

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)	Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)								
<p>1987 8 1 O=02 43 15.9 \pm 0.07s LAT=51.75 N \pm 4.01km LONG=173.11 W \pm 0.98km DEPTH= 32 km \pm 0.38km STATIONS USED = 33, STAND DEV = 1.27s</p>								LZH	38.9	68	cP	13 50 48.0	2.1										
											PMZ				2.5	0.11							
								TIY	45.6	65	P	13 51 43.2	2.8										
								WHN	48.5	74	cP	13 52 06.0	2.9										
											ScP	13 57 17.0	-4.4										
								TIA	49.6	66	cP	13 52 13.2	2.0										
<p>1987 8 1 O=03 21 02.8 \pm 0.09s LAT=50.92 N \pm 1.85km LONG=178.60 W \pm 0.89km DEPTH= 43 km \pm 0.91km STATIONS USED = 22, STAND DEV = 1.40s</p>																							
TIA	50.6	281	cP	02 52 14.0	-0.3																		
SSE	51.5	273	cP	02 52 20.5	-0.8																		
			pP	02 52 34.0	3.4																		
BTO	52.0	290	cP	02 52 25.0	-0.2																		
TIY	52.5	286	cP	02 52 29.8	1.4																		
XAN	57.0	285	+P	02 53 00.8	-1.0																		
GTA	58.7	295	P	02 53 12.4	-1.0																		
WMQ	62.1	306	cP	02 53 34.6	-1.8																		
CD2	62.3	286	cP	02 53 38.0	-0.2																		
GYA	63.8	280	P	02 53 48.0	0.2																		
KMI	67.2	282	cP	02 54 09.5	-0.1																		
<p>1987 8 1 O=03 21 53.9 \pm 0.04s LAT=51.37 N \pm 1.23km LONG=178.70 W \pm 0.72km DEPTH= 33 km \pm 0.01km STATIONS USED = 13, STAND DEV = 0.88s</p>																							
TIA	47.2	277	cP	03 30 26.3	0.2																		
XAN	53.7	281	cP	03 31 15.0	-0.6																		
WMQ	59.4	303	cP	03 31 57.5	1.3																		
GYA	60.4	276	P	03 32 02.8	-0.2																		
<p>1987 8 1 O=13 43 18.0 \pm 0.14s LAT=29.90 N \pm 3.14km LONG= 57.66 E \pm 1.94km DEPTH= 14 km \pm 0.16km STATIONS USED = 27, STAND DEV = 2.31s</p>																							
WMQ	27.6	52	P	13 49 09.5	2.2																		
GTA	35.7	63	P	13 50 19.1	0.7																		
<p>1987 8 1 O=13 55 16.0 \pm 0.07s LAT=29.86 N \pm 1.89km LONG= 57.66 E \pm 1.13km DEPTH= 14 km \pm 0.33km STATIONS USED = 39, STAND DEV = 1.26s</p>																							
WMQ	27.6	51	P	14 01 08.0	2.5																		
			cS	14 05 40.0	-5.3																		
GTA	35.7	63	P	14 02 16.5	-0.1																		
LZH	39.0	68	cP	14 02 44.5	0.5																		
											PMZ				2.0	0.070							
KMI	40.1	86	cP	14 02 53.5	0.2																		
GYA	43.1	82	P	14 03 20.0	2.1																		
XAN	43.3	71	cP	14 03 19.2	-0.7																		
TIY	45.6	65	cP	14 03 38.6	0.1																		
BJI	48.3	61	cP	14 04 00.0	1.0																		
WHN	48.5	74	P	14 04 02.5	1.3																		
TIA	49.6	66	cP	14 04 08.5	-0.8																		
NJ2	51.9	71	cP	14 04 28.0	1.2																		
CN2	54.6	55	cP	14 04 44.6	-2.2																		
<p>1987 8 1 O=19 44 01.1 \pm 0.10s LAT=29.49 N \pm 1.39km LONG=142.04 E \pm 2.30km DEPTH= 33 km \pm 0.40km STATIONS USED = 27, STAND DEV = 1.52s</p>																							
MDJ	18.0	330	cP	19 48 10.2	-0.9																		
SSE	18.1	280	cP	19 48 12.0	0.4																		
CN2	19.5	322	cP	19 48 29.6	1.5																		
BJI	23.6	303	cP	19 49 11.0	0.6																		
XAN	28.4	288	cP	19 49 55.0	-0.5																		
WMQ	45.1	304	P	19 52 17.6	1.1																		
<p>1987 8 1 O=23 24 42.5 \pm 0.14s LAT=32.90 N \pm 0.99km LONG=120.38 E \pm 1.45km DEPTH= 19 km \pm 0.79km STATIONS USED = 10, STAND DEV = 3.24s</p>																							

NJ2	1.5	237	$M_L = 3.2 / 8,$			-4.2	-3.8	0.3	0.50	BJI	27.9	96	+P	01 04 00.5	0.6	10.0	0.43												
			-Pn	23 25 05.3															TIA	30.8	102	+P	01 04 26.2	0.7					
			Pg	23 25 06.1																		PcP	01 07 22.6	0.0					
			SMN	$M_L = 3.4$																KMI	30.9	134	+P	01 04 26.5	-0.5				
SSE	1.9	159	SME	0.3	0.50	1.2	2.4	0.5	0.090	cPn	23 25 16.0	23 25 19.0	23 25 40.5	23 25 44.5	1.4	16.0	0.90												
																		LN	$M_s = 4.7$					GYA	31.7	127	+P	01 04 34.0	0.1
																		Pg								PMZ		1.0	0.70
																		Sn								S	01 09 48.8	6.3	
																		Sg								+iP	01 04 33.6	-0.6	
TIA	4.3	322	SME	0.4	0.20	5.0	-2.0	0.5	0.030	Pg	23 26 02.8	23 26 54.0	23 26 54.0	23 26 54.0	-2.0	16.0	0.70												
																		SMN	$M_L = 3.0$					SNY	31.7	87	+P	01 04 35.8	-0.6
																		SME								PcP	01 07 23.0	-3.0	
																		cSg								cS	01 09 48.0	0.0	
WHN	5.6	247	SME	0.5	0.030	0.2	0.5	0.030	DL2	32.0	94	cP	01 04 35.7	-1.1	16.0	0.70													
																	Pg	23 26 22.5			WHN	32.9	113	+iP	01 04 44.0	0.1			
																									PMZ		0.5	0.10	
<p>1987 8 2</p> <p>O = 00 58 06.1 ± 0.12s</p> <p>LAT = 49.92 N ± 1.46km</p> <p>LONG = 78.89 E ± 1.60km</p> <p>DEPTH = 1 km ± 0.46km</p> <p>STATIONS USED = 96, STAND DEV = 1.50s</p> <p>$M_s = 4.8 / 15,$</p>																													
WMQ	8.6	132	+iP	01 00 14.1	-0.5	-5.0	9.0	5.17	GZH	38.0	122	+iP	01 05 28.5	1.0	12.0	0.40													
																	S	01 01 48.0			MDJ	34.3	79	+iP	01 04 55.8	-0.3			
																	LN	$M_s = 4.8$							PcP	01 07 32.0	-0.2		
KSH	10.7	192	cP	01 00 44.7	1.3	1.7	4.0	7.90	QZN	39.5	130	+iP	01 05 40.8	0.5	12.0	0.40													
																	S	01 02 46.0							PcP	01 07 33.0	-0.1		
																	LN	$M_s = 5.5$					NJ2	34.5	106	+iP	01 04 58.8	0.3	
GTA	18.2	117	-iP	01 02 20.8	-0.7	-0.7	1.5	0.98	QZH	39.5	114	cP	01 05 41.0	0.6	12.0	0.40													
																	PMZ								PcP	01 07 33.0	-0.1		
																	LN	$M_s = 4.7$					SSE	36.7	105	+iP	01 05 16.2	-0.2	
LZH	22.8	118	+iP	01 03 12.3	0.8	0.8	1.5	0.67	GTA	40.3	122	+iP	02 07 40.8	0.5	12.0	0.40													
																	PMZ								PMZ		0.7	0.070	
																	LN	$M_s = 4.8$											
BTO	23.7	101	+P	01 03 21.0	0.7	0.7	9.0	0.69	KSH	35.5	151	P	02 07 01.0	0.8	12.0	0.40													
																	cS	01 07 36.0											
																	LN	$M_s = 4.8$											
CD2	26.6	126	+iP	01 03 49.0	0.8	0.8	9.0	0.70	QZH	39.5	114	cP	01 05 41.0	0.6	12.0	0.40													
																	LE												
																	LN	$M_s = 4.8$											
TIY	26.9	104	+iP	01 03 51.8	1.2	1.2	10.0	0.85	GTA	40.3	122	+iP	02 07 40.8	0.5	12.0	0.40													
																	PMZ												
																	LN	$M_s = 4.8$											
																	cS	01 08 25.0											
																	LN	$M_s = 4.4$											
XAN	27.1	114	+iP	01 03 53.2	0.1	0.1	1.2	0.35	GTA	40.3	122	+iP	02 07 40.8	0.5	12.0	0.40													
																	PMZ												
																	PcP	01 07 13.6											
<p>1987 8 2</p> <p>O = 01 59 58.8 ± 0.07s</p> <p>LAT = 73.36 N ± 1.54km</p> <p>LONG = 54.49 E ± 1.19km</p> <p>DEPTH = 0 km ± 0.06km</p> <p>STATIONS USED = 89, STAND DEV = 1.04s</p> <p>$M_s = 4.8 / 8,$</p>																													
WMQ	33.4	134	+iP	02 06 41.7	0.3	0.3	11.0	0.90	KSH	35.5	151	P	02 07 01.0	0.8	11.0	0.23													
																	cS	02 12 06.0											
																	LN	$M_s = 5.0$											
KSH	35.5	151	P	02 07 01.0	0.8	0.8	9.0	0.70	GTA	40.3	122	+iP	02 07 40.8	0.5	11.0	0.23													
																	cPP	02 08 19.0											
																	cS	02 12 39.0											
TIY	26.9	104	+iP	01 03 51.8	1.2	1.2	10.0	1.10	GTA	40.3	122	+iP	02 07 40.8	0.5	11.0	0.23													
																	LN	$M_s = 5.1$											
																	PP	02 09 12.3											
XAN	27.1	114	+iP	01 03 53.2	0.1	0.1	1.2	0.35	GTA	40.3	122	+iP	02 07 40.8	0.5	11.0	0.23													
																	PMZ												
																	PcP	01 07 13.6											
BTO	41.9	110	cP	02 07 52.4	-0.4	-0.4	11.0	0.38	HHC	42.0	108	P	02 07 54.4	0.1	11.0	0.23													
																	LN	$M_s = 4.5$											
																	LN	$M_s = 4.5$											

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CN2	43.2	92	+P	02 08 03.6	-0.4					BTO	19.4	301	cP	02 16 53.0	-2.0				
			eS	02 14 34.0	1.8								cS	02 20 28.0	2.8				
			LE			Ms=4.6	15.0	0.40					LN			Ms=4.3	13.0	0.30	
BJI	44.1	104	+iP	02 08 11.5	0.8								LE				13.0	0.50	
			PcP	02 09 54.0	-2.1					GYA	22.8	261	P	02 17 27.4	-2.2				
			PcS	02 13 49.0	1.1					LZH	23.5	287	cP	02 17 36.0	-0.5				
LZH	44.5	119	+iP	02 08 15.0	0.8					CD2	24.0	274	eP	02 17 40.0	-1.5				
			PMZ				1.5	0.11											
SNY	44.5	95	+iP	02 08 14.0	-0.3														
TIY	45.2	109	+P	02 08 21.0	1.0														
			PMZ				1.0	0.070											
			PP	02 10 05.0	-0.9														
			eS	02 15 04.0	3.2														
DL2	46.7	99	+P	02 08 31.5	0.1														
TIA	47.9	105	+P	02 08 41.8	0.5														
CD2	49.4	121	+iP	02 08 53.0	0.3														
			PMZ				0.8	0.33											
NJ2	52.3	105	-iP	02 09 14.4	-0.4														
			PcP	02 10 25.6	0.0														
WHN	52.5	110	+iP	02 09 15.5	-0.7														
			PMZ				0.6	0.12											
			LN			Ms=5.0	10.0	0.40											
SSE	53.9	103	+iP	02 09 25.5	-0.8														
			PMZ				1.0	0.050											
			PcP	02 10 31.0	-0.4														
			eS	02 16 59.0	-2.3														
GYA	54.4	119	P	02 09 29.0	-1.2														
QZH	58.9	108	cP	02 10 01.6	-1.3														
QZN	62.3	118	P	02 10 25.2	-0.4														
<p>1987 8 2 O=02 12 30.6 ± 0.13s LAT=32.42 N ± 2.00km LONG=131.96 E ± 1.70km DEPTH= 58 km ± 1.17km STATIONS USED = 36, STAND DEV = 2.43s Ms=3.8/ 6,</p>										<p>1987 8 2 O=02 19 41.1 ± 0.12s LAT= 3.96 S ± 1.26km LONG=126.26 E ± 1.13km DEPTH= 36 km ± 1.13km STATIONS USED = 35, STAND DEV = 1.49s Ms=4.7/ 1,</p>									
SSE	9.3	265	+iP	02 14 43.0	-1.3					SSE	35.2	352	c(P)	02 26 34.0	-0.2				
			PMZ				0.7	0.030					cS	02 32 04.0	-0.3				
			pP	02 14 50.7	0.1														
			LE			Ms=3.7	10.0	0.38											
NJ2	11.1	272	-iP	02 15 10.0	0.6														
TIA	12.8	291	cP	02 15 32.9	0.3														
BJI	14.8	305	cP	02 15 58.0	-0.5														
WHN	15.1	268	P	02 16 07.0	4.3														
			LE			Ms=3.9	12.0	0.33											
TIY	16.8	294	cP	02 16 26.0	1.9														
			sS	02 19 43.0	-1.4														
			LE			Ms=4.2	15.5	0.76											
HHC	18.4	303	cP	02 16 43.3	0.1														
<p>1987 8 2 O=09 07 32.6 ± 0.10s LAT=24.96 N ± 1.26km LONG=115.56 E ± 1.07km DEPTH= 12 km ± 0.12km STATIONS USED = 93, STAND DEV = 1.67s Ms=5.4/ 40, M_L=5.6/ 1, m_B=5.2/ 1</p>										<p>1987 8 2 O=09 07 32.6 ± 0.10s LAT=24.96 N ± 1.26km LONG=115.56 E ± 1.07km DEPTH= 12 km ± 0.12km STATIONS USED = 93, STAND DEV = 1.67s Ms=5.4/ 40, M_L=5.6/ 1, m_B=5.2/ 1</p>									
										GZH	2.8	228	Pn	09 08 19.3	2.3				
													Sg	09 09 03.0	4.1				
													SMN			M _L =5.6	0.5	44.2	
													SME				0.5	14.8	
										QZH	2.8	90	+Pn	09 08 17.0	-0.1				
													Pg	09 08 23.5	2.2				
													iSn	09 08 49.0	-3.2				
													LN				6.0	55.0	
										WHN	5.7	349	Pn	09 08 58.0	0.9				
													Sg	09 10 30.5	0.4				
													LN			Ms=5.3	7.0	23.0	
										NJ2	7.6	22	-Pn	09 09 24.0	-0.2				
													Sn	09 10 50.0	-3.1				
													LN			Ms=5.4	8.0	22.6	

			SMN	$m_B = 5.2$	8.0	0.26	LAT = 14.92 N	± 2.71 km		
			SME		8.0	0.36	LONG = 146.73 E	± 2.61 km		
			LN	$M_s = 5.1$	12.0	0.72	DEPTH = 71 km	± 0.84 km		
			LE		12.0	1.60	STATIONS USED = 66,	STAND DEV = 1.78s		
TIY	31.9	308	cP	19 00 17.3	-0.7		$M_s = 4.9 / 16,$	$m_B = 5.3 / 1$		
			S	19 05 28.0	3.2		SSE	28.4 309 cP	19 53 32.5	-1.5
			LN	$M_s = 4.9$	14.0	0.65		PP	19 54 22.0	-5.3
			LE		13.0	0.94		cS	19 58 14.0	-0.6
QZN	32.3	272	cP	19 00 20.5	-0.9			sS	19 58 38.0	-4.9
			PP	19 01 30.0	1.2		MDJ	33.0 337 cP	19 54 12.5	-2.0
			cS	19 05 30.0	-1.9			cS	19 59 28.0	1.2
			sS	19 05 43.5	-3.7			LN	$M_s = 5.2$	17.0 2.35
			cSS	19 07 28.0	1.3		SNY	33.5 328 cP	19 54 17.8	-0.7
			LN	$M_s = 5.0$	15.0	1.40	WHN	33.5 303 cP	19 54 19.5	0.4
XAN	33.5*	300	cP	19 00 29.0	-3.2			S	19 59 36.0	1.7
			PP	19 01 48.0	3.8			LN	$M_s = 5.0$	14.0 1.20
			LN	$M_s = 5.1$	14.0	1.64	TIA	33.9 314 cP	19 54 21.9	-0.3
HHC	33.8	313	P	19 00 36.2	1.9		CN2	34.0 332 cP	19 54 21.0	-2.5
GYA	34.6	286	P	19 00 42.2	0.6		BJI	36.6 319 +P	19 54 44.0	-1.1
			LN	$M_s = 5.1$	13.0	1.40		cS	20 00 24.0	1.7
BTO	34.7	311	P	19 00 42.5	-0.1			LE	$M_s = 4.8$	17.0 0.89
			S	19 06 08.0	-0.9		TIY	37.9 313 +P	19 54 56.5	0.3
			LN	$M_s = 5.1$	17.0	1.40		LN	$M_s = 4.8$	11.0 0.31
			LE		17.0	1.10		LE		13.0 0.55
CD2	37.4	293	cP	19 01 04.4	-0.4		XAN	39.0 306 +P	19 55 06.2	0.5
			cS	19 06 54.0	3.5			S	20 01 03.5	4.8
			LN	$M_s = 5.2$	11.0	1.24		LN	$M_s = 4.9$	13.0 0.70
LZH	38.0	302	P	19 01 10.0	-0.6		GYA	39.0 294 P	19 55 06.0	0.1
			PMZ			1.5 0.15		LE	$M_s = 4.9$	15.0 0.80
			cPP	19 02 45.0	4.6		HHC	40.0 317 +P	19 55 14.3	0.6
			S	19 07 00.0	0.5		BTO	40.9 316 +iP	19 55 21.5	0.3
			LN	$M_s = 5.0$	14.0	1.09		cPP	19 56 56.0	-2.9
KMI	38.2	284	cP	19 01 14.0	2.2			S	20 01 30.0	3.6
			cS	19 07 06.0	2.9			LN	$M_s = 4.9$	13.0 0.50
			LN	$M_s = 5.0$	13.0	0.93		LE		13.0 0.50
GTA	41.8	306	P	19 01 41.6	-0.5		CD2	42.4 300 cP	19 55 33.6	0.3
			cS	19 07 54.0	-3.9		KMI	42.4 291 +P	19 55 35.0	1.4
			SMN	$m_B = 5.2$	7.5	0.29		cS	20 01 50.0	-0.1
			LN	$M_s = 5.1$	14.0	1.02		LE	$M_s = 4.8$	16.0 0.70
WMQ	51.5	310	P	19 02 55.7	-2.6		LZH	43.6 307 +iP	19 55 45.0	1.4
			PMZ			1.8 0.18		PMZ		2.5 0.24
			SMN	$m_B = 5.7$	9.0	0.81	GTA	47.7 310 P	19 56 16.0	0.3
			ScS	19 12 46.5	4.5			cS	20 03 08.5	2.8
			LN	$M_s = 5.0$	12.0	0.59		SMN	$m_B = 5.3$	5.0 0.21
KSH	60.2	304	cP	19 04 02.0	1.1			LN	$M_s = 5.1$	17.0 1.20
			cS	19 12 06.0	-5.2		WMQ	57.5 313 P	19 57 29.5	0.5
			LE	$M_s = 4.9$	10.0	0.30		LN	$M_s = 4.8$	24.0 0.64
							KSH	65.9 307 P	19 58 27.0	2.0
								LN	$M_s = 5.0$	10.0 0.30

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O = 19 47 43.9

$\pm 0.24s$

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1987 8 2
 O = 19 57 11.1 ± 0.18s
 LAT = 21.36 N ± 2.66km
 LONG = 144.18 E ± 3.08km
 DEPTH = 33 km ± 0.30km
 STATIONS USED = 59, STAND DEV = 2.26s
 Ms = 4.7 / 10, m_B = 5.5 / 6

SSE	22.8	300	cP	20 02 12.7	0.9		
			pP	20 02 22.0	1.3		
			sP	20 02 26.0	1.2		
			cS	20 06 12.0	-2.1		
			sS	20 06 26.0	-2.5		
			LN	Ms = 4.4	12.0	0.52	
QZH	23.8	284	-P	20 02 22.5	0.6		
			PMZ	m _B = 5.1	5.0	0.39	
			cS	20 06 34.0	1.7		
			SME	m _B = 5.6	12.0	2.07	
			LE	Ms = 4.8	16.0	1.65	
NJ2	24.9	301	+P	20 02 33.4	0.2		
			LE	Ms = 4.7	14.0	1.00	
DL2	26.1	317	cP	20 02 45.0	1.1		
			S	20 07 11.0	0.8		
			LE	Ms = 4.8	12.0	1.03	
MDJ	26.1	336	cP	20 02 48.2	3.7		
SNY	26.8	324	cP	20 02 49.2	-1.2		
CN2	27.3	329	cP	20 02 59.0	4.3		
TIA	27.8	308	cP	20 02 58.4	-1.5		
WHN	28.3	295	cP	20 03 08.5	4.7		
BJI	30.2	314	P	20 03 24.5	3.0		
TIY	31.9	308	P	20 03 35.0	-1.0		
QZN	32.3	272	cP	20 03 34.0	-5.4		
			LN	Ms = 4.7	15.0	0.80	
XAN	33.5	300	cP	20 03 49.4	-0.7		
GYA	34.6	286	P	20 04 00.2	0.7		
BTO	34.7	311	cP	20 04 00.6	0.0		
LZH	38.0	302	+P	20 04 28.5	0.0		
			PMZ			2.5	0.11
			cPP	20 06 05.0	6.7		
			LN	Ms = 4.9	11.0	0.71	
KMI	38.2	284	cP	20 04 32.0	2.2		
GTA	41.8	306	P	20 04 59.1	-1.0		
WMQ	51.5	310	P	20 06 16.0	-0.3		

1987 8 2
 O = 21 30 07.5 ± 0.16s
 LAT = 21.81 N ± 2.29km
 LONG = 144.23 E ± 2.38km
 DEPTH = 34 km ± 0.50km
 STATIONS USED = 32, STAND DEV = 1.93s
 Ms = 4.2 / 1, m_B = 4.9 / 1

SSE	22.6	299	cP	21 35 06.5	0.2		
			PMZ			1.0	0.020
			cpP	21 35 15.5	0.1		
			cS	21 39 10.0	3.0		
			sS	21 39 19.0	-2.7		
QZH	23.7	283	cP	21 35 18.0	0.4		
			SME			m _B = 4.9	12.0 0.40
NJ2	24.8	300	+P	21 35 29.0	1.3		
SNY	26.5	324	-P	21 35 43.3	-0.3		
TIA	27.6	307	+P	21 35 53.3	-0.7		
WHN	28.1	294	P	21 36 01.0	2.2		
TIY	31.6	307	cP	21 36 30.7	0.6		
LZH	37.8	301	cP	21 37 22.0	-1.2		
GTA	41.6	305	P	21 37 53.6	-0.9		
			PcP	21 39 49.5	-1.5		

1987 8 2
 O = 21 45 02.2 ± 0.10s
 LAT = 24.92 N ± 1.07km
 LONG = 115.72 E ± 0.89km
 DEPTH = 16 km ± 0.30km
 STATIONS USED = 18, STAND DEV = 2.10s
 M_L = 3.9 / 16,

QZH	2.6	89	Pn	21 45 44.7	0.6		
			Pg	21 45 51.2	3.0		
			Sn	21 46 14.8	-2.5		
			SMN	M _L = 3.5	0.3	0.33	
			SME		0.3	0.16	
GZH	2.8	230	-Pg	21 45 55.4	2.9		
			Sg	21 46 32.6	1.3		
			SMN	M _L = 4.1	0.5	0.93	
			SME		0.5	0.66	
WHN	5.7	348	cPn	21 46 29.0	2.0		
			Sg	21 48 02.0	0.3		
			SMN	M _L = 4.2	0.6	0.20	
SSE	7.8	37	cPn	21 46 55.3	-0.4		
			SMN	M _L = 4.0	1.0	0.040	
			SME		1.0	0.050	
GYA	8.3	283	P	21 47 01.6	-3.7		
			S	21 48 35.4	-4.0		
			SMN	M _L = 4.2	1.0	0.070	
			SME		1.0	0.040	

1987 8 2
 O = 22 15 09.2 ± 0.10s
 LAT = 26.97 N ± 1.51km
 LONG = 66.08 E ± 1.63km
 DEPTH = 33 km ± 0.14km
 STATIONS USED = 57, STAND DEV = 1.36s
 Ms = 5.1 / 16,

		cS	22 46 24.0	3.2	
		csS	22 46 38.0	2.7	
NJ2	25.0	301	cP	22 42 39.0	-0.4
SNY	26.9	324	cP	22 42 55.4	-1.4
TIA	27.9	308	+P	22 43 05.6	-0.6
WHN	28.3	295	P	22 43 14.2	4.3
BTO	34.8	311	cP	22 44 05.3	-1.5
LZH	38.1	302	cP	22 44 35.0	0.4
GTA	41.9	306	P	22 45 05.8	-0.4
WMQ	51.6	310	P	22 46 22.0	-0.4

1987 8 4

O=12 05 39.4 ± 0.69s

LAT=39.51 N ± 2.40km

LONG= 75.32 E ± 6.19km

DEPTH= 14 km

STATIONS USED = 11, STAND DEV = 2.19s

Ms=3.4 / 1, M_L=4.0 / 3,

KSH 0.5 96 +iPn 12 05 52.7 -0.3

Sn 12 06 04.0 0.9

WMQ 10.2 61 cP 12 08 08.5 -0.6

1987 8 4

O=12 26 53.2 ± 0.13s

LAT=38.37 N ± 2.17km

LONG= 75.19 E ± 1.35km

DEPTH= 21 km ± 1.50km

STATIONS USED = 7, STAND DEV = 3.51s

M_L=4.1 / 3,

KSH 1.3 29 Pg 12 27 14.2 -1.5

Sg 12 27 28.0 -4.9

SMN M_L=4.1 0.5 3.00

SME 0.5 3.10

WMQ 10.9 56 cP 12 29 30.0 -1.5

1987 8 4

O=15 04 40.0 ± 0.20s

LAT=40.44 S ± 1.81km

LONG= 73.36 W ± 2.13km

DEPTH= 49 km ± 1.64km

STATIONS USED = 59, STAND DEV = 1.42s

MDJ 162.6 291 -PKP 15 24 36.5 -0.4

PKP₂ 15 25 27.5

PP 15 29 10.2 -1.3

KMI 164.4 167 +PKP 15 24 40.5 1.6

WMQ 165.5 70 PKP 15 24 40.8 0.9

pPKP 15 24 53.6 -0.2

CN2 165.6 290 +PKP 15 24 38.0 -1.9

pPKP 15 24 49.0 -4.9

PKP₂ 15 28 35.0

GYA	166.1	180	PKP	15 24 42.0	1.6
			pPKP	15 24 55.0	0.8
			PKP ₂	15 25 42.0	
			sPKP ₂	15 26 01.0	
			PP	15 29 32.0	2.1
NJ2	167.1	233	cPKP	15 24 41.0	0.1
CD2	170.2	165	cPKP	15 24 44.8	1.9
TIA	170.7	246	cPKP	15 24 44.1	0.9
BJI	172.7	270	cPKP	15 24 44.0	-0.2
			PKP ₂	15 26 10.0	
			cPP	15 30 02.0	-1.2

XAN 173.4 197 +PKP 15 24 45.4 0.7

pPKP 15 24 58.2 -0.5

PKP₂ 15 26 12.5

GTA 174.6 99 +PKP 15 24 46.1 0.9

pPKP 15 24 58.2 -0.7

SKKS 15 37 09.0

TIY 174.7 241 +PKP 15 24 45.5 0.4

PKP₂ 15 26 20.0

cPP 15 30 14.5 1.2

LZH 175.1 152 +PKP 15 24 47.0 1.8

PKP₂ 15 26 32.0

HHC 176.2 278 PKP 15 24 47.0 1.5

BTO 177.4 275 cPKP 15 24 47.0 1.3

pPKP 15 24 57.0 -2.5

1987 8 4

O=16 00 33.6 ± 0.14s

LAT=41.95 N ± 1.05km

LONG=142.44 E ± 1.05km

DEPTH= 78 km ± 1.57km

STATIONS USED = 43, STAND DEV = 1.44s

Ms=3.3 / 1,

CN2 12.6 284 cP 16 03 33.0 1.3

BJI 19.9 273 cP 16 04 59.0 -2.6

SSE 20.2 244 cP 16 05 03.4 -1.0

cpP 16 05 25.0 4.8

TIA 20.4 262 cP 16 05 05.9 -1.3

NJ2 21.2 250 cP 16 05 14.0 -1.0

TIY 23.4 270 cP 16 05 37.5 1.2

WHN 25.2 252 P 16 05 56.0 1.8

XAN 27.4 264 cP 16 06 15.4 0.8

CD2 32.8 263 cP 16 07 01.3 -0.5

GYA 33.1 254 P 16 07 06.8 2.0

WMQ 39.5 292 P 16 08 00.5 1.5

1987 8 4

O=19 13 37.4 ± 0.09s

LAT= 2.81 N ± 0.88km

LONG=128.73 E ± 1.04km

DEPTH = 228 km ± 1.10km
 STATIONS USED = 18, STAND DEV = 1.43s

QZN	24.5	312	cP	19 18 38.8	0.9
XAN	36.2	332	cP	19 20 19.0	-1.1
CD2	36.6	322	P	19 20 24.2	0.6
BJI	38.8	345	cP	19 20 41.5	-0.3
GTA	44.9	328	-iP	19 21 32.0	0.2
			PcP	19 23 10.4	1.6

1987 8 4

O = 19 51 60.0 ± 0.08s
 LAT = 15.29 S ± 0.89km
 LONG = 167.64 E ± 1.44km
 DEPTH = 142 km ± 0.98km

STATIONS USED = 41, STAND DEV = 0.94s

WHN	68.6	312	cP	20 02 48.5	-1.6
MDJ	68.9	332	+P	20 02 52.0	-0.3
CN2	70.3	329	P	20 03 00.0	-0.6
GYA	72.3	305	P	20 03 12.8	0.0
TIY	73.9	317	+P	20 03 22.0	-0.1
XAN	74.3	313	+P	20 03 24.0	-0.4
KMI	74.9	302	+P	20 03 28.5	0.6
CD2	76.6	308	cP	20 03 37.6	0.2
GTA	83.3	314	P	20 04 14.0	0.8
WMQ	93.4	314	P	20 05 00.3	-0.7

1987 8 4

O = 22 15 39.8 ± 0.18s
 LAT = 29.38 S ± 3.39km
 LONG = 176.07 W ± 2.93km
 DEPTH = 34 km ± 0.81km
 STATIONS USED = 48, STAND DEV = 1.94s
 Ms = 5.4 / 1, m_B = 5.7 / 3

QZH	82.8	304	cP	22 28 01.3	-1.2
			cS	22 38 16.0	-1.2
			SME	m _B = 5.6	8.0 0.38
SSE	84.7	310	cP	22 28 11.6	-0.8
			cpP	22 28 19.0	-3.3
			cS	22 38 36.0	-0.7
GZH	85.6	299	-P	22 28 17.4	0.7
QZN	86.1	294	cP	22 28 20.0	0.8
			cS	22 38 51.0	0.9
MDJ	88.7	325	cP	22 28 31.5	-0.6
WHN	89.1	306	cP	22 28 32.0	-1.6
			cSKS	22 39 02.0	4.5
SNY	90.1	319	cP	22 28 35.7	-2.7
CN2	90.4	322	-P	22 28 38.0	-1.6
			cS	22 39 24.0	-6.0
TIA	90.5	312	cP	22 28 40.3	-0.1
			LN	Ms = 5.4	11.0 0.45

GYA	92.5	299	P	22 28 50.6	0.9
TIY	94.4	311	c(P)	22 29 03.0	4.5
			SKS	22 39 34.0	5.7
			SMN	m _B = 5.7	7.0 0.39
			SME		7.0 0.27
XAN	94.8	306	cP	22 29 01.2	0.9
			SKS	22 39 33.0	2.5
			SMN	m _B = 6.0	7.0 0.74
KMI	94.9	296	cP	22 29 02.0	1.4
HHC	96.7	313	c(P)	22 29 12.0	3.0
CD2	97.0	301	P	22 29 11.8	1.8

1987 8 5

O = 04 10 16.0 ± 0.18s
 LAT = 41.33 N ± 1.87km
 LONG = 82.39 E ± 1.78km
 DEPTH = 26 km ± 0.24km

STATIONS USED = 15, STAND DEV = 3.11s

M_L = 4.1 / 5,

KSH	5.2	251	cPn	04 11 33.5	0.2
			cSn	04 12 30.0	-4.6
GTA	13.4	92	cP	04 13 23.2	-4.6
			SMN		0.8 0.020
GYA	24.9	119	cP	04 15 45.4	6.6

1987 8 5

O = 10 24 21.1 ± 0.13s
 LAT = 41.34 N ± 1.88km
 LONG = 82.19 E ± 1.88km
 DEPTH = 32 km ± 0.22km
 STATIONS USED = 71, STAND DEV = 2.11s
 Ms = 5.0 / 34, M_L = 5.4 / 2, m_B = 6.1 / 1

WMQ	4.8	57	Pn	10 25 34.0	2.7
			Sg	10 26 50.0	-0.6
			SMN		2.0 21.5
			SME		2.0 13.9
KSH	5.1	250	-iPn	10 25 39.0	3.0
			Pg	10 25 51.2	-0.2
			Sg	10 26 57.5	-3.7
			SMN	M _L = 5.3	0.5 1.30
			SME		0.8 6.10
GTA	13.6	92	-P	10 27 30.0	-4.2
			LN	Ms = 4.9	8.0 2.44
			LE		8.5 1.64
LZH	17.7	100	+P	10 28 26.0	-0.9
			PMZ		2.0 0.080
			S	10 31 44.0	4.1
			LN	Ms = 5.1	16.5 5.72
CD2	20.2	114	P	10 28 56.7	0.0
			cS	10 32 43.0	5.5

LONG = 81.65 E ± 1.57km
 DEPTH = 26 km ± 1.37km
 STATIONS USED = 6, STAND DEV = 2.60s
 $M_L = 4.5 / 3,$

KSH	7.0	321	P	04 07 13.0	1.1		
			SMN		$M_L = 4.8$	0.5	0.40
			SME			0.5	0.40

1987 8 6
 O = 09 06 47.3 ± 0.09s
 LAT = 38.22 N ± 1.99km
 LONG = 72.96 E ± 1.50km
 DEPTH = 138 km ± 0.82km
 STATIONS USED = 61, STAND DEV = 1.70s
 $m_B = 4.9 / 1$

KSH	2.7	61	+iP	09 07 33.5	2.5		
			S	09 08 04.0	0.4		
			LE			4.0	38.2
WMQ	12.5	59	+iP	09 09 38.5	-2.6		
			sP	09 10 16.5	-0.6		
			S	09 11 56.0	-0.9		
			LN			5.0	1.59
GTA	20.9	78	P	09 11 21.3	0.3		
			pP	09 11 50.4	-0.7		
			SMN		$m_B = 4.9$	9.5	0.30
			sS	09 15 52.0	3.4		
			LE			9.5	0.22
LZH	24.7	85	cP	09 11 58.0	0.9		
			pP	09 12 27.0	2.1		
			cS	09 16 05.0	-1.2		
CD2	26.3	97	cP	09 12 12.8	0.5		
XAN	29.2	87	P	09 12 36.7	-2.0		
			pP	09 13 09.0	1.4		
HHC	29.7	73	cP	09 12 43.8	0.5		
GYA	30.6	103	P	09 12 50.0	-1.2		
			pP	09 13 22.0	1.8		
			S	09 17 43.0	1.6		
TIY	31.0	78	cP	09 12 53.8	-0.3		
			cS	09 17 48.0	0.4		
BJI	33.3	73	cP	09 13 14.5	0.0		
WHN	34.8	90	cP	09 13 27.5	0.7		
			sP	09 14 15.4	2.6		
			cS	09 18 50.0	3.4		
			LN			9.0	0.20
TIA	35.0	79	cP	09 13 29.1	0.5		
			SS	09 21 18.0	5.4		
NJ2	37.7	85	+P	09 13 50.0	-1.7		
CN2	39.5	65	cP	09 14 06.0	0.1		
SSE	39.9	85	cP	09 14 10.7	0.7		
			PMZ			0.8	0.010

			cS	09 20 04.0	-0.8		
			csS	09 21 00.0	2.2		
			cSS	09 23 02.0	2.0		
MDJ	42.2	63	cP	09 14 28.6	-0.1		

1987 8 6
 O = 09 52 09.4 ± 0.07s
 LAT = 12.98 S ± 0.65km
 LONG = 169.44 E ± 1.05km
 DEPTH = 659 km ± 0.55km
 STATIONS USED = 49, STAND DEV = 0.72s

SSE	63.8	314	cP	10 01 40.5	-1.1		
			PMZ			0.8	0.010
NJ2	65.9	314	-P	10 01 54.5	-0.7		
QZN	66.8	297	cP	10 02 00.8	0.5		
MDJ	67.8	330	cP	10 02 05.7	-0.6		
WHN	68.4	310	P	10 02 09.5	-0.5		
			PMZ			1.0	0.050
CN2	69.3	327	+P	10 02 15.0	-0.3		
			cS	10 10 33.0	0.3		
TIA	69.5	317	cP	10 02 17.5	1.0		
BJI	72.3	320	cP	10 02 32.0	-0.6		
GYA	72.5	303	P	10 02 34.4	0.4		
TIY	73.4	316	-iP	10 02 40.2	0.8		
XAN	74.1	311	+P	10 02 42.5	-0.5		
			cS	10 11 27.9	1.6		
CD2	76.6	306	cP	10 02 57.4	0.4		
LZH	78.7	311	-P	10 03 10.0	1.8		
			PMZ			1.5	0.050
WMQ	93.0	314	P	10 04 17.0	0.1		

1987 8 6
 O = 11 25 58.8 ± 0.09s
 LAT = 12.86 S ± 0.97km
 LONG = 169.49 E ± 1.45km
 DEPTH = 654 km ± 0.66km
 STATIONS USED = 65, STAND DEV = 0.71s

QZH	62.2	307	cP	11 35 21.0	-0.7		
			S	11 43 04.0	4.9		
NJ2	65.9	314	+P	11 35 44.5	-0.2		
QZN	66.8	297	cP	11 35 50.6	0.6		
MDJ	67.7	330	+P	11 35 55.5	-0.1		
DL2	68.1	321	P	11 35 58.6	0.3		
WHN	68.3	310	cP	11 35 59.5	0.0		
			PMZ			1.1	0.060
SNY	68.9	325	-P	11 36 02.8	0.1		
CN2	69.2	327	+P	11 36 04.2	-0.4		
			PMZ			2.0	0.30
TIA	69.4	317	+P	11 36 05.2	-0.7		
BJI	72.2	320	cP	11 36 22.0	0.0		

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GYA	72.5	303	P	11 36 24.0	0.3
TIY	73.4	316	+P	11 36 29.5	0.6
XAN	74.0	311	+iP	11 36 32.5	-0.1
KMI	75.2	301	+P	11 36 40.0	1.0
			PP	11 39 39.5	-1.4
			eS	11 45 27.0	-1.5
HHC	75.6	318	+P	11 36 41.5	0.3
BTO	76.5	318	+P	11 36 46.0	0.1
CD2	76.6	306	eP	11 36 46.8	0.2
LZH	78.7	311	+P	11 36 59.0	1.2
			PMZ		1.5 0.060
GTA	83.0	313	+iP	11 37 20.2	0.7
WMQ	93.0	314	P	11 38 06.2	-0.3

1987 8 6

O = 13 09 37.0 ± 0.18s
 LAT = 7.68 S ± 1.36km
 LONG = 127.48 E ± 1.70km
 DEPTH = 164 km ± 1.31km
 STATIONS USED = 41, STAND DEV = 1.65s

GYA	39.5	330	+P	13 16 54.6	1.1
			PcP	13 18 59.0	1.2
			ScP	13 22 33.8	4.3
			S	13 22 43.0	0.6
WHN	40.0	342	eP	13 17 00.0	2.1
KMI	40.5	324	eP	13 17 04.5	2.3
CD2	44.6	331	P	13 17 35.4	0.5
XAN	45.1	338	-iP	13 17 37.6	-1.1
BJI	48.6	348	eP	13 18 05.5	-0.8
GTA	53.4	333	+P	13 18 42.1	-0.4
			pP	13 19 15.7	-3.6
			PcP	13 19 47.5	0.7
			ScP	13 23 31.5	4.4
			eScS	13 28 15.0	4.1
WMQ	62.6	329	P	13 19 46.5	-0.2
			pP	13 20 24.5	-0.1

1987 8 6

O = 15 15 34.0 ± 0.25s
 LAT = 5.33 S ± 5.22km
 LONG = 105.13 W ± 7.41km
 DEPTH = 10 km ± 1.20km
 STATIONS USED = 54, STAND DEV = 2.68s

Ms = 5.0 / 1,

BJI	129.3	319	ePKP	15 34 45.0	1.0
SSE	129.6	306	PKP	15 34 45.0	0.4
			ePP	15 36 54.0	-3.8
			eSS	15 54 24.0	6.4
NJ2	131.1	309	ePKP	15 34 49.0	1.6
BTO	132.8	323	+PKP	15 34 53.0	2.1

TIY	133.0	319	ePKP	15 34 53.4	2.2
			PP	15 37 17.5	-1.9
			PKS	15 38 23.0	
QZH	133.8	300	ePKP	15 34 52.0	-0.5
			PP	15 37 22.0	-2.9
			PKS	15 38 25.0	
WHN	135.2	309	ePKP	15 34 59.0	3.8
XAN	137.4	317	+PKP	15 35 02.0	2.6
			PKS	15 38 34.8	
GTA	139.3	330	PKP	15 35 04.0	1.2
			PKS	15 38 40.0	
			LN	Ms = 5.0	22.0 0.19
LZH	139.4	323	ePKP	15 35 05.0	1.9
WMQ	140.0	346	ePKP	15 34 58.0	-6.1
CD2	142.8	317	ePKP	15 35 08.0	-0.9
GYA	143.1	308	+PKP	15 35 08.5	-1.0
QZN	143.3	295	PKP	15 35 09.5	-0.2
			PP	15 38 25.0	1.8
			PKS	15 38 46.0	
			eSKS	15 42 18.0	2.7
KSH	146.0	358	PKP	15 35 17.5	2.9
KMI	146.8	309	ePKP	15 35 18.0	2.0
			PP	15 38 44.0	-0.3

1987 8 6

O = 16 34 14.1 ± 0.11s
 LAT = 18.10 S ± 0.76km
 LONG = 177.98 W ± 1.34km
 DEPTH = 622 km ± 0.94km
 STATIONS USED = 57, STAND DEV = 0.75s

QZH	75.1	303	P	16 44 56.7	0.5
MDJ	78.6	325	-iP	16 45 15.4	0.5
			pP	16 47 24.0	0.8
DL2	80.0	316	P	16 45 22.0	-0.4
SNY	80.4	320	eP	16 45 24.2	-0.1
CN2	80.4	322	-P	16 45 24.0	-0.5
			PMZ		2.0 0.30
			pP	16 47 31.0	-2.6
			eS	16 54 44.0	2.1
WHN	81.0	306	P	16 45 29.0	1.3
TIA	81.7	312	eP	16 45 30.2	-0.7
BJI	84.2	315	eP	16 45 43.5	0.0
GYA	85.5	300	P	16 45 50.2	0.4
TIY	85.7	312	eP	16 45 51.4	0.6
XAN	86.7	307	-P	16 45 55.5	0.0
KMI	88.3	297	eP	16 46 04.5	1.4
BTO	88.6	314	P	16 46 04.5	-0.2
CD2	89.5	303	eP	16 46 09.0	0.4
LZH	91.3	308	eP	16 46 15.0	-2.1
			PMZ		1.2 0.050

GTA 95.5 310 cP 16 46 35.2 -0.7

1987 8 6
 O = 16 55 16.8 ± 0.06s
 LAT = 44.32 N ± 2.56km
 LONG = 148.39 E ± 1.81km
 DEPTH = 72 km ± 1.52km
 STATIONS USED = 37, STAND DEV = 1.51s

MDJ	13.4	278	cP	16 58 25.5	-0.4
CN2	16.5	276	cP	16 59 03.0	-2.2
BJI	24.2	271	cP	17 00 28.0	0.4
TIA	25.1	262	cP	17 00 37.3	0.8
NJ2	26.1	252	cP	17 00 47.0	1.0
TIY	27.8	269	cP	17 01 01.4	0.1
BTO	28.4	276	cP	17 01 09.0	2.1
XAN	32.0	265	cP	17 01 37.5	-1.4
LZH	34.6	272	cP	17 02 02.0	0.1
GTA	36.1	279	P	17 02 14.2	0.2
CD2	37.3	264	cP	17 02 24.7	0.1
GYA	37.9	256	P	17 02 29.6	0.1
WMQ	42.7	291	P	17 03 09.4	0.4

1987 8 6
 O = 18 39 02.5 ± 0.06s
 LAT = 22.37 S ± 3.77km
 LONG = 174.32 W ± 2.55km
 DEPTH = 36 km ± 0.87km
 STATIONS USED = 53, STAND DEV = 1.47s

$m_B = 5.5 / 1$

SSE	81.5	308	cP	18 51 21.0	2.4
			cSKS	19 01 26.0	-3.7
NJ2	83.7	308	cP	18 51 30.0	0.1
MDJ	84.0	323	-P	18 51 31.5	0.0
			cS	19 01 54.0	1.7
			SME	$m_B = 5.5$	10.0 0.40
SNY	85.9	319	cP	18 51 38.6	-1.9
CN2	85.9	321	+P	18 51 39.7	-1.0
			PMZ		3.0 0.30
WHN	86.3	305	P	18 51 42.5	-0.3
TIA	87.1	311	-P	18 51 46.1	-0.4
BJI	89.6	314	cP	18 51 58.5	-0.2
			cS	19 02 46.0	0.3
GYA	90.5	298	P	18 52 04.0	0.8
TIY	91.1	311	cP	18 52 06.0	0.3
XAN	92.0	306	+P	18 52 09.7	-0.1
HHC	93.1	313	cP	18 52 15.2	0.2
KMI	93.2	296	+P	18 52 16.5	0.7
BTO	94.1	312	cP	18 52 20.0	0.7
LZH	96.6	306	cP	18 52 31.5	0.4
GTA	100.8	308	cP	18 52 52.3	2.3

1987 8 6
 O = 19 28 20.4 ± 0.18s
 LAT = 8.91 S ± 3.07km
 LONG = 108.71 E ± 2.34km
 DEPTH = 33 km ± 0.26km
 STATIONS USED = 49, STAND DEV = 1.31s

GYA	35.2	357	P	19 35 15.8	1.7
WHN	39.6	8	cP	19 35 53.0	2.3
CD2	39.9	353	cP	19 35 54.1	1.0
SSE	41.5	16	cP	19 36 06.8	0.0
NJ2	41.9	13	cP	19 36 10.6	1.1
XAN	42.7	0	+P	19 36 16.0	-0.5
LZH	45.0	354	cP	19 36 35.5	0.5
TIY	46.5	4	cP	19 36 47.0	0.0
GTA	48.8	351	-P	19 37 05.6	0.8
DL2	49.1	13	P	19 37 06.8	0.0
BJI	49.2	8	cP	19 37 07.5	-0.3
BTO	49.3	1	cP	19 37 08.5	-0.1
CN2	54.6	15	+P	19 37 46.4	-2.2
WMQ	55.8	342	P	19 37 58.0	0.5
MDJ	56.5	18	cP	19 38 00.0	-2.4

1987 8 6
 O = 19 57 39.0 ± 0.10s
 LAT = 24.04 N ± 1.43km
 LONG = 122.48 E ± 1.20km
 DEPTH = 28 km ± 1.17km
 STATIONS USED = 51, STAND DEV = 1.68s

$M_s = 4.0 / 10, M_L = 4.0 / 8,$

QZH	3.7	285	+iPn	19 58 33.7	-0.5
			iSn	19 59 13.0	-5.1
			SMN	$M_L = 4.0$	0.7 0.40
			SME		0.5 0.32
			LN		3.0 1.42
SSE	7.1	351	Pn	19 59 23.8	1.9
			LN	$M_s = 3.7$	11.0 0.70
NJ2	8.6	339	+P	19 59 44.0	-0.8
			S	20 01 18.5	-3.1
			LN	$M_s = 4.0$	12.0 1.00
WHN	9.7	314	cP	20 00 03.0	3.0
			cS	20 01 48.5	-0.8
			LN	$M_s = 4.0$	10.0 0.70
QZN	12.8	249	cP	20 00 46.6	4.9
			cS	20 03 03.0	-1.0
GYA	14.5	283	P	20 01 04.4	-0.4
			S	20 03 39.6	-5.6
			LE	$M_s = 4.1$	10.0 0.50
DL2	14.8	357	cP	20 01 11.0	2.0
XAN	15.5	313	cP	20 01 16.1	-1.2

			LE		Ms=3.9	11.0	0.28		
TIY	16.1	330	cP	20 01	27.4	1.9		1987 8 7	
			LN		Ms=4.3	12.0	0.49	O=04 39 17.4	± 0.07s
			LE			12.0	0.48	LAT=21.87 S	± 2.94km
BJI	16.8	343	P	20 01	36.0	1.7		LONG=174.21 W	± 2.39km
CD2	18.0	297	cP	20 01	47.8	-0.9		DEPTH= 33 km	± 0.70km
KMI	18.0	278	cP	20 01	51.5	2.3		STATIONS USED = 31, STAND DEV = 1.58s	
HHC	19.1	334	cP	20 02	03.6	0.9		NJ2	83.5 308 -P 04 51 44.5 0.5
BTO	19.5	331	cP	20 02	07.0	-0.7		MDJ	83.7 323 cP 04 51 45.0 -0.1
			esP	20 02	17.0	-2.0		CN2	85.6 321 cP 04 51 53.5 -0.9
			eS	20 05	39.0	-2.7			cS 05 02 20.0 -3.0
			LN		Ms=4.4	13.0	0.70	BJI	89.4 314 cP 04 52 13.0 0.2
			LE			12.0	0.30	GYA	90.4 298 P 04 52 19.0 1.2
CN2	19.9	6	cP	20 02	10.0	-1.1		XAN	91.8 306 P 04 52 24.0 -0.2
			pP	20 02	15.0	-3.6		KMI	93.1 296 cP 04 52 31.5 1.0
			cS	20 05	46.0	-2.3			
GTA	24.5	314	cP	20 02	57.0	-0.9		1987 8 7	
								O=10 56 00.4	± 0.05s
								LAT=14.99 S	± 1.04km
								LONG=166.76 E	± 1.07km
								DEPTH= 34 km	± 0.25km
								STATIONS USED = 22, STAND DEV = 0.87s	
								WHN	67.8 312 cP 11 06 57.0 -0.4
								MDJ	68.3 332 cP 11 07 00.0 -0.7
								GYA	71.5 305 P 11 07 20.2 0.0
								BJI	72.2 321 cP 11 07 24.0 -0.2
								TIY	73.1 318 cP 11 07 30.0 -0.1
								XAN	73.5 313 P 11 07 31.2 -1.1
								GTA	82.5 314 P 11 08 21.6 -0.4
								WMQ	92.5 315 cP 11 09 10.5 -0.1
								1987 8 7	
								O=12 15 55.7	± 0.07s
								LAT=20.64 S	± 1.37km
								LONG=169.30 E	± 2.87km
								DEPTH= 34 km	± 0.45km
								STATIONS USED = 33, STAND DEV = 1.36s	
								WHN	73.3 312 cP 12 27 26.5 0.0
								MDJ	74.4 332 cP 12 27 32.2 -0.5
								CN2	75.7 329 cP 12 27 38.8 -1.4
								GYA	76.7 305 P 12 27 46.2 0.3
								BJI	78.1 321 cP 12 27 53.0 -0.5
								KMI	79.1 302 cP 12 28 00.0 0.7
								XAN	79.1 313 P 12 27 59.0 -0.3
								HHC	81.3 320 cP 12 28 11.4 0.2
								BTO	82.1 319 cP 12 28 14.0 -1.4
								LZII	83.7 312 cP 12 28 24.5 0.9
								GTA	88.1 313 P 12 28 44.6 -0.7
								1987 8 7	

O = 12 53 38.0 ± 0.08s								
LAT = 7.17 S ± 0.59km								
LONG = 129.13 E ± 0.15km								
DEPTH = 197 km ± 0.94km								
STATIONS USED = 36, STAND DEV = 0.72s								
QZN	32.2	324	eP	12 59 50.4	0.2			
GYA	39.9	328	P	13 00 55.4	0.6			
			PcP	13 02 59.0	2.7			
WHN	40.1	340	eP	13 00 57.5	1.4			
XAN	45.2	336	eP	13 01 37.0	-0.8			
			PcP	13 03 16.0	1.9			
TIY	47.3	342	eP	13 01 53.7	-0.2			
BJI	48.5	347	eP	13 02 02.5	-0.4			
CN2	50.8	357	eP	13 02 19.8	-1.1			
GTA	53.7	332	+iP	13 02 42.4	0.1			
			PcP	13 03 47.2	2.1			
WMQ	63.1	327	P	13 03 47.5	0.5			
1987 8 7								
O = 20 32 57.0 ± 0.15s								
LAT = 0.04 S ± 1.42km								
LONG = 123.25 E ± 1.14km								
DEPTH = 174 km ± 1.64km								
STATIONS USED = 77, STAND DEV = 1.31s								
QZN	23.1	326	P	20 37 50.4	2.2			
			eS	20 41 48.0	5.0			
			eSS	20 42 52.0	6.5			
GZH	24.9	338	+P	20 38 07.3	1.5			
			sP	20 38 58.0	-2.8			
			eS	20 42 17.0	2.8			
QZH	25.2	350	+P	20 38 09.0	0.3			
			pP	20 38 42.5	-0.8			
			eS	20 42 21.0	1.6			
GYA	30.8	330	P	20 38 59.4	0.4			
			pP	20 39 33.0	-1.7			
			PcP	20 41 52.0	0.8			
			S	20 43 52.0	4.2			
			ScP	20 45 18.4	2.4			
			ScS	20 49 14.6	2.9			
			SSE	31.0	357	eP	20 39 01.8	1.0
WHN	31.6	345	PMZ		1.5 0.060			
			cpP	20 39 34.0	-2.6			
			eS	20 43 56.0	4.1			
			eP	20 39 06.5	1.0			
			PMZ		1.5 0.080			
KMI	31.9	323	eP	20 39 09.5	0.7			
			NJ2	32.2	353	+P	20 39 10.6	-0.3
			pP	20 39 45.0	-1.9			

CD2	35.9	331	eP	20 39 42.3	-0.3			
XAN	36.5	340	P	20 39 47.0	-0.3			
			PMZ		1.2 0.090			
TIY	38.9	346	cpP	20 40 21.0	-3.1			
			sP	20 40 40.0	-4.1			
			PP	20 41 16.0	1.7			
			S	20 45 17.0	1.9			
			-P	20 40 07.4	0.0			
LZH	40.2	335	pP	20 40 41.5	-3.0			
			cPP	20 41 48.0	5.3			
			eS	20 45 52.0	-0.5			
			eP	20 40 20.0	1.4			
			PMZ		1.5 0.24			
BJI	40.4	352	pP	20 40 53.0	-2.7			
			PP	20 41 59.5	2.5			
			ScP	20 45 53.5	3.5			
			P	20 40 19.0	-0.9			
			pP	20 40 54.0	-3.3			
SNY	41.7	0	PcP	20 42 19.0	-0.6			
			ScP	20 45 53.5	2.7			
			eP	20 40 29.0	-1.3			
			HHC	42.1	347	eP	20 40 32.6	-1.0
			BTO	42.2	345	P	20 40 34.5	-0.2
GTA	44.7	334	cpP	20 41 09.0	-3.1			
			cPP	20 42 15.0	-2.3			
			eS	20 46 42.0	0.3			
			CN2	43.7	2	eP	20 40 44.4	-2.2
			PcP	20 42 30.0	-0.5			
MDJ	44.8	6	+P	20 40 55.0	-0.1			
			PMZ		2.0 0.25			
			ipP	20 41 30.8	-1.9			
			PcP	20 42 34.4	0.4			
			ScP	20 46 10.8	2.7			
WMQ	53.9	329	PcS	20 46 26.6	0.6			
			S	20 47 19.6	2.4			
			ScS	20 50 32.0	1.3			
			+P	20 40 54.7	-1.0			
			PcP	20 42 40.0	5.7			
KSH	58.3	318	ScS	20 42 04.3	-1.0			
			PMZ		2.0 0.070			
			pP	20 42 42.0	-2.3			
			PcP	20 43 08.3	0.7			
			PP	20 44 13.0	3.3			
KMI	31.9	323	ScP	20 46 50.2	3.1			
			P	20 42 37.5	0.8			
NJ2	32.2	353	pP	20 43 13.0	-3.2			
1987 8 8								
O = 05 11 11.2 ± 0.10s								
LAT = 40.10 N ± 0.91km								

LONG = 112.16 E ± 0.82km					GZH	86.1	303	cP	08 00 39.0	-1.9		
DEPTH = 12 km ± 0.43km					SSE	86.8	313	cP	08 00 46.0	1.6		
STATIONS USED = 18, STAND DEV = 2.86s								eSKS	08 11 06.0	1.1		
M _L = 3.7 / 16,								LN		Ms = 5.6	20.0	1.39
HHC	0.9	329	+iPg	05 11 26.6	-0.4							
			Sg	05 11 37.2	-1.7							
			SMN		M _L = 3.2	0.4	0.66					
			SME			0.6	0.77					
BTO	1.7	288	Pg	05 11 41.2	-0.5							
			Sg	05 12 04.0	-0.9							
			SMN		M _L = 3.6	0.4	0.87					
			SME			0.4	0.52					
TIY	2.4	175	(Pn)	05 11 47.0	-3.7							
			Pg	05 11 54.0	0.5							
			Sg	05 12 24.0	-2.2							
			SMN		M _L = 4.1	1.0	1.31					
			SME			1.0	0.99					
BJI	3.1	90	cPn	05 12 00.0	-0.1							
			Pg	05 12 05.0	-0.7							
			cSn	05 12 39.5	0.7							
			cSg	05 12 44.5	-3.4							
			SMN		M _L = 3.5	0.5	0.19					
			SME			0.5	0.13					
TIA	5.5	133	cPn	05 12 35.4	1.9							
			Pg	05 12 53.8	5.3							
			Sg	05 14 00.0	-3.9							
			SMN		M _L = 3.2	0.6	0.020					
			SME			0.8	0.020					
XAN	6.6	204	-Pn	05 12 50.2	2.0							
			Sn	05 14 03.5	-1.9							
			SMN		M _L = 3.9	1.2	0.090					
			SME			1.0	0.040					
GTA	9.5	270	c(P)	05 13 27.0	-4.7							

1987 8 8
O = 07 48 01.3 ± 0.19s
LAT = 37.10 S ± 3.50km
LONG = 179.15 E ± 4.01km
DEPTH = 34 km ± 0.99km
STATIONS USED = 44, STAND DEV = 2.21s
M_s = 5.4 / 9, m_B = 5.8 / 3

QZH	84.0	307	+P	08 00 34.5	4.2		
			S	08 10 54.0	4.7		
			SMN		m _B = 5.7	7.0	0.42
			LE		Ms = 5.3	22.0	0.91
QZN	85.8	297	cP	08 00 40.0	0.5		
			sP	08 00 58.0	4.6		
			S	08 11 11.0	3.5		
			sS	08 11 32.5	6.8		
			LE		Ms = 5.6	17.0	1.20

1987 8 8
O = 09 35 07.9 ± 0.13s
LAT = 39.17 N ± 1.33km
LONG = 118.04 E ± 1.20km
DEPTH = 9 km ± 0.10km
STATIONS USED = 25, STAND DEV = 2.91s
M_L = 3.9 / 20,

BJI	1.7	302	Pn	09 35 35.0	-2.9		
			Pg	09 35 36.0	-1.7		
			Sg	09 35 55.0	-5.7		
			SMN		M _L = 4.5	0.5	5.70
			SME			0.5	4.70
DL2	2.8	94	Pg	09 35 56.0	-1.5		
			Sg	09 36 29.0	-6.9		
			SMN		M _L = 3.6	0.5	0.27
			SME			0.5	0.26
TIA	3.0	194	cPn	09 35 58.7	2.1		
			Pg	09 36 06.3	4.7		

			Sn	09 36 35.5	0.5			DL2	157.7	336	-PKP	16 08 46.0	-0.3			
			Sg	09 36 45.7	2.5						PP	16 12 57.0	-3.5			
			SMN	$M_L = 3.8$	0.4	0.28					LN	$M_s = 7.1$	27.0	26.9		
			SME		0.5	0.46					LE		23.0	12.2		
TIY	4.6	253	+Pn	09 36 22.0	3.4			GTA	157.7	21	-iPKP	16 08 46.7	0.1			
			Pg	09 36 31.6	1.9						PP	16 13 07.5	6.4			
			Sn	09 37 14.6	0.1						SKKS	16 19 41.0				
			Sg	09 37 28.2	-4.9						SS	16 32 52.0	1.8			
			SMN	$M_L = 4.4$	1.5	0.60					LN	$M_s = 7.2$	19.0	12.9		
			SME		1.5	0.58					LE		20.0	22.2		
SNY	5.0	56	+Pg	09 36 39.5	3.5			HHC	158.1	357	PKP	16 08 48.0	1.0			
			Sg	09 37 46.5	2.3						PKP ₂	16 09 20.0				
			SMN	$M_L = 4.2$	1.2	0.28					PP	16 13 00.0	-3.0			
			SME		1.2	0.25					SS	16 32 53.0	-0.9			
HHC	5.2	291	Pg	09 36 40.6	-0.2						LN	$M_s = 7.4$	28.0	54.3		
			Sg	09 37 50.0	-2.3						LE		24.0	35.5		
			SMN	$M_L = 4.0$	0.8	0.090		BJI	158.3	347	cPKP	16 08 47.0	-0.1			
			SME		0.8	0.23					PKP ₂	16 09 28.0				
BTO	6.3	286	cPg	09 37 00.0	0.0						cPP	16 13 00.0	-3.9			
			cSg	09 38 21.8	-4.5						LN	$M_s = 7.3$	20.0	10.5		
			SMN	$M_L = 3.7$	0.6	0.060					LE		22.0	33.6		
			SME		0.6	0.040		BTO	158.4	360	iPKP	16 08 47.0	-0.4			
CN2	7.2	48	-Pg	09 37 19.4	3.7						PKP ₂	16 09 27.0				
			SMN	$M_L = 4.2$	1.0	0.11					PP	16 13 08.0	3.5			
			SME		1.0	0.090					SKKS	16 19 46.0				
WHN	9.1	201	P	09 37 20.2	-2.7						SS	16 33 04.0	6.9			
											LN	$M_s = 7.4$	24.0	30.7		
											LE		25.0	41.8		
1987 8 8																
O = 15 48 56.1 ± 0.44s																
LAT = 18.90 S ± 2.36km																
LONG = 70.01 W ± 1.03km																
DEPTH = 59 km ± 3.65km																
STATIONS USED = 95, STAND DEV = 1.43s																
$M_s = 7.3 / 20,$																
KSH	144.2	48	PKP	16 08 27.0	0.8						TIY	161.1	354	-iPKP	16 08 51.5	1.2
			LE	$M_s = 7.5$	23.0	68.2					PKP ₂	16 09 32.0				
WMQ	148.9	32	PKP	16 08 34.5	0.5						PP	16 13 17.0	-2.2			
			sPKP	16 08 49.0							SS	16 33 19.0	-6.4			
			SKKS	16 19 00.0							LN	$M_s = 7.3$	24.0	41.9		
MDJ	149.6	332	ePKP	16 08 34.2	-0.8			TIA	161.6	341	-PKP	16 08 51.1	0.3			
			PKP ₂	16 08 43.0							PKP ₂	16 09 34.0				
			PP	16 12 10.0	-5.0						PP	16 13 17.5	-4.2			
			SKS	16 15 31.0	-2.6						SKKS	16 19 51.5				
			SKKS	16 18 48.0							LN	$M_s = 7.2$	25.0	34.1		
CN2	152.0	336	-iPKP	16 08 37.0	-1.7			LZH	162.0	16	-iPKP	16 08 52.5	1.2			
			PP	16 12 26.0	-2.4						SKKS	16 20 00.0				
			SKS	16 15 31.0	-2.6						LN	$M_s = 7.4$	20.0	8.02		
			SKKS	16 18 48.0							LE		25.0	58.1		
SNY	154.4	336	-iPKP	16 08 42.0	0.0			SSE	164.2	322	-iPKP	16 08 53.0	-0.3			
			PP	16 12 36.0	-6.5						PKP ₂	16 09 46.0				
			LN	$M_s = 7.1$	26.0	27.0					PKS	16 12 27.0				
			LE		27.0	16.7					PP	16 13 34.0	-1.5			
											cSKS	16 15 46.0	-2.3			
											SKKS	16 20 14.0				
											SS	16 34 03.0	5.1			
											LN	$M_s = 7.3$	23.0	23.8		

WHN	24.7	253	P	06 42 42.0	-1.3
XAN	27.1	265	cP	06 43 03.8	-1.5
GTA	32.0	281	P	06 43 48.6	-0.8
WMQ	39.5	293	P	06 44 54.6	1.6

1987 8 9

O = 06 44 31.8 ± 0.14s
 LAT = 7.91 N ± 2.01km
 LONG = 125.99 E ± 3.18km
 DEPTH = 10 km ± 0.09km
 STATIONS USED = 36, STAND DEV = 1.69s

Ms = 4.2 / 3,

QZN	19.2	307	cP	06 48 58.6	0.1
			eS	06 52 29.0	-0.2
GZH	19.4	323	cP	06 49 02.0	1.4
			eS	06 52 34.0	0.6
SSE	23.5	350	cP	06 49 43.7	0.6
			eS	06 53 56.0	2.8
			eSS	06 54 41.0	1.5
WHN	25.0	336	cP	06 49 58.0	0.2
GYA	26.0	317	P	06 50 09.0	1.6
XAN	30.4	331	cP	06 50 47.1	0.2
BJI	33.2	346	P	06 51 09.5	-1.7
LZH	34.6	327	cP	06 51 23.5	0.0
			PMZ		2.0 0.030
HHC	35.2	341	cP	06 51 28.0	-1.0
BTO	35.5	339	cP	06 51 31.4	-0.2
GTA	39.2	327	cP	06 52 03.2	0.9
			LN	Ms = 4.5	19.0 0.43
WMQ	48.9	323	P	06 53 22.5	1.9

1987 8 9

O = 08 17 50.6 ± 0.09s
 LAT = 0.57 N ± 1.06km
 LONG = 126.14 E ± 1.59km
 DEPTH = 52 km ± 0.60km
 STATIONS USED = 71, STAND DEV = 1.11s

Ms = 4.4 / 9,

m_B = 5.4 / 1

QZN	24.3	320	cP	08 23 03.5	-1.5
			eS	08 27 19.0	1.4
			LN	Ms = 4.5	15.0 0.70
QZH	25.3	344	cP	08 23 16.0	1.7
			eS	08 27 38.0	4.0
			LN	Ms = 4.3	18.0 0.50
GZH	25.6	332	cP	08 23 17.5	0.4
SSE	30.7	352	cP	08 24 04.0	0.6
			eS	08 29 02.0	1.0
GYA	31.8	325	P	08 24 13.6	0.2
			PcP	08 27 04.0	1.6
WHN	31.8	340	cP	08 24 15.0	1.7

			LN	Ms = 4.4	9.0 0.24
NJ2	32.1	348	cP	08 24 16.0	0.8
TIA	36.4	348	cP	08 24 51.8	-0.9
XAN	37.0	336	P	08 24 55.8	-1.7
			pP	08 25 12.5	2.4
			PcP	08 27 19.0	1.9
DL2	38.4	354	cP	08 25 10.0	1.1
TIY	39.1	343	cP	08 25 14.0	-0.7
			LN	Ms = 4.5	19.0 0.42
BJI	40.3	348	cP	08 25 25.5	0.4
LZH	41.0	332	cP	08 25 30.5	-0.1
			PMZ		1.0 0.060
SNY	41.1	357	+P	08 25 32.4	0.6
HHC	42.2	343	cP	08 25 41.4	0.5
CN2	43.0	359	cP	08 25 47.0	-0.5
			eS	08 32 08.0	-1.0
MDJ	44.0	4	+P	08 25 55.3	0.3
GTA	45.5	331	P	08 26 07.4	-0.2
			PcP	08 27 46.7	1.7
			ScS	08 35 59.0	3.7
			LN	Ms = 4.6	15.0 0.28
			LE		13.0 0.18
KSH	59.9	317	P	08 27 55.0	1.0

1987 8 9

O = 08 24 21.7 ± 0.23s
 LAT = 34.92 S ± 7.85km
 LONG = 103.32 W ± 5.19km
 DEPTH = 2 km ± 1.08km
 STATIONS USED = 21, STAND DEV = 4.74s

TIA	147.2	284	cPKP	08 44 01.4	-4.2
WHN	148.1	273	cPKP	08 44 09.5	2.5
BJI	148.4	291	PKP	08 44 04.5	-3.0
TIY	151.2	286	PKP	08 44 18.0	6.1
GYA	152.9	260	PKP	08 44 18.4	3.9

1987 8 9

O = 09 13 08.0 ± 0.10s
 LAT = 13.45 N ± 1.31km
 LONG = 124.21 E ± 2.23km
 DEPTH = 70 km ± 0.29km
 STATIONS USED = 49, STAND DEV = 1.40s

SSE	17.8	351	cP	09 17 11.5	-0.9
			sP	09 17 36.0	1.4
			eS	09 20 22.0	-3.7
			esS	09 20 44.0	-4.7
WHN	19.3	333	cP	09 17 30.5	0.5
			pP	09 17 46.5	3.4
GYA	20.9	311	P	09 17 47.0	-0.4
			pP	09 18 03.6	1.0

		S	09 21 30.0	-1.0
KMI	23.3	303 -P	09 18 11.5	0.5
TIA	23.5	346 cP	09 18 13.9	0.9
XAN	24.8	328 -P	09 18 24.0	-0.8
		pP	09 18 40.5	-0.1
		sP	09 18 49.7	0.3
TIY	26.3	339 cP	09 18 40.0	0.3
BJI	27.4	347 P	09 18 49.5	0.1
SNY	28.3	359 cP	09 18 57.4	0.2
LZH	29.0	324 c(P)	09 19 00.0	-4.1
HHC	29.5	340 cP	09 19 08.2	0.4
BTO	29.8	338 cP	09 19 11.0	0.4
GTA	33.6	325 P	09 19 43.6	-0.9
		pP	09 20 01.0	0.0

1987 8 9

O=14 35 05.2 ± 0.06s
 LAT=40.17 N ± 0.59km
 LONG=112.19 E ± 0.51km
 DEPTH= 18 km ± 0.06km
 STATIONS USED = 17, STAND DEV= 2.37s

$M_L=3.3/15,$

HHC	0.8	325 +iPg	14 35 20.0	-0.3		
		Sg	14 35 31.2	-0.5		
		SMN	$M_L=2.8$	0.6	0.25	
		SME		0.6	0.29	
BTO	1.7	285 Pg	14 35 34.8	-1.0		
		Sg	14 35 57.0	-2.2		
		SMN	$M_L=3.0$	0.4	0.16	
		SME		0.4	0.15	
TIY	2.5	176 cPg	14 35 46.6	-2.4		
		Sg	14 36 19.1	-3.5		
		SMN	$M_L=3.6$	0.5	0.33	
		SME		0.5	0.33	
BJI	3.1	91 Pg	14 35 58.5	-0.8		
		Sg	14 36 37.5	-3.6		
		SMN	$M_L=4.0$	0.5	0.52	
		SME		0.5	0.55	
TIA	5.5	134 cPg	14 36 44.6	1.3		
		SMN	$M_L=2.9$	0.6	0.010	
		SME		0.6	0.010	
XAN	6.7	204 cPn	14 36 43.9	1.2		
		cSn	14 37 56.5	-3.8		
		SMN	$M_L=3.3$	0.8	0.010	
		SME		1.0	0.020	
LZH	7.7	241 cPg	14 37 28.5	6.3		
GTA	9.6	269 cP	14 37 24.2	-1.3		
		SMN		1.0	0.010	

1987 8 9

O=15 06 27.1 ± 0.08s
 LAT= 2.28 N ± 1.18km
 LONG=126.66 E ± 1.90km
 DEPTH= 32 km ± 0.05km
 STATIONS USED = 10, STAND DEV= 1.49s

TIY	37.6	341 cP	15 13 40.8	-0.3
BJI	38.8	347 P	15 13 50.5	-0.2
GTA	44.3	330 cP	15 14 36.0	-0.3

1987 8 9

O=15 32 07.0 ± 0.15s
 LAT=10.13 N ± 0.85km
 LONG= 74.28 W ± 0.98km
 DEPTH= 48 km ± 1.32km
 STATIONS USED = 22, STAND DEV= 1.71s

BJI	129.2	350 PKP	15 51 12.5	1.6
GTA	130.4	6 cPKP	15 51 14.6	1.1
GYA	143.6	359 PKP	15 51 38.0	0.5

1987 8 9

O=21 14 59.6 ± 0.07s
 LAT=29.50 N ± 1.17km
 LONG= 83.69 E ± 1.09km
 DEPTH= 47 km ± 0.43km
 STATIONS USED = 95, STAND DEV= 1.13s
 $M_s=5.3/43, M_L=5.8/1, m_B=5.8/25$

KSH	11.8	329 +iP	21 17 47.0	-1.2		
		S	21 19 53.0	-5.1		
		LE	$M_s=5.4$	11.0	14.4	
WMQ	14.6	12 -iP	21 18 25.6	-0.2		
		PMZ		1.5	0.22	
		pP	21 18 33.5	-0.9		
		S	21 21 02.0	-4.2		
		SME	$m_B=5.7$	9.0	4.35	
		ScS	21 30 39.5	-1.8		
		LE	$M_s=5.3$	10.0	7.12	
GTA	16.5	49 -iP	21 18 48.0	-2.2		
		PMZ	$m_B=6.1$	3.5	2.90	
		S	21 21 54.0	3.6		
		SME	$m_B=5.6$	5.5	1.41	
		PcP	21 23 35.3	-4.0		
		ScP	21 27 06.5	-1.9		
		ScS	21 30 45.0	-1.5		
		LN	$M_s=5.1$	10.0	2.71	
		LE		11.0	3.00	
KMI	17.5	100 +P	21 19 00.5	-1.4		
		S	21 22 16.0	4.4		
		LN	$M_s=5.0$	11.0	3.00	
LZH	18.2	64 cP	21 19 08.0	-2.3		
		PMZ		2.5	0.95	

PP	21	23	56.0	-2.1			
1987 8 9							
O=23 10 41.8	±	0.08s					
LAT=35.71 N	±	1.06km					
LONG=135.77 E	±	0.54km					
DEPTH=359 km	±	1.24km					
STATIONS USED = 41, STAND DEV = 1.17s							
m _B = 4.8 / 4							
MDJ	10.1	334	+iP	23 13 03.2	1.5		
SNY	11.3	306	+iP	23 13 18.0	1.6		
			iS	23 15 25.3	6.4		
			SMN	m _B = 4.6	7.0	0.53	
			SME		5.0	0.80	
CN2	11.3	319	+iP	23 13 18.0	1.3		
			PMZ		2.0	5.00	
			cS	23 15 23.0	3.6		
			SMN	m _B = 4.4	4.0	0.30	
			SME		4.0	0.30	
SSE	13.0	253	cP	23 13 35.5	-1.3		
			cS	23 15 56.0	0.2		
BJI	16.1	291	eP	23 14 08.5	-1.4		
WHN	18.7	260	P	23 14 37.0	0.8		
TIY	18.8	283	cP	23 14 38.0	0.1		
			SMN	m _B = 4.9	4.0	0.47	
XAN	22.1	274	P	23 15 09.5	0.0		
LZH	25.8	280	cP	23 15 45.0	1.2		
GYA	26.5	258	P	23 15 48.8	-1.2		
GTA	28.6	288	P	23 16 09.0	0.1		

1987 8 10							
O=04 34 45.0	±	0.30s					
LAT=15.88 S	±	4.51km					
LONG=178.63 W	±	4.26km					
DEPTH=33 km	±	0.83km					
STATIONS USED = 49, STAND DEV = 2.40s							
M _s = 5.1 / 5, m _B = 5.5 / 2							
QZH	73.4	303	eP	04 46 18.0	1.6		
			SMN	m _B = 5.5	12.0	0.48	
MDJ	76.4	325	cP	04 46 36.0	2.3		
			eS	04 56 10.0	-6.0		
NJ2	76.5	309	eP	04 46 32.0	-2.2		
CN2	78.3	322	cP	04 46 42.0	-2.2		
			cS	04 56 30.0	-6.3		
SNY	78.3	320	cP	04 46 42.2	-2.0		
QZN	78.4	294	cP	04 46 47.0	2.0		
			cS	04 56 38.0	0.1		
WHN	79.2	306	cP	04 46 48.5	-0.9		
			S	04 56 49.0	4.3		
			LN	M _s = 4.9	12.0	0.20	

TIA	79.7	312	eP	04 46 51.1	-1.0		
BJI	82.2	315	cP	04 47 05.5	0.5		
			eS	04 57 24.0	6.9		
			LN	M _s = 5.1	13.0	0.37	
TIY	83.8	312	cP	04 47 12.0	-1.1		
			SME	m _B = 5.4	11.0	0.37	
			LN	M _s = 4.7	16.0	0.17	
GYA	83.9	300	P	04 47 18.4	4.8		
HHC	85.7	314	cP	04 47 24.0	1.1		
BTO	86.7	314	P	04 47 28.5	0.9		
			cS	04 57 59.0	-2.5		
KMI	86.7	297	cP	04 47 30.5	2.6		
CD2	87.8	303	cP	04 47 35.2	2.3		
1987 8 10							
O=05 21 58.6	±	0.17s					
LAT=0.07 S	±	1.47km					
LONG=122.96 E	±	1.46km					
DEPTH=179 km	±	1.64km					
STATIONS USED = 65, STAND DEV = 1.56s							
m _B = 5.3 / 4							
QZN	22.9	327	eP	05 26 49.4	1.2		
			cS	05 30 43.5	1.9		
			SS	05 31 49.5	5.2		
GZH	24.8	339	cP	05 27 06.5	0.2		
			cS	05 31 19.0	5.3		
			SMN	m _B = 5.4	6.0	1.08	
GYA	30.7	330	P	05 28 00.2	1.0		
			pP	05 28 35.0	-0.7		
			PcP	05 30 53.8	1.7		
			S	05 32 51.2	4.4		
			ScP	05 34 18.0	1.7		
			ScS	05 38 13.0	1.2		
WHN	31.5	346	P	05 28 08.0	1.7		
			pP	05 28 44.0	1.0		
			PP	05 29 20.0	3.1		
			S	05 33 00.0	0.2		
			LN		10.0	0.40	
KMI	31.8	323	cP	05 28 10.0	1.2		
NJ2	32.2	353	-P	05 28 13.0	1.0		
			pP	05 28 49.5	0.6		
CD2	35.8	331	cP	05 28 37.4	-5.5		
			S	05 34 06.0	0.2		
XAN	36.4	340	cP	05 28 48.0	0.1		
			pP	05 29 23.5	-2.1		
			PP	05 30 08.0	-6.7		
			S	05 34 16.0	1.2		
TIY	38.8	347	cP	05 29 08.5	0.2		
			LE		13.0	0.39	
LZH	40.1	336	+iP	05 29 20.5	1.5		



GYA	27.4	320	+P	10 03 31.6	0.2				iS	10 10 08.0	1.0		
			pP	10 04 14.0	1.8				SMN	$m_B = 5.4$	8.0	1.02	
			PcP	10 06 45.6	1.2				sS	10 11 15.0	-6.7		
			S	10 07 58.0	3.8			LZH	36.2	329	+iP	10 04 48.5	1.0
			ScP	10 10 07.8	4.0				PMZ			1.0	0.73
			ScS	10 13 58.0	3.6				pP	10 05 30.5	0.4		
KMI	29.2	313	+P	10 03 48.0	0.5				PcP	10 07 08.5	0.4		
			PMZ	$m_B = 5.9$	4.0	1.00			cS	10 10 11.0	-1.2		
			pP	10 04 28.0	-0.5				SME	$m_B = 5.5$	6.0	1.01	
			S	10 08 26.0	3.3				sS	10 11 27.0	0.4		
TIA	31.2	346	+P	10 04 04.1	-1.0			HHC	37.1	342	+P	10 04 55.6	0.5
			PcP	10 06 55.8	1.7			BTO	37.3	340	P	10 04 56.0	-1.3
			S	10 08 54.5	0.0				pP	10 05 40.0	-0.1		
			SMN	$m_B = 4.9$	11.0	0.85			cS	10 10 27.0	-2.8		
			sS	10 10 03.0	-6.0				LE			15.0	1.10
			LN			11.0	0.90	CN2	37.8	360	+P	10 05 01.0	0.2
XAN	32.1	333	+iP	10 04 11.5	-1.1				sP	10 06 07.0	-0.1		
			PMZ			1.0	0.26		PcP	10 07 11.5	-1.5		
			pP	10 04 56.0	1.5				cS	10 10 35.0	-1.1		
			sP	10 05 12.5	-5.6				SMN	$m_B = 5.5$	7.0	0.90	
			PcP	10 06 57.4	1.0				ScP	10 10 44.0	4.7		
			S	10 09 07.0	-0.8			MDJ	38.7	4	+iP	10 05 05.8	-3.0
			SME	$m_B = 5.4$	5.0	1.05			pP	10 05 55.0	3.1		
			sS	10 10 21.0	-1.8				sP	10 06 12.0	-3.2		
			SS	10 11 20.0	2.7				iS	10 10 53.0	2.4		
			LE			10.0	0.46		sS	10 12 10.0	3.9		
CD2	32.4	323	+iP	10 04 14.6	-0.3				SMN	$m_B = 5.7$	8.0	1.60	
			PMZ			1.0	0.51		SS	10 13 44.0	2.7		
			sP	10 05 15.0	-5.5			GTA	40.8	329	+iP	10 05 25.8	0.2
			S	10 09 12.0	-0.1				pP	10 06 09.4	0.5		
			sS	10 10 27.0	-0.1				PcP	10 07 24.0	1.5		
			LE			10.0	2.17		ScP	10 10 55.1	4.2		
DL2	33.1	354	+iP	10 04 22.0	0.7				sS	10 12 34.0	-2.8		
			sP	10 05 23.0	-4.0				ScS	10 15 08.2	3.1		
			cS	10 09 24.0	-0.5				LN			14.0	0.82
			LE			14.0	1.84		LE			9.0	0.78
TIY	33.9	341	+iP	10 04 28.3	-0.2			WMQ	50.4	325	+iP	10 06 41.0	-0.4
			PMZ			1.0	0.11		PMZ			2.0	0.21
			pP	10 05 12.5	1.7				pP	10 07 22.5	-3.9		
			sP	10 05 29.0	-5.3				ScP	10 11 35.0	4.4		
			S	10 09 38.0	1.3				S	10 13 40.0	3.2		
			sS	10 10 49.0	-2.9				LN			20.0	2.28
			LN			13.0	0.95	KSH	55.8	314	+iP	10 07 22.0	0.9
BJI	35.1	347	+iP	10 04 37.5	-0.8				pP	10 08 07.0	0.2		
			PMZ			1.5	0.55		PP	10 09 28.0	-0.7		
			S	10 09 54.5	0.1				cS	10 14 57.0	6.0		
			SMN			1.0	0.28		LE			12.0	0.80
			ScS	10 14 39.0	6.4								
			LN			11.0	0.59						
SNY	35.9	357	+iP	10 04 45.0	0.3								

1987 8 10
O = 10 10 41.9 ± 0.09s

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LAT=19.59 N ± 1.03km LONG=121.03 E ± 1.35km DEPTH= 30 km ± 0.23km STATIONS USED = 20, STAND DEV = 1.60s M _L =3.9 / 6,					SME m _B =5.5 8.0 1.81						
QZH	5.8	337	cP	10 12 06.5	-1.5	CD2	34.4	78	sS	11 05 04.0	0.7
			S	10 13 08.0	-6.0				cP	10 58 52.6	-0.3
			SMN	M _L =3.6	0.3 0.040				S	11 04 08.4	1.3
			SME		0.3 0.060				LN		11.0 6.17
GZH	8.0	297	P	10 12 38.0	-0.5	KMI	34.8	88	-iP	10 58 56.0	-0.3
			S	10 14 01.5	-6.8				pP	10 59 29.0	-2.1
			SMN	M _L =4.6	1.0 0.18				sP	10 59 47.0	-3.2
			SME		1.0 0.14				iS	11 04 16.0	1.7
QZN	10.6	269	cP	10 13 14.8	0.1				SME	m _B =5.7	7.0 2.50
			cS	10 15 09.5	-3.8				sS	11 05 19.0	4.1
TIA	16.9	349	cP	10 14 40.1	1.9	GYA	37.8	84	-P	10 59 21.2	-0.6
CD2	19.2	309	cP	10 15 08.8	2.0				sP	11 00 13.0	-3.0
BJI	20.8	349	cP	10 15 24.0	0.5				S	11 05 00.0	0.7
									SMN	m _B =6.0	8.0 1.90
									SME		8.0 2.80
									ScP	11 05 07.0	2.0
									ScS	11 09 15.0	1.9
									LN		11.0 4.50
									LE		11.0 1.60
						XAN	38.3	72	-iP	10 59 25.2	-0.7
									PMZ	m _B =6.0	5.0 2.00
									pP	10 59 58.0	-3.3
									sP	11 00 15.5	-4.7
									S	11 05 05.0	-1.9
									SME	m _B =5.7	7.0 1.23
									SS	11 07 52.0	-1.8
									LN		12.0 2.05
									LE		14.0 1.37
						BTO	38.9	61	-iP	10 59 31.0	0.2
									pP	11 00 06.0	-0.2
									sP	11 00 23.0	-2.1
									S	11 05 19.0	3.5
									sS	11 06 20.0	1.4
									SS	11 08 12.0	6.0
									LE		11.0 1.20
						HHC	40.1	61	-iP	10 59 42.0	1.5
									PMZ	m _B =6.1	4.0 1.77
									pP	11 00 13.0	-3.0
									sP	11 00 31.0	-3.9
									S	11 05 40.0	6.9
									SME	m _B =5.8	7.0 1.52
						TIY	40.8	66	-iP	10 59 46.6	-0.1
									PMZ		1.0 0.44
									pP	11 00 19.5	-2.8
									sP	11 00 38.5	-2.7
									PP	11 01 31.0	5.1
									PcP	11 01 46.0	1.7
									PcS	11 05 35.0	1.3
									S	11 05 49.5	5.1

<p>O = 12 20 43.1 ± 0.18s LAT = 33.47 N ± 1.03km LONG = 120.85 E ± 2.35km DEPTH = 10 km STATIONS USED = 7, STAND DEV = 2.94s M_L = 3.6 / 7,</p>				<p>SMN M_L = 4.5 0.8 0.59 SME 0.4 0.59</p>							
SSE	2.4	173	Pn	12 21 22.6	0.0	GTA	5.4	287	Pn	12 28 05.8	-1.5
			Sn	12 21 56.0	2.2				Sn	12 29 04.5	-6.5
			S*	12 21 58.0	3.4				SMN	M _L = 4.2	0.8 0.23
			SMN	M _L = 3.5	0.8 0.17				SME		0.6 0.21
			SME		1.0 0.40	CD2	7.4	198	cPn	12 28 39.1	3.3
TIA	4.1	313	cPn	12 21 48.0	1.6	BJI	7.8	72	cPg	12 29 09.5	4.3
			S*	12 22 45.8	2.0	WHN	9.9	136	cP	12 29 10.5	-2.2
			SMN	M _L = 3.7	1.0 0.11	GYA	11.5	179	P	12 29 33.4	-1.6
			SME		1.0 0.16				pP	12 29 36.0	-3.4
				<p>1987 8 10 O = 12 46 36.0 ± 0.11s LAT = 38.04 N ± 1.29km LONG = 106.44 E ± 1.16km DEPTH = 10 km ± 0.10km STATIONS USED = 41, STAND DEV = 2.49s M_s = 4.3 / 7, M_L = 4.4 / 14,</p>							
LZH	2.8	228	Pn	12 27 37.5	4.8	LZH	2.8	228	Pn	12 47 24.5	2.5
			Pg	12 27 39.5	2.6				Pg	12 47 28.0	1.8
			Sn	12 28 12.0	3.3				Sn	12 48 00.0	1.9
			Sg	12 28 13.0	-2.8				Sg	12 48 03.5	-1.6
			SMN	M _L = 4.4	0.5 1.57				SMN	M _L = 4.5	1.5 2.65
			SME		1.0 1.60				SME		1.0 1.53
BTO	3.8	46	Pn	12 27 45.4	-0.1	BTO	3.8	46	Pn	12 47 37.0	2.3
			Pg	12 27 54.9	1.5				Pg	12 47 44.0	1.4
			Sg	12 28 44.2	-0.9				Sg	12 48 32.1	-2.1
			SMN	M _L = 4.3	0.4 1.16				SMN	M _L = 4.5	0.4 1.48
			SME		0.4 0.34				SME		0.4 0.68
XAN	4.5	152	Pn	12 27 57.6	2.8	XAN	4.5	153	Pn	12 47 46.0	1.8
			Pg	12 28 10.2	4.7				Pg	12 47 58.0	3.2
			Sn	12 28 47.7	-1.1				Sn	12 48 35.5	-2.7
			Sg	12 29 05.4	-1.2				Sg	12 48 53.0	-2.9
			SMN	M _L = 4.1	0.6 0.30				SMN	M _L = 4.2	0.8 0.39
			SME		0.8 0.25				SME		1.0 0.32
TIY	4.8	92	(Pn)	12 28 01.9	3.0	TIY	4.8	92	cPn	12 47 47.2	-1.0
			Pg	12 28 13.5	2.8				Pg	12 48 03.0	3.1
			Sn	12 28 58.0	2.0				Sg	12 49 02.0	-2.9
			Sg	12 29 12.7	-3.0				SMN	M _L = 4.4	0.8 0.68
			SMN	M _L = 5.0	1.0 2.34				SME		0.7 0.41
			SME		1.0 1.98				LE	M _s = 4.0	7.0 1.81
			LE	M _s = 3.9	7.0 1.32	HHC	4.9	53	cPn	12 47 51.2	1.5
HHC	4.9	53	cPn	12 28 01.8	1.4				Pg	12 48 06.2	4.4
			Pg	12 28 17.0	4.4				Sg	12 49 06.3	-1.9
			Sg	12 29 17.0	-2.1				SME	M _L = 4.6	0.4 0.71
						GTA	5.4	287	Pn	12 47 55.0	-1.6
									Pg	12 48 11.0	0.4
									Sn	12 48 54.0	-6.4

QZN	13.7	250	eP	02 17 54.8	0.5		
DL2	14.7	354	eP	02 18 12.0	4.9		
			S	02 20 52.0	3.7		
			LE			$M_s=4.3$	8.0 0.54
GYA	15.4	282	P	02 18 17.0	1.1		
XAN	16.0	311	eP	02 18 24.6	0.5		
TIY	16.4	327	P	02 18 32.4	3.4		
			sS	02 21 44.0	-5.3		
			LN			$M_s=4.1$	10.5 0.38
BJI	16.9	340	eP	02 18 35.5	0.4		
			eS	02 21 44.0	4.3		
			SME			$m_B=4.8$	11.0 0.41
SNY	17.5	0	-iP	02 18 45.0	2.1		
			eS	02 21 49.0	-4.7		
			LE			$M_s=4.3$	16.0 0.81
CD2	18.7	295	eP	02 18 55.8	-1.1		
KMI	18.9	277	eP	02 19 00.0	0.7		
			eS	02 22 23.0	-1.3		
			LN			$M_s=4.4$	11.0 0.60
HHC	19.3	332	eP	02 19 04.2	0.0		
CN2	19.6	4	+P	02 19 05.4	-1.3		
BTO	19.8	328	eP	02 19 10.0	0.4		
			LN			$M_s=4.1$	14.0 0.30
			LE				14.0 0.30
LZH	20.6	309	eP	02 19 17.0	-1.0		
MDJ	20.9	12	eP	02 19 19.0	-1.8		
WMQ	35.1	313	eP	02 21 30.0	-0.9		
1987 8 11							
O=04 34 58.1				± 0.15s			
LAT=18.08 S				± 0.60km			
LONG=178.39 W				± 1.54km			
DEPTH=598 km				± 1.35km			
STATIONS USED = 52, STAND DEV = 0.89s							
QZH	74.8	303	+P	04 45 41.0	0.7		
SSE	75.9	310	eP	04 45 45.0	-1.2		
			PMZ				0.8 0.010
			eS	04 54 40.0	-2.1		
			cSS	04 59 48.0	-5.6		
NJ2	78.1	309	-P	04 45 58.0	0.0		
GZH	78.2	299	P	04 46 00.0	1.1		
QZN	79.5	294	eP	04 46 06.8	0.9		
CN2	80.2	322	+P	04 46 08.8	-0.3		
WHN	80.7	306	eP	04 46 12.0	0.1		
TIA	81.4	312	eP	04 46 15.5	0.2		
			eS	04 55 38.0	-0.9		
BJI	83.9	315	eP	04 46 26.5	-1.5		
GYA	85.1	300	-P	04 46 34.6	0.5		
TIY	85.4	312	-P	04 46 35.9	0.6		
XAN	86.4	307	-P	04 46 40.6	0.6		

						SKS	04 56 08.5	0.2	
KMI	87.9	297	-P				04 46 48.5	1.1	
1987 8 11									
O=07 52 30.9				± 0.15s					
LAT= 4.57 S				± 1.43km					
LONG=153.44 E				± 0.87km					
DEPTH=102 km				± 1.34km					
STATIONS USED = 40, STAND DEV = 1.21s									
QZH	44.8	313	eP				08 00 37.8	1.1	
QZN	48.9	300	P				08 01 10.4	1.6	
WHN	51.1	316	eP				08 01 26.0	0.2	
TIA	52.9	323	eP				08 01 37.5	-1.7	
GYA	54.8	307	P				08 01 53.6	0.7	
KMI	57.4	304	-P				08 02 12.5	0.8	
CD2	59.1	310	-iP				08 02 23.3	0.0	
WMQ	76.0	317	P				08 04 09.5	0.2	
KSH	83.3	310	P				08 04 51.0	2.6	
1987 8 11									
O=07 59 28.6				± 0.08s					
LAT=38.16 N				± 0.97km					
LONG=106.29 E				± 0.69km					
DEPTH= 31 km				± 0.15km					
STATIONS USED = 19, STAND DEV = 2.36s									
$M_L=3.6/15,$									
LZH	2.8	224	ePn				08 00 16.5	3.9	
			Pg				08 00 18.5	-0.6	
			eSn				08 00 48.0	0.8	
			Sg				08 00 53.0	-5.2	
			SMN			$M_L=3.6$		1.0	0.30
			SME					1.0	0.25
BTO	3.8	49	Pn				08 00 26.2	0.8	
			Pg				08 00 36.1	0.6	
			Sn				08 01 12.4	2.1	
			Sg				08 01 24.0	-3.4	
			SMN			$M_L=3.7$		0.4	0.29
			SME					0.4	0.080
XAN	4.6	152	Pn				08 00 39.8	2.7	
			Pg				08 00 49.4	-1.2	
			Sn				08 01 28.8	-2.7	
			SMN			$M_L=3.4$		1.0	0.070
			SME					0.8	0.040
TIY	4.9	93	Pn				08 00 41.6	1.1	
			Pg				08 00 55.0	0.1	
			SMN			$M_L=3.9$		0.6	0.13
			SME					0.6	0.18
HHC	4.9	55	ePn				08 00 41.4	0.8	
			Pg				08 00 55.7	0.7	
			Sg				08 01 55.0	-6.9	

TIA	67.1	318	sP	00 17 51.0	-1.1		
			SMN		$m_B = 5.5$	8.0	0.32
			SME			8.0	0.55
			-P	00 17 12.0	-0.9		
			cS	00 25 54.0	-2.5		
			SMN		$m_B = 5.4$	10.0	0.55
			SME			10.0	0.41
			ScS	00 26 57.0	2.2		
CN2	67.2	329	-iP	00 17 13.0	-0.6		
			PMZ			3.0	1.30
			S	00 26 01.0	4.5		
			SME		$m_B = 5.3$	6.0	0.30
			ScS	00 26 57.0	2.2		
GYA	69.8	304	P	00 17 30.0	0.0		
			PMZ		$m_B = 5.7$	5.0	0.60
			PcP	00 17 55.0	4.1		
			pP	00 18 01.0	2.9		
			S	00 26 32.0	4.4		
			ScS	00 27 16.0	-0.3		
			-P	00 17 29.5	-1.1		
BJI	69.9	321	sP	00 18 06.0	-5.8		
			S	00 26 32.0	2.9		
			SME		$m_B = 5.3$	9.0	0.44
			SKS	00 27 16.0	0.6		
			-iP	00 17 40.5	0.1		
			PMZ		$m_B = 6.0$	5.0	1.33
			sP	00 18 20.0	-1.6		
XAN	71.6	312	S	00 26 52.0	4.2		
			SMN		$m_B = 5.7$	8.0	0.63
			SME			8.0	0.41
			ScS	00 27 32.0	1.9		
			-iP	00 17 51.5	0.8		
			SMN		$m_B = 5.7$	8.0	0.70
			SME			9.0	0.55
HHC	73.3	319	-iP	00 17 51.5	0.8		
			SMN		$m_B = 5.7$	8.0	0.70
			SME			9.0	0.55
			ScS	00 27 32.0	1.9		
			-iP	00 17 51.5	0.8		
CD2	74.0	307	-iP	00 17 55.0	0.1		
			PMZ			0.6	0.14
			pP	00 18 30.0	6.7		
			S	00 27 20.0	4.6		
			sS	00 28 02.0	-4.5		
BTO	74.1	319	-iP	00 17 56.0	0.3		
			PMZ			3.0	1.27
			sP	00 18 32.0	-4.9		
			PP	00 20 48.0	4.4		
			sS	00 28 10.0	2.0		
LZH	76.2	312	-iP	00 18 08.5	1.1		
			PMZ			2.0	0.61
			sP	00 18 45.0	-3.6		
			S	00 27 46.0	6.6		
			sS	00 28 30.0	-0.8		
LN			38.0	2.23			

GTA	80.5	314	-iP	00 18 32.0	1.0		
			sP	00 19 08.0	-4.3		
			PP	00 21 33.6	-3.2		
			S	00 28 30.0	4.7		
			SMN		$m_B = 5.9$	6.5	0.65
			sS	00 29 15.5	-1.5		
			SS	00 33 37.5	-4.8		
			LN			26.0	0.78
			LE			14.0	0.32
			-iP	00 19 20.2	-0.2		
WMQ	90.5	315	PMZ			2.0	0.21
			pP	00 19 45.5	-4.2		
			SKS	00 29 42.5	4.5		
			S	00 29 56.5	-5.7		
			LN			8.0	0.80

1987 8 12

O = 01 29 56.7 ± 0.12s

LAT = 61.46 N ± 1.60km

LONG = 113.00 E ± 1.85km

DEPTH = 5 km

STATIONS USED = 47, STAND DEV = 1.80s

CN2	19.2	152	cP	01 34 23.9	0.0
SNY	20.7	157	+P	01 34 39.8	-0.6
BTO	21.0	186	cP	01 34 43.6	0.0
BJI	21.5	173	cP	01 34 48.5	-0.7
WMQ	23.1	232	P	01 35 06.0	0.6
DL2	23.2	163	cP	01 35 07.0	1.2
GTA	23.5	206	+P	01 35 09.6	0.5
TIA	25.4	172	cP	01 35 28.0	0.9
LZH	26.0	197	cP	01 35 35.0	1.7
XAN	27.6	187	-P	01 35 47.0	0.0
NJ2	29.7	170	cP	01 36 06.0	0.1
WHN	30.9	178	-iP	01 36 18.0	0.8
GYA	35.2	190	-P	01 36 55.0	0.1
QZN	42.4	184	cP	01 37 56.3	1.6

1987 8 12

O = 03 09 59.7 ± 0.18s

LAT = 14.07 N ± 2.93km

LONG = 59.32 W ± 3.04km

DEPTH = 48 km ± 1.23km

STATIONS USED = 30, STAND DEV = 2.86s

$M_s = 5.8 / 2,$

GTA	123.3	19	cPKP	03 28 54.8	2.1
BJI	126.0	4	PKP	03 28 58.5	1.0
LZH	127.6	17	cPKP	03 29 00.0	-0.9
			LN	$M_s = 5.7$	26.0 1.39
TIY	127.9	8	cPKP	03 29 03.7	2.3
			LN	$M_s = 5.9$	20.0 1.73

LONG = 173.37 E					± 2.68km	
DEPTH = 32 km					± 0.33km	
STATIONS USED = 29,					STAND DEV = 1.48s	
QZN	73.1	298	cP	06 12 36.0	-2.5	
MDJ	75.3	329	cP	06 12 52.0	1.0	
CN2	76.8	326	cP	06 12 59.5	0.0	
TIA	76.8	316	cP	06 13 00.4	0.8	
GYA	79.2	303	P	06 13 14.2	1.1	
BJI	79.7	319	cP	06 13 15.0	-0.3	
XAN	81.2	311	P	06 13 24.2	0.5	
KMI	81.8	300	cP	06 13 28.0	1.3	
CD2	83.5	306	cP	06 13 36.6	1.0	
LZH	85.8	310	cP	06 13 49.0	1.7	
GTA	90.2	312	P	06 14 09.0	0.9	

1987 8 12

O = 06 18 39.6 ± 0.17s
 LAT = 31.62 S ± 3.37km
 LONG = 58.45 E ± 2.09km
 DEPTH = 10 km ± 0.27km
 STATIONS USED = 71, STAND DEV = 1.28s

Ms = 5.4 / 13,

m_B = 5.6 / 8

QZN	70.5	52	cP	06 29 57.0	0.0	
			PP	06 32 34.0	0.1	
			S	06 39 14.0	6.2	
			LN	Ms = 5.4	18.0	1.30
KMI	70.5	42	cP	06 29 57.0	-0.7	
			sP	06 30 08.5	2.9	
			cS	06 39 13.0	2.5	
			LE	Ms = 5.4	18.0	1.30
KSH	72.6	14	cP	06 30 11.0	1.2	
			cS	06 39 35.0	1.2	
			LE	Ms = 5.5	12.0	0.90
GYA	73.8	44	P	06 30 17.0	-0.2	
			pP	06 30 19.6	-2.9	
			S	06 39 53.0	6.6	
CD2	75.6	39	cP	06 30 26.2	-1.0	
			S	06 40 05.0	-0.8	
GZH	75.6	51	cP	06 30 27.5	0.1	
LZH	79.7	36	P	06 30 49.0	-1.1	
			PMZ		2.0	0.10
WMQ	79.7	21	P	06 30 50.0	-0.1	
			PMZ		2.0	0.10
			S	06 40 54.0	3.9	
			SMN	m _B = 5.5	9.0	0.32
QZH	80.4	53	cP	06 30 58.0	4.2	
			cS	06 41 03.0	3.9	
			LN	Ms = 5.0	22.0	0.52
GTA	80.4	31	+P	06 30 53.8	-0.3	
			S	06 41 00.0	2.2	

			SMN	m _B = 5.6	8.0	0.33
			SME		6.5	0.22
			LN	Ms = 5.2	24.0	0.67
			LE		14.0	0.25
XAN	80.8	40	P	06 30 55.0	-0.9	
			S	06 41 05.0	3.6	
WHN	81.4	46	cP	06 30 59.5	0.3	
			sP	06 31 08.0	0.8	
			iS	06 41 11.0	1.1	
			SMN	m _B = 5.7	8.0	0.50
NJ2	85.3	48	cP	06 31 17.0	-1.9	
			S	06 41 46.0	-0.8	
			LN	Ms = 5.3	17.0	0.70
TIY	85.4	40	-P	06 31 19.6	0.0	
			SKS	06 41 41.5	1.3	
			S	06 41 54.5	6.5	
			SMN	m _B = 5.6	10.0	0.53
			LN	Ms = 5.5	16.0	1.04
SSE	86.2	50	P	06 31 23.0	-0.2	
			PMZ		1.0	0.020
			pP	06 31 27.0	-1.6	
			sP	06 31 31.0	-0.2	
			SKS	06 41 48.0	2.8	
			cS	06 42 03.0	6.1	
BTO	86.2	37	P	06 31 23.0	-0.7	
			csP	06 31 28.0	-3.6	
			cPP	06 34 42.0	-3.0	
			cSKS	06 41 44.0	-1.8	
			S	06 41 54.0	-2.0	
TIA	87.0	44	+P	06 31 27.0	-0.5	
			SMN	m _B = 5.8	10.0	0.93
			LN	Ms = 5.4	20.0	0.99
HHC	87.2	37	-iP	06 31 28.8	0.3	
			S	06 42 10.5	5.1	
			SMN	m _B = 5.8	9.0	0.84
BJI	89.1	40	cP	06 31 36.0	-1.5	
			S	06 42 26.0	2.9	
			LN	Ms = 5.2	24.0	0.64
CN2	96.8	42	cP	06 32 11.0	-1.9	
			pP	06 32 15.0	-3.3	

1987 8 12

O = 11 16 40.0 ± 0.08s
 LAT = 19.60 S ± 1.61km
 LONG = 173.45 E ± 2.29km
 DEPTH = 32 km ± 0.23km
 STATIONS USED = 25, STAND DEV = 1.21s

MDJ	75.4	329	cP	11 28 23.0	0.1	
CN2	76.9	326	cP	11 28 31.0	-0.5	
GYA	79.3	303	P	11 28 45.8	0.8	

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BJI	79.8	319	cP	11 28 47.0	-0.2
TIY	80.8	315	cP	11 28 53.6	0.5
XAN	81.3	311	cP	11 28 55.6	0.0
LZH	86.0	310	cP	11 29 19.0	-0.1
GTA	90.3	312	P	11 29 40.8	0.9

1987 8 12

O=18 46 04.6 ± 0.18s
 LAT=37.94 N ± 1.24km
 LONG=123.35 E ± 1.96km
 DEPTH= 5 km ± 0.22km
 STATIONS USED = 16, STAND DEV = 2.97s

$M_L = 4.0 / 12,$

DL2	1.7	306	Pn	18 46 34.8	0.2
			Pg	18 46 37.8	3.9
			Sn	18 46 55.2	-3.0
			Sg	18 46 58.4	1.8
			SMN	$M_L = 4.1$	0.3 2.13
			SME		0.3 1.67
SNY	3.9	3	cPn	18 47 07.2	2.0
			Sg	18 48 09.2	2.8
			SMN	$M_L = 4.2$	0.6 0.60
			SME		0.8 0.48
TIA	5.3	253	Pn	18 47 30.8	6.6
			Pg	18 47 40.6	3.1
			Sg	18 48 46.4	-3.1
			SMN	$M_L = 3.9$	0.5 0.14
			SME		0.5 0.10
BJI	6.0	293	Pn	18 47 33.5	-0.3
CN2	6.1	15	cPn	18 47 38.0	2.8
			cSg	18 49 20.5	5.8
			SMN	$M_L = 4.5$	1.0 0.34
			SME		1.0 0.36
SSE	7.1	195	cPn	18 47 47.5	-1.2
			SMN	$M_L = 3.8$	1.0 0.020
			SME		1.0 0.060

1987 8 13

O=08 21 16.3 ± 0.14s
 LAT=21.26 N ± 2.18km
 LONG=144.14 E ± 2.25km
 DEPTH= 32 km ± 0.38km
 STATIONS USED = 31, STAND DEV = 2.14s

$M_s = 4.5 / 4,$

SSE	22.8	300	-P	08 26 18.5	1.3
			PMZ		1.0 0.010
			sP	08 26 25.6	-4.4
			S	08 30 24.0	5.0
			csS	08 30 31.0	-2.9
			LN	$M_s = 4.1$	12.0 0.26

NJ2	25.0	301	cP	08 26 40.0	1.4
MDJ	26.2	336	cP	08 26 53.0	2.7
SNY	26.8	324	cP	08 26 54.7	-1.4
CN2	27.3	330	cP	08 27 02.0	1.5
TIA	27.9	308	+P	08 27 05.5	0.1
			LN	$M_s = 4.5$	13.0 0.57
TIY	31.9	308	cP	08 27 40.0	-1.4
			cS	08 32 52.0	2.6
			LN	$M_s = 4.6$	11.0 0.44
XAN	33.5	300	cP	08 27 56.8 ⁵	1.3
GTA	41.8	306	P	08 29 06.1	0.6
WMQ	51.5	310	P	08 30 22.2	0.5

1987 8 13

O=09 21 21.1 ± 0.19s
 LAT=14.12 N ± 1.42km
 LONG= 91.09 W ± 3.02km
 DEPTH= 50 km ± 1.58km
 STATIONS USED = 34, STAND DEV = 1.05s

BJI	120.4	336	cPKP	09 40 07.0	-0.9
TIA	123.3	333	+PKP	09 40 13.8	0.3
TIY	123.9	338	+iPKP	09 40 15.2	0.5
SSE	125.4	326	-PKP	09 40 18.2	0.8
GTA	125.8	350	PKP	09 40 18.8	0.5
NJ2	125.9	328	+PKP	09 40 18.6	0.3
XAN	128.5	339	PKP	09 40 24.1	0.6
WHN	129.3	331	PKP	09 40 25.8	0.8
GYA	136.1	337	+PKP	09 40 39.0	1.0

1987 8 13

O=13 12 13.8 ± 0.05s
 LAT=37.98 N ± 0.56km
 LONG=106.28 E ± 0.37km
 DEPTH= 19 km ± 0.09km
 STATIONS USED = 15, STAND DEV = 1.56s

$M_L = 3.7 / 13,$

LZH	2.7	227	Pg	13 13 02.0	-0.1
			Sg	13 13 38.5	-0.5
			SMN	$M_L = 3.7$	1.0 0.45
			SME		1.0 0.26
BTO	3.9	47	Pg	13 13 20.8	-2.2
			Sg	13 14 11.0	-5.2
			SMN	$M_L = 3.5$	0.4 0.16
			SME		0.4 0.050
XAN	4.5	151	Pn	13 13 22.4	1.1
			Pg	13 13 34.6	1.6
			Sg	13 14 30.9	-3.4
			SMN	$M_L = 3.3$	0.6 0.060
			SME		0.8 0.030
TIY	4.9	91	+Pg	13 13 39.6	-0.6



			SMN		$M_L = 3.8$	0.7	0.12	SNY	153.1	336	iPKP	15 42 55.0	0.1			
			SME			0.6	0.14				PKP ₂	15 43 18.0				
GTA	5.3	288	Pn	13 13	31.4	-0.6					PP	15 46 50.0	0.3			
			Pg	13 13	51.6	5.0					LN		$M_s = 6.7$	26.0	11.2	
			Sn	13 14	30.0	-4.0					LE			24.0	5.47	
			Sg	13 14	56.0	-2.4		DL2	156.4	335	cPKP	15 43 00.0	0.8			
			SMN		$M_L = 3.6$	0.7	0.070				cPP	15 47 04.0	-4.0			
			SME			0.5	0.050				LN		$M_s = 6.6$	20.0	4.83	
BJI	8.0	72	cPg	13 14	35.0	0.2					LE			20.0	4.95	
1987 8 13																
O = 13 59 58.3 ± 0.08s																
LAT = 37.00 N ± 1.19km																
LONG = 116.15 W ± 1.05km																
DEPTH = 5 km ± 0.57km																
STATIONS USED = 48, STAND DEV = 0.88s																
MDJ	79.4	319	-P	14 12	07.5	-0.2					GTA	157.1	19	PKP	15 43 01.2	0.8
CN2	82.1	320	-P	14 12	21.8	-0.4					PP	15 47 07.9	-3.7			
SNY	84.5	320	cP	14 12	35.2	0.9					SS	16 07 00.0	0.2			
DL2	87.6	319	cP	14 12	50.2	0.4					LN		$M_s = 6.6$	21.0	7.66	
BJI	89.5	323	cP	14 12	57.0	-1.9					BTO	157.4	358	+PKP	15 43 00.0	-0.8
BTO	91.9	327	cP	14 13	10.0	-0.2					pPKP	15 43 09.0	-2.1			
TIA	92.0	320	cP	14 13	10.9	0.5					LN		$M_s = 6.8$	22.0	9.70	
TIY	93.2	323	cP	14 13	17.0	1.2					LE			22.0	7.20	
NJ2	94.2	316	cP	14 13	20.5	0.0					TIY	160.0	352	PKP	15 43 03.5	-0.4
WMQ	96.7	343	P	14 13	32.5	0.5					PP	15 47 24.0	-3.2			
GTA	97.1	333	P	14 13	33.8	0.0					SS	16 07 25.0	-6.0			
XAN	97.8	324	P	14 13	37.0	0.1					LN		$M_s = 6.9$	23.0	17.3	
1987 8 13																
O = 15 23 07.6 ± 0.30s																
LAT = 17.89 S ± 1.91km																
LONG = 70.94 W ± 1.01km																
DEPTH = 36 km ± 2.48km																
STATIONS USED = 91, STAND DEV = 1.41s																
$M_s = 6.6 / 24,$																
KSH	144.2	46	+iPKP	15 42	40.0	-0.8					TIA	160.4	340	+PKP	15 43 04.8	0.6
			PKP ₂	15 42	43.0						PP	15 47 23.5	-5.9			
			PP	15 46	04.0	5.8					LN		$M_s = 6.5$	21.0	4.57	
			LE								LE			18.5	3.14	
MDJ	148.3	332	PKP	15 42	47.0	-0.6					LZH	161.3	13	cPKP	15 43 05.0	-0.3
			pPKP	15 43	00.0	2.0					LN		$M_s = 6.8$	26.0	7.86	
			SKKS	15 53	07.0						LE			20.0	10.5	
			SS	16 05	26.0	2.2					SSE	162.9	322	+PKP	15 43 06.0	-0.6
WMQ	148.5	30	PKP	15 42	48.0	0.0					pPKP	15 43 24.0	6.9			
			PKP ₂	15 42	54.6						PKP ₂	15 43 57.2				
			PP	15 46	22.0	-1.4					PP	15 47 40.0	-2.3			
			SS	16 05	26.0	-0.2					cSKS	15 50 06.0	1.6			
			LE								cSKKS	15 54 21.0				
CN2	150.7	335	+PKP	15 42	50.0	-1.4					SS	16 07 59.0	-1.2			
											LN		$M_s = 6.6$	20.0	5.52	
											LE			20.0	4.98	
											NJ2	163.4	330	-PKP	15 43 05.0	-2.1
											PP	15 47 39.0	-6.1			
											LE		$M_s = 6.6$	20.0	7.90	
											XAN	163.9	0	PKP	15 43 08.0	0.2
											PP	15 47 45.0	-3.6			
											SKKS	15 54 27.0				

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<p>O=04 41 46.8 ± 0.13s LAT=26.16 N ± 2.54km LONG=128.81 E ± 1.93km DEPTH= 37 km ± 0.90km STATIONS USED = 22, STAND DEV = 2.14s Ms=4.2/ 5,</p>					<p>SME sS 06 18 33.0 5.9 SS 06 22 26.0 2.5 WHN 66.1 312 +iP 06 09 50.5 -0.2 PMZ 1.0 0.12 S 06 18 36.0 0.7 MDJ 66.1 332 +iP 06 09 51.0 0.3 PMZ m_B=6.3 5.0 1.80 S 06 18 31.0 -4.3 SS 06 22 48.0 -4.4 DL2 66.3 323 +iP 06 09 51.5 -0.1 cS 06 18 34.0 -4.2 LE Ms=5.4 15.0 1.09 SNY 67.1 326 +iP 06 09 56.5 -0.5 S 06 18 48.0 0.7 LN Ms=5.6 21.0 1.40 LE 22.0 2.19 TIA 67.4 318 +P 06 09 58.0 -0.7 PMZ m_B=6.2 5.0 1.51 cScS 06 19 46.0 -4.5 LN Ms=5.7 18.0 2.02 LE 18.0 1.37 CN2 67.5 329 +iP 06 09 59.5 -0.1 PMZ m_B=6.3 5.0 1.70 cS 06 18 52.0 -1.6 GYA 70.1 304 +P 06 10 15.6 0.1 PMZ 1.0 0.15 S 06 19 23.0 0.5 LE Ms=5.3 18.0 1.10 BJI 70.3 321 +iP 06 10 15.0 -1.5 PMZ m_B=6.2 5.0 1.58 ePP 06 12 47.0 -6.0 sS 06 19 42.0 2.7 eSS 06 24 00.0 3.5 LN Ms=5.9 24.0 2.23 LE 26.0 4.88 XAN 71.9 312 +iP 06 10 26.2 0.0 S 06 19 39.0 -4.2 KMI 72.7 301 +iP 06 10 33.0 1.3 PP 06 13 17.0 2.5 S 06 19 57.0 3.7 SME m_B=6.0 7.0 0.90 SS 06 24 42.0 6.5 HHC 73.6 320 +iP 06 10 37.0 0.4 S 06 20 07.0 4.0 LN Ms=5.8 20.0 2.00 LE 22.0 2.28 CD2 74.3 307 +iP 06 10 40.8 0.3 PMZ 1.2 0.47 PP 06 13 23.0 -4.3</p>					
<p>1987 8 14 O=05 59 02.6 ± 0.07s LAT=12.54 S ± 1.41km LONG=166.76 E ± 1.71km DEPTH= 24 km ± 0.58km STATIONS USED = 95, STAND DEV = 0.84s Ms=5.6/ 24, m_B=6.2/ 20</p>										
TIY	18.0	314	cP	04 45 57.6	1.2					
			LN	Ms=4.4	12.0	0.62				
			LE		12.0	0.41				
CD2	22.5	288	cP	04 46 42.7	-2.0					
			SS	04 51 22.0	-4.1					
KMI	23.5	273	cP	04 46 55.5	0.6					
GTA	27.6	306	+iP	04 47 31.0	-2.2					
			LN	Ms=4.4	13.0	0.26				
			LE		13.0	0.28				
QZH	60.0	309	+iP	06 09 10.0	0.1					
			PMZ	m _B =6.4	4.0	1.96				
			S	06 17 16.0	-2.2					
			SMN	m _B =5.8	7.0	0.47				
			SME		5.0	0.58				
			LN	Ms=5.5	20.0	1.38				
			LE		20.0	1.88				
SSE	61.6	316	-iP	06 09 20.5	-0.6					
			PMZ		0.8	0.33				
			ePP	06 11 39.0	0.7					
			S	06 17 34.0	-5.3					
			SMN	m _B =5.8	6.0	0.42				
			SME		6.0	0.50				
			sS	06 18 00.0	6.2					
			LN	Ms=5.3	20.0	0.92				
			LE		20.0	0.94				
GZH	63.1	304	+iP	06 09 32.2	0.8					
			PMZ	m _B =6.3	5.0	1.98				
			S	06 17 54.0	-4.6					
NJ2	63.8	315	+iP	06 09 35.0	-0.5					
			PMZ	m _B =6.3	4.5	1.80				
			S	06 18 04.0	-2.5					
QZN	64.3	298	+P	06 09 39.0	0.3					
			sP	06 09 53.0	2.9					
			PP	06 12 02.0	0.9					
			S	06 18 15.0	2.5					
			SMN	m _B =5.8	9.0	0.60				

			S	06 20 10.5	-0.2					
BTO	74.5	319	+iP	06 10 42.0	0.4					
			PMZ	$m_B = 6.1$	6.0	1.40				
			PP	06 13 33.0	4.3					
			S	06 20 10.0	-2.6					
			SKS	06 20 38.0	-4.0					
			cSS	06 25 00.0	-1.4					
			LN	$M_s = 5.6$	19.0	1.60				
			LE		19.0	1.00				
LZH	76.5	312	+iP	06 10 54.5	1.2					
			PMZ		1.5	0.76				
			cS	06 20 32.0	-4.9					
			SME	$m_B = 6.0$	7.0	0.77				
GTA	80.8	314	+iP	06 11 17.5	0.7					
			PMZ	$m_B = 6.3$	5.0	1.56				
			PP	06 14 20.0	-2.0					
			S	06 21 24.0	3.2					
			LN	$M_s = 5.7$	26.0	1.20				
			LE		20.0	1.90				
WMQ	90.8	315	+iP	06 12 06.3	0.0					
			PMZ		2.0	0.24				
			SKS	06 22 36.0	2.6					
			S	06 22 55.0	-2.8					
			SS	06 28 59.0	-5.2					
			LN	$M_s = 5.6$	22.0	1.66				
KSH	98.4	308	P	06 12 42.0	0.9					
			PP	06 16 40.0	-3.0					
			SKS	06 23 18.0	2.7					
			cS	06 24 07.0	1.8					
			LE	$M_s = 5.6$	12.0	0.80				
1987 8 14										
O = 06 24 04.3						± 0.12s				
LAT = 43.74 N						± 2.88km				
LONG = 20.20 E						± 1.85km				
DEPTH = 11 km						± 0.51km				
STATIONS USED = 33,						STAND DEV = 2.76s				
KSH	41.3	76	cP	06 31 53.7	1.9					
WMQ	47.5	65	P	06 32 42.5	0.8					
GTA	57.5	65	cP	06 33 56.3	-0.6					
LZH	62.0	66	cP	06 34 29.0	1.1					
			PMZ		2.5	0.10				
			LE		2.0	2.16				
CN2	70.3	48	+P	06 35 20.4	-0.1					
1987 8 14										
O = 06 30 31.6						± 0.12s				
LAT = 25.20 N						± 1.16km				
LONG = 115.72 E						± 1.20km				
DEPTH = 19 km						± 0.52km				
STATIONS USED = 13, STAND DEV = 3.17s										
$M_L = 3.5 / 9,$										
QZH	2.6	95	Pn	06 31 12.5	-1.0					
			Sn	06 31 42.5	-4.1					
			SMN	$M_L = 3.5$	0.4	0.23				
GZH	3.0	226	-iPg	06 31 27.7	2.7					
			Sg	06 32 07.3	1.0					
			SMN	$M_L = 3.5$	0.8	0.19				
			SME		0.8	0.18				
1987 8 14										
O = 08 24 52.5						± 0.24s				
LAT = 16.61 S						± 3.19km				
LONG = 172.38 W						± 2.43km				
DEPTH = 32 km						± 0.78km				
STATIONS USED = 55,						STAND DEV = 1.48s				
$M_s = 5.0 / 2,$						$m_B = 6.0 / 11$				
MDJ	80.6	322	cP	08 37 04.2	0.1					
			PcP	08 37 12.0	1.7					
			SME	$m_B = 5.9$	8.0	0.70				
NJ2	81.7	307	cP	08 37 09.8	0.0					
CN2	82.6	320	cP	08 37 14.0	-0.8					
			cS	08 47 28.0	-1.2					
DL2	82.7	314	cP	08 37 15.0	-0.2					
			SMN	$m_B = 6.1$	9.0	0.87				
			SME		9.0	0.83				
SNY	82.8	317	-P	08 37 16.0	0.2					
			SMN	$m_B = 6.1$	12.0	1.44				
			SME		12.0	1.08				
WHN	84.6	304	P	08 37 25.0	0.3					
TIA	84.7	310	cP	08 37 25.5	0.0					
			S	08 47 52.5	4.1					
			SMN	$m_B = 5.9$	11.5	0.74				
			SME		11.5	0.82				
BJI	87.0	313	cP	08 37 35.0	-1.6					
			SMN	$m_B = 6.0$	10.0	0.77				
			SME		9.0	1.25				
TIY	88.8	310	cP	08 37 45.0	-0.2					
			S	08 48 20.0	-6.9					
GYA	89.5	298	P	08 37 49.0	0.4					
XAN	90.1	305	cP	08 37 51.4	-0.2					
HHC	90.6	313	cP	08 37 54.5	0.8					
BTO	91.6	312	P	08 37 58.0	-0.4					
			cPP	08 41 36.5	-1.2					
			cSKS	08 48 30.0	4.6					
			cS	08 48 52.0	-2.1					
KMI	92.4	295	-P	08 38 03.0	0.6					
CD2	93.3	301	cP	08 38 07.2	1.1					
LZH	94.7	306	cP	08 38 11.5	-1.4					
GTA	98.7	308	cP	08 38 30.1	-0.7					

			SMN	$m_B = 5.7$	10.0	0.55			iS	17 57 08.0	0.9		
			SME		11.0	0.81			SMN	$m_B = 5.5$	12.0	1.10	
			esS	17 56 10.0	-3.0		XAN	58.9 286	P	17 49 19.8	-0.6		
			eScS	17 57 54.0	-0.5				pP	17 49 48.5	-0.5		
			LN			28.0			PcP	17 50 06.4	-0.8		
			LE			28.0			ScP	17 53 59.8	5.1		
TIA	52.6	282	cP	17 48 34.2	-1.1				S	17 57 16.0	1.7		
			ScP	17 53 30.0	2.9		QZH	59.9 272	cP	17 49 27.0	0.2		
			eS	17 55 48.0	-4.1				cS	17 57 30.0	2.3		
			sS	17 56 35.5	-5.6				SME	$m_B = 5.4$	9.0	0.63	
			eScS	17 58 08.7	0.1				sS	17 58 18.0	0.2		
			LN			12.0	0.83		LE		44.0	1.29	
HHC	52.7	290	-P	17 48 37.0	1.2		GTA	60.2 297	-iP	17 49 27.7	-1.1		
			pP	17 49 07.0	3.3				PMZ	$m_B = 5.6$	6.0	0.51	
			LN			18.0	2.94		pP	17 49 53.0	-4.4		
			LE			20.0	2.08		S	17 57 31.0	1.1		
BTO	53.7	291	-iP	17 48 43.0	-0.4				SMN	$m_B = 5.0$	10.0	0.30	
			pP	17 49 10.0	-1.4				cSS	18 01 25.0	-5.0		
			PP	17 50 43.0	-4.0				LN		26.0	2.96	
			S	17 56 04.0	-1.5				LE		28.0	2.94	
			sS	17 56 49.0	-6.8		LZH	60.3 291	-iP	17 49 29.5	-0.7		
			cSS	17 59 44.0	-2.8				PMZ		2.0	0.36	
			LN			13.0	0.70		pP	17 50 03.0	4.2		
			LE			15.0	1.50		cS	17 57 33.0	-1.0		
SSE	53.8	275	+P	17 48 43.5	-0.4				ScS	17 59 00.0	-4.1		
			PMZ			1.1	0.14		LN		18.0	2.64	
			pP	17 49 11.0	-1.1				LE		17.0	2.46	
			esP	17 49 26.0	0.0			WMQ	63.0 308	-iP	17 49 48.0	-0.1	
			S	17 56 08.0	1.2				PMZ		2.0	0.16	
			SMN			16.0	0.98		PcP	17 50 20.0	-3.7		
			SME			16.0	1.78		S	17 58 12.0	5.6		
			sS	17 56 54.0	-3.2				sS	17 59 01.0	3.0		
			LE			10.0	0.54		LN		20.0	2.98	
TIY	54.3	287	+P	17 48 48.6	0.9			CD2	64.2 288	P	17 49 55.6	0.0	
			PMZ			1.3	0.11		sP	17 50 36.0	-2.3		
			sP	17 49 31.5	1.7				S	17 58 24.0	3.3		
			S	17 56 19.5	5.9				sS	17 59 08.0	-4.5		
			SMN	$m_B = 5.9$	10.0	0.70		GZH	64.4 275	P	17 49 58.0	0.9	
			SME		6.0	1.10		GYA	65.8 282	P	17 50 07.0	0.6	
			sS	17 57 06.0	2.0				sP	17 50 45.0	-4.0		
			LN			17.0	1.84		S	17 58 43.0	2.1		
			LE			16.0	1.02		sS	17 59 30.0	-2.9		
NJ2	54.5	278	+P	17 48 48.2	-0.9				ScS	17 59 50.0	4.2		
			PcP	17 49 51.5	1.4			KMI	69.1 284	-P	17 50 27.5	0.4	
			ScP	17 53 39.0	3.7				iS	17 59 25.0	2.7		
WHN	58.3	280	+P	17 49 16.0	0.2				SMN	$m_B = 5.5$	10.0	0.82	
			PMZ			1.2	0.080	QZN	69.6 275	P	17 50 30.8	1.1	
			sP	17 49 55.0	-3.3				cS	17 59 30.0	2.6		
			PcP	17 50 06.0	1.3			KSH	71.9 312	-iP	17 50 44.0	0.6	
			ScP	17 53 56.0	4.1				pP	17 51 12.0	-0.8		

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PP	17 53 24.0	-1.4		
eS	17 59 56.0	2.5		
sS	18 00 39.0	-5.7		
LE			12.0	1.50

CN2	14.0	303	eP	23 26 01.0	2.5		
			eS	23 28 38.0	5.1		
SNY	14.7	294	eP	23 26 10.0	2.3		
SSE	17.9	256	-P	23 26 52.5	3.6		
			PMZ			1.0	0.030

1987 8 14

O = 17 40 30.2 ± 0.12s
 LAT = 6.47 N ± 0.71km
 LONG = 126.34 E ± 0.98km
 DEPTH = 83 km ± 1.38km

STATIONS USED = 27, STAND DEV = 1.32s

XAN	31.8	332	eP	17 46 48.6	-1.0		
TIY	33.6	340	eP	17 47 05.2	0.3		
BJI	34.6	346	eP	17 47 11.5	-2.5		
LZH	36.0	328	+iP	17 47 27.5	2.1		
			PMZ			1.5	0.060
HHC	36.7	341	eP	17 47 31.6	0.1		
GTA	40.6	328	P	17 48 05.3	1.6		

1987 8 14

O = 21 36 58.2 ± 0.09s
 LAT = 2.74 N ± 1.31km
 LONG = 128.45 E ± 1.58km
 DEPTH = 31 km ± 0.36km

STATIONS USED = 12, STAND DEV = 2.37s

BJI	38.8	345	eP	21 44 27.0	5.0		
LZH	40.2	329	-P	21 44 34.0	-0.4		
MDJ	41.7	1	eP	21 44 45.4	-1.0		

1987 8 14

O = 22 20 42.1 ± 0.20s
 LAT = 19.14 S ± 3.24km
 LONG = 63.94 W ± 1.18km
 DEPTH = 594 km ± 2.07km

STATIONS USED = 44, STAND DEV = 2.02s

KSH	140.0	51	ePKP	22 39 00.7	-4.5		
WMQ	145.8	38	PKP	22 39 15.5	0.4		
GTA	155.4	31	PKP	22 39 29.3	-0.1		
			PKP ₂	22 39 58.4			
			SKKS	22 49 25.5			
LZH	160.0	30	ePKP	22 39 35.5	0.5		
XAN	163.9	22	PKP	22 39 39.2	0.4		

1987 8 14

O = 23 22 40.7 ± 0.08s
 LAT = 37.12 N ± 2.21km
 LONG = 141.60 E ± 1.62km
 DEPTH = 41 km ± 1.22km
 STATIONS USED = 63, STAND DEV = 1.77s
 Ms = 4.4 / 7,

NJ2	19.4	262	eP	23 27 03.5	-2.7		
TIA	19.6	275	eP	23 27 10.2	1.1		
			LN	Ms = 4.4		14.0	0.74
BJI	20.1	286	eP	23 27 09.5	-4.1		
TIY	23.1	280	eP	23 27 43.5	-1.1		
			LN	Ms = 4.7		15.0	1.18
			LE			20.0	0.76
WHN	23.5	262	P	23 27 47.5	-0.7		
BTO	24.8	288	eP	23 28 01.0	0.5		
			eS	23 32 20.0	2.6		
			LN	Ms = 4.4		12.0	0.30
			LE			15.0	0.40
XAN	26.7	273	eP	23 28 17.7	-0.7		
LZH	30.2	280	eP	23 28 49.5	-0.6		
GYA	31.4	260	P	23 28 59.0	-1.5		
KMI	35.1	261	-P	23 29 32.5	-0.5		
WMQ	40.9	297	P	23 30 23.0	1.6		

1987 8 15

O = 00 31 48.6 ± 0.06s
 LAT = 52.63 N ± 1.38km
 LONG = 152.73 E ± 1.00km
 DEPTH = 526 km ± 0.09km
 STATIONS USED = 75, STAND DEV = 0.81s
 m_B = 4.8 / 3

MDJ	17.2	252	-P	00 35 21.2	0.9		
			PMZ			0.6	0.060
			ScP	00 42 18.0	-1.3		
CN2	20.1	255	-P	00 35 46.9	-1.1		
			sP	00 38 07.0	5.0		
			S	00 38 59.0	-1.0		
			SMN	m _B = 4.6		5.0	0.50
			SME			5.0	0.30
SNY	22.4	253	-P	00 36 09.4	0.4		
			S	00 39 37.5	-0.1		
			SMN	m _B = 4.9		4.0	0.55
			SME			4.0	0.69
BJI	27.9	258	eP	00 36 55.0	-2.8		
			sP	00 39 26.0	1.0		
			PcP	00 39 55.0	-1.6		
			eS	00 41 00.0	-5.3		
			ScS	00 46 35.0	-4.6		
TIA	29.9	251	+P	00 37 14.5	-0.6		
SSE	31.5	239	-P	00 37 29.0	0.5		
			PMZ			1.0	0.010

			cS	00 41 59.0	-1.6		
TIY	31.6	258	cP	00 37 30.0	0.0		
NJ2	32.0	243	-P	00 37 32.7	-0.1		
			ScP	00 42 58.5	-1.6		
WHN	35.6	247	P	00 38 02.6	-0.6		
XAN	36.2	257	P	00 38 07.5	-0.8		
GTA	38.2	271	-iP	00 38 25.3	0.7		
			PMZ			0.6	0.050
			ScP	00 43 21.2	-1.4		
			S	00 43 39.9	-1.3		
			SMN	$m_B=4.8$		5.0	0.21
			ScS	00 47 31.7	-2.2		
CD2	41.5	258	P	00 38 51.2	0.0		
WMQ	42.8	285	-iP	00 39 03.0	1.0		
			PMZ			1.0	0.080
			PcP	00 40 42.0	0.9		
			S	00 44 49.3	0.9		
			SMN			2.0	0.10
GYA	43.1	251	P	00 39 03.8	-0.1		
			pP	00 40 42.6	3.2		
			sP	00 41 40.6	3.7		
			S	00 44 49.0	-2.7		
KMI	46.4	254	+P	00 39 30.0	0.4		
KSH	52.4	288	P	00 40 14.5	0.1		
			cS	00 47 02.0	0.6		

1987 8 15

O = 06 01 47.7 ± 0.05s
 LAT = 41.70 N ± 0.68km
 LONG = 80.74 E ± 0.66km
 DEPTH = 17 km ± 0.15km
 STATIONS USED = 9, STAND DEV = 1.95s

$M_L=3.6/7,$

KSH	4.3	240	Pg	06 03 03.5	0.3		
			Sg	06 04 03.5	2.3		
WMQ	5.5	65	cPn	06 03 13.0	2.8		
			Sg	06 04 40.8	-0.8		
			SMN	$M_L=3.6$		0.5	0.050

1987 8 15

O = 09 34 46.4 ± 0.23s
 LAT = 23.09 S ± 2.02km
 LONG = 68.72 W ± 1.52km
 DEPTH = 79 km ± 1.99km
 STATIONS USED = 37, STAND DEV = 2.43s

KSH	146.0	53	PKP	09 54 17.0	-0.4		
			pPKP	09 54 44.0	5.8		
			cSKS	10 01 14.0	-1.0		
WMQ	151.6	38	PKP	09 54 26.0	-0.5		
GTA	161.0	28	PKP	09 54 37.6	-0.8		

BJI	162.6	347	cPKP	09 54 38.0	-1.8		
XAN	168.9	10	PKP	09 54 44.8	-0.2		
			pPKP	09 55 12.5	6.3		
GYA	174.6	50	PKP	09 54 47.6	-0.9		

1987 8 15

O = 13 36 30.2 ± 0.06s
 LAT = 8.05 S ± 0.69km
 LONG = 118.78 E ± 0.83km
 DEPTH = 196 km ± 0.35km
 STATIONS USED = 24, STAND DEV = 0.88s

GYA	36.3	341	P	13 43 18.2	1.4		
XAN	42.9	348	cP	13 44 11.0	-0.4		
BJI	47.9	357	cP	13 44 50.0	-0.9		
GTA	50.4	341	+iP	13 45 10.2	0.2		
			PcP	13 46 24.5	-0.5		
			ScP	13 50 04.2	3.8		
CN2	52.0	6	cP	13 45 21.0	-0.6		
MDJ	53.3	10	+P	13 45 31.6	0.0		

1987 8 15

O = 13 49 11.1 ± 0.10s
 LAT = 20.08 S ± 3.00km
 LONG = 175.33 W ± 2.10km
 DEPTH = 199 km ± 1.26km
 STATIONS USED = 42, STAND DEV = 1.65s

MDJ	81.6	324	cP	14 01 09.8	0.7		
CN2	83.5	321	-P	14 01 18.4	-0.3		
BJI	87.4	314	cP	14 01 37.0	-0.5		
GYA	88.6	299	P	14 01 46.0	2.4		
TIY	88.9	311	P	14 01 45.7	0.9		
XAN	89.9	306	P	14 01 54.5	5.0		
LZH	94.5	307	cP	14 02 08.5	-2.4		
GTA	98.7	309	P	14 02 29.9	0.1		

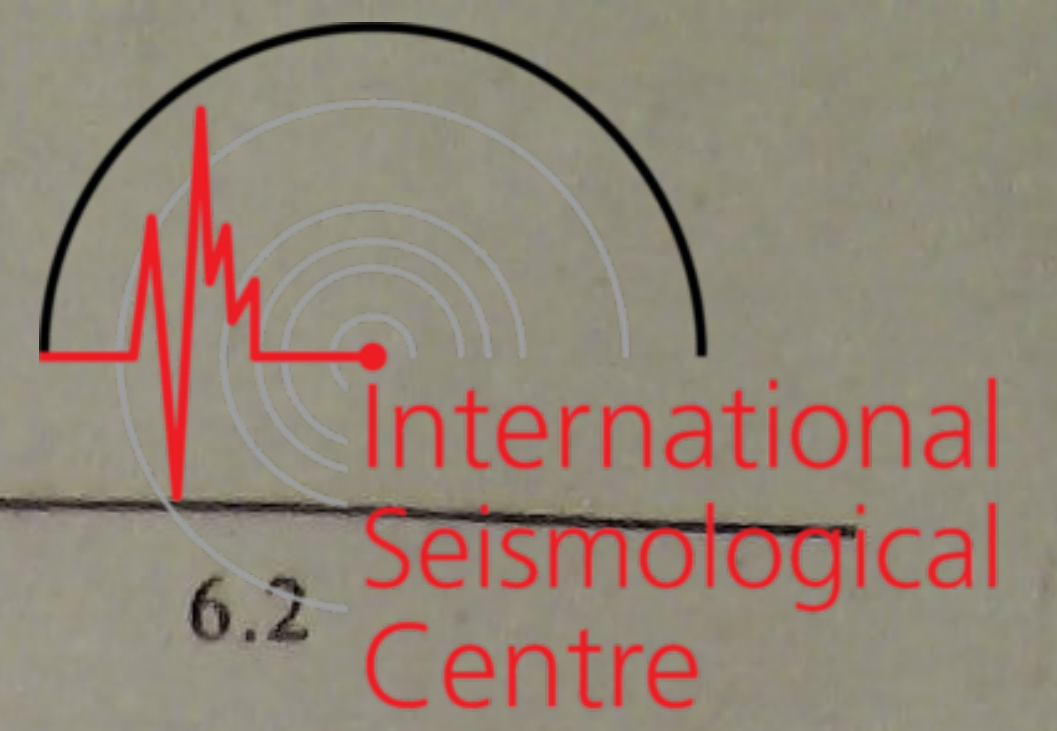
1987 8 15

O = 16 08 35.2 ± 0.09s
 LAT = 37.24 N ± 1.90km
 LONG = 141.54 E ± 1.61km
 DEPTH = 60 km ± 1.60km
 STATIONS USED = 74, STAND DEV = 2.02s

$M_s=4.1/1,$

MDJ	11.6	313	-P	16 11 24.3	3.1		
CN2	13.9	303	cP	16 11 50.5	-0.2		
			cS	16 14 22.0	-0.8		
SNY	14.6	294	cP	16 12 01.3	1.3		
DL2	15.8	282	cP	16 12 16.3	1.1		
NJ2	19.4	261	cP	16 12 57.5	-1.3		
TIA	19.6	274	cP	16 13 00.0	-1.4		
BJI	20.0	286	cP	16 13 02.5	-3.2		

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TIY	23.1	280	cP	16 13 35.8	-0.9
			cS	16 17 42.5	3.6
WHN	23.5	262	-iP	16 13 43.0	2.4
HHC	23.5	288	cP	16 13 41.0	0.1
BTO	24.7	288	cP	16 13 52.0	-0.4
XAN	26.6	273	P	16 14 10.3	-0.2
GZH	28.0	248	+P	16 14 25.7	2.4
LZH	30.1	279	cP	16 14 41.0	-1.2
GYA	31.4	260	P	16 14 52.8	-0.1
CD2	31.8	270	cP	16 14 56.0	-0.5
GTA	32.6	287	P	16 15 02.8	-1.0
KMI	35.1	261	-P	16 15 26.0	0.7
WMQ	40.8	297	P	16 16 14.0	0.8
KSH	50.4	294	cP	16 17 30.5	1.0

1987 8 15

O=17 43 52.3 ± 0.15s

LAT= 7.40 S ± 0.89km

LONG=128.41 E ± 0.47km

DEPTH=194 km ± 1.51km

STATIONS USED = 49, STAND DEV= 1.06s

QZH	33.5	344	cP	17 50 15.0	-0.9
SSE	38.9	350	P	17 51 01.0	0.0
			PMZ		1.0 0.020
GYA	39.7	329	+P	17 51 08.6	0.6
WHN	40.1	341	+P	17 51 11.5	0.9
			PMZ		1.0 0.060
NJ2	40.3	347	+P	17 51 12.6	0.3
KMI	40.9	323	cP	17 51 19.5	2.1
TIA	44.7	347	P	17 51 47.0	-0.8
CD2	44.8	329	cP	17 51 48.4	-0.7
XAN	45.2	337	+P	17 51 50.7	-1.1
TIY	47.3	343	+iP	17 52 08.0	-0.5
			PMZ		0.9 0.030
BJI	48.5	347	cP	17 52 16.0	-2.0
LZH	49.0	334	+iP	17 52 22.5	0.4
			PMZ		1.5 0.090
GTA	53.6	333	+iP	17 52 56.1	0.1
WMQ	62.9	328	P	17 54 00.0	-0.5

1987 8 15

O=18 04 22.9 ± 0.31s

LAT=28.13 S ± 2.49km

LONG= 70.88 W ± 1.90km

DEPTH= 37 km ± 2.53km

STATIONS USED = 93, STAND DEV= 1.59s

Ms=6.3/19,

KSH	150.4	59	+iPKP	18 24 06.0	-0.3
			PKP ₂	18 24 19.0	
			PP	18 27 48.0	-1.6

			cSKS	18 31 13.0	6.2		
			cSKKS	18 34 32.0			
			LN	Ms=6.7	26.0	11.2	
WMQ	156.8	42	PKP	18 24 15.0	-0.1		
			PKP ₂	18 24 46.0			
			PP	18 28 23.0	-1.9		
			LN	Ms=6.7	24.0	6.02	
			LE		24.0	8.21	
MDJ	156.8	321	PKP	18 24 15.0	-0.1		
			PKP ₂	18 24 44.0			
			PP	18 28 20.0	-5.2		
			SKKS	18 35 04.0			
CN2	159.6	324	+PKP	18 24 17.0	-1.5		
			pPKP	18 24 28.0	-1.2		
			PKP ₂	18 24 57.0			
			cSKKS	18 35 22.0			
			iSS	18 48 47.0	5.4		
SNY	161.9	323	iPKP	18 24 20.5	-0.4		
			PKP ₂	18 25 08.5			
			PP	18 28 54.5	1.5		
			SKKS	18 35 36.0			
			SS	18 49 07.0	0.7		
			LE	Ms=6.4	25.0	6.21	
DL2	165.0	319	+PKP	18 24 23.0	-1.0		
			PKP ₂	18 25 20.0			
			LN	Ms=6.5	22.0	6.44	
GTA	166.4	32	+iPKP	18 24 25.2	-0.1		
			PKP ₂	18 25 26.0			
			PP	18 29 10.0	-6.0		
			SKKS	18 35 56.0			
			LN	Ms=6.3	21.0	2.52	
			LE		18.0	2.64	
BJI	166.8	336	cPKP	18 24 24.0	-1.4		
			PKP ₂	18 25 26.0			
			LN	Ms=6.2	40.0	6.18	
HHC	167.2	352	PKP	18 24 26.0	0.2		
			PKP ₂	18 25 28.0			
			PP	18 29 18.0	-2.0		
			LN	Ms=6.3	18.0	3.34	
			LE		18.0	1.42	
BTO	167.5	357	+PKP	18 24 26.0	0.0		
			PKP ₂	18 25 30.0			
			PP	18 29 20.0	-2.0		
			cSKKS	18 36 00.0			
			SS	18 49 58.0	-5.2		
			LN	Ms=6.5	20.0	5.00	
			LE		19.0	3.80	
SSE	169.1	289	PKP	18 24 26.0	-0.8		
			PKP ₂	18 25 40.0			
			PP	18 29 28.0	-1.7		

			SKKS	18 36 10.0					SKKS	18 36 36.0						
			iSS	18 50 20.0	1.3				SS	18 51 12.0	-2.2					
			LN		Ms=6.3	21.0	4.26	GYA	177.3	127	PKP	18 24 31.0	0.6			
TIA	169.5	322	PKP	18 24 27.0	-0.1						PKP ₂	18 26 15.4				
			PKP ₂	18 25 40.0							PP	18 30 07.0	-2.4			
			cPP	18 29 30.5	-1.1						SKKS	18 36 54.0				
			SKKS	18 36 14.5							SS	18 51 40.0	3.8			
			SS	18 50 18.5	-4.0						LN		Ms=5.8	60.0	7.20	
			LN		Ms=6.5	20.0	4.54				LE			60.0	5.80	
			LE			20.0	3.85									
TIY	170.0	345	iPKP	18 24 28.0	0.5											
			PKP ₂	18 25 44.0												
			PP	18 29 30.0	-4.5											
			SS	18 50 34.5	6.2											
			LE		Ms=6.9	24.0	19.3									
NJ2	170.7	297	+PKP	18 24 28.0	0.2											
			PP	18 29 33.0	-4.8											
			LE		Ms=6.3	21.0	5.00	BTO	2.4	74	Pn	21 50 36.9	-1.7			
LZH	170.9	28	+iPKP	18 24 29.0	0.9						Pg	21 50 40.8	-1.7			
			LN		Ms=6.4	17.0	2.24				Sn	21 51 07.0	-2.3			
			LE			22.0	4.81				Sg	21 51 13.4	-2.4			
QZH	170.9	252	iPKP	18 24 29.5	1.6						SMN		Ms=3.8	0.4	0.73	
			PKP ₂	18 25 48.0							SME			0.4	0.28	
			PP	18 29 42.0	3.0			HHC	3.6	74	Pn	21 50 53.6	-1.5			
			SKKS	18 36 21.0							Pg	21 51 06.3	2.7			
			LN		Ms=6.2	20.0	3.79				Sg	21 51 49.8	-3.5			
KMI	173.6	116	PKP	18 24 30.0	0.5						SMN		Ms=4.1	0.4	0.56	
			pPKP	18 24 40.0	-0.1						SME			0.4	0.44	
			PKP ₂	18 26 00.0				LZH	4.6	213	Pg	21 51 21.5	0.8			
			iPP	18 29 54.0	2.0						Sn	21 52 09.5	6.9			
			SKKS	18 36 37.0							Sg	21 52 20.5	-2.6			
			SS	18 51 00.0	-1.7						SMN		Ms=3.8	1.0	0.10	
GZH	173.7	218	+PKP	18 24 31.0	1.7						SME			1.0	0.18	
			PP	18 29 52.0	-0.7						TIY	4.8	116	cPn	21 51 17.4	5.8
			LN		Ms=6.2	52.0	6.30				Pg	21 51 27.4	2.6			
			LE			60.0	10.2				Sg	21 52 28.8	-2.2			
XAN	174.1	2	PKP	18 24 30.0	0.5						SMN		Ms=4.1	0.6	0.19	
			PKP ₂	18 26 00.0							SME			0.7	0.27	
			PP	18 29 51.0	-3.8			GTA	5.5	267	Pn	21 51 22.6	1.3			
			SKKS	18 36 34.0							Pg	21 51 42.5	5.3			
			SS	18 51 02.0	-4.8						Sn	21 52 29.6	3.4			
			LE		Ms=6.3	22.0	7.33				SMN		Ms=3.7	1.0	0.090	
CD2	174.6	58	PKP	18 24 30.2	0.6						SME			0.7	0.050	
			PKP ₂	18 26 03.0				XAN	6.1	164	cPn	21 51 29.2	0.0			
			PP	18 29 55.0	-2.1						Sg	21 53 11.5	0.3			
			SKKS	18 36 38.0							SMN		Ms=3.2	1.0	0.020	
			LN		Ms=6.1	30.0	6.52				SME			0.7	0.010	
WHN	174.8	299	iPKP	18 24 31.0	1.4			BJI	7.1	86	Pg	21 52 03.0	-1.6			
			PKP ₂	18 26 05.0							SMN		Ms=4.0	0.5	0.080	
			iPP	18 29 56.0	-2.4						SME			0.5	0.050	

1987 8 16
 O=20 07 58.8 ± 0.07s
 LAT=33.14 N ± 0.75km
 LONG=137.74 E ± 1.11km
 DEPTH=345 km ± 0.96km
 STATIONS USED = 67, STAND DEV = 1.04s

MDJ	13.1	333	cP	20 10 57.4	2.4
SNY	14.2	312	cP	20 11 07.2	-0.3
CN2	14.3	321	-P	20 11 08.0	-1.2
NJ2	16.0	271	cP	20 11 27.0	0.5
TIA	17.2	286	cP	20 11 40.1	0.3
BJI	18.6	298	cP	20 11 53.0	-0.7
			cS	20 15 06.5	2.8
WHN	20.0	269	cP	20 12 08.8	1.1
TIY	21.1	290	cP	20 12 18.3	0.1
HHC	22.2	298	cP	20 12 29.2	0.2
BTO	23.3	297	cP	20 12 40.0	0.7
GYA	27.7	264	P	20 13 18.4	-0.5
LZH	28.0	286	cP	20 13 21.5	0.2
CD2	28.8	275	P	20 13 28.6	-0.1
GTA	31.0	293	cP	20 13 47.5	-0.5
WMQ	40.1	300	cP	20 15 04.5	1.0

1987 8 16
 O=21 38 46.5 ± 0.17s
 LAT=35.03 S ± 2.12km
 LONG=179.84 E ± 2.61km
 DEPTH=75 km ± 1.01km
 STATIONS USED = 57, STAND DEV = 1.42s
 Ms=5.8/18, m_B=6.1/12

QZH	83.2	307	+P	21 51 06.0	-0.6
			PP	21 54 20.0	0.1
			S	22 01 18.0	-0.1
			LE	Ms=5.7	36.0 3.44
GZH	85.5	302	+P	21 51 19.0	0.8
			PP	21 54 41.0	3.0
			cS	22 01 44.0	1.5
			LN	Ms=5.5	22.0 1.43
NJ2	87.9	312	+P	21 51 30.0	0.0
			PMZ	m _B =6.2	5.0 1.20
			sP	21 51 56.0	-2.2
			cS	22 02 05.0	-0.7
			LN	Ms=6.1	24.0 5.70
WHN	89.7	308	+iP	21 51 38.0	-0.5
			PMZ	m _B =6.4	5.0 1.50
			pP	21 51 57.0	-1.5
			PP	21 55 12.0	-0.7
			S	22 02 24.0	3.3
			SME	m _B =5.6	7.0 0.40

DL2	91.1	318	P	21 51 44.0	-1.2
			PP	21 55 20.0	-2.9
			SKS	22 02 10.0	2.4
			S	22 02 32.0	-1.4
MDJ	91.4	327	cP	21 51 47.5	0.9
			pP	21 52 07.0	0.5
			sP	21 52 15.0	0.2
			PP	21 55 26.0	0.6
			SKS	22 02 12.0	2.7
			S	22 02 36.0	0.1
			SS	22 08 48.0	1.5
TIA	91.8	314	cP	21 51 48.8	0.5
			PMZ	m _B =6.4	5.0 1.21
			cpP	21 52 05.4	-2.8
			cPP	21 55 25.8	-3.4
			cSKS	22 02 13.5	2.0
			cS	22 02 36.0	-5.1
			SMN	m _B =5.7	9.0 0.40
			SMF		9.0 0.48
			LN	Ms=5.8	20.0 1.97
			LE		20.0 1.35
SNY	92.2	322	+iP	21 51 50.0	-0.2
			PP	21 55 26.0	-6.6
			LN	Ms=5.7	26.0 1.00
			LE		25.0 1.73
GYA	92.3	301	P	21 51 51.0	0.3
CN2	92.8	324	+P	21 51 51.0	-1.6
			PMZ	m _B =6.3	5.0 0.80
			sP	21 52 16.0	-5.0
			cS	22 02 46.0	-3.2
KMI	94.3	298	cP	21 52 00.0	0.1
			sP	21 52 29.0	1.0
			PP	21 55 46.0	-2.9
			LN	Ms=6.0	22.0 3.50
BJI	95.0	316	cP	21 52 01.0	-1.7
			cPP	21 55 48.5	-4.9
			cSKS	22 02 31.0	2.1
			cS	22 03 15.0	6.8
			LN	Ms=5.8	24.0 1.61
			LE		24.0 1.96
XAN	95.5	308	+P	21 52 04.8	-0.3
			PMZ	m _B =6.4	4.0 0.62
			pP	21 52 23.0	-2.0
			SKS	22 02 37.3	5.6
			SMN	m _B =6.1	7.0 0.90
			SME		7.0 0.62
			LN	Ms=5.7	20.0 1.83
TIY	95.6	313	+P	21 52 06.0	0.3
			PP	21 55 54.5	-4.2
			SKS	22 02 32.5	0.0

			SMN	$m_B = 5.9$	8.0	0.56
			SME		9.0	0.56
			LN	$M_s = 5.8$	17.0	1.84
HHC	98.2	315	P	21 52 18.0	0.7	
BTO	98.9	314	cP	21 52 21.0	0.3	
			esP	21 52 50.0	1.1	
			cPP	21 56 24.0	0.0	
			eSKS	22 02 50.0	0.3	
			eS	22 03 43.0	1.3	
			LN	$M_s = 5.9$	20.0	1.20
			LE		20.0	1.90
LZH	100.0	307	cP	21 52 23.0	-2.9	
			PP	21 56 30.0	-3.0	
			SKS	22 03 00.0	4.8	
			LN	$M_s = 5.6$	34.0	1.12
			LE		28.0	1.39
GTA	104.5	308	cP	21 52 47.0	1.1	
			PP	21 57 03.0	-4.3	
			SKS	22 03 23.0	6.6	
			eS	22 04 23.0	-6.0	
			LN	$M_s = 5.7$	30.0	1.24
			LE		26.0	1.68
WMQ	114.6	307	cPKP	21 57 19.0	-0.3	
			PP	21 58 19.5	-1.6	
KSH	120.9	299	PKP	21 57 33.0	1.4	
			PP	21 59 04.0	-0.3	
			eSKS	22 04 38.0	4.9	
			LN	$M_s = 6.1$	18.0	2.50

1987 8 16

$\dot{O} = 22 37 45.2 \pm 0.12s$

LAT = 40.75 N $\pm 1.51km$

LONG = 106.10 E $\pm 1.02km$

DEPTH = 10 km

STATIONS USED = 11, STAND DEV = 2.93s

$M_L = 3.5 / 7,$

BTO	3.0	92	Pn	22 38 32.2	-1.0	
			Pg	22 38 37.6	-0.4	
			Sn	22 39 07.4	-3.5	
			Sg	22 39 17.2	-1.6	
			SMN	$M_L = 3.3$	0.4	0.20
			SME		0.4	0.060
HHC	4.2	87	cPn	22 38 47.6	-1.6	
			Sg	22 39 55.4	0.1	
LZH	5.0	202	cPg	22 39 10.0	-3.3	
GTA	5.0	257	P*	22 39 12.1	3.1	
			Sn	22 39 54.8	-6.0	
			S*	22 40 15.4	4.1	
			SMN	$M_L = 3.5$	0.8	0.070
			SME		0.8	0.050

1987 8 17

O = 02 48 52.9 $\pm 0.19s$

LAT = 39.75 N $\pm 1.45km$

LONG = 75.24 E $\pm 0.40km$

DEPTH = 10 km $\pm 2.64km$

STATIONS USED = 8, STAND DEV = 2.63s

$M_L = 3.8 / 5,$

KSH	0.6	117	-iPg	02 49 04.0	-0.5	
			Sg	02 49 13.0	-0.2	
			SMN	$M_L = 3.8$	0.2	3.20
			SME		0.5	4.70
WMQ	10.2	62	cP	02 51 22.5	0.3	
			LN		2.0	0.080

1987 8 17

O = 04 39 59.0 $\pm 0.11s$

LAT = 6.10 S $\pm 2.75km$

LONG = 104.50 E $\pm 2.72km$

DEPTH = 110 km $\pm 2.11km$

STATIONS USED = 22, STAND DEV = 1.97s

WHN	37.6	14	P	04 47 00.7	-4.6	
XAN	40.1	6	cP	04 47 26.2	0.1	
TIY	44.2	9	P	04 48 01.1	1.7	
GTA	45.5	355	P	04 48 10.8	1.2	
WMQ	52.0	345	P	04 49 00.0	0.6	
CN2	53.2	19	+P	04 49 08.0	-0.3	

1987 8 18

O = 00 40 49.6 $\pm 0.11s$

LAT = 39.72 N $\pm 0.97km$

LONG = 118.16 E $\pm 1.07km$

DEPTH = 11 km $\pm 0.19km$

STATIONS USED = 9, STAND DEV = 3.21s

$M_L = 3.0 / 9,$

BJI	1.6	283	cPg	00 41 15.0	-2.2	
			cSn	00 41 38.0	-1.7	
			cSg	00 41 40.5	1.9	
			SMN	$M_L = 2.6$	0.5	0.050
			SME		0.5	0.11
TIA	3.6	193	cPn	00 41 50.0	4.3	
			Pg	00 41 57.9	4.8	
			SMN	$M_L = 3.0$	0.3	0.030
			SME		0.3	0.050

1987 8 18

O = 01 50 17.2 $\pm 0.14s$

LAT = 6.90 S $\pm 1.86km$

LONG = 129.74 E $\pm 1.81km$

DEPTH = 136 km $\pm 0.84km$

STATIONS USED = 85, STAND DEV = 1.43s								
m _B = 5.4 / 5								
QZN	32.4	323	eP	01 56 36.8	0.4			
			pP	01 57 02.5	-2.8			
			eS	02 01 36.0	-3.7			
			sS	02 02 28.0	-2.8			
QZH	33.5	341	eP	01 56 45.4	-0.3			
GZH	33.8	332	+iP	01 56 49.3	0.4			
SSE	38.7	348	+iP	01 57 30.5	1.0			
			PMZ			1.0	0.030	
			eS	02 03 12.0	-3.9			
GYA	40.0	327	+P	01 57 41.0	0.2			
			pP	01 58 14.0	3.4			
			PcP	01 59 45.0	1.9			
			S	02 03 34.0	-1.2			
WHN	40.0	339	+P	01 57 42.5	1.6			
			PMZ			1.2	0.10	
			S	02 03 39.0	3.2			
KMI	41.3	321	eP	01 57 52.5	1.2			
TIA	44.5	345	eP	01 58 16.8	-0.3			
CD2	45.1	328	P	01 58 21.4	-0.5			
XAN	45.2	335	-P	01 58 22.4	-0.7			
			ScP	02 03 40.0	1.2			
			sS	02 05 42.0	-3.6			
TIY	47.2	341	+P	01 58 38.7	-0.1			
			cpP	01 59 09.0	-0.3			
			S	02 05 17.0	-2.6			
			SME			m _B = 5.3	7.0	0.33
			LE				20.0	0.35
BJI	48.4	346	eP	01 58 46.5	-1.0			
			eS	02 05 32.0	-4.4			
SNY	48.8	354	eP	01 58 50.6	-0.4			
LZH	49.2	332	+P	01 58 54.0	-0.1			
			pP	01 59 25.0	0.3			
			S	02 05 44.5	-2.6			
			SME			m _B = 5.6	6.0	0.46
CN2	50.6	356	+P	01 59 04.0	-0.8			
			ScP	02 04 03.0	1.6			
MDJ	51.3	360	+P	01 59 09.0	-0.8			
GTA	53.8	331	P	01 59 27.8	-0.6			
			PMZ				2.5	0.25
			ScP	02 04 16.7	1.7			
			S	02 06 48.0	-1.5			
			SME			m _B = 5.3	4.0	0.18
			ScS	02 09 02.6	3.1			
WMQ	63.2	327	P	02 00 33.0	-0.6			
KSH	67.7	318	eP	02 01 04.7	1.7			
			pP	02 01 33.0	-2.2			
							O = 02 14 13.7	± 0.06s
							LAT = 36.60 N	± 1.24km
							LONG = 71.15 E	± 1.05km
							DEPTH = 202 km	± 0.43km
							STATIONS USED = 84, STAND DEV = 1.02s	
							m _B = 5.0 / 4	
KSH	4.8	52	-P	02 15 28.0	1.8			
			sP	02 16 07.0	-0.4			
			S	02 16 24.0	2.3			
			LN				0.5	19.0
WMQ	14.5	55	+iP	02 17 30.5	-1.2			
			PMZ				1.5	0.27
			S	02 20 07.0	-0.6			
			ScP	02 25 43.0	-2.0			
			LN				5.0	1.65
GTA	22.7	74	+iP	02 19 01.2	1.6			
			PMZ				3.0	0.92
			pP	02 19 40.5	-2.7			
			sP	02 20 02.0	0.5			
			eS	02 22 57.0	6.9			
			SME			m _B = 4.8	10.5	0.46
LZH	26.3	81	+P	02 19 32.0	-0.9			
			pP	02 20 15.0	2.7			
			sP	02 20 35.0	-1.1			
			LN				16.0	2.00
			LE				17.0	2.33
CD2	27.6	92	P	02 19 45.2	0.3			
KMI	29.3	104	eP	02 19 59.0	-1.1			
BTO	30.5	70	+iP	02 20 10.0	-0.3			
			pP	02 20 52.0	1.1			
			ePP	02 21 18.5	0.3			
			eS	02 24 55.0	-0.8			
XAN	30.8	83	+iP	02 20 12.5	-0.6			
			eS	02 25 01.0	0.1			
HHC	31.6	70	-P	02 20 21.2	0.9			
GYA	31.8	98	P	02 20 21.0	-0.5			
			S	02 25 15.6	0.8			
			ScP	02 26 27.0	-2.9			
TIY	32.7	75	+iP	02 20 30.0	0.1			
			PMZ			m _B = 5.1	7.0	0.33
			pP	02 21 12.0	0.9			
			sP	02 21 33.5	-0.6			
			S	02 25 32.0	2.0			
			SMN			m _B = 4.7	5.0	0.23
BJI	35.2	70	eP	02 20 51.0	0.1			
			pP	02 21 34.5	1.8			
			PP	02 22 16.0	1.4			
			PcP	02 23 16.0	-1.0			
			ScP	02 26 40.0	-2.0			
WHN	36.3	87	-iP	02 21 00.7	0.9			

			PMZ		1.2	0.13	NJ2	48.8	322	+iP	02 27 34.0	1.9		
			sP	02 22 05.0	0.4					PMZ	$m_B = 6.0$	5.0	0.90	
			PP	02 22 32.0	5.3					LN	$M_s = 5.9$	20.0	8.60	
			S	02 26 26.0	1.7		WHN	50.7	317	+P	02 27 47.5	0.8		
TIA	36.7	76	+P	02 21 04.2	0.5					sP	02 28 04.0	0.1		
			LN		13.0	2.03				cS	02 34 50.0	-6.9		
			LE		13.0	0.74				sS	02 35 17.0	-0.7		
GZH	38.7	98	+P	02 21 20.2	0.2					LE	$M_s = 5.3$	20.0	1.80	
NJ2	39.3	82	+iP	02 21 26.0	0.6		DL2	52.3	330	cP	02 28 00.0	1.3		
DL2	39.6	71	+P	02 21 28.0	0.8					cS	02 35 21.0	2.3		
			S	02 27 16.0	2.0					LN	$M_s = 5.9$	20.0	4.95	
CN2	41.5	63	P	02 21 42.0	-0.7					LE		18.0	3.59	
SSE	41.5	82	-iP	02 21 44.0	0.6		SNY	53.7	334	+iP	02 28 08.0	-1.1		
			PMZ		1.0	0.16				pP	02 28 24.0	2.6		
			cpP	02 22 29.0	2.9					S	02 35 40.0	3.2		
MDJ	44.3	61	+P	02 22 04.5	-0.8					SMN		29.0	9.73	
										SME		29.0	5.71	
										LN	$M_s = 5.6$	25.0	2.62	
										LE		22.0	3.28	
							MDJ	53.7	340	cP	02 28 08.0	-1.5		
										pP	02 28 24.0	2.2		
										PcP	02 29 10.0	-4.1		
										PP	02 30 12.0	1.0		
										S	02 35 40.0	2.6		
										SMN	$m_B = 5.5$	10.0	0.64	
										SS	02 39 16.0	-1.5		
							GYA	54.0	308	+P	02 28 13.0	1.0		
										PMZ		3.0	1.30	
										LN	$M_s = 5.6$	20.0	2.80	
										LE		20.0	2.50	
SSE	46.7	323	P	02 27 17.7	1.9									
			PMZ		1.5	0.060	CN2	54.5	337	+P	02 28 14.0	-1.4		
			sP	02 27 32.0	-0.9					PMZ	$m_B = 5.8$	5.0	0.60	
			PP	02 29 04.0	-0.9					cpP	02 28 29.0	1.3		
			cS	02 34 04.0	3.1					cS	02 35 45.0	-4.4		
			sS	02 34 24.0	2.5					SMN		24.0	5.50	
			SS	02 37 21.0	1.5					SME		24.0	3.90	
			LN	$M_s = 6.0$	20.0	9.24	BJI	55.9	327	cP	02 28 24.0	-1.5		
			LE		20.0	5.64				PMZ		20.0	1.21	
GZH	47.1	309	cP	02 27 20.0	0.9					cS	02 36 12.0	3.9		
			sS	02 34 28.5	1.0					SMN		36.0	3.85	
			SMN		25.0	3.92				SME		36.0	3.48	
			SME		25.0	4.72				LN	$M_s = 5.8$	19.0	3.02	
			LE	$M_s = 5.8$	18.0	6.47				LE		20.0	3.16	
QZN	48.0	302	+P	02 27 26.0	0.0		XAN	56.4	317	+P	02 28 28.0	-1.4		
			sP	02 27 42.0	-1.2					PMZ	$m_B = 5.8$	6.0	0.78	
			PP	02 29 19.0	2.3					pP	02 28 37.5	-4.1		
			cS	02 34 13.0	-6.4					PcP	02 29 26.0	1.4		
			sS	02 34 47.0	7.0					PP	02 30 36.0	0.4		
			LN	$M_s = 5.7$	18.0	2.80				S	02 36 14.0	0.1		
			LE		19.0	3.40				SMN	$m_B = 5.4$	8.0	0.41	

	sS	02 36 32.0	-4.0					sS	18 02 04.0	5.9			
	LN	Ms=5.8	17.0	3.18	GYA	26.0	315	P	17 57 35.4	-0.5			
	LE		16.0	1.92				S	18 02 06.0	6.5			
KMI	56.6	305	+P	02 28 30.5	0.1			LN	Ms=5.1	18.0	2.50		
			PP	02 30 37.0	0.3			LE		18.0	2.40		
			LE	Ms=5.6	18.0	2.80	KMI	28.1	308	cP	17 57 55.0	-0.5	
CD2	58.4	311	P	02 28 44.0	0.6			eS	18 02 33.0	-2.3			
			eS	02 36 40.0	-1.4			LE	Ms=4.9	16.0	1.75		
			LE	Ms=5.8	16.0	3.43	TIA	28.7	344	cP	17 58 02.0	1.4	
HHC	59.0	325	-P	02 28 47.5	-0.1			eS	18 02 47.5	3.0			
			S	02 36 50.1	2.3			LN	Ms=4.6	11.0	0.50		
			LN	Ms=6.0	18.0	5.42	XAN	30.1	329	cP	17 58 10.5	-2.2	
			LE		18.0	4.34	DL2	30.4	352	cP	17 58 15.0	-0.3	
BTO	59.8	324	+iP	02 28 51.5	-1.2			eS	18 03 11.0	0.2			
			pP	02 29 07.0	2.2			LN	Ms=4.7	12.0	0.67		
			cPP	02 31 06.0	0.5			CD2	30.8	319	P	17 58 19.2	0.1
			eS	02 36 55.0	-3.7			TIY	31.6	338	cP	17 58 25.8	-0.6
			LN	Ms=5.9	18.0	2.20		S	18 03 36.0	6.5			
			LE		19.0	4.70		SME	m _B =4.9	8.0	0.22		
WMQ	75.6	318	P	02 30 31.6	-0.2			LE	Ms=4.7	14.0	0.73		
			eS	02 40 08.0	0.0			BJI	32.6	345	cP	17 58 34.5	-0.1
								eS	18 03 48.0	2.9			
								LE	Ms=4.4	16.0	0.35		
								SNY	33.1	356	+iP	17 58 40.0	1.1
								pP	17 58 50.0	-1.4			
								eS	18 03 56.0	3.2			
								LN	Ms=4.8	20.0	1.08		
								HHC	34.7	339	-P	17 58 53.5	0.3
								CN2	34.9	358	+P	17 58 55.0	0.1
								PMZ		3.0	0.30		
								pP	17 59 08.0	0.4			
								eS	18 04 25.0	3.2			
								BTO	35.1	337	cP	17 58 56.2	0.1
								esP	17 59 19.0	4.8			
								eS	18 04 27.0	3.0			
								LN	Ms=4.6	13.0	0.30		
								LE		13.0	0.30		
								MDJ	35.8	3	cP	17 59 03.5	1.1
								pP	17 59 15.0	0.0			
								S	18 04 40.0	5.7			
								SME	m _B =5.1	7.0	0.28		
								GTA	38.9	326	-iP	17 59 28.7	0.0
								PcP	18 01 39.2	1.2			
								S	18 05 25.4	3.4			
								LN	Ms=4.8	13.5	0.41		
								LE		13.5	0.46		
NJ2	24.3	343	+P	17 57 20.8	0.8			WMQ	48.8	323	+P	18 00 47.5	-0.2
			LE	Ms=4.6	11.0	0.77		PMZ		1.5	0.040		
WHN	24.6	333	cP	17 57 23.0	0.3			PcP	18 02 13.0	1.7			
			eS	18 01 40.0	2.6			ScS	18 10 36.5	5.4			

1987 8 18

O=17 52 05.5 ± 0.14s

LAT= 8.74 N ± 1.75km

LONG=126.82 E ± 2.56km

DEPTH= 52 km ± 0.94km

STATIONS USED = 78, STAND DEV = 1.93s

Ms=4.7/ 19,

m_B=5.2/ 4

QZH	17.9	335	cP	17 56 13.5	0.6		
			pP	17 56 24.0	1.2		
			S	17 59 34.0	7.0		
			SMN	m _B =5.2	8.0	0.78	
			LN	Ms=4.6	16.0	1.63	
GZH	19.3	319	eP	17 56 25.0	-3.6		
			LE	Ms=4.7	15.0	1.96	
QZN	19.4	304	-P	17 56 29.8	-0.2		
			pP	17 56 45.0	4.6		
			SS	18 00 27.5	0.5		
			LN	Ms=4.8	14.0	1.00	
			LE		14.0	1.60	
SSE	22.9	347	+iP	17 57 07.1	1.6		
			PMZ		1.1	0.15	
			pP	17 57 20.0	2.5		
			SME	m _B =5.5	10.0	1.19	
			LN	Ms=4.4	12.0	0.52	
NJ2	24.3	343	+P	17 57 20.8	0.8		
			LE	Ms=4.6	11.0	0.77	
WHN	24.6	333	cP	17 57 23.0	0.3		
			eS	18 01 40.0	2.6		

KSH 54.6 313 cP 18 01 31.0 -1.0

1987 8 19

O=00 35 18.9 ± 0.07s

LAT=36.98 N ± 1.39km

LONG=142.27 E ± 1.35km

DEPTH= 35 km ± 0.46km

STATIONS USED = 9, STAND DEV = 1.92s

XAN 27.2 274 cP 00 41 01.0 -1.1

GYA 31.9 261 P 00 41 43.0 -0.7

KMI 35.6 262 cP 00 42 17.5 1.4

1987 8 19

O=04 50 06.5 ± 0.06s

LAT=47.96 N ± 1.93km

LONG=148.33 E ± 0.93km

DEPTH=354 km ± 0.99km

STATIONS USED = 27, STAND DEV = 1.28s

MDJ 13.4 262 cP 04 53 04.6 -1.2

LZH 34.7 267 P 04 56 26.0 0.3

PMZ 1.5 0.11

GTA 35.6 274 P 04 56 34.3 0.7

GYA 38.9 252 P 04 57 00.6 -0.4

1987 8 19

O=07 52 43.3 ± 0.21s

LAT=24.18 S ± 2.37km

LONG= 66.95 W ± 1.89km

DEPTH=144 km ± 1.63km

STATIONS USED = 53, STAND DEV = 1.69s

KSH 145.3 55 -PKP 08 12 04.0 -1.1

WMQ 151.5 40 PKP 08 12 15.5 0.6

MDJ 155.6 331 -PKP 08 12 19.5 -0.9

CN2 157.9 336 cPKP 08 12 22.3 -1.4

GTA 161.1 33 PKP 08 12 27.6 0.3

HHC 163.3 4 cPKP 08 12 30.5 1.0

BTO 163.4 8 cPKP 08 12 30.0 0.4

TIY 166.5 2 cPKP 08 12 32.6 0.3

TIA 167.5 345 -PKP 08 12 32.7 -0.2

XAN 169.5 19 PKP 08 12 34.6 0.4

SSE 170.0 315 cPKP 08 12 34.5 0.0

PKP₂ 08 13 50.1

WHN 173.6 350 cPKP 08 12 36.5 0.0

PKP₂ 08 14 05.0

GYA 173.8 67 PKP 08 12 36.4 -0.3

QZN 174.1 149 PKP 08 12 37.8 1.1

1987 8 19

O=15 00 20.6 ± 0.17s

LAT=20.16 S ± 2.13km

LONG=178.43 W ± 2.42km

DEPTH=345 km ± 0.71km

STATIONS USED = 27, STAND DEV = 1.48s

CN2 81.8 323 -P 15 12 03.4 -0.3

GYA 86.1 300 P 15 12 24.4 -1.0

TIY 86.7 312 cP 15 12 28.0 -0.3

XAN 87.6 308 P 15 12 38.0 5.6

KMI 88.8 297 cP 15 12 38.0 -0.3

1987 8 19

O=15 14 04.7 ± 0.05s

LAT=36.26 N ± 0.50km

LONG=113.96 E ± 0.42km

DEPTH= 10 km ± 0.12km

STATIONS USED = 11, STAND DEV = 1.38s

M_L=3.1 / 11,

TIY 1.9 320 cPn 15 14 37.6 0.0

Pg 15 14 38.4 0.2

Sg 15 15 02.8 -1.4

SMN M_L=3.0 0.6 0.14

SME 0.6 0.12

TIA 2.6 90 Pg 15 14 48.8 -1.1

Sg 15 15 20.6 -4.2

SMN M_L=2.8 0.3 0.080

SME 0.3 0.030

BJI 4.2 24 cPg 15 15 19.5 1.4

Sg 15 16 10.5 -4.3

SMN M_L=2.8 0.5 0.020

SME 0.5 0.020

XAN 4.7 243 cPn 15 15 16.2 0.2

Pg 15 15 31.0 3.5

Sg 15 16 26.8 -4.9

SMN M_L=3.1 0.8 0.030

SME 0.8 0.030

1987 8 19

O=16 41 45.7 ± 0.14s

LAT=22.63 N ± 1.66km

LONG=121.23 E ± 1.90km

DEPTH= 31 km ± 0.65km

STATIONS USED = 32, STAND DEV = 1.75s

M_s=4.1 / 8, M_L=3.9 / 11,

QZH 3.3 314 cPn 16 42 36.0 -0.2

Sn 16 43 17.7 1.3

SMN M_L=3.8 0.9 0.34

SME 0.8 0.32

LE M_s=3.4 6.0 0.72

GZH 7.3 275 cPn 16 43 34.0 3.5

cSn 16 44 49.0 -5.2

SMN M_L=4.5 1.2 0.17

O = 23 27 53.4 ± 0.10s
 LAT = 43.75 N ± 0.85km
 LONG = 122.73 E ± 0.89km
 DEPTH = 16 km ± 0.43km
 STATIONS USED = 10, STAND DEV = 3.79s
 M_L = 3.0 / 10,

CN2	2.0	88	Pg	23 28 24.6	-3.7		
			Sg	23 28 50.2	-5.0		
			SMN	M _L = 3.1	0.4	0.22	
			SME		0.4	0.13	
SNY	2.0	162	+Pg	23 28 30.6	1.5		
			Sn	23 28 51.0	-3.0		
			SMN	M _L = 3.3	0.4	0.14	
			SME		0.4	0.33	

1987 8 20
 O = 05 40 52.1 ± 0.08s
 LAT = 24.16 S ± 1.31km
 LONG = 179.17 E ± 1.73km
 DEPTH = 529 km ± 0.53km
 STATIONS USED = 65, STAND DEV = 0.85s
 m_B = 5.3 / 2

SSE	78.1	312	cP	05 51 56.6	-1.5		
			PMZ			1.0	0.020
			csP	05 54 43.0	-0.7		
			cSKS	06 01 20.0	2.7		
QZN	80.0	296	cP	05 52 08.5	0.3		
NJ2	80.3	312	-P	05 52 09.6	0.2		
MDJ	82.1	327	-iP	05 52 19.0	0.4		
WHN	82.6	308	-P	05 52 21.0	-0.2		
SNY	83.4	322	+iP	05 52 25.4	0.1		
CN2	83.6	324	-iP	05 52 26.2	-0.4		
			PMZ			2.5	0.40
			pP	05 54 21.0	-0.2		
			S	06 02 06.0	2.1		
			SMN	m _B = 5.5	5.0	0.40	
TIA	83.9	314	+P	05 52 28.0	0.3		
GYA	86.2	301	P	05 52 39.2	-0.1		
BJI	86.7	317	cP	05 52 42.0	0.7		
			cSKS	06 02 16.0	0.1		
			cS	06 02 36.0	1.7		
TIY	87.8	313	-P	05 52 47.5	0.8		
			PMZ			1.0	0.070
XAN	88.3	309	-iP	05 52 49.4	0.4		
KMI	88.7	298	-P	05 52 52.0	0.9		
HHC	90.1	315	P	05 52 58.0	0.8		
CD2	90.6	304	P	05 53 00.5	0.9		
BTO	90.9	315	cP	05 53 01.8	0.6		
GTA	97.3	310	P	05 53 30.0	-0.2		

1987 8 20
 O = 14 48 39.3 ± 0.11s
 LAT = 25.04 N ± 1.10km
 LONG = 115.72 E ± 0.91km
 DEPTH = 10 km ± 0.13km
 STATIONS USED = 17, STAND DEV = 2.49s
 M_L = 3.8 / 15,

QZH	2.6	92	cPn	14 49 22.3	0.5		
			Pg	14 49 28.3	3.0		
			Sn	14 49 52.5	-2.9		
			SMN	M _L = 3.7	0.7	0.53	
			SME		0.7	0.27	
GZH	2.9	229	-iPg	14 49 32.3	1.5		
			Sg	14 50 10.2	-0.4		
			SMN	M _L = 4.1	0.5	0.79	
			SME		0.5	0.75	
WHN	5.6	348	cPn	14 50 04.0	0.9		
			cSn	14 51 07.5	-2.4		
			Sg	14 51 35.0	-0.1		
			SMN	M _L = 3.9	1.0	0.13	
			SME		1.0	0.070	
SSE	7.7	37	cPn	14 50 36.3	4.2		
			SMN	M _L = 4.0	1.0	0.050	
			SME		1.0	0.050	
GYA	8.3	282	cP	14 50 46.6	3.9		
			SMN	M _L = 3.8	1.2	0.030	
			SME		1.2	0.020	

1987 8 20
 O = 21 14 55.4 ± 0.14s
 LAT = 22.18 N ± 1.92km
 LONG = 144.38 E ± 2.51km
 DEPTH = 120 km ± 0.49km
 STATIONS USED = 66, STAND DEV = 1.50s

SSE	22.5	298	+iP	21 19 45.5	-0.5		
			PMZ			1.0	0.050
			cpP	21 20 10.0	-0.3		
			cS	21 23 40.0	-0.3		
			esS	21 24 24.0	2.4		
QZH	23.8	282	cP	21 19 58.7	0.4		
NJ2	24.7	299	+P	21 20 07.0	0.0		
MDJ	25.5	335	+P	21 20 15.6	1.3		
DL2	25.6	316	-P	21 20 16.5	0.8		
SNY	26.2	323	cP	21 20 19.8	-1.6		
CN2	26.7	328	cP	21 20 25.0	-0.2		
TIA	27.5	307	P	21 20 32.0	-0.8		
WHN	28.1	294	cP	21 20 37.5	-0.9		
BJI	29.8	313	cP	21 20 52.0	-1.7		
TIY	31.5	307	-P	21 21 08.6	-0.2		
XAN	33.3	299	cP	21 21 22.6	-1.3		

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HHC	33.3	312	cP	21 21 23.6	-0.9		
GYA	34.5	285	-P	21 21 34.8	-0.1		
CD2	37.2	292	P	21 21 56.6	-0.6		
			PMZ			1.0	0.10
LZH	37.7	301	-iP	21 22 02.0	0.1		
			PMZ			1.0	0.060
GTA	41.5	305	+P	21 22 32.9	0.0		
WMQ	51.1	309	-P	21 23 49.7	1.0		

1987 8 21

O=00 26 07.1 ± 0.09s
 LAT=31.69 N ± 1.28km
 LONG= 80.09 E ± 1.22km
 DEPTH= 53 km ± 0.03km
 STATIONS USED = 31, STAND DEV= 1.80s

Ms=4.0 / 1,

KSH	8.4	338	cP	00 28 07.0	-2.7		
			LN			Ms=4.0	8.0 0.80
WMQ	13.5	24	cP	00 29 20.5	2.4		
CD2	20.2	86	(P)	00 30 37.8	-2.9		
KMI	20.9	103	cP	00 30 46.5	-1.8		
GYA	23.8	96	P	00 31 16.0	0.0		
XAN	24.3	77	P	00 31 21.5	0.5		
WHN	29.3	83	cP	00 32 09.5	2.6		

1987 8 21

O=04 52 56.5 ± 0.10s
 LAT=13.20 S ± 2.44km
 LONG=166.71 E ± 2.48km
 DEPTH= 33 km ± 0.98km
 STATIONS USED = 44, STAND DEV= 1.27s

SSE	62.1	316	+iP	05 03 16.0	-0.6		
			PMZ			1.0	0.040
NJ2	64.2	316	+P	05 03 31.0	0.1		
WHN	66.5	312	cP	05 03 45.0	-0.8		
DL2	66.8	323	P	05 03 47.4	0.2		
TIA	67.8	318	cP	05 03 53.6	-0.5		
CN2	68.1	329	+P	05 03 55.0	-0.5		
BJI	70.7	321	cP	05 04 11.0	-0.9		
TIY	71.8	317	+P	05 04 19.0	0.8		
			PMZ			1.0	0.060
XAN	72.3	312	+P	05 04 21.0	-0.1		
KMI	73.0	302	+P	05 04 27.5	1.5		
HHC	74.1	320	cP	05 04 32.7	0.8		
CD2	74.7	307	cP	05 04 35.4	0.3		
BTO	74.9	319	cP	05 04 37.0	0.2		
LZH	76.9	312	-iP	05 04 49.0	0.9		
			PMZ			1.2	0.10
GTA	81.2	314	+iP	05 05 12.3	0.7		

1987 8 21

O=04 56 13.6 ± 0.16s
 LAT= 2.78 N ± 2.41km
 LONG= 97.92 E ± 1.13km
 DEPTH=105 km ± 1.61km
 STATIONS USED = 31, STAND DEV= 2.02s

KMI	22.7	11	cP	05 01 10.0	2.5		
GYA	25.0	19	P	05 01 31.0	1.4		
CD2	28.5	11	cP	05 02 00.0	-1.8		
BJI	40.6	22	cP	05 03 46.5	1.4		
WMQ	41.9	349	P	05 03 55.8	0.5		

1987 8 21

O=15 31 27.2 ± 0.13s
 LAT=18.07 N ± 2.37km
 LONG=120.58 E ± 2.56km
 DEPTH= 34 km ± 0.89km
 STATIONS USED = 42, STAND DEV= 2.18s

M_L=3.9 / 4,

QZH	7.1	345	cP	15 33 09.5	-1.8		
			SMN			M _L =3.8	0.4 0.040
			SME				0.4 0.040
QZN	10.2	277	+P	15 33 51.4	-3.6		
WHN	13.7	337	cP	15 34 43.0	2.0		
GYA	15.3	305	P	15 35 09.4	6.1		
XAN	19.0	329	P	15 35 49.1	-0.2		
CD2	19.9	313	cP	15 35 58.6	-0.5		
TIY	20.8	342	cP	15 36 09.4	0.6		
BJI	22.2	351	cP	15 36 23.5	0.8		
LZH	23.3	324	cP	15 36 34.0	0.9		
BTO	24.2	340	cP	15 36 44.0	1.6		
CN2	26.0	8	-P	15 37 01.8	2.8		
GTA	27.9	324	cP	15 37 16.0	-0.5		
WMQ	37.7	320	cP	15 38 42.5	0.5		

1987 8 21

O=18 20 10.1 ± 0.18s
 LAT= 5.36 S ± 1.50km
 LONG=151.86 E ± 1.54km
 DEPTH= 51 km ± 1.19km
 STATIONS USED = 62, STAND DEV= 1.40s

QZH	44.2	314	P	18 28 18.1	1.7		
WHN	50.6	317	P	18 29 07.8	1.2		
DL2	52.2	330	cP	18 29 18.6	0.3		
MDJ	53.6	340	cP	18 29 28.5	-0.6		
GYA	54.0	308	P	18 29 33.0	1.0		
CN2	54.4	337	cP	18 29 30.0	-5.0		
BJI	55.8	327	cP	18 29 44.5	-0.8		
XAN	56.4	317	+P	18 29 48.3	-0.9		
TIY	56.4	323	cP	18 29 49.3	0.0		

KMI	56.5	305	-P	18 29 51.5	1.1		
CD2	58.4	311	cP	18 30 03.2	-0.2		
HHC	59.0	325	cP	18 30 07.6	0.2		
BTO	59.7	324	-iP	18 30 12.0	-0.4		
LZH	61.0	316	-P	18 30 21.5	0.2		
			PMZ			1.5	0.050
GTA	65.4	318	P	18 30 50.6	-0.1		
WMQ	75.5	318	P	18 31 51.8	0.1		
KSH	82.6	311	P	18 32 32.0	1.9		

1987 8 21

O = 18 22 37.3 ± 0.10s
 LAT = 5.41 S ± 1.27km
 LONG = 151.88 E ± 1.82km
 DEPTH = 43 km ± 0.69km

STATIONS USED = 82, STAND DEV = 1.18s

Ms = 5.6 / 25, m_B = 5.8 / 8

QZH	44.3	314	+P	18 30 46.5	1.6		
			pP	18 30 58.0	1.9		
			S	18 37 17.0	2.9		
			ScS	18 40 40.0	4.0		
			LE			Ms = 5.7	19.0 5.03
SSE	46.7	323	P	18 31 05.0	1.0		
			PMZ				2.0 0.17
			PP	18 32 54.0	0.9		
			S	18 37 52.0	3.6		
			sS	18 38 14.0	5.4		
			eSS	18 41 07.0	-0.9		
			LN			Ms = 5.6	16.0 2.90
			LE				16.0 1.54
GZH	47.1	308	cP	18 31 09.5	2.0		
			sS	18 38 10.0	-4.9		
			LE			Ms = 5.5	22.0 3.54
NJ2	48.8	322	+P	18 31 21.0	0.7		
			PMZ			m _B = 6.0	4.0 0.80
			pP	18 31 35.0	3.4		
			LE			Ms = 5.7	20.0 4.60
WHN	50.7	317	+P	18 31 36.0	1.0		
			pP	18 31 48.0	1.7		
			cS	18 38 50.0	4.4		
DL2	52.2	330	cP	18 31 48.0	1.2		
			sP	18 32 03.5	0.6		
			S	18 39 00.0	-6.1		
			LN			Ms = 5.5	18.0 2.65
TIA	52.7	325	-P	18 31 50.1	0.0		
			PMZ				22.0 0.74
			SMN			m _B = 5.4	9.0 0.49
			LN			Ms = 5.6	17.5 2.38
			LE				14.5 1.09
MDJ	53.7	340	cP	18 31 58.0	0.4		

			pP	18 32 14.0	5.0		
GYA	54.0	308	P	18 32 01.6	1.2		
			pP	18 32 15.6	3.9		
			S	18 39 30.0	-0.6		
			sS	18 39 56.0	4.9		
			LN			Ms = 5.4	28.0 2.00
			LE				28.0 2.40
CN2	54.5	337	+P	18 32 02.0	-1.5		
			PMZ			m _B = 5.8	9.0 1.20
			pP	18 32 17.0	2.0		
			cS	18 39 36.0	-1.8		
			SMN				24.0 3.60
			SME				24.0 2.40
BJI	55.9	327	+P	18 32 13.0	-0.7		
			PMZ			m _B = 5.7	5.0 0.53
			SMN				34.0 2.50
			SME				32.0 2.00
			LN			Ms = 5.6	20.0 2.45
			LE				18.0 2.31
XAN	56.4	317	P	18 32 16.7	-1.0		
			pP	18 32 30.5	1.4		
			SMN			m _B = 5.7	7.0 0.62
			SME				8.0 0.49
			sS	18 40 16.7	-6.5		
			LN			Ms = 5.8	20.0 3.66
			LE				22.0 3.67
TIY	56.5	323	+iP	18 32 17.5	-0.3		
			PMZ			m _B = 5.5	10.0 0.65
			cS	18 40 08.0	3.8		
			SMN				24.0 4.48
			SME				26.0 1.86
			LN			Ms = 5.8	20.0 4.44
KMI	56.6	305	+P	18 32 20.0	1.1		
			cS	18 40 07.0	0.9		
			LN			Ms = 5.5	18.0 2.10
CD2	58.4	311	P	18 32 31.9	0.1		
HHC	59.0	325	+P	18 32 35.9	0.0		
BTO	59.7	324	+iP	18 32 41.0	0.1		
			ePP	18 34 55.0	1.3		
			cS	18 40 45.0	-2.3		
			LN			Ms = 5.8	19.0 2.90
			LE				19.0 2.50
LZH	61.0	316	-P	18 32 49.0	-0.8		
			PMZ				1.5 0.15
			cS	18 41 06.0	2.1		
			LN			Ms = 5.7	18.0 2.05
			LE				20.0 2.26
GTA	65.5	318	+iP	18 33 14.1	-5.0		
			sS	18 42 20.0	1.3		
			LE			Ms = 5.5	22.0 2.25

GTA	44.7	334	+P	20 58 04.0	-0.4
WMQ	53.9	328	P	20 59 14.0	-0.5
1987 8 21					
O=	21 38 55.6			± 0.19s	
LAT=	47.71 S			± 2.84km	
LONG=	99.96 E			± 3.46km	
DEPTH=	8 km			± 0.61km	
STATIONS USED = 25, STAND DEV = 2.35s					
Ms=5.4 / 1,					
XAN	81.8	8	+P	21 51 16.5	-0.9
LZH	83.5	3	cP	21 51 25.5	-0.9
TIA	84.9	14	cP	21 51 33.3	-0.3
TIY	85.8	10	c(P)	21 51 36.0	-1.8
GTA	86.7	360	P	21 51 41.8	-0.8
			LN	Ms=5.4	18.0 0.93
BTO	88.4	8	cP	21 51 49.2	-1.3
BJI	88.6	12	cP	21 51 51.0	-0.1
			cS	22 02 30.0	-6.1
WMQ	91.8	351	cP	21 52 06.0	-0.3
1987 8 22					
O=	00 21 51.9			± 0.05s	
LAT=	43.91 N			± 0.75km	
LONG=	85.34 E			± 0.57km	
DEPTH=	54 km			± 0.15km	
STATIONS USED = 16, STAND DEV = 1.29s					
M _L =4.0 / 7,					
WMQ	1.7	92	-P	00 22 21.5	1.1
			S	00 22 44.5	4.9
XAN	20.8	110	cP	00 26 29.3	-1.5
TIY	21.4	98	P	00 26 37.0	0.0
1987 8 22					
O=	05 09 13.5			± 0.09s	
LAT=	52.19 N			± 1.89km	
LONG=	173.98 E			± 1.10km	
DEPTH=	31 km			± 0.72km	
STATIONS USED = 87, STAND DEV = 1.03s					
Ms=4.9 / 12,					
MDJ	30.0	273	+P	05 15 21.5	-0.6
			PcP	05 18 23.5	0.2
			PP	05 16 22.0	2.0
			cS	05 20 15.0	-2.3
			LN	Ms=4.8	17.0 1.17
CN2	33.0	275	+P	05 15 47.3	-1.0
			pP	05 15 59.0	1.9
			PP	05 17 00.0	1.4
			cS	05 21 04.0	0.2
SNY	35.2	273	+iP	05 16 07.4	0.0

				cPP	05 17 26.0	-0.6
				cS	05 21 38.0	-0.4
				LN	Ms=4.9	22.0 1.36
				LE		18.0 0.70
DL2	38.2	271	+iP	05 16 32.5	0.4	
				LN	Ms=4.9	15.0 0.86
BJI	40.8	276	+P	05 16 55.0	0.8	
				cPP	05 18 32.0	0.3
TIA	42.6	271	cP	05 17 10.1	0.9	
				cpP	05 17 17.5	-0.7
				cS	05 23 32.0	1.9
				LN	Ms=4.8	13.0 0.51
HHC	43.1	280	+P	05 17 14.0	0.6	
SSE	43.6	262	-P	05 17 18.5	1.6	
				PMZ		1.0 0.12
				sP	05 17 31.0	1.2
				PP	05 19 00.0	-0.3
				cS	05 23 48.0	4.0
				cSS	05 26 58.0	6.3
BTO	44.2	281	+iP	05 17 23.5	1.3	
				sP	05 17 35.0	0.0
				cPP	05 19 09.0	2.4
				cS	05 23 56.0	2.4
				LN	Ms=5.1	19.0 0.90
				LE		19.0 1.00
NJ2	44.4	265	+P	05 17 23.5	0.5	
TIY	44.6	276	+iP	05 17 26.0	1.2	
				PMZ		1.0 0.13
				sP	05 17 38.0	0.4
				PP	05 19 13.5	3.7
WHN	48.2	268	+iP	05 17 52.0	-1.2	
				PMZ		0.5 0.40
XAN	49.1	275	+P	05 18 00.5	-0.1	
QZH	49.6	259	P	05 18 05.6	1.2	
LZH	50.8	281	-iP	05 18 14.5	0.5	
				PMZ		1.5 0.28
				pP	05 18 23.0	0.2
				LE	Ms=5.1	20.0 1.13
GTA	51.1	287	+iP	05 18 15.4	-0.3	
				sP	05 18 29.2	0.8
				LE	Ms=5.1	20.0 1.24
CD2	54.4	276	cP	05 18 40.0	-0.6	
				PMZ		1.2 0.19
WMQ	55.1	298	+iP	05 18 45.0	-0.3	
				PMZ		1.5 0.14
				sP	05 18 57.8	-0.5
				PP	05 20 49.0	-0.3
				sS	05 26 40.0	0.4
KMI	59.2	272	+P	05 19 14.5	-0.2	
KSH	64.4	302	P	05 19 49.0	-0.4	

			LE		Ms=4.9	16.0	1.63	MDJ	26.3	336	cP	04 24 04.1	-1.1								
CN2	27.4	329	cP	04 03 21.0	-5.4			SNY	27.0	324	cP	04 24 07.5	-3.7								
TIA	28.1	308	cP	04 03 29.9	-2.2			WHN	28.4	295	P	04 24 28.3	3.8								
			cS	04 08 12.5	-0.3						cS	04 29 14.0	6.0								
			LN			Ms=5.0	14.0	1.77	BJI	30.4	314	cP	04 24 42.5	0.2							
			LE				14.0	0.65	TIY	32.0	308	cP	04 24 56.0	-0.7							
WHN	28.5	295	P	04 03 40.0	3.9			XAN	33.7	300	cP	04 25 09.0	-1.8								
			cS	04 08 20.0	0.0						PP	04 26 20.0	-3.3								
			LN			Ms=4.7	14.0	0.90			LN			Ms=4.7	12.0	0.51					
BJI	30.5	314	cP	04 03 51.5	-1.9			BTO	34.9	311	cP	04 25 21.0	-0.3								
			LN			Ms=4.7	18.0	0.59	GTA	42.0	306	cP	04 26 19.1	-1.6							
			LE				16.0	0.83			LN			Ms=4.6	15.0	0.40					
TIY	32.1	308	cP	04 04 04.8	-3.2			WMQ	51.7	310	cP	04 27 36.0	-0.8								
			cS	04 09 14.5	-2.4			KSH	60.4	304	cP	04 28 44.0	4.7								
			SME				17.0	0.47													
			LN			Ms=4.7	14.0	0.73	1987 8 24												
XAN	33.7	300	cP	04 04 21.5	-0.8				O=06 09 42.9			± 0.37s									
			LN			Ms=4.9	13.0	1.05	LAT=19.91 S			± 3.71km									
HHC	34.0	313	cP	04 04 24.4	0.2				LONG=70.45 W			± 3.82km									
			cS	04 09 47.0	1.1				DEPTH=16 km			± 2.63km									
			LN			Ms=4.8	16.0	0.69	STATIONS USED = 33, STAND DEV = 2.83s												
			LE				15.0	0.56	KSH	145.2	49	PKP	06 29 22.0	1.0							
BTO	34.9	311	cP	04 04 32.0	-0.5				WMQ	150.0	33	PKP	06 29 32.7	3.9							
			LN			Ms=5.0	15.0	0.80	MDJ	150.3	330	cPKP	06 29 32.2	3.1							
			LE				15.0	1.10	GTA	158.8	21	cPKP	06 29 40.2	-0.8							
CD2	37.6	293	cP	04 04 56.0	1.1				1987 8 24												
KMI	38.4	284	-P	04 05 07.0	5.1				O=08 58 10.2			± 0.11s									
GTA	42.0	306	P	04 05 29.8	-2.2				LAT=24.48 N			± 0.63km									
			LN			Ms=5.0	18.0	1.03	LONG=98.48 E			± 0.88km									
WMQ	51.7	310	P	04 06 46.5	-1.5				DEPTH=14 km			± 1.45km									
													STATIONS USED = 7, STAND DEV = 2.40s								
													M_L = 3.7 / 4,								
													KMI	3.9	80	cPg	08 59 19.5	-0.4			
																Sg	09 00 07.5	-5.8			
																SME			M _L = 3.7	1.0	0.18
													1987 8 24								
													O=09 24 40.0			± 0.10s					
													LAT=23.13 N			± 1.56km					
													LONG=94.34 E			± 1.43km					
													DEPTH=93 km			± 0.50km					
													STATIONS USED = 92, STAND DEV = 1.69s								
													m_B = 5.9 / 17								
SSE	22.9	300	cP	04 23 33.0	0.2				KMI	7.9	74	+iP	09 26 38.5	3.9							
			cS	04 27 36.0	-0.1							S	09 27 57.0	-5.9							
			SME			m _B = 5.3	12.0	1.09				LN			8.0	9.50					
			sS	04 27 51.0	-0.3				CD2	11.4	45	P	09 27 22.6	1.0							
			eSS	04 28 18.0	-2.2							S	09 29 32.0	4.6							
			LN			Ms=4.4	12.0	0.52				LE			8.0	2.74					
			LE				12.0	0.27													
QZH	23.9	284	+P	04 23 44.0	1.4																
			cS	04 27 54.0	0.1																
			SMN			m _B = 5.2	9.0	0.59													
			LE			Ms=4.3	13.0	0.40													
DL2	26.3	317	cP	04 24 04.9	0.2																

1987 8 24

O = 10 35 31.8 ± 0.12s
 LAT = 36.57 N ± 1.95km
 LONG = 71.46 E ± 1.77km
 DEPTH = 108 km ± 0.44km

STATIONS USED = 44, STAND DEV = 2.05s

KSH	4.6	50	P	10 36 43.0	2.4		
			S	10 37 35.0	2.3		
			LN			6.0	4.10
WMQ	14.4	55	cP	10 38 49.0	-2.3		
			sP	10 39 24.5	2.9		
			S	10 41 22.5	-5.1		
			LN			1.5	0.15
GTA	22.5	74	-P	10 40 24.6	1.3		
			pP	10 40 48.8	3.4		
			eS	10 44 21.0	2.7		
LZH	26.0	81	P	10 40 59.0	1.9		
CD2	27.4	92	P	10 41 10.3	1.1		
XAN	30.6	83	P	10 41 37.3	-0.4		
GYA	31.5	99	P	10 41 46.0	-0.1		
TIY	32.5	75	+P	10 41 55.5	0.8		
BJI	35.0	70	eP	10 42 16.5	0.6		
NJ2	39.1	82	eP	10 42 51.5	1.1		

1987 8 25

O = 03 26 21.7 ± 0.09s
 LAT = 34.58 N ± 1.93km
 LONG = 26.43 E ± 1.59km
 DEPTH = 23 km ± 0.65km

STATIONS USED = 21, STAND DEV = 1.72s

WMQ	47.4	60	P	03 34 56.4	-0.4		
GTA	57.3	62	eP	03 36 09.6	-1.4		
CD2	63.6	69	eP	03 36 55.0	1.1		
XAN	66.2	64	P	03 37 09.5	-0.8		
GYA	67.9	72	P	03 37 22.8	1.2		
BJI	68.6	56	eP	03 37 28.0	2.4		

1987 8 25

O = 09 47 01.7 ± 0.07s
 LAT = 43.52 N ± 2.34km
 LONG = 145.96 E ± 1.37km
 DEPTH = 79 km ± 0.86km

STATIONS USED = 56, STAND DEV = 1.54s

MDJ	11.8	281	eP	09 49 49.6	0.3		
CN2	14.9	278	eP	09 50 27.8	-1.1		
			eS	09 53 14.0	2.0		
BJI	22.4	271	eP	09 51 54.0	-1.0		
SSE	23.2	246	eP	09 52 00.7	-1.7		
TIA	23.2	262	eP	09 52 03.0	0.1		

			eS	09 56 09.0	3.4		
NJ2	24.2	251	+P	09 52 13.5	1.5		
HHC	25.5	276	eP	09 52 25.2	0.2		
TIY	26.0	269	eP	09 52 31.4	2.1		
WHN	28.2	253	eP	09 52 48.5	-0.7		
XAN	30.2	264	eP	09 53 08.7	1.6		
LZH	32.9	272	eP	09 53 28.5	-2.7		
GTA	34.5	279	P	09 53 45.8	1.2		
CD2	35.5	264	eP	09 53 54.8	1.4		
GYA	36.0	255	eP	09 53 58.8	1.1		
WMQ	41.4	291	eP	09 54 42.2	0.1		

1987 8 26

O = 01 40 30.3 ± 0.10s
 LAT = 9.36 N ± 1.50km
 LONG = 122.47 E ± 2.41km
 DEPTH = 23 km ± 0.10km

STATIONS USED = 82, STAND DEV = 1.49s

Ms = 5.2 / 41, m_B = 5.4 / 8

QZN	15.6	310	eP	01 44 08.5	-1.6		
			sP	01 44 21.0	0.8		
			S	01 47 04.0	2.3		
			LN			Ms = 5.3	11.0 3.50
			LE				12.0 6.80
GZH	16.2	328	eP	01 44 19.5	1.0		
			LN			Ms = 5.2	18.0 3.16
			LE				12.0 5.90
SSE	21.7	357	+P	01 45 22.0	0.4		
			PMZ				1.0 0.14
			esP	01 45 35.0	2.7		
			sS	01 49 29.0	2.0		
			LN			Ms = 5.0	12.0 1.04
			LE				12.0 1.91
WHN	22.4	341	eP	01 45 32.0	3.1		
			S	01 49 34.0	5.6		
			LE			Ms = 4.4	13.0 0.60
GYA	22.7	321	P	01 45 32.0	0.3		
			sP	01 45 45.0	2.8		
			S	01 49 35.0	1.9		
			LN			Ms = 5.6	12.0 8.00
			LE				12.0 5.10
NJ2	22.8	352	-P	01 45 34.8	1.6		
			S	01 49 43.0	6.8		
			SMN			m _B = 5.7	8.6 2.50
			LE			Ms = 5.3	12.0 3.90
KMI	24.5	312	+P	01 45 50.0	0.7		
			sP	01 46 03.0	3.3		
			eS	01 50 06.5	0.8		
			sS	01 50 21.0	3.8		
			SS	01 51 03.0	4.0		

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BTO	33.0	343	cP	01 51 19.6	-1.8		
CN2	34.4	4	P	01 51 32.0	-1.4		
MDJ	35.7	9	cP	01 51 44.2	0.0		
GTA	36.1	330	P	01 51 47.8	-0.2		
			S	01 57 18.0	-6.0		
			SMN	$m_B = 5.4$	10.0	0.56	
			SME		9.0	0.57	
			LN	$M_s = 5.5$	18.0	2.85	
			LE		13.0	2.45	
WMQ	45.7	325	P	01 53 07.7	1.0		
KSH	51.0	314	P	01 53 50.0	1.6		

1987 8 26

O=02 00 38.6 ± 0.12s
 LAT= 9.21 N ± 1.66km
 LONG=122.32 E ± 2.37km
 DEPTH= 34 km ± 0.36km

STATIONS USED = 41, STAND DEV = 1.74s

QZH	16.0	348	cP	02 04 27.0	3.6		
GZH	16.3	329	P	02 04 30.0	3.9		
SSE	21.8	357	+P	02 05 30.5	0.8		
			PMZ		1.0	0.030	
WHN	22.5	342	P	02 05 40.5	3.9		
GYA	22.7	321	P	02 05 39.0	0.4		
NJ2	23.0	352	cP	02 05 41.5	0.3		
XAN	27.6	335	P	02 06 23.2	-2.1		
CD2	27.7	324	+iP	02 06 24.9	-0.9		
			PMZ		1.0	0.040	
TIY	29.7	344	cP	02 06 43.7	-0.7		
BJI	31.2	351	cP	02 06 56.0	-1.1		
MDJ	35.8	9	cP	02 07 36.5	-0.8		
GTA	36.2	330	P	02 07 39.8	-0.6		

1987 8 26

O=04 37 43.9 ± 0.14s
 LAT= 9.18 N ± 1.82km
 LONG=122.13 E ± 2.56km
 DEPTH= 32 km ± 0.37km

STATIONS USED = 11, STAND DEV = 2.93s

SSE	21.8	358	P	04 42 37.7	2.2		
			cS	04 46 32.0	1.8		
GYA	22.6	322	cP	04 42 44.2	0.9		
CD2	27.6	324	cP	04 43 27.3	-3.3		
MDJ	35.9	9	cP	04 44 48.5	5.1		

1987 8 26

O=06 33 20.9 ± 0.07s
 LAT=21.30 S ± 1.47km
 LONG=174.42 W ± 1.20km
 DEPTH= 120 km ± 0.94km

STATIONS USED = 26, STAND DEV = 1.17s

QZH	79.7	302	cP	06 45 18.0	0.6		
MDJ	83.1	323	cP	06 45 35.0	-0.5		
CN2	85.0	321	cP	06 45 44.0	-0.9		
WHN	85.6	305	cP	06 45 47.0	-0.9		
BJI	88.8	314	cP	06 46 04.0	0.7		
GYA	90.0	298	P	06 46 11.4	2.6		
XAN	91.3	306	P	06 46 15.6	0.6		
KMI	92.7	296	cP	06 46 23.0	1.4		

1987 8 26

O=06 56 46.3 ± 0.12s
 LAT=20.68 S ± 0.78km
 LONG=178.39 W ± 1.27km
 DEPTH=576 km ± 1.11km

STATIONS USED = 81, STAND DEV = 0.74s

$m_B = 5.8 / 39$

QZH	76.2	304	-iP	07 07 38.0	-0.1		
			pP	07 09 38.0	0.0		
			sP	07 10 30.0	-5.4		
			iS	07 16 38.0	0.9		
			ScS	07 16 57.5	-0.2		
			SS	07 21 47.0	-2.1		
SSE	77.5	310	-P	07 07 44.0	-1.2		
			PMZ		1.0	0.090	
			pP	07 09 44.0	-1.7		
			PP	07 10 48.0	-3.2		
			S	07 16 52.0	2.6		
			SME	$m_B = 5.6$	12.0	1.35	
			ScS	07 17 12.0	3.7		
GZH	79.5	300	-iP	07 07 56.2	0.6		
			PMZ	$m_B = 5.8$	5.0	1.98	
			pP	07 09 56.0	-0.8		
			sP	07 10 55.0	1.3		
			S	07 17 13.0	3.3		
			SME	$m_B = 5.8$	9.0	1.81	
NJ2	79.7	310	-iP	07 07 57.0	0.2		
			PMZ	$m_B = 5.6$	5.0	1.20	
			PP	07 11 03.0	-5.6		
			S	07 17 08.0	-3.9		
			SME	$m_B = 5.9$	8.0	1.70	
MDJ	80.4	325	-iP	07 08 00.5	-0.1		
			PMZ	$m_B = 5.6$	7.0	1.82	
			pP	07 10 02.0	-0.2		
			iS	07 17 23.0	1.9		
			SMN	$m_B = 6.0$	8.0	2.43	
			sS	07 20 58.0	3.2		
QZN	80.6	294	P	07 08 01.8	0.4		
			PMZ	$m_B = 5.5$	6.0	1.30	
			PP	07 11 14.0	-2.4		

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SSE	21.9	358	+P	10 13 18.5	0.1		
			PMZ			1.0	0.020
GYA	22.6	322	P	10 13 30.0	3.8		
NJ2	23.0	353	eP	10 13 30.2	0.6		
CD2	27.6	324	eP	10 14 13.3	-0.1		
MDJ	35.9	9	eP	10 15 24.0	-2.0		

1987 8 26
 O=10 10 52.2 ± 0.12s
 LAT= 3.59 S ± 1.48km
 LONG=135.92 E ± 2.87km
 DEPTH= 36 km ± 0.77km
 STATIONS USED = 36, STAND DEV = 1.77s
 m_B = 5.3 / 1

SSE	37.2	339	eP	10 18 02.3	-0.2		
			epP	10 18 13.0	0.6		
WHN	39.7	330	P	10 18 24.5	1.5		
KMI	43.0	313	eP	10 18 50.5	-0.2		
XAN	45.3	328	-P	10 19 08.2	-0.3		
CD2	46.0	321	eP	10 19 14.1	-0.4		
TIY	46.5	334	eP	10 19 18.1	-0.4		
BJI	47.0	339	eP	10 19 22.0	-0.5		
MDJ	48.3	354	eP	10 19 31.0	-1.5		
HHC	49.5	336	eP	10 19 41.6	-0.2		
LZH	49.6	326	-iP	10 19 43.0	0.7		
			PMZ			1.5	0.080
BTO	50.0	334	eP	10 19 45.2	-0.1		
GTA	54.2	326	+iP	10 20 16.4	-0.5		
WMQ	64.0	323	P	10 21 25.0	0.2		

1987 8 26
 O=10 58 54.3 ± 0.08s
 LAT=21.82 N ± 1.10km
 LONG= 94.47 E ± 0.99km
 DEPTH=123 km ± 1.14km
 STATIONS USED = 13, STAND DEV = 2.03s

KMI	8.3	65	eP	11 00 55.5	2.4		
LSA	8.4	340	P	11 00 52.2	-2.8		
WMQ	22.6	347	eP	11 03 48.6	2.7		

1987 8 26
 O=16 48 23.3 ± 0.12s
 LAT=35.35 N ± 1.24km
 LONG=111.29 E ± 1.37km
 DEPTH= 14 km ± 0.06km
 STATIONS USED = 19, STAND DEV = 3.05s

						M _L = 3.4 / 15,	
XAN	2.4	237	Pn	16 49 02.9	0.9		
			Pg	16 49 08.9	4.1		
			Sn	16 49 34.1	1.7		

						Sg	16 49 42.6	5.6	
						SMN	M _L = 3.2	0.4	0.17
						SME		0.4	0.13
TIY	2.5	21	ePn	16 49 02.6	-1.9				
						Pg	16 49 05.2	-2.8	
						S*	16 49 36.8	-1.3	
						SMN	M _L = 3.6	1.5	0.36
						SME		1.0	0.35
TIA	4.8	78	eP*	16 49 41.8	-1.8				
						S*	16 50 39.7	-3.7	
						SMN	M _L = 3.2	0.3	0.040
						SME		0.3	0.020
BTO	5.3	350	Pn	16 49 46.3	3.3				
						Pg	16 50 01.3	3.9	
						Sg	16 51 15.0	4.7	
						SMN	M _L = 3.3	1.0	0.030
						SME		1.0	0.030
WHN	5.4	151	ePg	16 49 59.0	-0.4				
						Sg	16 51 08.0	-5.7	
						SME	M _L = 3.4	1.0	0.040
LZH	6.1	279	ePg	16 50 16.0	4.7				
						Sg	16 51 36.0	1.5	
						SMN	M _L = 3.9	1.0	0.090
						SME		1.0	0.070
GYA	9.7	205	P	16 50 42.8	-3.2				
GTA	10.0	297	eP	16 50 46.4	-3.5				
						SMN		0.9	0.010

1987 8 26
 O=19 32 49.4 ± 0.11s
 LAT= 2.18 N ± 1.49km
 LONG=126.61 E ± 1.91km
 DEPTH= 44 km ± 0.32km
 STATIONS USED = 80, STAND DEV = 1.25s
 M_s = 4.5 / 9,

QZN	23.4	317	P	19 37 56.4	0.5		
			PP	19 38 30.0	2.4		
			eS	19 42 05.0	2.5		
			LN			M _s = 4.5	12.0 0.60
QZH	23.9	342	eP	19 38 00.0	-0.3		
			eS	19 42 10.0	-0.5		
			LN			M _s = 4.7	30.0 2.64
GZH	24.4	329	+iP	19 38 06.3	0.8		
			eS	19 42 16.0	-3.5		
SSE	29.2	350	P	19 38 50.1	0.7		
			PMZ				1.0 0.030
			eS	19 43 34.0	-3.3		
			PcS	19 45 36.0	-0.8		
			LN			M _s = 4.5	28.0 1.09
WHN	30.5	339	eP	19 39 01.0	0.1		

		S	19 43 52.0	-5.0		
NJ2	30.6	347	eP	19 39 02.5	0.8	
GYA	30.8	323	P	19 39 03.4	-0.4	
KMI	32.4	317	+P	19 39 17.0	-0.8	
		eS	19 44 29.0	1.0		
TIA	35.0	347	eP	19 39 41.1	1.3	
XAN	35.7	334	P	19 39 45.7	-0.7	
CD2	35.8	325	eP	19 39 46.2	-0.9	
TIY	37.7	341	P	19 40 02.7	0.0	
BJI	38.9	347	eP	19 40 12.5	0.1	
SNY	39.6	356	-iP	19 40 19.0	0.7	
		S	19 46 20.0	3.3		
		LN	Ms=4.5	29.0	0.64	
LZH	39.8	331	-P	19 40 21.0	0.7	
		PMZ		1.8	0.13	
BTO	41.1	341	eP	19 40 31.0	0.0	
		pP	19 40 39.5	-2.7		
		eS	19 46 42.5	1.9		
CN2	41.5	359	eP	19 40 33.0	-0.9	
		pP	19 40 42.0	-3.2		
		eS	19 46 45.0	-0.8		
		LE	Ms=4.6	22.0	0.60	
MDJ	42.3	3	eP	19 40 41.2	0.0	
		eS	19 46 58.0	-0.9		
LSA	43.4	313	-iP	19 40 50.2	0.0	
GTA	44.4	330	P	19 40 57.2	-0.6	
		PcP	19 42 42.3	1.6		
		ScP	19 46 31.5	4.0		
		eS	19 47 26.0	-2.6		
		ScS	19 50 52.0	3.6		
		LN	Ms=4.9	24.0	0.67	
		LE		25.0	0.82	
WMQ	53.9	326	P	19 42 10.0	-1.3	
KSH	59.0	316	eP	19 42 50.0	2.1	
		eS	19 50 55.0	5.2		
		csS	19 51 11.0	1.7		

1987 8 27

O=01 32 14.2 ± 0.10s
 LAT=43.19 N ± 1.04km
 LONG= 82.45 E ± 0.86km
 DEPTH= 5 km ± 0.39km
 STATIONS USED = 7, STAND DEV= 2.33s

M_L=3.2 / 7,

WMQ	3.9	79	cPg	01 33 25.9	3.2	
			Sg	01 34 12.8	-2.7	
			SMN	M _L =3.1	0.6	0.040

1987 8 27

O=11 37 31.9 ± 0.15s

		LAT=24.04 N	± 2.23km			
		LONG=121.60 E	± 2.22km			
		DEPTH= 13 km	± 0.97km			
		STATIONS USED = 47,	STAND DEV= 2.14s			
		M _s =4.3 / 8,	M _L =4.3 / 12,			
QZH	2.9	289	ePn	11 38 18.4	0.4	
			Sn	11 38 49.8	-4.7	
			SMN	M _L =3.8	0.3	0.49
			SME		0.3	0.29
			LE		8.0	2.14
SSE	7.0	357	-Pn	11 39 15.5	0.4	
			Sn	11 40 34.0	-3.3	
			LN	Ms=4.2	6.0	0.42
			LE		6.0	0.99
GZH	7.6	265	ePn	11 39 25.5	2.2	
			eSn	11 40 47.5	-4.6	
			LE	Ms=4.0	13.0	1.43
WHN	9.1	317	eP	11 39 44.0	-2.7	
			LN		3.0	1.60
TIA	12.7	343	eP	11 40 34.8	-1.0	
			LN	Ms=4.1	10.0	0.56
GYA	13.7	283	P	11 40 49.6	0.4	
			S	11 43 22.6	0.6	
XAN	14.9	315	eP	11 41 04.3	0.0	
TIY	15.7	332	eP	11 41 16.8	1.6	
			LN	Ms=4.3	12.0	0.69
			LE		12.0	0.54
BJI	16.6	345	P	11 41 27.5	1.3	
CD2	17.2	297	eP	11 41 32.0	-2.4	
HHC	18.8	336	eP	11 41 57.8	4.5	
BTO	19.2	332	eP	11 42 00.0	1.9	
			eS	11 45 26.0	-2.5	
			LN	Ms=4.5	12.0	0.70
			LE		12.0	0.50
LZH	19.5	312	-P	11 42 02.5	0.9	
			PMZ		1.5	0.050
WMQ	34.0	314	eP	11 44 19.2	1.0	

1987 8 27

O=14 51 58.1 ± 0.29s
 LAT= 8.35 N ± 1.47km
 LONG=125.32 E ± 0.79km
 DEPTH= 52 km ± 3.22km
 STATIONS USED = 22, STAND DEV= 2.79s

WHN	24.3	337	eP	14 57 09.5	-3.1	
XAN	29.7	332	eP	14 58 01.0	-0.8	
BJI	32.6	347	eP	14 58 25.0	-2.3	
LZH	33.9	328	eP	14 58 39.5	1.2	
HHC	34.6	341	eP	14 58 44.6	-0.1	
GTA	38.5	328	eP	14 59 18.1	0.9	

1987 8 27
O = 15 55 45.8 ± 0.10s
LAT = 38.08 N ± 0.96km
LONG = 74.02 E ± 0.54km
DEPTH = 169 km ± 1.46km
STATIONS USED = 14, STAND DEV = 1.94s

KSH	2.1	48	-iP	15 56 24.0	0.6		
			S	15 56 53.0	1.2		
			LE			0.5	5.50
WMQ	11.8	57	eP	15 58 29.0	-1.2		
			eS	16 00 36.5	-2.9		
			SS	16 01 02.0	-3.6		
			LN			2.0	0.040
GTA	20.1	78	P	16 00 13.3	4.4		

1987 8 27
O = 16 41 45.5 ± 0.09s
LAT = 37.78 N ± 1.43km
LONG = 72.54 E ± 1.13km
DEPTH = 122 km ± 0.43km
STATIONS USED = 19, STAND DEV = 2.00s

KSH	3.2	57	eP	16 42 38.0	2.5		
			S	16 43 16.0	3.4		
			LE			0.5	2.90
WMQ	13.0	58	eP	16 44 49.3	2.7		
LSA	17.4	112	P	16 45 42.8	-0.3		
GTA	21.4	77	P	16 46 25.7	1.0		
LZH	25.0	84	eP	16 47 00.0	-0.2		

1987 8 27
O = 16 46 48.1 ± 0.07s
LAT = 38.92 N ± 1.56km
LONG = 23.75 E ± 1.28km
DEPTH = 24 km ± 0.29km
STATIONS USED = 47, STAND DEV = 1.18s
M_s = 4.8 / 1,

WMQ	47.2	62	P	16 55 22.4	1.1		
GTA	57.2	63	P	16 56 36.1	-0.5		
LZH	61.6	65	eP	16 57 04.0	-2.8		
BTO	63.6	58	eP	16 57 20.0	-0.2		
CD2	64.1	70	P	16 57 23.6	0.1		
HHC	64.5	57	+P	16 57 26.8	0.8		
XAN	66.2	65	eP	16 57 34.7	-2.2		
KMI	66.5	76	eP	16 57 42.0	3.4		
TIY	66.7	60	P	16 57 39.8	-0.2		
			LN				
						M _s = 4.8	24.0 0.45
BJI	67.9	56	eP	16 57 47.0	-0.7		
GYA	68.7	73	P	16 57 51.8	-0.6		
CN2	71.5	48	eP	16 58 10.6	1.0		

SNY 71.6 51 eP 16 58 12.2 2.3

1987 8 27
O = 18 08 07.3 ± 0.16s
LAT = 6.29 S ± 0.85km
LONG = 130.16 E ± 1.15km
DEPTH = 145 km ± 1.72km
STATIONS USED = 39, STAND DEV = 1.07s

NJ2	39.6	345	+iP	18 15 27.7	1.1		
WHN	39.6	338	+P	18 15 28.0	1.3		
GYA	39.7	326	P	18 15 27.8	0.1		
KMI	41.1	321	eP	18 15 40.5	1.8		
CD2	44.8	327	eP	18 16 08.4	-0.3		
XAN	44.9	335	eP	18 16 09.4	0.1		
TIY	46.8	341	P	18 16 24.7	0.2		
BJI	47.9	346	eP	18 16 32.5	-0.3		
LZH	48.9	332	eP	18 16 41.0	0.4		
CN2	50.0	356	-P	18 16 48.5	-1.0		
GTA	53.4	331	-iP	18 17 15.0	0.0		
WMQ	62.9	327	P	18 18 21.0	0.2		

1987 8 27
O = 23 00 20.6 ± 0.11s
LAT = 1.91 N ± 1.03km
LONG = 127.31 E ± 1.29km
DEPTH = 121 km ± 1.27km
STATIONS USED = 31, STAND DEV = 1.58s

XAN	36.3	334	eP	23 07 13.9	-0.6		
CD2	36.4	325	P	23 07 15.9	0.0		
TIY	38.2	341	eP	23 07 29.0	-1.2		
BJI	39.3	346	eP	23 07 42.0	2.6		
LZH	40.3	330	eP	23 07 49.5	1.0		
GTA	44.9	330	P	23 08 25.6	-0.1		
WMQ	54.5	325	P	23 09 38.0	-0.8		

1987 8 28
O = 03 55 25.2 ± 0.10s
LAT = 9.18 N ± 1.35km
LONG = 122.38 E ± 2.06km
DEPTH = 35 km ± 0.32km
STATIONS USED = 13, STAND DEV = 2.00s

SSE	21.8	357	P	04 00 17.1	0.4		
			PMZ				1.0 0.010
			pP	04 00 27.5	1.7		
			esS	04 04 26.0	0.3		
WHN	22.5	342	eP	04 00 27.5	3.8		
NJ2	23.0	352	eP	04 00 28.5	0.3		
CD2	27.7	324	eP	04 01 11.3	-1.6		
LZH	31.7	331	eP	04 01 47.5	-0.6		

1987 8 28
 O = 04 35 32.5 ± 0.14s
 LAT = 9.19 N ± 1.82km
 LONG = 122.06 E ± 2.96km
 DEPTH = 32 km ± 0.53km
 STATIONS USED = 25, STAND DEV = 2.34s
 SSE 21.8 358 P 04 40 27.5 3.5
 PMZ 1.2 0.030
 sP 04 40 40.5 3.8
 eS 04 44 24.0 5.5
 sS 04 44 39.0 6.7
 WHN 22.4 342 eP 04 40 29.5 -0.6
 CD2 27.5 324 eP 04 41 19.0 0.3
 BJI 31.2 351 eP 04 41 50.0 -1.1
 LZH 31.5 331 eP 04 41 52.0 -2.2
 MDJ 35.9 9 eP 04 42 33.5 1.5
 WMQ 45.6 325 eP 04 43 47.0 -5.1

1987 8 28
 O = 07 47 41.3 ± 0.06s
 LAT = 6.52 S ± 0.50km
 LONG = 128.07 E ± 0.11km
 DEPTH = 396 km ± 0.83km
 STATIONS USED = 21, STAND DEV = 0.87s
 SSE 38.0 350 +P 07 54 25.0 0.3
 PMZ 0.8 0.010
 WHN 39.1 341 eP 07 54 35.0 0.9
 NJ2 39.3 348 +P 07 54 36.5 0.6
 BJI 47.6 348 eP 07 55 40.5 -0.9

1987 8 28
 O = 13 01 11.9 ± 0.07s
 LAT = 11.16 S ± 1.08km
 LONG = 161.69 E ± 0.84km
 DEPTH = 36 km ± 0.86km
 STATIONS USED = 21, STAND DEV = 1.16s
 CN2 63.9 332 eP 13 11 42.4 -1.4
 BJI 66.1 323 eP 13 11 57.0 -1.4
 TIY 67.0 319 eP 13 12 07.0 3.0
 KMI 67.8 303 eP 13 12 10.0 0.7
 CD2 69.5 309 eP 13 12 19.3 -0.5
 BTO 70.2 321 eP 13 12 23.4 -0.5
 LZH 71.9 314 eP 13 12 34.5 0.2
 GTA 76.3 315 P 13 13 00.0 0.2

1987 8 28
 O = 13 38 00.1 ± 0.13s
 LAT = 37.55 N ± 1.20km
 LONG = 112.54 E ± 1.12km
 DEPTH = 17 km ± 0.23km

STATIONS USED = 13, STAND DEV = 3.52s
 M_L = 3.1 / 10,
 TIY 0.2 332 +iPg 13 38 01.9 -2.5
 Sg 13 38 04.7 -2.9
 SMN M_L = 3.1 0.3 2.84
 SME 0.2 2.95
 BTO 3.6 328 Pg 13 39 02.4 -1.9
 SMN M_L = 3.1 0.6 0.060
 SME 0.6 0.050
 TIA 3.9 109 ePg 13 39 09.4 0.1
 Sg 13 39 59 -3.5
 SMN M 2.8 0.4 0.020
 SME 0.6 0.020
 LZH 7.1 261 ePg 13 40 11.5 5.2

1987 8 28
 O = 16 44 45.8 ± 0.12s
 LAT = 10.26 N ± 0.78km
 LONG = 126.20 E ± 1.32km
 DEPTH = 58 km ± 1.39km
 STATIONS USED = 47, STAND DEV = 1.06s
 M_s = 4.7 / 2,
 SSE 21.2 348 eP 16 49 30.0 0.7
 S 16 53 18.0 2.2
 sS 16 53 32.0 -5.7
 NJ2 22.7 344 +P 16 49 45.3 1.4
 WHN 23.0 333 eP 16 49 47.8 1.2
 GYA 24.5 314 P 16 50 02.0 0.6
 TIA 27.1 344 eP 16 50 26.4 0.7
 CD2 29.3 318 P 16 50 44.2 -0.9
 TIY 30.0 338 eP 16 50 51.6 -0.1
 LN M_s = 4.8 15.0 1.09
 BJI 31.0 345 eP 16 51 01.0 0.9
 SNY 31.5 356 eP 16 51 05.0 0.0
 LZH 32.7 325 P 16 51 16.0 0.1
 BTO 33.4 337 eP 16 51 22.0 0.2
 eS 16 56 37.0 -0.8
 GTA 37.3 325 P 16 51 54.7 -0.4
 LE M_s = 4.6 13.0 0.37
 WMQ 47.2 322 eP 16 53 13.0 -2.1

1987 8 29
 O = 00 31 49.1 ± 0.10s
 LAT = 4.09 S ± 1.13km
 LONG = 152.36 E ± 1.21km
 DEPTH = 159 km ± 0.61km
 STATIONS USED = 63, STAND DEV = 0.93s
 QZH 43.7 313 eP 00 39 41.0 0.8
 SSE 45.9 322 -P 00 39 58.6 0.7
 PMZ 1.0 0.060

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QZN	47.7	300	eP	00 40 12.9	0.8
NJ2	48.0	321	-P	00 40 15.3	1.0
WHN	50.0	316	+P	00 40 30.5	0.7
MDJ	52.6	340	eP	00 40 48.5	-0.6
CN2	53.5	336	eP	00 40 54.0	-1.5
			PcP	00 41 58.0	-1.7
GYA	53.6	307	P	00 40 57.4	0.8
			PcP	00 42 01.6	1.4
BJI	55.1	326	P	00 41 06.0	-1.0
TIY	55.7	322	+P	00 41 11.8	0.0
XAN	55.8	316	eP	00 41 12.0	-0.5
KMI	56.2	304	+P	00 41 17.0	1.3
CD2	57.9	310	eP	00 41 27.9	0.4
			PMZ		1.0 0.070
BTO	59.0	323	eP	00 41 34.8	0.0
LZH	60.4	316	-iP	00 41 45.0	0.3
			PMZ		1.5 0.12
GTA	64.8	317	-iP	00 42 14.0	0.1
WMQ	74.9	317	P	00 43 14.5	-0.5
KSH	82.1	311	P	00 43 56.0	1.8

1987 8 29

O = 10 12 57.0 ± 0.08s
 LAT = 37.60 N ± 1.93km
 LONG = 142.98 E ± 1.20km
 DEPTH = 39 km ± 1.58km
 STATIONS USED = 43, STAND DEV = 1.62s
 Ms = 4.3 / 2,

MDJ	12.3	309	eP	10 15 55.0	2.5
SSE	19.1	257	eP	10 17 19.7	0.1
			epP	10 17 27.5	-0.6
			LN	Ms=4.2	20.0 0.74
TIA	20.7	274	eP	10 17 34.8	-2.0
TIY	24.1	280	eP	10 18 09.0	-1.8
			LE	Ms=4.4	13.0 0.55
WHN	24.7	262	P	10 18 16.8	0.8
BTO	25.7	287	eP	10 18 25.0	-0.6
XAN	27.8	273	eP	10 18 44.4	-0.3
GYA	32.5	261	P	10 19 27.8	0.6
CD2	32.9	270	eP	10 19 30.1	-0.3
GTA	33.6	287	P	10 19 37.5	1.2
KMI	36.3	262	eP	10 20 01.0	1.6
WMQ	41.7	297	eP	10 20 46.0	1.7

1987 8 29

O = 12 51 11.8 ± 0.10s
 LAT = 6.05 N ± 1.54km
 LONG = 126.00 E ± 3.11km
 DEPTH = 32 km ± 0.17km
 STATIONS USED = 22, STAND DEV = 2.54s

QZN	20.3	311	eP	12 55 49.6	1.1
BJI	35.0	347	(P)	12 58 06.0	2.5
LZH	36.1	329	eP	12 58 12.0	-1.7
MDJ	38.5	4	eP	12 58 34.1	0.5
GTA	40.7	328	eP	12 58 49.6	-2.5
			PcP	13 00 49.6	-3.3

1987 8 29

O = 14 15 17.8 ± 0.14s
 LAT = 56.64 S ± 2.85km
 LONG = 25.69 W ± 4.03km
 DEPTH = 29 km ± 0.77km
 STATIONS USED = 21, STAND DEV = 2.83s

NJ2	145.3	120	-PKP	14 34 53.6	-0.3
SSE	145.6	124	PKP	14 34 54.1	-0.3
TIA	147.8	113	PKP	14 35 00.8	2.7
BJI	150.2	107	ePKP	14 35 05.5	3.6

1987 8 29

O = 15 14 07.0 ± 0.20s
 LAT = 56.57 S ± 3.44km
 LONG = 25.47 W ± 3.86km
 DEPTH = 32 km ± 0.98km
 STATIONS USED = 39, STAND DEV = 2.49s

WMQ	137.1	78	ePKP	15 33 27.5	-0.8
LZH	140.6	99	ePKP	15 33 32.0	-2.7
XAN	141.8	106	ePKP	15 33 35.0	-1.7
NJ2	145.3	120	+PKP	15 33 42.8	0.2
SSE	145.6	124	+PKP	15 33 44.0	0.9
TIY	146.4	106	+PKP	15 33 45.6	0.9
BTO	147.2	100	ePKP	15 33 47.6	1.5
TIA	147.7	113	ePKP	15 33 49.7	2.9
HHC	148.2	101	ePKP	15 33 51.0	3.3
BJI	150.1	107	ePKP	15 33 55.5	4.9

1987 8 29

O = 17 58 10.5 ± 0.11s
 LAT = 34.48 N ± 1.30km
 LONG = 79.97 E ± 1.46km
 DEPTH = 34 km ± 0.16km
 STATIONS USED = 29, STAND DEV = 2.21s
 Ms = 4.1 / 4, ML = 4.2 / 2,

KSH	5.9	328	ePn	17 59 41.1	4.9
			eSn	18 00 46.0	1.8
			LE	Ms=4.7	8.0 7.20
LSA	10.6	114	+P	18 00 44.6	0.6
WMQ	11.1	30	+P	18 00 48.8	-1.2
			S	18 02 49.0	-4.3
GTA	16.6	67	eP	18 02 01.2	-1.5
			LN	Ms=4.1	12.5 0.44

CD2	20.3	93	P	18 02 47.1	0.3
KMI	21.8	109	eP	18 03 02.0	-0.1
XAN	23.9	83	eP	18 03 23.9	1.4
GYA	24.3	102	P	18 03 28.6	2.1

1987 8 29

O=22 12 10.0 ± 0.09s
 LAT=52.83 N ± 3.73km
 LONG=168.93 W ± 1.57km
 DEPTH= 33 km ± 0.69km
 STATIONS USED = 48, STAND DEV= 2.23s

Ms=4.9 / 1,

CN2	43.2	285	eP	22 20 08.5	-1.2
			eS	22 26 32.0	-1.9
SSE	54.0	275	-P	22 21 35.0	1.1
			PMZ		1.0 0.010
			esP	22 21 49.0	1.6
BTO	54.1	292	eP	22 21 35.0	0.8
WHN	58.5	280	eP	22 22 03.5	-2.6
XAN	59.2	287	eP	22 22 15.0	3.9
GTA	60.5	297	eP	22 22 18.5	-1.5
			LE	Ms=4.9	20.0 0.62
LZH	60.7	292	-P	22 22 21.0	-0.1
WMQ	63.5	308	eP	22 22 39.2	-0.5
CD2	64.5	288	eP	22 22 46.8	0.4
GYA	66.1	283	P	22 22 57.2	0.4
KMI	69.4	285	eP	22 23 17.5	-0.2
QZN	69.8	275	-P	22 23 21.2	1.3
LSA	72.5	296	eP	22 23 35.5	-1.0

1987 8 30

O=01 13 25.8 ± 0.17s
 LAT=38.49 N ± 2.45km
 LONG= 72.65 E ± 2.06km
 DEPTH= 30 km ± 1.20km
 STATIONS USED = 14, STAND DEV= 3.80s

M_L=5.3 / 2,

KSH	2.8	69	ePg	01 14 18.0	2.8
			SME	M _L =5.9	0.0 54.1
WMQ	12.5	60	eP	01 16 26.0	0.8
			eS	01 18 40.5	-4.3
			SMN		1.5 0.020
GTA	21.1	79	eP	01 18 07.8	-3.1

1987 8 30

O=04 51 01.4 ± 0.17s
 LAT=37.91 N ± 2.30km
 LONG= 71.76 E ± 2.52km
 DEPTH= 27 km ± 0.79km
 STATIONS USED = 16, STAND DEV= 3.40s

				Ms=4.6 / 1, M _L =4.0 / 1,	
KSH	3.6	64	Pn	04 52 02.0	5.3
			LN	Ms=4.6	6.0 8.70
WMQ	13.4	59	eP	04 54 10.0	-3.0
			eS	04 56 43.5	1.1
			LN		2.5 0.060
GTA	21.9	77	eP	04 55 55.1	0.2

1987 8 30

O=05 57 52.2 ± 0.07s
 LAT=33.30 N ± 1.42km
 LONG= 57.04 E ± 1.23km
 DEPTH= 33 km ± 0.20km
 STATIONS USED = 62, STAND DEV= 0.98s

Ms=5.0 / 6,

KSH	16.4	63	eP	06 01 39.0	-3.3
			eS	06 04 48.0	4.7
			LN	Ms=5.5	8.0 7.30
WMQ	26.0	57	eP	06 03 25.0	0.3
			LN	Ms=5.3	8.0 2.14
LSA	29.2	88	eP	06 03 52.8	-1.2
GTA	34.7	67	+P	06 04 42.6	0.7
			LN	Ms=4.9	20.0 0.75
			LE		18.0 1.14
LZH	38.3	72	-P	06 05 13.0	1.0
			PMZ		2.0 0.080
CD2	39.4	80	eP	06 05 21.3	0.3
KMI	40.5	89	+P	06 05 30.0	0.0
BTO	42.4	64	eP	06 05 46.5	0.4
			esP	06 05 54.0	-5.3
			eS	06 12 07.5	1.8
			LN	Ms=5.2	16.0 0.80
			LE		16.0 1.20
XAN	42.8	74	eP	06 05 49.5	0.4
GYA	43.2	85	P	06 05 53.0	0.3
TIY	44.8	68	-P	06 06 05.8	0.8
BJI	47.2	64	eP	06 06 24.0	0.2
TIA	48.8	69	-P	06 06 36.7	0.3
QZN	49.0	93	eP	06 06 39.2	1.0
NJ2	51.4	73	eP	06 06 55.0	-1.2
SNY	52.3	60	-P	06 07 02.0	-0.9
CN2	53.1	57	eP	06 07 08.0	-1.5
			eS	06 14 32.0	-4.5

1987 8 30

O=06 31 46.4 ± 0.49s
 LAT=35.77 N ± 1.27km
 LONG= 81.12 E ± 2.79km
 DEPTH= 9 km ± 4.05km
 STATIONS USED = 8, STAND DEV= 3.66s

$M_L = 4.2 / 5,$

KSH	5.5	314	Pg	06 33 24.0	0.4		
			S*	06 34 32.8	6.2		
			SMN			$M_L = 4.2$	0.5 0.20
			SME				0.5 0.30
WMQ	9.5	30	eP	06 34 09.6	2.9		
			SMN				1.2 0.030

1987 8 30

O=17 13 14.8 ± 0.64s
 LAT=22.94 N ± 5.31km
 LONG= 99.71 E ± 1.26km
 DEPTH= 10 km

STATIONS USED = 5, STAND DEV = 2.70s

$M_L = 3.1 / 3,$

KMI	3.5	51	ePg	17 14 18.5	1.2		
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1987 8 31

O=02 03 08.9 ± 0.06s
 LAT=41.88 N ± 0.68km
 LONG= 79.98 E ± 0.77km
 DEPTH= 5 km ± 0.01km

STATIONS USED = 7, STAND DEV = 2.34s

$M_L = 3.6 / 6,$

KSH	3.9	233	Pn	02 04 11.0	1.3		
			SMN			$M_L = 3.6$	0.7 0.10
			SME				0.5 0.20
WMQ	6.0	69	ePn	02 04 42.2	3.5		
			Sn	02 05 52.2	2.2		

1987 8 31

O=06 13 21.9 ± 0.13s
 LAT=51.30 N ± 1.02km
 LONG=175.96 W ± 0.78km
 DEPTH= 46 km ± 1.16km

STATIONS USED = 20, STAND DEV = 1.39s

BJI	47.1	284	eP	06 21 52.0	0.1		
XAN	55.4	283	eP	06 22 53.5	-1.1		
CD2	60.7	284	eP	06 23 31.6	-0.2		
GYA	62.1	278	P	06 23 40.6	-0.5		
KMI	65.5	280	eP	06 24 03.0	-0.5		

1987 8 31

O=06 52 51.9 ± 0.09s
 LAT=27.05 S ± 0.69km
 LONG=178.37 W ± 1.21km
 DEPTH=312 km ± 0.71km

STATIONS USED = 50, STAND DEV = 0.89s

SSE	81.7	311	-P	07 04 37.5	-0.2		
			PMZ				1.0 0.040

NJ2	83.8	311	-P	07 04 49.0	0.4		
WHN	86.1	307	P	07 05 00.5	0.8		
CN2	87.3	323	-P	07 05 05.0	-0.5		
TIA	87.5	313	-P	07 05 06.7	0.4		
GYA	89.6	300	P	07 05 17.0	0.5		
BJI	90.3	316	eP	07 05 20.0	0.3		
TIY	91.4	312	-P	07 05 25.5	0.7		
XAN	91.8	308	+P	07 05 25.6	-1.2		
KMI	92.0	297	-P	07 05 29.0	1.1		
CD2	94.0	303	P	07 05 37.8	1.0		
GTA	100.8	309	P	07 06 07.8	0.0		

1987 8 31

O=07 31 56.0 ± 0.12s
 LAT=33.85 N ± 1.60km
 LONG=136.43 E ± 0.91km
 DEPTH=407 km ± 0.89km

STATIONS USED = 20, STAND DEV = 1.30s

TIA	16.0	284	-P	07 35 20.2	-0.4		
BJI	17.3	297	eP	07 35 34.5	0.5		
WHN	19.0	266	-P	07 35 52.0	1.5		
XAN	22.8	278	P	07 36 27.0	-0.1		
GYA	26.7	262	P	07 37 02.6	0.2		
GTA	29.8	291	P	07 37 28.8	-0.4		

1987 8 31

O=08 52 02.3 ± 0.11s
 LAT=36.61 N ± 1.56km
 LONG= 76.32 E ± 1.59km
 DEPTH= 32 km ± 0.29km

STATIONS USED = 21, STAND DEV = 2.78s

$M_L = 4.5 / 3,$

WMQ	11.3	47	P	08 54 44.3	-0.2		
			SMN				0.6 0.18
GTA	18.7	74	P	08 56 20.5	-0.3		

1987 8 31

O=11 21 06.1 ± 0.31s
 LAT=38.61 N ± 1.77km
 LONG= 77.04 E ± 2.29km
 DEPTH= 25 km

STATIONS USED = 9, STAND DEV = 2.51s

$M_L = 4.1 / 4,$

KSH	1.2	316	-iPg	11 21 24.6	-3.0		
			Sg	11 21 44.2	0.3		
			SMN			$M_L = 4.1$	0.2 3.10
			SME				0.5 4.60
WMQ	9.6	54	eP	11 23 26.8	1.0		
			SMN				0.8 0.020
GTA	17.7	80	eP	11 25 12.0	-1.3		

GTA 36.2 330 eP 17 09 15.6 -3.0
WMQ 45.8 325 P 17 10 39.2 2.1

1987 8 31
O = 12 39 25.3 ± 0.06s
LAT = 25.05 N ± 0.74km
LONG = 115.66 E ± 0.62km
DEPTH = 16 km ± 0.03km
STATIONS USED = 33, STAND DEV = 1.53s
Ms = 4.1 / 3, ML = 4.5 / 14,

QZH	2.7	92	-iPn	12 40 09.1	1.1		
			Pg	12 40 17.5	5.2		
			Sn	12 40 39.5	-2.4		
			SMN	ML = 4.5	0.8	3.41	
			SME		0.8	1.57	
GZH	2.9	228	Pn	12 40 11.6	0.6		
			Sn	12 40 44.7	-2.6		
			Sg	12 40 55.5	-0.1		
NJ2	7.5	21	ePn	12 41 16.0	1.2		
			Sn	12 42 40.5	-1.6		
			LE	Ms = 4.4	4.0	1.20	
SSE	7.8	38	Pn	12 41 19.5	1.5		
			LN	Ms = 4.0	6.0	0.64	
QZN	8.1	223	eP	12 41 23.3	-1.5		
			eS	12 42 49.7	-6.7		
			SMN	ML = 4.6	0.9	0.20	
			SME		0.8	0.10	
GYA	8.2	282	P	12 41 26.2	-1.1		
			S	12 42 54.4	-6.1		
			SMN	ML = 4.9	1.4	0.30	
			SME		1.4	0.30	
XAN	10.7	328	eP	12 42 02.8	1.4		
			LN	Ms = 4.1	8.0	0.41	
			LE		6.0	0.41	
CD2	12.0	302	eP	12 42 20.1	0.7		
GTA	19.6	321	eP	12 43 57.6	1.8		

1987 8 31
O = 17 02 16.1 ± 0.15s
LAT = 9.11 N ± 1.85km
LONG = 122.22 E ± 3.03km
DEPTH = 31 km ± 0.31km
STATIONS USED = 23, STAND DEV = 2.94s
Ms = 4.3 / 1,

QZN	15.5	311	eP	17 05 58.4	3.9		
			LN	Ms = 4.3	12.0	0.70	
			LE		12.0	0.50	
SSE	21.9	358	P	17 07 06.1	-2.4		
GYA	22.7	321	P	17 07 18.2	1.6		
NJ2	23.0	353	eP	17 07 17.5	-2.3		
CD2	27.7	324	eP	17 08 00.6	-3.2		
CN2	34.7	4	eP	17 09 09.6	4.4		