = 8 km $\pm 0.33km$
 STATIONS USED = 13, STAND DEV = 3.06s

$M_L = 3.6 / 11,$

SNY	1.4	29	+iPg	03 14 44.8	-1.7	
			Sg	03 15 02.0	-3.4	
			SMN	$M_L = 3.5$	0.3	0.77
			SME		0.3	0.55
DL2	1.9	206	Pg	03 14 56.4	0.7	
			Sg	03 15 22.0	0.3	
			SMN	$M_L = 3.8$	0.5	0.82
			SME		0.5	0.72
MDJ	6.5	50	Pg	03 16 21.0	4.5	
			Sg	03 17 45.0	0.2	

1987 5 30

O = 06 34 05.0 $\pm 0.13s$
 LAT = 40.61 N $\pm 0.94km$
 LONG = 93.52 E $\pm 1.53km$
 DEPTH = 25 km $\pm 0.02km$
 STATIONS USED = 5, STAND DEV = 3.92s

$M_L = 3.0 / 3,$

GTA	5.0	102	Pn	06 35 19.7	0.9	
			Pg	06 35 30.5	-2.4	
			Sn	06 36 23.8	6.5	
			SMN	$M_L = 2.6$	0.7	0.0070
			SME		0.6	0.0070

1987 5 30

1987 5 30

O = 16 13 29.3 $\pm 0.06s$
 LAT = 40.47 N $\pm 0.68km$
 LONG = 123.15 E $\pm 0.57km$
 DEPTH = 5 km $\pm 0.10km$
 STATIONS USED = 6, STAND DEV = 2.53s

$M_L = 2.8 / 6,$

SNY	1.4	13	-iPn	16 13 54.0	-1.7	
			Pg	16 13 54.4	0.5	
			Sn	16 14 10.6	-5.8	
			Sg	16 14 12.0	-1.1	
			SMN	$M_L = 3.1$	0.6	0.26
			SME		0.8	0.32
DL2	2.0	218	ePg	16 14 04.1	0.3	
			Sg	16 14 30.0	-0.4	
			SMN	$M_L = 2.8$	0.5	0.060
			SME		0.5	0.12
CN2	3.7	26	ePg	16 14 37.4	2.0	
			Sg	16 15 23.4	-3.1	
			SMN	$M_L = 3.1$	0.6	0.050
			SME		0.6	0.050

1987 5 30

O = 16 24 37.6 $\pm 0.05s$
 LAT = 40.42 N $\pm 0.46km$
 LONG = 123.19 E $\pm 0.40km$
 DEPTH = 8 km $\pm 0.14km$
 STATIONS USED = 6, STAND DEV = 1.95s

$M_L = 2.9 / 6,$

SNY	1.4	12	+iPg	16 25 02.0	-1.0	
			Sn	16 25 18.6	-6.6	

SNY	19.5	271	+iP	17 23 25.2	-0.5			LZH	35.9	272	+iP	17 25 58.5	1.1		
			PMZ		$m_B = 5.6$	4.0	1.15				PMZ			1.0	0.15
			pP	17 23 38.0	2.5						PP	17 27 18.0	-0.5		
			S	17 27 03.5	6.0						PcP	17 28 27.5	4.3		
			LN		$M_s = 4.9$	19.0	2.85				S	17 31 35.0	4.8		
			LE			19.0	1.76				sS	17 31 48.0	-2.5		
DL2	22.0	265	P	17 23 51.0	0.0						LN		$M_s = 5.3$	11.0	1.04
			LN		$M_s = 4.8$	15.0	1.59				LE			17.0	2.44
BJI	25.4	271	eP	17 24 24.5	0.1			GZH	37.0	246	eP	17 26 07.0	0.7		
			epP	17 24 37.0	1.7						LN		$M_s = 5.4$	18.0	2.57
			SME		$m_B = 5.3$	11.0	0.96				LE			16.0	1.99
			LN		$M_s = 4.9$	18.0	1.17	CD2	38.6	265	iP	17 26 20.4	0.1		
			LE			15.0	1.68				S	17 32 16.0	3.7		
TIA	26.4	263	eP	17 24 32.9	-0.6						LN		$M_s = 5.2$	10.0	1.22
			PMZ		$m_B = 5.7$	5.0	0.91	GYA	39.2	257	+P	17 26 25.4	-0.1		
			epP	17 24 45.0	0.6						pP	17 26 39.0	2.2		
			eS	17 29 04.2	2.8						PP	17 28 00.0	0.4		
			SMN		$m_B = 5.1$	9.0	0.27				S	17 32 23.0	1.4		
			SME			9.0	0.39				LE		$M_s = 5.3$	18.0	2.70
			eSS	17 30 18.5	6.9			QZN	42.1	246	eP	17 26 51.5	2.2		
			LN		$M_s = 4.9$	14.0	0.74				eS	17 33 06.0	0.4		
			LE			15.0	1.53				LN		$M_s = 5.3$	18.0	1.50
SSE	26.4	249	+P	17 24 34.0	0.0						LE			16.0	1.40
			PMZ			2.0	0.22	KMI	42.8	259	+P	17 26 55.5	0.4		
			pP	17 24 48.5	3.5						pP	17 27 09.0	2.6		
			sS	17 29 24.0	2.6						eS	17 33 20.0	4.0		
			SS	17 30 13.0	-0.1						LN		$M_s = 5.4$	15.0	2.30
			LN		$M_s = 5.3$	20.0	5.08	WMQ	43.7	292	P	17 27 03.1	0.9		
NJ2	27.4	253	+P	17 24 42.0	-1.0						pP	17 27 17.5	3.9		
			LE		$M_s = 5.1$	16.0	2.90				S	17 33 32.0	4.5		
TIY	29.0	269	+P	17 24 58.0	0.6						LN		$M_s = 5.3$	13.0	1.52
			LN		$M_s = 4.9$	13.0	0.63	KSH	53.5	292	P	17 28 19.0	1.0		
			LE			19.0	1.66				pP	17 28 34.0	4.4		
BTO	29.6	276	+P	17 25 02.0	-0.4						PP	17 30 21.0	2.0		
			pP	17 25 15.0	1.5						LN		$M_s = 5.6$	16.0	2.50
			ePP	17 26 02.0	3.5										
			S	17 29 54.0	2.1										
			LN		$M_s = 5.3$	13.0	1.50								
			LE			17.0	3.00								
WHN	31.4	255	P	17 25 19.5	0.9										
			pP	17 25 34.4	4.6										
			S	17 30 18.0	-2.9										
			LN		$M_s = 5.3$	18.0	3.90								
QZH	32.3	243	+P	17 25 27.0	0.8										
			pP	17 25 41.0	3.6										
			LN		$M_s = 5.3$	20.0	2.58	GTA	1.4	292	+iPg	17 24 06.7	0.6		
			LE			20.0	3.14				Sg	17 24 24.6	0.0		
XAN	33.3	266	P	17 25 34.3	-0.7						SMN		$M_L = 3.0$	1.0	0.22
			eS	17 30 52.0	1.0						SME			1.0	0.23
			LE		$M_s = 4.9$	15.0	1.22								

1987 5 30
 O = 17 23 41.8 ± 0.03s
 LAT = 38.92 N ± 0.40km
 LONG = 101.45 E ± 0.30km
 DEPTH = 5 km ± 0.07km
 STATIONS USED = 5, STAND DEV = 1.33s
 $M_L = 2.8 / 5,$
 GTA 1.4 292 +iPg 17 24 06.7 0.6
 Sg 17 24 24.6 0.0
 SMN $M_L = 3.0$ 1.0 0.22
 SME 1.0 0.23
 1987 5 30
 O = 19 25 13.2 ± 0.18s

May, 1987



LAT=33.95 N ± 1.83km
 LONG=141.25 E ± 2.90km
 DEPTH=113 km
 STATIONS USED = 15, STAND DEV= 2.06s
 XAN 26.7 279 eP 19 30 44.0 -0.6
 GYA 30.7 265 -P 19 31 23.2 3.1
 GTA 33.5 292 eP 19 31 44.5 0.4
 KMI 34.5 266 eP 19 31 56.0 3.2

1987 5 30
 O=19 37 30.4 ± 0.12s
 LAT= 6.91 S ± 1.12km
 LONG=156.09 E ± 1.34km
 DEPTH= 79 km ± 0.60km
 STATIONS USED = 29, STAND DEV= 1.19s
 QZN 52.3 300 eP 19 46 37.6 0.7
 TIA 56.4 322 eP 19 47 06.0 -0.2
 GYA 58.3 307 P 19 47 19.6 -0.1
 BJI 59.5 325 eP 19 47 27.0 -0.9
 XAN 60.4 316 P 19 47 33.5 -0.9

1987 5 30
 O=23 24 29.3 ± 0.11s
 LAT=21.94 S ± 4.39km
 LONG=179.41 W ± 4.13km
 DEPTH=505 km ± 1.97km
 STATIONS USED = 22, STAND DEV= 1.47s
 QZH 76.1 304 P 23 35 27.6 0.9
 MDJ 81.0 326 eP 23 35 53.0 0.6
 CN2 82.6 323 eP 23 36 01.0 0.0
 TIA 83.3 313 eP 23 36 05.4 1.2
 BJI 86.0 316 eP 23 36 17.5 0.1

1987 5 31
 O=01 00 52.8 ± 0.15s
 LAT= 7.92 S ± 2.43km
 LONG=122.40 E ± 3.19km
 DEPTH=224 km ± 0.12km
 STATIONS USED = 76, STAND DEV= 1.60s
 QZN 29.5 335 P 01 06 38.5 -0.1
 GZH 32.1 344 +P 01 07 01.0 0.1
 QZH 32.9 354 eP 01 07 08.0 0.1
 eS 01 12 07.0 -1.3
 GYA 37.4 336 +P 01 07 47.0 0.4
 S 01 13 18.0 0.8
 KMI 38.0 330 +P 01 07 53.0 1.5
 SSE 38.8 358 P 01 07 58.0 0.1
 PMZ 1.0 0.10
 sP 01 09 05.0 -4.6
 eS 01 13 44.0 5.2

NJ2 39.9 355 +iP 01 08 08.2 1.5
 PMZ 2.0 0.80
 pP 01 08 52.0 -1.4
 PcP 01 10 09.5 1.7
 eS 01 13 51.0 -3.9
 CD2 42.5 336 +iP 01 08 23.3 -5.1
 XAN 43.6 344 +iP 01 08 36.6 -0.7
 PMZ 0.8 0.11
 PcP 01 10 21.0 0.7
 ScP 01 13 50.7 2.0
 S 01 14 46.0 -2.7
 sS 01 16 12.0 -0.7
 TIA 44.2 354 eP 01 08 41.0 -0.5
 LN 13.0 0.32
 TIY 46.3 349 +iP 01 08 58.0 -0.6
 PMZ 0.8 0.050
 DL2 46.6 359 P 01 09 00.0 -0.4
 LZH 47.1 339 +iP 01 09 05.5 0.7
 PMZ 1.0 0.10
 BJI 48.1 354 +P 01 09 11.0 -0.9
 PcP 01 10 37.0 1.1
 ScP 01 14 09.5 2.4
 SNY 49.5 1 +P 01 09 21.4 -1.5
 HHC 49.5 349 +iP 01 09 23.0 -0.3
 BTO 49.6 348 P 01 09 22.5 -1.3
 GTA 51.5 338 +iP 01 09 38.2 -0.1
 PMZ 1.0 0.040
 PcP 01 10 50.0 1.4
 ScP 01 14 24.2 2.4
 eScS 01 19 04.3 3.0
 CN2 51.5 3 +P 01 09 36.0 -2.2
 PcP 01 10 49.0 0.3
 ScP 01 14 23.0 1.1
 WMQ 60.3 332 +iP 01 10 40.5 -0.1
 PMZ 1.5 0.10
 ScP 01 15 02.4 2.1
 S 01 18 37.6 2.6
 SMN 1.8 0.070
 ScS 01 20 06.5 2.1
 KSH 63.8 321 P 01 11 04.0 0.5
 PP 01 13 21.0 -6.4
 S 01 19 20.0 2.0
 SMN 3.0 0.60

1987 5 31
 O=18 06 29.7 ± 0.16s
 LAT=15.39 N ± 2.35km
 LONG=119.40 E ± 2.12km
 DEPTH= 35 km ± 0.52km
 STATIONS USED = 16, STAND DEV= 2.64s

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KSH 83.4 311 P 18 58 05.0 2.6
 eS 19 08 25.0 2.7

1987 5 31
 O=20 28 18.6 ± 0.05s
 LAT=42.55 N ± 0.47km
 LONG= 96.43 E ± 0.43km
 DEPTH= 16 km
 STATIONS USED = 5, STAND DEV= 3.75s
 M_L=3.3/ 3,

GTA 4.1 140 cPn 20 29 21.7 1.1
 Pg 20 29 30.8 0.7
 Sg 20 30 23.0 -2.5
 WMQ 6.5 284 cPg 20 30 12.5 -1.1
 Sg 20 31 41.3 -1.1
 SMN M_L=3.1 0.6 0.010

1987 5 31
 O=21 18 12.0 ± 0.29s
 LAT= 1.81 N ± 1.17km
 LONG=126.70 E ± 2.35km
 DEPTH= 83 km ± 3.20km
 STATIONS USED = 13, STAND DEV= 2.79s

QZN 23.8 317 cP 21 23 19.6 1.5
 BJI 39.2 347 cP 21 25 34.0 -0.2
 GTA 44.7 330 cP 21 26 19.4 0.1

1987 5 31
 O=22 35 16.7 ± 0.23s
 LAT=47.14 N ± 4.57km
 LONG=146.23 E ± 2.59km
 DEPTH=311 km
 STATIONS USED = 31, STAND DEV= 2.56s

CN2 14.9 265 -P 22 38 34.0 -1.4
 SNY 17.0 260 -iP 22 38 57.4 0.0
 BJI 22.8 263 cP 22 39 56.0 1.4
 HHC 25.6 269 -P 22 40 20.2 0.0
 TIY 26.5 262 cP 22 40 23.8 -4.7
 XAN 30.9 259 P 22 41 05.8 -1.7
 GTA 34.2 274 -iP 22 41 35.2 -1.0

1987 5 31
 O=23 38 38.4 ± 0.09s
 LAT=36.19 N ± 1.32km
 LONG=102.73 E ± 0.94km
 DEPTH= 16 km
 STATIONS USED = 37, STAND DEV= 2.14s
 M_s=4.0/ 6, M_L=4.0/ 5,

LZH 0.9 96 Pg 23 38 55.5 0.7
 Sg 23 39 09.0 1.9

SME M_L=3.8
 GTA 4.0 325 +iPn 23 39 41.1 1.9
 Pg 23 39 51.0 2.6
 Sn 23 40 31.5 4.3
 Sg 23 40 43.5 1.0
 SMN 2.0 0.31
 SME 2.0 0.34
 LN M_s=3.7 8.0 1.16
 CD2 5.3 170 cPn 23 40 01.8 3.7
 Sn 23 41 03.0 1.7
 LE M_s=4.1 8.0 1.79
 BTO 7.2 50 cPn 23 40 26.0 2.1
 LN M_s=3.8 10.0 0.50
 LE 11.0 0.60
 TIY 7.9 76 cPn 23 40 33.6 0.1
 Pg 23 41 04.8 6.6
 Sg 23 42 43.0 -3.4
 SMN M_L=4.6 0.9 0.18
 SME 1.0 0.18
 LE M_s=4.3 5.5 1.12
 HHC 8.3 53 cP 23 40 43.2 1.2
 GYA 10.3 160 P 23 41 09.4 0.7
 WHN 11.2 117 cP 23 41 21.0 -0.6
 LN M_s=4.1 8.0 0.52
 TIA 11.6 86 cP 23 41 25.8 -1.4
 LN M_s=4.0 8.0 0.35
 LE 8.0 0.26
 WMQ 13.8 308 cP 23 41 57.5 1.3
 CN2 19.0 59 cP 23 43 04.0 2.2