



							DEPTH = 37 km ± 0.39km								
							STATIONS USED = 62, STAND DEV = 1.61s								
							Ms = 5.3 / 19,		m <sub>B</sub> = 5.2 / 1						
			LE		9.0	0.40									
NJ2	31.5	58	-iP	02 30 16.0	-1.2										
			S	02 35 23.0	-1.0										
			LN	Ms = 5.1		13.0	1.70	QZH	39.4	317	eP	04 15 17.5	0.1		
TIA	31.8	50	-P	02 30 18.6	-0.6										
			eS	02 35 20.5	-7.7										
			LN	Ms = 5.0		13.0	0.94	GZH	42.0	310	eP	04 15 41.0	1.5		
			LE			13.5	0.75				LN	Ms = 5.1	30.0	2.46	
BJI	33.0	43	eP	02 30 29.5	-0.2			SSE	42.1	326	eP	04 15 40.0	-0.2		
			PMZ	m <sub>B</sub> = 5.7		5.0	0.63				S	04 22 06.0	9.7		
			eS	02 35 49.0	1.9						esS	04 22 22.0	7.9		
			LN	Ms = 4.8		12.0	0.70				ScS	04 25 35.0	-1.4		
SSE	33.2	61	-P	02 30 31.0	-0.6						LN	Ms = 5.2	15.0	1.69	
			PMZ			1.0	0.090	QZN	42.8	303	eP	04 15 46.0	0.3		
			S	02 35 46.0	-3.7						eS	04 22 09.5	2.5		
			sS	02 35 55.0	-4.5						eSS	04 25 10.0	-2.4		
			SS	02 37 44.0	-6.5						LN	Ms = 5.3	14.0	1.00	
			eScS	02 40 56.0	-0.1						LE		15.0	1.30	
			LE	Ms = 5.1		20.0	2.59	NJ2	44.2	325	-P	04 15 57.0	0.2		
DL2	36.1	48	-iP	02 30 57.0	0.0						LN	Ms = 5.2	14.0	0.70	
			eS	02 36 32.0	-4.3						LE		14.0	1.00	
			LN	Ms = 4.9		12.0	0.80	WHN	45.9	319	P	04 16 11.5	1.0		
SNY	38.7	45	-iP	02 31 18.2	-0.5						pP	04 16 15.5	-5.1		
			PMZ			2.0	0.71				eS	04 23 00.0	8.4		
			sP	02 31 25.5	-1.5						LE	Ms = 5.2	18.0	1.56	
			PP	02 32 43.0	-7.8			DL2	48.1	333	eP	04 16 26.8	-0.9		
			S	02 37 09.0	-6.0						LN	Ms = 5.4	15.0	1.07	
			sS	02 37 24.0	-0.9						LE		15.0	1.41	
			LN	Ms = 5.1		35.0	3.05	TIA	48.2	327	eP	04 16 27.8	-1.0		
			LE			30.0	1.46				eS	04 23 26.0	1.4		
CN2	40.8	43	-iP	02 31 35.8	-0.4						eSS	04 26 49.0	1.0		
			PMZ			3.0	0.60				LN	Ms = 5.6	23.0	3.09	
			pP	02 31 39.2	-2.4						LE		18.0	2.39	
			PP	02 33 12.5	-0.6			SNY	49.7	337	-P	04 16 40.0	-0.2		
			PcP	02 33 45.0	8.0						S	04 23 46.0	1.7		
			eS	02 37 44.0	-3.5						LN	Ms = 5.2	27.0	1.85	
			SME	m <sub>B</sub> = 5.5		9.0	0.70				LE		31.0	1.50	
			ScS	02 41 41.0	2.2			MDJ	50.1	344	eP	04 16 43.5	-0.3		
			LN	Ms = 4.9		12.0	0.60				pP	04 16 52.5	-1.4		
MDJ	43.9	44	eP	02 31 59.0	-2.1						sP	04 16 57.0	-1.1		
			pP	02 32 02.0	-4.6						eS	04 23 57.0	5.2		
			eS	02 38 28.0	-4.3						ScS	04 26 30.0	2.0		
			SME	m <sub>B</sub> = 5.1		8.0	0.26				LE	Ms = 5.2	12.0	0.93	
			sS	02 38 36.0	-5.3			CN2	50.7	340	eP	04 16 44.5	-3.5		
			SS	02 41 38.0	-1.9						epP	04 16 55.0	-3.1		
											eS	04 23 56.0	-3.5		
											LN	Ms = 5.3	14.0	1.20	
								KMI	51.4	306	-P	04 16 54.5	0.8		
											pP	04 17 05.0	1.5		
											eS	04 24 12.0	2.2		

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O = 04 07 49.5 ± 0.15s  
 LAT = 3.24 S ± 2.00km  
 LONG = 147.07 E ± 3.27km

			LZ	Ms = 5.6	20.0	3.80			eS	07 56 56.0	3.3		
BJI	51.6	330	eP	04 16 57.0	2.6				sS	07 57 22.0	5.0		
			SMN	m <sub>B</sub> = 5.2	9.0	0.27			LN	Ms = 4.6	18.0	2.03	
			LN	Ms = 5.2	18.0	1.35	GZH	19.3	320	+iP	07 53 51.0	0.6	
XAN	51.6	319	P	04 16 54.2	-0.9				pP	07 54 07.5	2.3		
TIY	51.9	325	eP	04 16 57.0	0.0				LN	Ms = 4.8	24.0	3.85	
			S	04 24 10.0	-4.7		QZN	19.4	305	-iP	07 53 51.2	0.6	
			LE	Ms = 5.3	20.0	1.96			pP	07 54 10.0	4.5		
CD2	53.4	313	-iP	04 17 08.9	0.3				eS	07 57 19.0	-1.0		
			eS	04 24 34.0	-3.1				sS	07 57 37.0	-7.7		
			LE	Ms = 5.3	26.0	2.03			SS	07 57 48.0	-1.3		
			LZ	Ms = 5.6	22.0	3.98			LN	Ms = 5.0	20.0	3.20	
HHC	54.5	327	eP	04 17 16.6	-0.3				LE		18.5	3.10	
BTO	55.2	326	P	04 17 21.5	-0.3		SSE	23.1	348	-P	07 54 29.0	0.5	
			esP	04 17 36.0	-0.1				PMZ	m <sub>B</sub> = 5.1	6.0	0.54	
			eS	04 25 02.0	0.7				pP	07 54 48.0	1.5		
			LN	Ms = 5.3	19.0	1.40			sP	07 55 00.5	3.7		
			LE		19.0	1.00			eS	07 58 28.0	-2.1		
LZH	56.2	318	eP	04 17 29.5	0.7				SMN	m <sub>B</sub> = 5.5	10.0	1.11	
GTA	60.7	319	P	04 18 00.0	-0.2				sS	07 59 00.0	-0.7		
			LN	Ms = 5.2	20.0	1.21			LN	Ms = 4.7	18.0	1.40	
WMQ	70.8	319	P	04 19 04.5	-0.3		NJ2	24.6	344	eP	07 54 42.0	-0.7	
			eS	04 28 21.0	5.1				S	07 58 54.0	-0.6		
			LZ	Ms = 5.2	20.0	0.80			sS	07 59 30.0	3.2		
KSH	77.6	311	eP	04 19 48.0	3.6				LZ	Ms = 4.7	20.0	1.40	
			eS	04 29 36.0	3.5		WHN	24.8	334	eP	07 54 43.5	-1.4	
									pP	07 55 06.5	3.6		
									sP	07 55 12.4	-0.7		
									SMN	m <sub>B</sub> = 5.3	8.0	0.60	
									sS	07 59 34.0	3.4		
									LN	Ms = 4.6	12.0	0.71	
							GYA	26.1	316	P	07 54 59.0	2.2	
									pP	07 55 21.0	6.2		
									S	07 59 19.0	-0.1		
									SMN	m <sub>B</sub> = 5.4	12.0	0.90	
									SME		12.0	0.90	
									sS	07 59 48.0	-3.8		
									SS	08 00 22.0	-9.9		
							KMI	28.1	309	+P	07 55 16.0	0.1	
									pP	07 55 34.0	-0.1		
									S	07 59 53.0	0.1		
									SMN	m <sub>B</sub> = 4.9	10.0	0.36	
									LE	Ms = 4.8	16.0	1.40	
							TIA	29.0	344	eP	07 55 21.8	-1.3	
									eS	08 00 02.0	-5.0		
									sS	08 00 31.0	-8.3		
									LN	Ms = 4.7	25.0	1.17	
									LE		25.0	1.14	
									LZ	Ms = 4.6	25.0	1.32	
QZH	18.1	336	eP	07 53 34.6	-1.9		XAN	30.2	330	P	07 55 32.0	-2.4	

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O = 07 36 05.1 ± 0.09s

LAT = 37.10 N ± 1.41km

LONG = 72.04 E ± 0.70km

DEPTH = 211 km ± 0.56km

STATIONS USED = 17, STAND DEV = 1.50s

M<sub>L</sub> = 4.8 / 2,

KSH 3.9 52 -iP 07 37 09.0 2.2

iS 07 37 56.0 1.6

SMN M<sub>L</sub> = 4.9 1.0 3.00

WMQ 13.7 56 eP 07 39 12.0 0.2

PMZ 0.8 0.020

S 07 41 45.5 6.9

GTA 21.9 75 P 07 40 45.0 2.9

1985 7 1

O = 07 49 28.8 ± 0.15s

LAT = 8.42 N ± 1.59km

LONG = 126.58 E ± 1.91km

DEPTH = 82 km ± 0.60km

STATIONS USED = 82, STAND DEV = 1.29s

M<sub>s</sub> = 4.8 / 16, m<sub>B</sub> = 5.1 / 7

QZH 18.1 336 eP 07 53 34.6 -1.9

DL2	30.7	352	P	07 55 38.0	-0.2				O = 16 44 51.4	± 0.23s			
			sP	07 56 05.0	-2.0				LAT = 3.22 S	± 3.13km			
			S	08 00 34.0	1.0				LONG = 147.22 E	± 4.85km			
			LN			Ms = 4.7	18.0	0.89	DEPTH = 23 km	± 0.84km			
CD2	30.9	320	P	07 55 38.5	-1.7				STATIONS USED = 49,	STAND DEV = 1.68s			
			LE			Ms = 5.1	23.0	3.00	Ms = 5.3 / 17,	m <sub>B</sub> = 5.5 / 3			
			LZ			Ms = 5.1	30.0	4.11	GZH	42.1 310	eP	16 52 49.0	5.0
TIY	31.8	338	P	07 55 47.4	-1.2						eS	16 59 06.0	3.6
			LN			Ms = 4.5	12.0	0.29			LN	Ms = 5.0	24.0 1.56
			LE				10.0	0.23	SSE	42.2 326	eP	16 52 46.0	1.5
BJI	32.8	345	eP	07 55 55.5	-1.5						eS	16 59 03.0	-0.3
			esP	07 56 24.0	-1.9						SMN		16.0 1.16
			SMN			m <sub>B</sub> = 4.7	9.0	0.17			sS	16 59 17.0	1.1
SNY	33.4	356	+iP	07 56 02.2	0.5						LN	Ms = 5.2	16.0 1.51
			S	08 01 21.0	5.9				QZN	42.9 302	eP	16 52 49.0	-1.4
			sS	08 01 41.0	-7.8						eS	16 59 10.0	-3.7
			LN			Ms = 4.8	23.0	1.14			SS	17 02 20.0	1.3
			LE				23.0	0.76	NJ2	44.2 325	eP	16 53 06.0	4.9
LZH	34.5	326	+P	07 56 12.0	0.7						iS	16 59 42.0	9.0
			PMZ				1.5	0.19			LE	Ms = 5.1	13.0 0.90
HHC	34.9	340	P	07 56 15.0	-0.3				WHN	45.9 319	-P	16 53 15.3	0.4
CN2	35.3	359	+P	07 56 17.8	0.0						pP	16 53 26.0	3.4
			sP	07 56 49.0	2.1						eS	16 59 56.0	-1.8
			PP	07 57 42.0	3.9						SMN	m <sub>B</sub> = 5.5	9.0 0.64
			PcP	07 58 47.0	0.4						LE	Ms = 5.4	21.0 2.62
			eS	08 01 45.0	-0.1				DL2	48.1 333	eP	16 53 31.4	-0.5
			PcS	08 02 29.0	-3.3						eS	17 00 25.0	-3.5
BTO	35.3	338	P	07 56 17.0	-1.1						LN	Ms = 5.2	16.0 1.27
			eS	08 01 41.5	-4.0				TIA	48.3 327	eP	16 53 31.8	-1.2
MDJ	36.2	4	eP	07 56 27.1	1.7						eS	17 00 29.5	-1.1
			pP	07 56 45.0	0.4						LN	Ms = 5.4	23.0 2.01
			PP	07 57 50.0	1.4						LE		23.0 1.97
			eS	08 01 58.0	-0.9						LZ	Ms = 5.3	24.0 2.39
			SME			m <sub>B</sub> = 5.1	7.0	0.27	SNY	49.7 337	eP	16 53 44.8	0.5
GTA	39.1	326	+iP	07 56 50.3	0.3						S	17 00 52.0	2.1
			ePP	07 58 25.2	1.2						LN	Ms = 5.2	30.0 1.61
			PcP	07 58 59.4	1.1						LE		29.0 1.29
			eS	08 02 48.6	5.1				MDJ	50.2 344	eP	16 53 45.5	-2.2
			LN			Ms = 5.0	27.0	2.05			eS	17 00 53.0	-4.2
LSA	39.4	307	+iP	07 56 54.6	1.9						sS	17 01 13.0	2.9
			S	08 02 50.7	4.1						LE	Ms = 5.1	14.0 0.77
WMQ	48.9	323	P	07 58 08.5	-0.2				CN2	50.7 340	eP	16 53 52.0	0.0
			pP	07 58 31.0	2.8						PMZ	m <sub>B</sub> = 5.5	5.0 0.30
			S	08 05 12.0	8.0						sP	16 54 06.0	3.0
			LZ			Ms = 5.1	24.0	1.65			PcP	16 55 10.0	1.5
KSH	54.7	313	eP	07 58 55.0	2.7						S	17 01 03.5	-0.4
			epP	07 59 07.0	-5.1						SMN	m <sub>B</sub> = 5.4	8.0 0.30
			eS	08 06 29.0	4.2						SME		8.0 0.30
											SS	17 04 35.0	-0.9
											LN	Ms = 5.3	14.0 1.20

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KMI	51.5	306	eP	16 53 58.0	-0.2				
BJI	51.6	330	eP	16 53 56.5	-2.1				
			eS	17 01 08.0	-9.1				
			LN			Ms=5.3	20.0	1.73	
XAN	51.7	319	-P	16 53 57.7	-1.8				
TIY	51.9	325	eP	16 54 02.5	1.2				
			S	17 01 15.5	-5.2				
			LE			Ms=5.3	20.0	1.96	
CD2	53.5	313	P	16 54 12.1	-1.0				
			eS	17 01 37.0	-6.5				
			LE			Ms=5.3	26.0	2.35	
			LZ			Ms=5.3	24.0	1.95	
HHC	54.6	327	eP	16 54 23.0	1.9				
BTO	55.3	326	eP	16 54 25.0	-1.0				
			eS	17 02 04.0	-3.3				
			LN			Ms=5.3	14.0	0.80	
			LE				14.0	0.70	
LZH	56.3	318	eP	16 54 34.0	0.8				
GTA	60.8	319	-P	16 55 04.2	-0.4				
			S	17 03 22.0	4.3				
			LE			Ms=5.1	16.0	0.70	
WMQ	70.8	319	-P	16 56 09.0	-0.1				
			eS	17 05 23.0	0.9				
			LZ			Ms=5.1	20.0	0.73	
1985 7 2									
O=04 20 54.0 ± 0.18s									
LAT=35.43 N ± 1.77km									
LONG=133.80 E ± 1.85km									
DEPTH= 11 km ± 0.12km									
STATIONS USED = 31, STAND DEV = 2.16s									
Ms=4.5/ 10,									
MDJ	9.7	342	eP	04 23 18.5	1.3				
			PP	04 23 28.0	3.1				
			eS	04 25 14.0	6.5				
			LZ			Ms=4.2	14.0	1.63	
CN2	10.6	325	-P	04 23 25.8	-2.7				
			eS	04 25 19.0	-8.8				
			LN			Ms=4.5	14.0	2.30	
			LE				14.0	2.00	
TIA	13.6	278	eP	04 24 09.3	0.2				
			eLG <sub>1</sub>	04 28 06.8	6.8				
			LN			Ms=4.5	10.0	0.85	
			LE				10.0	0.89	
			LZ			Ms=4.5	10.0	1.34	
BJI	14.7	293	P	04 24 23.5	-0.4				
WHN	17.0	259	eP	04 24 57.5	3.5				
			LN			Ms=4.6	12.0	1.43	
TIY	17.3	284	P	04 24 58.6	0.9				
			eS	04 28 11.0	1.9				

			LN			Ms=4.5	12.0	0.86	
			LE				11.0	0.68	
HHC	18.3	294	P	04 25 10.0	0.0				
BTO	19.4	293	eP	04 25 21.5	-1.9				
			eS	04 28 50.0	-6.7				
			LN			Ms=4.5	13.0	0.80	
			LE				13.0	0.60	
			LZ			Ms=4.5	14.0	1.10	
XAN	20.5	273	eP	04 25 34.5	-0.5				
LZH	24.3	280	eP	04 26 17.0	4.1				
CD2	25.5	268	eP	04 26 23.8	-0.6				
QZN	26.7	239	eP	04 26 37.0	1.1				
			eS	04 31 09.0	-0.8				
			LN			Ms=4.8	13.0	0.90	
			LE				12.0	0.70	
GTA	27.2	289	P	04 26 36.7	-3.5				
			LE			Ms=4.5	11.0	0.41	

1985 7 2

O=06 15 33.5 ± 0.23s

LAT=24.52 N ± 3.56km

LONG= 94.64 E ± 1.75km

DEPTH= 20 km ± 0.99km

STATIONS USED = 7, STAND DEV = 3.45s

M<sub>L</sub>=4.4/ 2,

LSA	6.0	330	+iP	06 17 08.6	4.1				
			S	06 18 14.2	1.2				
			SMN			M <sub>L</sub> =4.9	1.5	0.90	
KMI	7.4	84	eP	06 17 25.5	2.1				
GYA	11.0	77	eP	06 18 12.8	-1.0				
WMQ	20.1	345	P	06 20 06.5	-2.6				

1985 7 2

O=07 56 31.8 ± 0.69s

LAT=24.59 N ± 4.75km

LONG=121.89 E ± 4.16km

DEPTH= 16 km ± 0.20km

STATIONS USED = 9, STAND DEV = 4.65s

M<sub>L</sub>=3.4/ 8,

QZH	3.0	277	ePn	07 57 22.0	2.6				
			Sn	07 57 56.4	-0.8				
			SMN			M <sub>L</sub> =3.1	0.6	0.12	
			SME				0.5	0.040	
SSE	6.5	355	eP	07 58 09.2	-0.5				
			eLG <sub>1</sub>	08 00 04.5	8.1				
			LG <sub>2</sub>	08 00 14.5	7.8				
			SME			M <sub>L</sub> =3.4	1.0	0.020	

1985 7 2

O=08 29 38.1 ± 0.06s

**LAT=40.03 N** ± 0.54km  
**LONG= 77.45 E** ± 0.49km  
**DEPTH= 17 km** ± 0.18km  
**STATIONS USED = 6, STAND DEV= 1.64s**  
**M<sub>L</sub>=3.9/ 4,**

KSH	1.3	243	Pg	08 30 00.5	-0.4		
			Sg	08 30 18.9	0.7		
			SMN			M <sub>L</sub> =4.2	0.5 4.18
			SME				0.2 2.96
WMQ	8.5	60	P	08 31 43.5	-0.7		
			S	08 33 20.0	-0.6		
			LG <sub>2</sub>	08 34 17.0	-2.4		
			SMN				2.0 0.060
			SME				2.0 0.050

**1985 7 2**  
**O=10 58 11.8** ± 0.71s  
**LAT=24.49 N** ± 5.79km  
**LONG=121.58 E** ± 3.91km  
**DEPTH= 15 km**  
**STATIONS USED = 17, STAND DEV= 3.17s**  
**M<sub>s</sub>=3.3/ 1, M<sub>L</sub>=3.4/ 8,**

QZH	2.8	280	ePn	10 58 55.6	-0.2		
			Sn	10 59 36.1	5.4		
			SMN			M <sub>L</sub> =3.4	1.0 0.24
			SME				0.9 0.14
SSE	6.6	357	eP	10 59 45.0	-5.8		
			eLG <sub>2</sub>	11 01 58.0	9.0		
			LE			M <sub>s</sub> =3.3	10.0 0.30
WHN	8.8	315	eP	11 00 22.0	0.3		
			LG <sub>2</sub>	11 03 10.0	7.9		
CD2	17.0	296	eP	11 02 10.6	-0.7		
CN2	19.5	8	+P	11 02 45.2	3.5		
GTA	23.6	314	P	11 03 19.6	-4.1		

**1985 7 2**  
**O=11 44 25.9** ± 0.49s  
**LAT=24.82 N** ± 1.90km  
**LONG=121.85 E** ± 3.69km  
**DEPTH= 15 km**  
**STATIONS USED = 6, STAND DEV= 1.48s**  
**M<sub>L</sub>=3.3/ 4,**

QZH	3.0	273	ePn	11 45 14.2	1.3		
			eSn	11 45 52.6	2.5		
			SMN			M <sub>L</sub> =3.1	0.8 0.12
			SME				0.5 0.040

**1985 7 2**  
**O=12 34 51.4** ± 0.08s  
**LAT=40.76 N** ± 1.85km

**LONG=143.58 E** ± 1.86km  
**DEPTH= 15 km** ± 0.81km  
**STATIONS USED = 78, STAND DEV= 1.37s**  
**M<sub>s</sub>=5.2/ 23, m<sub>B</sub>=5.6/ 8**

MDJ	11.0	295	+iP	12 37 33.5	2.0		
			PMZ			m <sub>B</sub> =5.8	6.0 1.39
			PP	12 37 44.0	4.4		
			sP	12 37 48.0	8.0		
			SS	12 39 50.0	1.6		
			LZ			M <sub>s</sub> =5.1	13.0 9.80
CN2	13.8	289	+P	12 38 08.4	-0.3		
			pP	12 38 16.0	2.2		
			eS	12 40 38.0	-4.4		
			SME			m <sub>B</sub> =4.8	8.0 0.50
			esS	12 40 50.0	-0.6		
			LE			M <sub>s</sub> =5.2	13.0 8.80
SNY	15.1	281	+iP	12 38 27.2	1.3		
			pP	12 38 36.5	5.5		
			sP	12 38 39.0	4.2		
			eS	12 41 18.5	5.0		
			LN			M <sub>s</sub> =5.2	14.0 4.01
			LE				14.0 7.72
DL2	17.0	271	+P	12 38 50.4	0.3		
			PMZ			m <sub>B</sub> =5.8	4.0 1.79
			S	12 42 00.0	3.2		
			LN			M <sub>s</sub> =5.0	12.0 3.00
			LE				11.0 1.85
SSE	20.5	249	eP	12 39 30.0	-1.8		
			PMZ				1.1 0.050
			eS	12 43 11.0	-5.0		
			sS	12 43 30.0	5.3		
			SS	12 43 40.0	-5.1		
			LN			M <sub>s</sub> =5.2	12.0 3.23
			LE				12.0 1.77
BJI	20.9	277	eP	12 39 32.5	-3.1		
			PMZ			m <sub>B</sub> =5.3	4.0 0.54
			eS	12 43 15.0	-8.0		
			SMN			m <sub>B</sub> =5.2	8.0 0.61
			SME				10.0 0.66
			LN			M <sub>s</sub> =5.2	14.0 4.12
			LE				15.0 2.44
TIA	21.2	266	eP	12 39 35.6	-3.2		
			esP	12 39 48.5	0.5		
			eS	12 43 25.0	-4.1		
			sS	12 43 40.0	1.3		
			LN			M <sub>s</sub> =5.1	11.0 1.77
			LE				11.0 2.39
			LZ			M <sub>s</sub> =5.1	11.5 2.84
NJ2	21.7	254	+P	12 39 42.0	-1.8		
			eS	12 43 34.0	-4.3		



			LZ		Ms=5.8	21.0	2.89				S	14 10 23.0	8.9			
LZH	82.6	37	eP	13 24 59.0		1.9					SMN		m <sub>B</sub> =6.0	9.0	0.57	
GTA	83.4	33	P	13 25 00.0		-0.9					SME			9.0	0.97	
			S	13 35 23.0		3.7					SKS	14 10 26.0		-3.4		
			LN		Ms=5.5	28.0	1.65				LN		Ms=5.9	20.0	3.60	
XAN	83.7	42	P	13 25 02.0		-0.7			CD2	78.4	40	eP	14 00 20.2		-0.7	
WHN	84.4	47	P	13 25 06.5		0.7					eS	14 10 16.0		0.1		
NJ2	88.2	49	eP	13 25 25.0		0.4					eSS	14 15 18.0		-1.6		
TIY	88.4	41	eP	13 25 25.4		-0.1					LE		Ms=5.9	16.0	3.12	
			S	13 36 08.0		0.3					LZ		Ms=5.9	17.0	2.88	
			SMN		m <sub>B</sub> =5.8	11.0	0.58		WMQ	82.3	22	P	14 00 41.5		-0.6	
			SME			9.0	0.61				SKS	14 10 58.0		0.5		
BTO	89.2	38	eP	13 25 28.0		-1.5					LZ		Ms=6.2	20.0	7.29	
			eSKS	13 35 55.0		-1.1			LZH	82.4	37	+P	14 00 45.0		2.2	
TIA	90.0	45	eP	13 25 32.2		-0.9					PMZ		m <sub>B</sub> =6.3	5.0	1.53	
HHC	90.2	39	P	13 25 34.0		-0.1					eS	14 11 00.5		1.7		
											SME		m <sub>B</sub> =5.9	10.0	1.05	
											LE		Ms=6.0	22.0	4.31	
1985 7 2																
O = 13 48 17.6 ± 0.17s																
LAT = 33.74 S ± 2.84km																
LONG = 56.29 E ± 3.57km																
DEPTH = 9 km ± 0.15km																
STATIONS USED = 61, STAND DEV = 1.29s																
Ms = 5.9 / 22, m <sub>B</sub> = 6.1 / 15																
LSA	71.2	32	-P	13 59 38.9		-1.1										
			PMZ		m <sub>B</sub> =6.3	5.0	1.58		XAN	83.6	42	-P	14 00 47.6		-0.8	
			S	14 08 54.0		-0.4					S	14 11 07.0		-1.0		
			LN		Ms=5.9	17.5	3.53				LN		Ms=5.9	19.0	2.31	
QZN	73.2	53	+P	13 59 53.0		1.5					LE			19.0	2.31	
			pP	14 00 03.5		6.7			WHN	84.2	47	eP	14 00 51.5		-0.1	
			S	14 09 25.5		8.2					S	14 11 17.0		2.6		
			LN		Ms=5.5	15.0	1.30				SMN		m <sub>B</sub> =5.9	11.0	1.17	
KMI	73.3	43	eP	13 59 53.5		1.1					sS	14 11 31.0		6.0		
			PMZ		m <sub>B</sub> =6.0	6.0	1.00				SS	14 16 50.0		3.7		
			eS	14 09 22.0		1.4					LN		Ms=5.6	19.0	1.53	
			SKS	14 09 57.0		4.3			NJ2	88.0	49	+P	14 01 12.0		1.5	
			LZ		Ms=5.8	28.0	5.00				PMZ		m <sub>B</sub> =6.1	6.0	0.95	
KSH	75.1	16	+iP	14 00 05.0		2.5					PP	14 04 38.0		-0.4		
			ePP	14 02 58.0		6.4					iSKS	14 11 38.0		2.4		
			S	14 09 44.0		5.6					S	14 11 58.0		6.7		
			LE		Ms=5.9	16.0	3.40				LE		Ms=5.8	17.0	2.20	
GYA	76.6	45	P	14 00 11.0		-0.3			TIY	88.2	41	-P	14 01 10.5		-0.8	
			PMZ		m <sub>B</sub> =6.1	6.0	1.30				PMZ		m <sub>B</sub> =6.3	5.0	1.14	
			sP	14 00 23.0		3.9					sP	14 01 22.5		3.4		
			S	14 10 00.0		4.7					S	14 11 44.5		-8.2		
			SME		m <sub>B</sub> =5.9	10.0	0.90				SMN		m <sub>B</sub> =6.2	9.0	1.17	
			SKS	14 10 16.0		-0.8					SME			10.0	1.62	
			LN		Ms=5.8	18.0	1.90				LN		Ms=5.7	17.0	0.96	
			LE			18.0	1.90				LE			17.0	1.37	
GZH	78.4	52	eP	14 00 21.0		0.2			SSE	88.9	51	eP	14 01 16.0		1.4	



			PMZ	$m_B=6.0$	4.0	0.47				pP	03 24 10.0	6.9		
			SKS	14 11 46.0	5.1					S	03 34 20.0	2.6		
			eS	14 12 03.0	2.0					SMN	$m_B=6.3$		12.0	2.66
			SME			16.0	2.00			SS	03 39 48.0	3.2		
			LN	$M_s=5.5$	16.0	1.00				LN	$M_s=5.8$		12.0	1.72
BTO	89.0	38	-iP	14 01 14.0	-1.3			GYA	88.1	325	-P	03 24 23.0	-0.4	
			PP	14 04 44.0	-2.2					SKS	03 34 52.0	2.7		
			eSKS	14 11 40.0	-1.6					S	03 35 02.0	-3.1		
			S	14 11 57.0	-3.4					LN	$M_s=6.2$		18.0	3.80
			LN	$M_s=5.9$	20.0	2.90				LE			18.0	4.20
			LE			20.0	1.50	KMI	88.2	321	-P	03 24 24.5	0.3	
			LZ	$M_s=5.9$	22.0	3.20				pP	03 24 30.5	2.4		
TIA	89.8	45	eP	14 01 18.0	-0.9					SKS	03 34 48.0	-2.2		
			PMZ	$m_B=6.3$	6.0	1.10				S	03 35 03.0	-3.5		
			ePP	14 04 55.0	2.4					sS	03 35 15.0	-0.1		
			eSKS	14 11 54.5	8.0					LN	$M_s=6.5$		18.0	9.80
			eS	14 12 14.5	5.1			SSE	88.5	338	eP	03 24 25.0	-0.1	
			SMN	$m_B=6.0$	8.0	0.61				pP	03 24 29.5	0.2		
			SME			9.5	1.12			S	03 35 05.0	-3.8		
			SS	14 18 08.0	-0.4					SME			16.0	6.87
			LN	$M_s=6.0$	22.0	2.40				sS	03 35 14.0	-3.4		
			LE			20.0	2.44			LN	$M_s=6.1$		20.0	1.91
HHC	90.0	39	P	14 01 20.0	0.1					LE			20.0	4.20
			PP	14 04 56.0	1.9			WHN	89.6	332	+P	03 24 31.0	0.6	
			eS	14 12 08.0	-3.4					SMN	$m_B=6.2$		9.0	1.95
			sS	14 12 20.0	-0.1					LN	$M_s=6.2$		23.0	6.17
			LN	$M_s=5.8$	17.0	1.01		NJ2	89.9	337	-P	03 24 32.0	0.1	
			LE			16.0	1.36			SKS	03 34 58.0	-2.6		
BJI	91.9	42	eP	14 01 23.0	-5.5					SME	$m_B=6.3$		12.0	3.00
			eSKS	14 11 49.0	-9.7					LE	$M_s=6.1$		17.5	4.30
			LN	$M_s=6.0$	21.0	3.43		CD2	93.2	324	eP	03 24 44.3	-2.6	
										LN	$M_s=6.5$		20.0	11.2
										LZ	$M_s=6.5$		20.0	10.9
								TIA	94.3	336	eP	03 24 52.2	0.1	
										SMN	$m_B=6.1$		10.0	1.17
										SME			10.0	0.64
								XAN	94.4	329	eP	03 24 51.6	-1.1	
										SKS	03 35 25.0	-1.2		
										S	03 36 05.0	3.4		
										LN	$M_s=6.3$		20.0	6.28
										LE			16.0	2.35
								DL2	95.9	340	eP	03 25 03.0	3.4	
										SKS	03 35 35.0	0.6		
										eS	03 36 16.0	-0.2		
										LN	$M_s=6.4$		20.0	7.30
										LE			20.0	4.94
GZH	82.8	329	-P	03 23 58.5	1.4			TIY	96.9	333	eP	03 25 02.5	-1.5	
			S	03 34 12.0	-2.0					LN	$M_s=6.3$		17.0	3.19
			LN	$M_s=6.2$	22.0	7.30				LE			20.0	4.89
QZH	83.2	334	-P	03 23 58.0	-0.8			LZH	97.9	326	eP	03 25 10.0	1.4	

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O=03 11 29.0 ± 0.35s  
 LAT=54.94 S ± 2.98km  
 LONG=146.85 E ± 4.91km  
 DEPTH= 2 km ± 1.54km  
 STATIONS USED = 50, STAND DEV= 2.12s  
 $M_s=6.3/21,$   $m_B=6.2/4$

QZN	80.1	325	eP	03 23 44.0	1.0		
			PP	03 26 53.0	7.3		
			eS	03 33 44.0	-3.9		
			SKS	03 33 55.5	0.0		
			SS	03 38 58.5	-0.9		
			LN	$M_s=6.3$	19.0	4.70	
			LE		21.0	6.90	
GZH	82.8	329	-P	03 23 58.5	1.4		
			S	03 34 12.0	-2.0		
			LN	$M_s=6.2$	22.0	7.30	
QZH	83.2	334	-P	03 23 58.0	-0.8		

			PMZ		2.0	0.11			pP	04 45 29.0	0.6				
			eS	03 36 28.0	-5.0				sP	04 45 37.0	4.2				
			LE		Ms=6.2	15.0	4.01		PcP	04 46 58.0	6.9				
BJI	98.2	337	eP	03 25 12.0	2.3				PP	04 47 03.0	-3.9				
			eSKS	03 35 51.0	4.3				eS	04 52 04.0	0.6				
			S	03 36 40.0	6.6				SMN		m <sub>B</sub> =7.2	10.0	24.9		
			eSS	03 43 25.0	5.2				SME			10.0	24.3		
			LN		Ms=6.3	20.0	6.16		sS	04 52 28.0	6.9				
			LZ		Ms=6.2	20.0	4.88		ScS	04 55 06.0	0.1				
SNY	98.4	343	eP	03 25 11.5	0.7				SS	04 55 22.0	0.4				
			SKS	03 35 47.0	-0.9				LN		Ms=7.2	18.0	165		
			S	03 36 37.0	1.6				LE			18.0	40.1		
			SS	03 43 19.0	-4.2				LZ		Ms=7.3	18.0	197		
			LN		Ms=6.3	28.0	5.31	GZH	47.5	307	eP	04 45 25.0	0.3		
			LE			33.0	8.50				ipP	04 45 37.2	2.1		
CN2	100.0	344	+P	03 25 16.0	-2.2						PP	04 47 24.0	9.0		
			SKS	03 35 54.0	-1.4						iS	04 52 19.0	3.3		
			S	03 36 40.0	-9.0						esS	04 52 32.0	-1.4		
			LZ		Ms=6.4	18.0	7.30				ScS	04 55 05.0	-6.5		
HHC	100.1	334	eP	03 25 22.0	3.5						SS	04 55 36.0	-0.6		
			S	03 36 50.0	0.8						LN		Ms=7.4	18.0	147
			LN		Ms=6.2	17.0	3.39				LE			20.0	227
			LE			18.0	2.71	QZN	48.6	300	eP	04 45 34.7	1.6		
BTO	100.2	332	eP	03 25 11.0	-8.2						PP	04 47 26.0	1.0		
			SKS	03 35 48.0	-8.4						eS	04 52 34.0	3.0		
			LN		Ms=6.5	18.0	4.90				LN		Ms=7.3	18.0	175
			LE			18.0	6.80				LE			19.0	89.3
MDJ	100.3	348	eP	03 25 21.6	2.4			NJ2	48.7	320	+iP	04 45 35.0	0.6		
			PP	03 29 23.0	-3.6						PMZ		m <sub>B</sub> =6.9	7.0	11.5
			SME			15.0	3.70				ipP	04 45 46.0	1.1		
			SKS	03 36 00.0	3.5						PP	04 47 29.0	2.3		
			SS	03 43 43.0	-5.9						iS	04 52 43.0	9.7		
			LZ		Ms=6.5	30.0	12.9				LN		Ms=7.4	20.0	125
											LE			20.0	230
								WHN	50.8	316	+P	04 45 50.0	-0.2		
											PMZ		m <sub>B</sub> =7.3	7.0	30.8
											ipP	04 46 04.5	3.8		
											eS	04 53 00.0	-1.9		
											SME			17.0	54.1
											ScS	04 55 30.0	-3.6		
											LN		Ms=7.4	20.0	224
QZH	44.5	313	-iP	04 45 03.0	2.3			DL2	52.0	329	+P	04 45 58.0	-1.1		
			PMZ		m <sub>B</sub> =7.3	8.0	32.4				pP	04 46 09.0	-0.7		
			iS	04 51 34.0	1.4						PcP	04 47 08.0	-2.6		
			SMN			14.0	33.3				S	04 53 13.0	-4.3		
			SME			14.0	45.2				sS	04 53 31.0	-5.1		
			LN		Ms=7.3	18.0	105				LN		Ms=7.2	18.0	103
			LE			18.0	195				LE			18.0	77.7
SSE	46.6	321	+P	04 45 17.5	-0.4			TIA	52.6	323	-P	04 46 02.4	-1.2		
			PMZ		m <sub>B</sub> =7.0	4.0	9.30				PMZ		m <sub>B</sub> =7.2	7.0	20.6

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O=04 36 51.2 ± 0.10s

LAT= 4.35 S ± 1.34km

LONG=153.16 E ± 2.77km

DEPTH= 39 km ± 0.44km

STATIONS USED = 92, STAND DEV= 1.15s

Ms=7.3/25, m<sub>B</sub>=7.0/21



	eS	04 55 14.0	-6.3		
	SME			13.0	34.5
	SS	04 59 14.5	-5.9		
	LN	Ms=7.4		22.0	92.0
	LE			18.0	131
GTA	65.6	317	+iP	04 47 34.4	0.4
			PMZ	m <sub>B</sub> =7.1	8.0 21.1
			iS	04 56 24.5	9.3
			SME		13.5 28.3
			LE	Ms=7.3	19.0 120
LSA	68.3	304	+P	04 47 50.0	-1.4
			iS	04 56 51.0	2.4
			SME		16.0 19.2
			LN	Ms=6.9	19.0 40.2
WMQ	75.7	317	+iP	04 48 34.0	-1.0
			PMZ	m <sub>B</sub> =6.9	12.0 18.6
			PcP	04 48 48.0	1.1
			PP	04 51 29.0	3.4
			S	04 58 12.5	1.6
			SS	05 03 08.0	2.6
			LE	Ms=7.3	24.0 104
KSH	82.9	310	+iP	04 49 16.0	1.7
			pP	04 49 30.0	5.1
			iS	04 59 26.0	-3.2
			LE	Ms=7.5	19.0 129

	O = 10 20 13.3	± 0.09s		
	LAT = 27.20 N	± 1.40km		
	LONG = 140.08 E	± 1.68km		
	DEPTH = 499 km	± 0.48km		
	STATIONS USED = 97,	STAND DEV = 1.11s		
		m <sub>B</sub> = 5.4 / 13		
SSE	17.0	288	P	10 23 42.0 -1.4
			PMZ	m <sub>B</sub> = 5.9 4.0 1.40
			sP	10 25 43.0 0.7
			S	10 26 37.0 4.1
			SMN	m <sub>B</sub> = 5.4 8.0 2.12
			SME	8.0 6.99
			ScS	10 34 22.0 -5.4
NJ2	19.1	290	-iP	10 24 04.0 0.0
			PMZ	2.0 1.00
			iS	10 27 13.0 2.8
			ScP	10 30 53.0 0.0
MDJ	19.3	337	-P	10 24 07.7 1.3
			sP	10 26 09.0 -4.0
			S	10 27 17.0 3.3
DL2	19.3	312	P	10 24 06.8 0.2
			sP	10 26 09.0 -4.3
			S	10 27 15.0 0.9
			SMN	m <sub>B</sub> = 5.3 8.0 5.81
			ScS	10 34 41.0 6.2
QZH	19.4	268	-iP	10 24 07.5 0.0
			sP	10 26 21.0 6.5
			S	10 27 13.5 -2.2
			SMN	m <sub>B</sub> = 5.7 4.0 2.29
			SME	4.5 6.71
SNY	19.9	321	-iP	10 24 11.5 -0.4
			PMZ	2.0 1.64
			sP	10 26 23.0 2.6
			S	10 27 27.0 3.5
			SMN	m <sub>B</sub> = 5.5 5.5 4.64
			SME	9.0 5.16
			ScS	10 34 40.0 3.3
CN2	20.3	328	-P	10 24 15.6 -0.6
			sP	10 26 28.0 1.9
			iPcS	10 31 35.0 -8.4
TIA	21.5	300	iP	10 24 26.2 -0.3
			PMZ	2.0 0.52
			sP	10 26 40.0 0.2
			S	10 27 57.0 7.4
			ScP	10 30 59.6 1.0
			ScS	10 34 43.0 0.7
WHN	22.8	285	-iP	10 24 38.5 0.1
			PMZ	m <sub>B</sub> = 5.6 7.0 1.20
			sP	10 26 54.0 -0.9
			S	10 28 16.0 5.2

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O = 05 28 30.6 ± 0.09s  
 LAT = 4.08 S ± 1.04km  
 LONG = 152.82 E ± 1.47km  
 DEPTH = 56 km ± 0.58km  
 STATIONS USED = 18, STAND DEV = 1.29s

DL2	51.6	329	eP	05 37 31.6	-2.0
TIA	52.1	323	eP	05 37 39.2	1.2
MDJ	52.8	339	eP	05 37 43.0	0.4
CN2	53.6	336	-P	05 37 50.8	1.6
CD2	58.3	310	eP	05 38 24.2	1.7

1985 7 3

O = 07 07 40.9 ± 0.13s  
 LAT = 4.25 S ± 1.81km  
 LONG = 152.58 E ± 2.70km  
 DEPTH = 35 km ± 0.60km  
 STATIONS USED = 15, STAND DEV = 2.44s

MDJ	52.8	340	eP	07 16 54.5	-1.2
CN2	53.7	336	eP	07 17 02.4	0.2
CD2	58.2	310	eP	07 17 36.2	1.6
GTA	65.1	317	e(P)	07 18 14.5	-6.6

1985 7 3





TIA	71.6	319	cP	16 07 07.9	-1.4					SMN			180	7.87
			eS	16 16 20.0	-5.7					LN	Ms=6.3		20.0	8.08
			SMN			14.0	25.3			LE			20.0	4.50
			LN	Ms=6.2		32.0	14.5	KMI	76.1	302	+P	16 07 36.5	0.5	
SNY	71.6	327	+P	16 07 08.6	-0.7						PMZ	m <sub>B</sub> =6.2	6.0	1.70
			PMZ	m <sub>B</sub> =6.1		10.0	2.62				pP	16 07 45.5	1.1	
			pP	16 07 16.0	-2.1						PP	16 10 33.0	5.5	
			S	16 16 26.0	1.6						S	16 17 16.0	0.9	
			SMN			22.0	8.96				LN	Ms=6.2	20.0	8.00
			sS	16 16 39.5	-0.8			HHC	77.8	320	P	16 07 45.6	0.0	
			LN	Ms=6.2		21.0	6.39				pP	16 07 53.0	-1.2	
			LE			28.0	7.54				S	16 17 42.0	8.0	
CN2	72.0	329	+P	16 07 10.8	-1.3						SKS	16 17 52.0	1.1	
			PMZ	m <sub>B</sub> =6.1		8.0	1.80				LN	Ms=6.2	20.0	6.44
			pP	16 07 17.8	-3.1						LE		20.0	2.66
			sP	16 07 22.0	-2.6			CD2	78.0	308	eP	16 07 47.0	0.7	
			PP	16 09 54.5	1.4						PMZ	m <sub>B</sub> =6.3	12.0	4.13
			S	16 16 26.0	-3.8						iS	16 17 40.0	2.8	
			SMN			15.0	3.90				SMN		20.0	10.3
			SME			15.0	2.80				LE	Ms=6.3	21.0	10.6
			ScS	16 17 13.0	1.5						LZ	Ms=6.4	22.0	11.9
			SS	16 21 14.0	5.2			BTO	78.7	319	+iP	16 07 50.0	-0.1	
			LN	Ms=6.2		18.0	6.30				PMZ	m <sub>B</sub> =6.0	8.0	1.70
			LE			18.0	3.80				sP	16 08 02.5	0.1	
GYA	73.6	305	P	16 07 21.4	0.0						PP	16 10 49.0	0.1	
			pP	16 07 29.4	-0.6						S	16 17 42.0	-0.7	
			S	16 16 52.0	4.7						SKS	16 17 58.0	1.3	
			SMN	m <sub>B</sub> =6.3		10.0	2.20				LN	Ms=6.1	17.0	3.60
			SME			10.0	1.10				LE		17.0	2.60
			SKS	16 17 19.0	-1.0						LZ	Ms=5.9	18.0	3.60
			LN	Ms=6.1		18.0	3.10	LZH	80.4	312	eP	16 08 00.5	0.9	
			LE			18.0	5.00				PMZ		2.0	0.42
BJI	74.5	321	eP	16 07 26.0	-0.8						pP	16 08 08.5	0.3	
			PMZ	m <sub>B</sub> =6.1		8.0	1.77				eS	16 18 07.0	3.9	
			epP	16 07 40.0	4.5						SMN		14.0	4.44
			esP	16 07 44.0	4.7						SKS	16 18 10.0	0.7	
			eS	16 16 56.0	-3.5						LE	Ms=5.8	15.0	2.11
			eSS	16 21 46.0	-1.0			GTA	84.8	314	-iP	16 08 23.3	1.1	
			SMN			15.0	5.42				PMZ		18.0	3.32
			LN	Ms=6.1		17.0	5.64				pP	16 08 39.4	8.6	
			LZ	Ms=6.2		19.0	7.00				PP	16 11 41.4	2.4	
TIY	75.5	318	P	16 07 32.0	-0.2						iS	16 18 46.5	-1.0	
			PMZ			1.2	0.11				SMN		22.0	9.72
			S	16 17 14.0	5.8						LE	Ms=6.1	19.0	4.89
			SMN			13.0	4.12	WMQ	94.9	314	+iP	16 09 09.5	-0.2	
			SME			9.0	1.12				PP	16 13 09.0	9.3	
			LN	Ms=6.2		20.0	2.57				SKS	16 19 44.0	3.6	
			LE			21.0	7.37				S	16 20 24.0	6.8	
XAN	75.8	313	+P	16 07 33.7	-0.3						SS	16 26 52.0	5.9	
			S	16 17 14.0	2.3						LN	Ms=6.3	30.0	9.71

KSH	102.1	308	eP	16 09 50.0	7.3
			ePP	16 13 59.0	3.2
			SKS	16 20 27.0	9.6
			LE	Ms=6.1	16.0 2.90

CD2	78.1	308	eP	18 04 06.4	0.6
BTO	78.8	319	eP	18 04 10.0	0.2
LZH	80.5	312	eP	18 04 21.0	1.8
GTA	84.9	314	P	18 04 43.0	1.3
			pP	18 04 53.4	3.9
WMQ	95.0	314	P	18 05 29.0	-0.2

1985 7 3

O=16 17 19.1 ± 0.09s  
 LAT=17.27 S ± 0.76km  
 LONG=167.83 E ± 1.13km  
 DEPTH= 6 km ± 0.39km

STATIONS USED = 15, STAND DEV = 1.26s

MDJ	70.8	332	eP	16 28 38.0	-1.0
CN2	72.1	329	+P	16 28 46.0	-0.9
BJI	74.6	321	eP	16 29 01.0	-0.4
KMI	76.1	302	eP	16 29 11.0	0.5
CD2	78.0	308	eP	16 29 22.2	1.4
GTA	84.8	314	P	16 29 58.9	2.2

1985 7 3

O=16 34 31.5 ± 0.07s  
 LAT=17.27 S ± 0.62km  
 LONG=167.73 E ± 0.84km  
 DEPTH= 10 km ± 0.34km

STATIONS USED = 9, STAND DEV = 1.36s

CN2	72.0	329	+P	16 45 58.6	0.1
BJI	74.5	321	eP	16 46 13.0	0.1

1985 7 3

O=17 52 06.3 ± 0.25s  
 LAT=17.35 S ± 1.53km  
 LONG=167.92 E ± 2.51km  
 DEPTH= 24 km ± 1.06km

STATIONS USED = 48, STAND DEV = 1.54s

Ms=5.3/ 1,

SSE	65.8	317	eP	18 02 52.0	-0.6
NJ2	68.0	316	eP	18 03 06.8	0.6
WHN	70.2	312	eP	18 03 20.0	0.4
DL2	70.8	323	eP	18 03 23.0	-0.3
MDJ	70.9	332	eP	18 03 23.5	-0.5
			sP	18 03 34.5	-0.8
TIA	71.7	319	eP	18 03 27.7	-1.3
SNY	71.7	327	eP	18 03 29.0	-0.1
CN2	72.2	329	-P	18 03 32.0	0.1
			pP	18 03 40.0	0.2
GYA	73.7	305	P	18 03 45.4	4.4
BJI	74.7	321	eP	18 03 47.0	0.5
TIY	75.6	318	eP	18 03 51.6	-0.3
			LE	Ms=5.3	19.0 0.84
XAN	75.9	313	P	18 03 53.6	0.0
KMI	76.2	302	-P	18 03 56.5	1.0

1985 7 3

O=19 08 54.7 ± 0.17s  
 LAT=30.30 S ± 1.89km  
 LONG=178.67 W ± 0.83km  
 DEPTH=175 km ± 1.18km

STATIONS USED = 29, STAND DEV = 1.21s

NJ2	85.7	311	-P	19 21 16.0	0.0
			LE		0.7 0.040
WHN	87.8	307	eP	19 21 25.0	-1.1
MDJ	88.2	326	eP	19 21 27.0	-0.9
TIA	89.5	313	-P	19 21 34.0	0.1
CN2	89.7	323	+P	19 21 33.8	-1.2
GYA	91.0	300	P	19 21 41.0	-0.1
BJI	92.4	316	eP	19 21 47.0	-0.7
KMI	93.3	297	+P	19 21 52.0	0.3
TIY	93.4	312	eP	19 21 52.0	0.0
XAN	93.6	308	eP	19 21 52.3	-0.7
CD2	95.5	303	eP	19 22 02.6	0.7

1985 7 3

O=19 58 24.4 ± 0.10s  
 LAT= 1.50 N ± 1.51km  
 LONG=126.46 E ± 2.91km  
 DEPTH= 52 km ± 0.36km

STATIONS USED = 33, STAND DEV = 1.70s

QZN	23.8	318	eP	20 03 32.2	-1.9
GYA	31.3	324	eP	20 04 43.0	0.8
KMI	32.8	318	eP	20 04 58.0	2.4
XAN	36.3	335	eP	20 05 24.1	-1.2
CD2	36.3	326	eP	20 05 24.4	-1.0
BJI	39.5	348	eP	20 05 50.5	-1.4
SNY	40.2	357	eP	20 05 57.2	-0.9
CN2	42.1	359	-P	20 06 18.2	4.5
MDJ	43.0	3	eP	20 06 22.1	1.0
GTA	44.9	330	eP	20 06 35.3	-0.9
WMQ	54.4	326	eP	20 07 49.0	-0.1

1985 7 3

O=20 08 09.9 ± 0.12s  
 LAT=24.62 N ± 1.64km  
 LONG=114.80 E ± 1.09km  
 DEPTH= 12 km ± 0.36km

STATIONS USED = 22, STAND DEV = 2.97s



1985 7 3						1985 7 3											
$M_L = 4.0 / 17,$						$M_s = 5.1 / 16,$											
GZH	2.0	221	Pn	20 08 45.8	1.5	WMQ	75.6	317	P	22 36 26.0	1.0						
			Pg	20 08 50.7	5.0												
			iSg	20 09 18.0	4.5												
			SMN	$M_L = 3.9$	0.4	0.98											
			SME		0.4	0.99											
QZH	3.5	84	Pn	20 09 04.8	0.7												
			Sn	20 09 44.5	-2.5												
			Sg	20 09 59.3	0.8												
			SMN	$M_L = 4.0$	0.5	0.49	QZH	44.0	313	+iP	23 58 20.0	1.2					
			SME		0.7	0.40				PMZ	$m_B = 6.0$	4.0	1.00				
WHN	5.9	356	Pn	20 09 43.0	5.2					PP	24 00 04.5	1.6					
			Sn	20 10 41.2	-6.5					S	24 04 50.5	3.3					
			LG <sub>1</sub>	20 11 11.2	-4.5					SMN	$m_B = 5.7$	10.0	0.88				
			SMN	$M_L = 4.0$	0.6	0.13				SME		10.0	0.68				
			SME		0.6	0.12				ScS	24 08 15.0	3.0					
QZN	7.2	221	ePn	20 09 59.1	3.3		SSE	46.2	322	+P	23 58 37.0	0.5					
			SMN	$M_L = 4.0$	0.5	0.040				PMZ		3.0	1.42				
			SME		0.6	0.070				S	24 05 23.0	4.0					
GYA	7.6	286	Pn	20 10 00.8	0.1					SMN	$m_B = 5.5$	10.0	0.67				
			Sn	20 11 27.0	-1.8					sS	24 05 40.0	4.5					
			LG <sub>2</sub>	20 12 16.6	-3.2					LE	$M_s = 5.0$	22.0	1.17				
SSE	8.6	40	eP	20 10 13.0	-4.1		GZH	46.9	307	+P	23 58 44.0	1.4					
			eLG <sub>1</sub>	20 12 40.3	1.0					S	24 05 38.0	8.0					
			eLG <sub>2</sub>	20 12 57.0	4.1					LN	$M_s = 5.1$	20.0	1.40				
			SMN	$M_L = 4.3$	1.0	0.060	QZN	48.0	300	+P	23 58 50.5	-0.4					
CD2	11.6	305	eP	20 10 56.2	-2.7					PP	24 00 45.5	3.9					
										S	24 05 54.0	9.1					
1985 7 3						1985 7 3											
O=21 38 03.9 ± 0.06s						O=23 50 12.6 ± 0.22s											
LAT= 4.36 S ± 0.97km						LAT= 4.26 S ± 1.51km											
LONG= 152.97 E ± 1.39km						LONG= 152.56 E ± 1.26km											
DEPTH= 34 km ± 0.26km						DEPTH= 33 km ± 2.19km											
STATIONS USED = 18, STAND DEV = 1.34s						STATIONS USED = 72, STAND DEV = 1.46s											
CN2	54.0	336	-P	21 47 24.4	-2.9					SMN	$m_B = 5.8$	11.0	0.70				
KMI	56.9	304	eP	21 47 49.5	0.9					SME		12.0	1.20				
CD2	58.6	310	eP	21 48 01.2	0.9					sS	24 06 08.0	6.6					
GTA	65.5	317	-P	21 48 48.2	1.8					LN	$M_s = 5.6$	21.0	2.20				
										LE		22.0	3.80				
1985 7 3						1985 7 3											
O=22 24 41.2 ± 0.11s						O=23 58 12.6 ± 0.22s											
LAT= 4.43 S ± 1.60km						LAT= 4.26 S ± 1.51km											
LONG= 153.05 E ± 2.85km						LONG= 152.56 E ± 1.26km											
DEPTH= 39 km ± 0.48km						DEPTH= 33 km ± 2.19km											
STATIONS USED = 27, STAND DEV = 2.28s						STATIONS USED = 72, STAND DEV = 1.46s											
CN2	54.1	336	+P	22 34 03.6	-1.2		NJ2	48.3	321	+P	23 58 54.0	0.9					
XAN	56.5	316	eP	22 34 26.0	3.3					ipP	23 59 03.5	1.1					
CD2	58.7	310	eP	22 34 39.5	1.6					iS	24 05 57.0	7.1					
LZH	61.1	316	eP	22 35 00.5	5.6					SS	24 09 22.0	8.4					
GTA	65.6	317	eP	22 35 24.0	0.1					LE	$M_s = 5.1$	13.0	0.90				
							WHN	50.3	316	-iP	23 59 10.2	1.6					
										pP	23 59 19.0	1.1					
										S	24 06 20.0	2.9					
										SMN	$m_B = 5.3$	11.0	0.48				
										LN	$M_s = 5.2$	18.0	1.23				
							DL2	51.6	329	+P	23 59 18.0	-0.4					
										eS	24 06 43.0	7.1					
										LN	$M_s = 5.1$	8.0	0.27				
										LE		8.0	0.33				
							TIA	52.1	324	+P	23 59 22.0	-0.5					
										pP	23 59 28.8	-3.1					
										S	24 06 48.0	5.6					





STATIONS USED = 18, STAND DEV = 3.01s  
 $M_s = 3.5 / 3, M_L = 4.0 / 9,$

QZH	3.5	272	ePn	14 17 11.7	-0.6		
			Sn	14 17 47.5	-8.8		
			SMN	$M_L = 4.0$	1.1	0.67	
			SME		0.6	0.19	
SSE	6.3	350	Pn	14 17 53.6	3.1		
			LE	$M_s = 3.5$	10.0	0.50	
NJ2	7.9	337	eP	14 18 14.0	-0.1		
			LN	$M_s = 4.1$	14.0	1.70	
GZH	8.6	260	eP	14 18 30.0	6.1		
			SMN	$M_L = 4.0$	0.5	0.040	
			SME		0.5	0.030	
CD2	17.6	294	eP	14 20 28.5	4.0		
CN2	19.1	7	eP	14 20 46.0	3.9		

1985 7 4

O = 14 55 12.4 ± 0.06s  
 LAT = 6.98 S ± 1.16km  
 LONG = 106.27 E ± 1.04km  
 DEPTH = 88 km ± 0.45km

STATIONS USED = 24, STAND DEV = 1.04s

KMI	32.1	354	eP	15 01 34.5	0.6		
CD2	37.7	356	eP	15 02 22.0	0.1		
XAN	40.9	3	eP	15 02 47.0	-0.7		
GTA	46.5	353	P	15 03 33.8	0.2		
WMQ	53.3	343	eP	15 04 25.4	0.3		
CN2	53.4	17	eP	15 04 26.0	-0.2		

1985 7 4

O = 15 27 53.0 ± 0.03s  
 LAT = 2.98 N ± 0.71km  
 LONG = 128.55 E ± 1.06km  
 DEPTH = 228 km ± 0.03km

STATIONS USED = 21, STAND DEV = 0.74s

KMI	33.2	314	eP	15 34 12.0	1.2		
XAN	35.9	332	eP	15 34 33.3	-0.4		
CD2	36.3	323	eP	15 34 37.2	0.1		
LZH	40.1	328	eP	15 35 09.0	0.6		
GTA	44.7	328	P	15 35 45.7	0.2		

1985 7 4

O = 16 40 02.1 ± 0.13s  
 LAT = 22.42 N ± 1.66km  
 LONG = 121.22 E ± 1.70km  
 DEPTH = 16 km ± 0.48km

STATIONS USED = 58, STAND DEV = 1.90s

$M_s = 4.3 / 15, M_L = 4.2 / 8,$

QZH	3.5	317	+iPn	16 40 55.8	-0.1		
			iSn	16 41 35.5	-3.2		

			SMN	$M_L = 4.1$	1.1	0.72	
			SME		1.0	0.48	
			LN	$M_s = 3.5$	8.0	0.93	
GZH	7.3	277	Pn	16 41 51.0	2.5		
			pP	16 41 54.5	-1.8		
			Sn	16 43 07.5	-5.8		
			LE	$M_s = 4.0$	12.0	1.54	
SSE	8.6	360	eP	16 42 12.5	2.9		
			eS	16 43 50.0	2.5		
			SME	$M_L = 4.1$	1.0	0.040	
WHN	10.2	324	P	16 42 27.5	-3.1		
			pP	16 42 30.5	-5.7		
			isP	16 42 35.5	-3.8		
			eS	16 44 17.5	-7.8		
			LE	$M_s = 4.1$	12.0	1.04	
QZN	11.2	254	eP	16 42 44.0	-0.4		
			eS	16 44 46.0	-4.0		
			LN	$M_s = 4.3$	15.0	1.30	
			LE		15.0	1.20	
GYA	13.9	290	P	16 43 23.0	2.5		
			S	16 45 53.4	-1.0		
			LN	$M_s = 4.5$	9.0	0.70	
			LE		9.0	0.80	
TIA	14.2	346	eP	16 43 26.7	1.8		
			LN	$M_s = 4.3$	13.0	0.87	
			LE		13.0	0.26	
XAN	15.8	320	eP	16 43 46.7	0.3		
TIY	17.0	336	eP	16 44 05.6	4.2		
			LG <sub>2</sub>	16 49 16.0	-7.5		
			LN	$M_s = 4.8$	11.0	1.63	
			LE		12.0	1.24	
CD2	17.7	302	eP	16 44 12.9	2.6		
			eS	16 47 30.0	4.4		
			LZ	$M_s = 4.7$	17.0	2.20	
BJI	18.1	347	eP	16 44 15.0	0.5		
			S	16 47 31.0	-1.6		
			LN	$M_s = 4.3$	13.0	0.63	
			LE		13.0	0.36	
SNY	19.5	5	eP	16 44 30.6	-0.4		
			S	16 48 10.0	6.5		
			LN	$M_s = 4.4$	16.0	0.64	
			LE		16.0	0.52	
HHC	20.1	338	eP	16 44 36.0	-2.3		
LZH	20.3	316	eP	16 44 41.0	0.2		
BTO	20.4	335	eP	16 44 41.0	-1.0		
			eS	16 48 23.0	-2.8		
			LN	$M_s = 4.9$	14.0	2.00	
			LE		14.0	1.50	
			LZ	$M_s = 4.9$	14.0	2.10	
CN2	21.6	8	+P	16 44 54.6	0.9		

			pP	16 45 00.0	0.1		
			eS	16 48 50.0	2.4		
			LN	Ms=4.4	15.0	0.80	
MDJ	23.2	15	eP	16 45 08.2	-1.1		
			sP	16 45 16.5	-2.3		
			eS	16 49 08.0	-8.4		
GTA	24.9	318	P	16 45 25.2	-0.8		
			LE	Ms=4.2	11.0	0.29	
WMQ	34.9	316	eP	16 46 53.5	-2.1		

1985 7 4  
 O=17 06 32.2 ± 0.22s  
 LAT= 4.54 S ± 1.71km  
 LONG=152.68 E ± 0.96km  
 DEPTH= 45 km ± 1.98km  
 STATIONS USED = 37, STAND DEV= 1.86s  
 Ms=4.8/ 1,

TIA	52.4	324	eP	17 15 45.5	2.4		
MDJ	53.1	340	eP	17 15 47.5	-0.8		
CN2	54.0	336	-P	17 15 53.6	-1.2		
			isP	17 16 11.6	0.2		
BJI	55.6	326	eP	17 16 06.0	-0.4		
TIY	56.2	322	eP	17 16 12.4	1.3		
XAN	56.4	316	eP	17 16 10.8	-1.0		
KMI	56.7	304	eP	17 16 15.5	0.7		
CD2	58.5	311	eP	17 16 26.6	-0.2		
HHC	58.8	324	eP	17 16 28.8	-0.1		
BTO	59.5	323	eP	17 16 34.0	-0.1		
			eS	17 24 37.0	-1.9		
LZH	61.0	316	eP	17 16 45.0	1.0		
GTA	65.4	317	P	17 17 13.2	0.1		
			LE	Ms=4.8	10.0	0.21	
WMQ	75.5	317	P	17 18 14.0	-0.3		

1985 7 4  
 O=20 58 00.1 ± 0.10s  
 LAT=30.53 N ± 0.77km  
 LONG=102.35 E ± 0.87km  
 DEPTH= 17 km ± 0.14km  
 STATIONS USED = 8, STAND DEV= 2.84s  
 M<sub>L</sub>=3.4/ 4,

CD2	1.3	72	Pn	20 58 23.6	-0.1		
			Pg	20 58 24.8	2.1		
			Sg	20 58 44.8	4.5		
			SMN	M <sub>L</sub> =3.4	0.8	0.69	
			SME		0.8	0.45	
XAN	6.6	56	ePn	20 59 36.8	0.2		

1985 7 4  
 O=23 37 26.7 ± 0.25s

LAT=29.06 N ± 3.02km  
 LONG=130.58 E ± 2.97km  
 DEPTH= 35 km ± 0.54km  
 STATIONS USED = 38, STAND DEV= 3.24s  
 Ms=4.4/ 4,

TIA	13.4	306	eP	23 40 32.7	-4.3		
			LN	Ms=4.3	13.0	0.65	
			LE		13.0	0.78	
CN2	15.3	346	+P	23 41 04.2	2.5		
MDJ	15.5	357	eP	23 41 10.0	4.8		
BJI	16.1	317	eP	23 41 12.0	-0.6		
			LN	Ms=4.4	12.0	0.75	
			LE		11.0	0.56	
TIY	17.4	304	eP	23 41 29.9	0.9		
			LN	Ms=4.5	11.0	0.65	
			LE		12.0	0.69	
XAN	19.1	291	eP	23 41 47.0	-2.6		
HHC	19.5	312	eP	23 41 51.2	-2.6		
GYA	21.3	269	P	23 42 13.6	0.5		
QZN	21.4	247	eP	23 42 15.2	1.6		
CD2	23.3	281	eP	23 42 32.4	-0.2		
			LE	Ms=4.7	12.0	0.94	
LZH	23.5	294	eP	23 42 34.5	-0.7		
KMI	25.1	268	eP	23 42 51.0	1.0		

1985 7 5  
 O=00 46 58.2 ± 0.11s  
 LAT=29.03 N ± 2.40km  
 LONG=131.01 E ± 2.14km  
 DEPTH= 47 km ± 1.28km  
 STATIONS USED = 27, STAND DEV= 2.14s  
 Ms=4.4/ 6,

SSE	8.8	286	eP	00 49 02.0	-3.1		
			LE	Ms=4.0	13.0	1.08	
DL2	12.5	324	eP	00 49 55.0	-1.7		
			LN	Ms=4.2	12.0	0.73	
			LE		12.0	0.68	
CN2	15.4	345	+P	00 50 37.0	3.0		
			LN	Ms=4.3	11.0	0.80	
BJI	16.4	316	P	00 50 42.5	-4.4		
			LN	Ms=4.4	12.0	0.75	
			LE		11.0	0.63	
TIY	17.7	304	eP	00 51 04.7	1.0		
			LN	Ms=4.5	12.0	0.86	
			LB		12.0	0.69	
XAN	19.5	290	eP	00 51 20.4	-3.7		
GYA	21.7	269	P	00 51 47.4	0.2		
CD2	23.7	281	P	00 52 06.0	-0.5		
			eS	00 56 23.3	8.7		
			LE	Ms=5.0	12.0	1.88	

LZH	23.9	294	eP	00 52 09.0	0.0		
GTA	27.7	300	eP	00 52 43.6	-0.7		
<b>1985 7 5</b>							
O=02 38 17.1				± 0.08s			
LAT=46.94 N				± 1.33km			
LONG=144.68 E				± 0.76km			
DEPTH=374 km				± 1.31km			
STATIONS USED = 67, STAND DEV = 0.93s							
$m_B = 4.7 / 1$							
MDJ	10.8	263	eP	02 40 45.5	-0.1		
			iS	02 42 49.0	5.9		
			SME			2.0	0.81
CN2	13.9	264	-iP	02 41 19.0	-2.2		
			S	02 43 45.0	-3.2		
SNY	15.9	259	+P	02 41 42.4	-0.3		
			PMZ			0.8	0.11
			S	02 44 27.6	-0.2		
DL2	18.6	253	P	02 42 12.0	1.5		
			S	02 45 17.0	-1.7		
BJI	21.7	262	P	02 42 40.5	0.2		
			eS	02 46 13.0	0.4		
			SMN			8.0	0.28
			SME			6.0	0.25
TIA	23.1	252	eP	02 42 52.5	-0.8		
SSE	24.0	237	eP	02 43 01.5	-0.1		
HHC	24.5	268	-iP	02 43 07.0	0.9		
TIY	25.4	260	P	02 43 14.8	0.6		
			PMZ			0.8	0.050
XAN	29.8	257	eP	02 43 52.3	-1.0		
LZH	32.1	265	-P	02 44 14.5	1.4		
			PMZ			1.5	0.090
GTA	33.2	273	-iP	02 44 23.3	1.0		
CD2	35.2	258	P	02 44 39.5	0.5		
			PMZ			0.8	0.080
			eS	02 49 42.0	-3.5		
GYA	36.2	249	P	02 44 47.6	-0.2		
			S	02 49 57.4	-2.8		
WMQ	39.4	287	-P	02 45 14.5	0.5		
KMI	39.7	252	eP	02 45 16.5	0.0		
LSA	44.5	267	-P	02 45 55.1	-0.2		
<b>1985 7 5</b>							
O=07 17 11.7				± 0.14s			
LAT= 1.07 S				± 1.45km			
LONG=128.85 E				± 3.08km			
DEPTH= 34 km				± 0.21km			
STATIONS USED = 22, STAND DEV = 1.39s							
GYA	34.7	324	P	07 24 01.4	0.1		
KMI	36.3	318	-P	07 24 15.0	0.5		

XAN	39.6	334	P	07 24 41.6	-0.7		
CD2	39.8	325	eP	07 24 43.2	-0.1		
LZH	43.7	330	eP	07 25 16.5	0.7		
GTA	48.3	330	P	07 25 52.5	0.4		
WMQ	57.9	326	P	07 27 02.0	-1.1		

**1985 7 5**

O=12 50 47.4				± 0.08s			
LAT=17.22 S				± 0.66km			
LONG=167.82 E				± 0.99km			
DEPTH= 10 km				± 0.30km			

STATIONS USED = 18, STAND DEV = 1.02s

MDJ	70.7	332	eP	13 02 06.5	0.2		
CN2	72.0	329	eP	13 02 13.8	-0.5		
BJI	74.5	321	eP	13 02 28.5	-0.3		
TIY	75.4	318	P	13 02 35.0	0.8		
XAN	75.8	313	eP	13 02 36.1	0.1		
CD2	77.9	308	eP	13 02 49.2	1.0		
GTA	84.8	314	P	13 03 25.1	0.9		

**1985 7 5**

O=14 33 15.3				± 0.19s			
LAT= 4.27 S				± 2.82km			
LONG=152.83 E				± 3.96km			
DEPTH= 29 km				± 0.68km			

STATIONS USED = 16, STAND DEV = 4.50s

MDJ	52.9	339	eP	14 42 36.0	4.3		
CN2	53.8	336	eP	14 42 33.8	-4.5		
CD2	58.4	310	eP	14 43 17.0	5.7		
GTA	65.3	317	eP	14 43 57.2	-0.3		

**1985 7 5**

O=15 22 38.4				± 0.19s			
LAT=33.40 S				± 4.22km			
LONG= 72.25 W				± 2.03km			
DEPTH= 35 km				± 1.28km			

STATIONS USED = 22, STAND DEV = 2.55s

 $M_s = 5.4 / 3,$ 

KSH	153.8	68	ePKP	15 42 38.0	12.4		
			ePP	15 46 26.0	1.0		
MDJ	159.7	310	ePKP	15 42 33.5	-0.9		
WMQ	161.2	50	ePKP	15 42 37.0	0.9		
			PP	15 47 05.0	-0.3		
			LZ			$M_s = 5.6$	20.0 0.73
CN2	162.7	312	ePKP	15 42 35.0	-2.5		
			ePP	15 47 03.0	-9.6		
			eSKKS	15 53 52.0			
			LZ			$M_s = 5.4$	19.0 0.50
SSE	168.4	262	PKP	15 42 40.0	-2.2		
GTA	171.2	45	PKP	15 42 46.4	2.3		



			LE		15.0	1.20					
			LZ	Ms=4.6	15.0	1.40					
GYA	21.4	268	P	19 11 22.4	0.2						
			S	19 15 16.0	5.3						
			sS	19 15 26.0	-5.2						
			LN	Ms=4.8	12.0	0.90					
			LE		12.0	1.20					
QZN	21.5	247	eP	19 11 24.1	1.0						
			sS	19 15 30.0	-3.1						
			LN	Ms=4.5	13.0	0.50					
			LE		13.0	0.60					
CD2	23.4	281	eP	19 11 41.6	0.3						
			S	19 15 45.0	-0.8						
			LE	Ms=5.0	13.0	2.03					
			LZ	Ms=4.9	12.0	1.44					
LZH	23.6	294	eP	19 11 45.0	1.4						
KMI	25.2	267	eP	19 11 59.0	0.0						
GTA	27.4	300	eP	19 12 18.2	-0.8						
WMQ	37.1	305	eP	19 13 46.0	2.1						

1985 7 5

O=22 50 12.1 ± 0.06s

LAT=42.16 N ± 1.53km

LONG=142.86 E ± 1.27km

DEPTH= 60 km ± 0.91km

STATIONS USED = 30, STAND DEV = 1.39s

CN2	12.9	283	-P	22 53 14.8	0.5						
SNY	14.3	275	-P	22 53 34.9	1.2						
BJI	20.2	273	eP	22 54 42.0	-2.6						
TIA	20.8	262	-P	22 54 48.3	-2.4						
XAN	27.8	264	eP	22 55 58.8	1.0						
GTA	32.5	280	P	22 56 40.4	1.0						
CD2	33.1	263	eP	22 56 43.8	-1.1						
KMI	37.1	256	eP	22 57 19.0	0.0						
WMQ	39.8	292	P	22 57 42.0	0.9						

1985 7 5

O=23 10 15.1 ± 0.19s

LAT= 5.66 N ± 2.52km

LONG= 95.52 E ± 2.24km

DEPTH= 9 km ± 0.28km

STATIONS USED = 76, STAND DEV = 1.75s

Ms=5.6/25, m<sub>B</sub>=5.3/2

QZN	19.3	45	eP	23 14 46.4	3.4						
			S	23 18 21.0	6.9						
			SMN		13.0	1.30					
			SME		13.0	1.40					
			LN	Ms=5.8	13.5	17.3					
			LE		13.5	8.70					
KMI	20.6	19	-P	23 14 58.0	0.8						

			pP	23 15 03.0	1.0						
			LN	Ms=5.6	11.0	9.00					
GYA	23.3	26	P	23 15 26.0	1.7						
			S	23 19 39.0	7.2						
			LN	Ms=5.5	13.0	5.50					
			LE		13.0	5.60					
LSA	24.3	351	eP	23 15 31.4	-3.0						
			eS	23 19 46.5	-4.4						
			LN	Ms=4.7	15.0	1.21					
GZH	24.4	43	eP	23 15 36.7	1.4						
			LN	Ms=5.8	12.0	10.6					
			LE		13.0	7.44					
CD2	26.3	16	P	23 15 52.6	-0.5						
			S	23 20 30.0	7.0						
			LE	Ms=5.8	12.0	11.1					
			LZ	Ms=5.5	12.0	5.76					
WHN	30.4	33	eP	23 16 30.5	-0.1						
			pP	23 16 37.0	1.1						
			S	23 21 34.0	4.2						
			SMN	m <sub>B</sub> =5.2	9.0	0.42					
			LN	Ms=5.9	14.0	8.08					
			LE		14.0	8.71					
XAN	30.9	22	P	23 16 32.6	-1.7						
			S	23 21 33.0	-3.3						
			LN	Ms=5.6	11.0	4.59					
			LE		16.0	3.94					
LZH	31.2	13	eP	23 16 37.5	-0.3						
			PMZ		2.5	0.16					
			eS	23 21 39.0	-4.5						
			LE	Ms=5.5	13.0	4.77					
GTA	33.8	6	P	23 16 58.9	-1.5						
			eS	23 22 24.6	0.8						
			LE	Ms=5.1	12.0	1.38					
NJ2	34.1	37	eP	23 17 03.8	0.9						
			S	23 22 28.0	0.5						
			LE	Ms=5.9	12.0	8.80					
SSE	34.9	40	eP	23 17 09.5	-0.3						
			eS	23 22 39.0	-1.7						
			LN	Ms=5.9	14.0	8.25					
			LE		14.0	6.06					
TIY	35.4	23	eP	23 17 14.4	0.3						
			S	23 22 49.5	1.9						
			LN	Ms=5.7	12.0	3.60					
			LE		12.0	4.12					
TIA	36.3	30	eP	23 17 21.4	0.0						
			eS	23 22 55.0	-6.9						
			SMN		20.0	0.60					
			SME		20.0	0.53					
			LN	Ms=5.1	30.0	1.45					
			LE		30.0	2.81					





			sP	03 50 11.0	6.8				SKS	04 00 35.0	-0.9			
			S	04 00 07.0	-0.6				eS	04 01 00.0	1.6			
			LE		$M_s=5.8$	21.0	2.40		SMN			16.0	0.82	
QZN	84.8	295	+P	03 49 49.0	-0.8				SME			16.0	0.88	
			PMZ		$m_B=5.9$	8.0	1.10		SS	04 07 03.0	6.4			
			sP	03 50 12.0	5.7				LN		$M_s=6.1$	25.0	3.90	
			PP	03 53 07.0	0.2				LE			28.0	4.64	
			eS	04 00 06.0	-7.5			CN2	89.6	323	+P	03 50 11.2	-1.7	
			sS	04 00 32.0	-1.5				PMZ		$m_B=6.5$	4.5	1.50	
			SS	04 05 41.0	-6.5				ipP	03 50 29.4	4.6			
			LN		$M_s=5.8$	18.0	1.60		PP	03 53 50.0	3.9			
			LE			20.0	1.70		SKS	04 00 33.5	-2.7			
NJ2	85.9	310	+iP	03 49 56.0	1.2				eS	04 00 54.0	-4.8			
			PMZ		$m_B=6.4$	4.0	1.40		SMN		$m_B=6.1$	6.0	0.60	
			sP	03 50 17.5	6.1				SME			6.0	1.10	
			SKS	04 00 13.0	0.5				isS	04 01 25.0	6.2			
			iS	04 00 23.0	-0.5				SS	04 07 00.0	2.7			
			LZ		$M_s=5.7$	24.0	2.30		LE		$M_s=5.8$	20.0	2.50	
WHN	88.0	307	+P	03 50 04.0	-1.3			GYA	91.3	300	+P	03 50 20.0	-1.0	
			PMZ		$m_B=6.4$	5.0	1.45		PMZ		$m_B=6.2$	5.0	0.80	
			sP	03 50 28.0	6.1				pP	03 50 35.0	2.2			
			eSKS	04 00 25.0	-1.4				PP	03 53 50.0	-8.8			
			S	04 00 40.0	-2.3				SKS	04 00 48.0	1.7			
			SME		$m_B=5.7$	8.0	0.63		S	04 01 15.0	2.7			
			sS	04 01 10.0	5.9				SMN		$m_B=5.7$	10.0	0.70	
			LZ		$M_s=5.8$	20.0	2.13		sS	04 01 39.0	4.7			
MDJ	88.0	325	eP	03 50 04.5	-1.0			BJI	92.5	315	eP	03 50 24.0	-2.2	
			pP	03 50 19.0	1.6				epP	03 50 40.0	1.9			
			sP	03 50 28.0	5.9				esP	03 50 49.0	6.1			
			SKS	04 00 24.0	-2.7				eSKS	04 00 50.0	-2.9			
			S	04 00 45.0	2.3				eS	04 01 20.0	-4.2			
			SMN		$m_B=5.7$	8.0	0.65		SMN		$m_B=6.2$	7.0	0.84	
			sS	04 01 12.0	7.5				SME			8.0	1.25	
			LZ		$M_s=6.2$	20.0	5.91		esS	04 01 50.0	5.5			
DL2	88.5	317	-iP	03 50 07.0	-0.5				LN		$M_s=5.8$	20.0	1.23	
			PMZ		$m_B=6.4$	5.0	1.42		LE			20.0	1.64	
			SKS	04 00 27.0	-2.3			TIY	93.5	312	+P	03 50 30.2	-0.7	
			S	04 00 49.5	2.9				PMZ		$m_B=6.3$	5.0	0.76	
			SME		$m_B=5.8$	9.0	0.83		pP	03 50 44.0	1.4			
			LN		$M_s=5.5$	16.0	0.76		sP	03 50 53.5	6.1			
			LE			15.0	0.65		SKS	04 00 57.0	-1.5			
SNY	89.3	320	+iP	03 50 10.0	-1.4				S	04 01 26.0	-5.2			
			PMZ		$m_B=6.3$	5.5	1.19		SME		$m_B=5.9$	6.0	0.56	
			sP	03 50 33.0	5.0				LN		$M_s=5.8$	23.0	1.96	
			SKS	04 00 30.0	-4.2				LE			23.0	1.49	
			eS	04 00 47.0	-8.8			KMI	93.6	297	+P	03 50 32.0	0.3	
			LN		$M_s=5.8$	28.0	1.83		PMZ		$m_B=6.2$	5.0	0.65	
			LE			26.0	2.40		eSKS	04 00 50.0	-9.4			
TIA	89.5	313	eP	03 50 11.2	-1.5				LE		$M_s=6.0$	20.0	3.07	
			PMZ		$m_B=6.3$	6.0	1.47	XAN	93.8	307	eP	03 50 33.0	0.8	







STATIONS USED = 23, STAND DEV = 2.64s

 $m_B = 4.1 / 1$ 

MDJ	7.0	331	eP	15 48 04.5	-4.5		
			iS	15 49 35.0	0.0		
CN2	8.5	311	-P	15 48 22.0	-1.7		
			esP	15 49 58.0	0.8		
			iS	15 50 03.0	1.5		
			SMN	$m_B = 4.1$	5.0	0.30	
			SME		5.0	0.30	
SNY	8.8	295	-iP	15 48 25.4	-1.8		
TIA	13.8	266	+P	15 49 18.0	-0.5		
BJI	14.1	282	eP	15 49 20.5	-0.6		
NJ2	14.2	247	eP	15 49 20.0	-1.7		
TIY	17.2	274	eP	15 49 52.6	0.9		
LZH	24.3	274	eP	15 51 00.5	3.1		
GTA	26.7	283	+iP	15 51 22.8	3.9		

1985 7 6

O = 16 09 01.3 ± 0.19s  
 LAT = 3.98 S ± 2.34km  
 LONG = 152.91 E ± 2.67km  
 DEPTH = 41 km ± 0.98km

STATIONS USED = 14, STAND DEV = 3.24s

CD2	58.3	310	eP	16 18 56.2	1.3		
GTA	65.1	317	-P	16 19 42.4	1.4		

1985 7 6

O = 16 41 31.3 ± 0.23s  
 LAT = 22.75 N ± 2.07km  
 LONG = 120.54 E ± 1.55km  
 DEPTH = 15 km

STATIONS USED = 18, STAND DEV = 2.38s

 $M_L = 3.7 / 10,$ 

QZH	2.8	321	ePn	16 42 15.6	-0.7		
			Sn	16 42 47.0	-4.9		
			SMN	$M_L = 3.5$	0.3	0.16	
			SME		0.7	0.22	
			LE		7.0	0.45	
GZH	6.6	274	ePn	16 43 11.0	2.2		
			SMN	$M_L = 3.8$	1.0	0.050	
			SME		1.0	0.040	
QZN	10.7	252	eP	16 44 06.9	0.0		
CD2	17.0	302	eP	16 45 32.8	1.9		

1985 7 6

O = 20 28 59.2 ± 0.14s  
 LAT = 5.27 S ± 1.32km  
 LONG = 152.94 E ± 0.66km  
 DEPTH = 58 km ± 1.44km  
 STATIONS USED = 31, STAND DEV = 1.38s

MDJ	53.9	339	eP	20 38 18.5	-1.0		
CN2	54.8	336	+P	20 38 25.1	-0.8		
BJI	56.4	326	P	20 38 37.0	-0.2		
XAN	57.1	317	eP	20 38 42.0	-0.3		
CD2	59.1	311	eP	20 38 57.2	0.3		
LZH	61.7	316	eP	20 39 15.5	1.3		
GTA	66.1	317	+P	20 39 44.5	1.3		
WMQ	76.2	317	+P	20 40 44.5	0.8		
KSH	83.3	311	P	20 41 26.6	4.4		

1985 7 6

O = 23 01 01.1 ± 0.11s  
 LAT = 46.92 N ± 2.01km  
 LONG = 143.80 E ± 1.14km  
 DEPTH = 381 km ± 1.62km

STATIONS USED = 49, STAND DEV = 1.50s

MDJ	10.2	262	-P	23 03 23.2	0.8		
			S	23 05 19.0	5.1		
CN2	13.3	263	-iP	23 03 56.8	-1.4		
			S	23 06 17.0	-2.1		
SNY	15.3	258	eP	23 04 19.3	-0.9		
DL2	18.1	252	eP	23 04 48.0	-0.3		
BJI	21.1	261	-P	23 05 19.0	0.8		
TIA	22.5	251	eP	23 05 31.3	-0.3		
HHC	23.9	267	-iP	23 05 45.2	1.0		
BTO	25.1	268	eP	23 05 55.1	0.4		
WHN	28.0	245	eP	23 06 19.0	-1.6		
XAN	29.2	256	eP	23 06 31.0	-0.7		
LZH	31.5	264	-iP	23 06 52.5	1.1		
GTA	32.6	273	-iP	23 07 02.0	1.3		
CD2	34.6	257	eP	23 07 18.2	0.6		
			PMZ			1.0	0.080
GYA	35.7	248	P	23 07 26.2	-0.4		
WMQ	38.8	287	P	23 07 53.0	0.2		
KMI	39.1	251	-P	23 07 55.5	0.3		

1985 7 7

O = 03 17 39.9 ± 0.13s  
 LAT = 12.10 N ± 1.41km  
 LONG = 143.74 E ± 0.87km  
 DEPTH = 38 km ± 0.60km

STATIONS USED = 21, STAND DEV = 1.40s

 $M_s = 4.7 / 2,$ 

SSE	28.1	316	eP	03 23 30.0	-0.8		
			eS	03 28 16.0	4.3		
			esS	03 28 28.0	-0.7		
			LZ	$M_s = 4.7$	20.0	1.34	
BJI	37.0	324	eP	03 24 48.0	0.4		
CD2	41.4	303	eP	03 25 25.8	1.5		
LZH	43.1	311	eP	03 25 39.5	0.6		



HHC	31.5	312	eS	06 12 18.0	-3.6		
			P	06 07 37.1	-0.1		
			pP	06 08 26.0	-1.8		
			S	06 12 27.0	2.2		
			SMN	$m_B = 5.1$	5.0	0.18	
			SME		5.0	0.38	
GYA	32.4	284	-P	06 07 45.0	0.0		
			S	06 12 37.0	-1.9		
			sS	06 14 11.0	0.9		
BTO	32.5	311	eP	06 07 45.6	0.2		
			PP	06 08 58.0	-5.6		
			eS	06 12 41.0	0.2		
CD2	35.1	292	P	06 08 07.6	-0.2		
			S	06 13 17.0	-3.3		
LZH	35.7	301	-iP	06 08 14.0	0.7		
			PMZ		1.5	0.080	
			pP	06 09 04.5	-0.3		
			ePP	06 09 47.5	7.1		
			iS	06 13 29.0	-2.2		
			SME	$m_B = 5.4$	4.0	0.57	
KMI	36.0	282	-iP	06 08 16.0	0.4		
			S	06 13 33.0	-1.1		
			SME	$m_B = 5.3$	6.0	0.70	
GTA	39.5	305	-iP	06 08 45.5	0.6		
			PcP	06 10 47.0	0.2		
			ScP	06 14 12.8	3.5		
			ScS	06 18 22.8	1.5		
LSA	46.0	290	-P	06 09 36.8	-0.2		
			S	06 16 01.6	1.0		
WMQ	49.2	309	-iP	06 10 02.0	0.3		
			S	06 16 47.0	1.0		
			SMN		1.5	0.060	
KSH	57.9	303	-P	06 11 07.0	2.4		
			S	06 18 50.0	8.0		
			SME	$m_B = 5.3$	7.0	0.63	
			esS	06 20 29.0	7.3		

1985 7 7

O=07 25 03.0

± 0.04s

LAT=35.94 N

± 0.33km

LONG=106.12 E

± 0.28km

DEPTH= 5 km

± 0.05km

STATIONS USED = 5, STAND DEV = 2.67s

$M_L = 3.3 / 3,$

LZH	1.9	275	Pg	07 25 35.0	-1.0		
			eSg	07 26 00.5	-0.6		
			SMN	$M_L = 4.5$	0.5	4.50	
			SME		0.5	4.00	
XAN	3.0	129	Pg	07 25 55.0	-0.7		
			Sg	07 26 32.0	-4.3		

1985 7 7

O=11 25 14.8 ± 0.43s

LAT=32.18 S ± 4.85km

LONG= 70.21 W ± 3.47km

DEPTH= 44 km ± 2.69km

STATIONS USED = 61, STAND DEV = 2.46s

$M_s = 6.0 / 22,$   $m_B = 5.6 / 4$

KSH	151.8	66	PKP	11 45 05.0	5.7		
			PP	11 48 56.0	8.1		
			eSKKS	11 55 45.0			
			LE	$M_s = 6.3$	17.0	2.90	
WMQ	159.1	50	PKP	11 45 09.7	0.7		
			PKP <sub>2</sub>	11 45 53.0			
			eSKKS	11 56 23.0			
			LZ	$M_s = 6.1$	20.0	2.18	
MDJ	160.2	314	ePKP	11 45 06.0	-4.1		
			pPKP	11 45 18.0	-4.6		
			PKP <sub>2</sub>	11 45 25.0			
			SKS	11 52 08.0	0.4		
			SKKS	11 55 39.0			
			LZ	$M_s = 5.6$	35.0	1.25	
CN2	163.1	318	+PKP	11 45 09.0	-4.0		
			pPKP	11 45 20.0	-5.5		
			PKP <sub>2</sub>	11 46 04.0			
			PKS	11 48 41.0			
			ePP	11 49 54.0	4.2		
			PPMZ	$m_B = 5.7$	6.0	0.40	
			SKS	11 52 09.0	-0.9		
			SKKS	11 56 31.0			
			LZ	$M_s = 6.1$	17.0	2.20	
LSA	163.8	94	PKP	11 45 15.0	0.8		
			PKP <sub>2</sub>	11 45 58.0			
			PP	11 50 01.2	7.0		
			SKKS	11 56 44.5			
			LN	$M_s = 6.0$	19.0	1.71	
SNY	165.4	315	+PKP	11 45 11.0	-4.2		
			PP	11 49 53.0	-9.2		
			SKKS	11 56 38.0			
			LN	$M_s = 6.1$	21.0	1.47	
			LE		22.0	2.23	
QZN	166.9	180	PKP	11 45 17.0	0.6		
			pPKP	11 45 29.0	0.0		
			PP	11 50 07.0	-2.7		
			SKS	11 52 12.0	-0.5		
			SKKS	11 56 54.0			
			LN	$M_s = 6.2$	18.0	1.80	
			LE		20.0	2.00	
DL2	168.3	308	ePKP	11 45 15.0	-2.2		
			ePP	11 50 10.0	-6.5		



			LN	Ms=5.9	18.0	0.89				LE				
			LE		18.0	1.26	GYA	173.7	154	PKP	11 45 20.0	-0.5		
GTA	169.2	46	+PKP	11 45 18.7	0.7					pPKP	11 45 28.0	-5.2		
			pPKP	11 45 29.2	-1.1					PKP <sub>2</sub>	11 46 41.0			
			PKP <sub>2</sub>	11 46 37.0						PP	11 50 38.0	-5.6		
			PP	11 50 25.2	4.2					LE	Ms=6.0	20.0	3.10	
			PPMZ			16.0	1.31	LZH	173.7	50	ePKP	11 45 21.5	0.9	
			SKKS	11 57 11.7						pPKP	11 45 32.0	-1.2		
			LN	Ms=6.2	22.0	2.51				PKP <sub>2</sub>	11 46 59.5			
			LE		21.0	2.45				PP	11 50 49.0	5.2		
QZH	169.4	229	ePKP	11 45 18.0	0.1					PPMZ			18.0	1.06
			SKKS	11 56 34.0						SKKS	11 57 27.0			
			SS	12 11 11.0	-1.4					LE	Ms=5.8	18.0	1.62	
			LN	Ms=6.0	16.0	0.78	TIY	174.1	339	ePKP	11 45 19.6	-1.0		
			LE		16.0	1.39				PKP <sub>2</sub>	11 46 48.0			
SSE	170.2	267	+PKP	11 45 16.0	-2.4					PP	11 50 42.0	-3.6		
			SKKS	11 57 04.0						SKKS	11 57 42.0			
			LN	Ms=5.9	15.0	0.93				LN	Ms=6.0	18.0	2.26	
			LE		16.0	1.10				LE		17.0	0.91	
GZH	170.4	200	PKP	11 45 20.0	1.5				CD2	174.7	102	PKP	11 45 21.0	0.4
			ePP	11 50 30.0	2.7					PKP <sub>2</sub>	11 46 59.0			
			eSS	12 11 16.0	-5.9					PP	11 50 50.0	1.3		
BJI	170.6	328	ePKP	11 45 17.5	-1.2					LE	Ms=6.0	20.0	3.20	
			ePKP <sub>2</sub>	11 46 41.0					WHN	175.8	248	ePKP	11 45 20.5	-0.4
			ePP	11 50 28.0	-0.3					pPKP	11 45 30.0	-3.4		
			PPMZ	m <sub>B</sub> =5.4	8.0	0.30				PP	11 50 48.0	-6.2		
			eSKKS	11 57 04.0						SKKS	11 57 28.0			
			eSS	12 11 16.0	-7.5					LN	Ms=5.5	18.0	1.12	
			LN	Ms=6.1	20.0	2.45	XAN	178.0	21	ePKP	11 45 20.0	-1.3		
			LE		20.0	1.07				pPKP	11 45 31.0	-2.7		
KMI	170.6	137	+PKP	11 45 19.5	0.6					PKP <sub>2</sub>	11 47 10.0			
			ePKP <sub>2</sub>	11 46 36.0						PP	11 51 03.0	-1.3		
			PP	11 50 25.0	-3.4					PPMZ	m <sub>B</sub> =5.9	9.0	1.13	
			LN	Ms=5.9	20.0	1.86				SKKS	11 57 49.0			
BTO	171.6	359	PKP	11 45 18.0	-1.4					LN	Ms=5.7	20.0	2.69	
			PKP <sub>2</sub>	11 46 43.0										
			PP	11 50 30.0	-3.2									
			PPMZ	m <sub>B</sub> =5.5	10.0	0.50								
			SKKS	11 57 15.0										
			LN	Ms=6.1	20.0	2.70								
			LE		20.0	2.00								
NJ2	172.3	271	+PKP	11 45 18.0	-1.7									
			PP	11 50 30.0	-6.8									
			SKKS	11 57 10.0										
			LE	Ms=6.0	19.0	2.20								
TIA	172.7	305	ePKP	11 45 18.7	-1.2									
			pPKP	11 45 29.1	-3.2									
			ePKP <sub>2</sub>	11 46 34.0										
			SKKS	11 57 05.0										
			LN	Ms=6.1	21.0	2.09								

1985 7 7

O=17 35 19.9 ± 0.15s

LAT=17.76 S ± 3.09km

LONG=167.81 E ± 2.60km

DEPTH= 10 km

STATIONS USED = 21, STAND DEV = 2.80s

BJI	74.9	321	eP	17 47 06.0	2.2
KMI	76.3	302	eP	17 47 14.5	2.4
HHC	78.2	320	eP	17 47 24.2	1.8
CD2	78.3	308	c(P)	17 47 29.6	7.0
BTO	79.0	319	eP	17 47 27.4	0.5
GTA	85.1	314	P	17 47 54.9	-3.7
WMQ	95.2	314	eP	17 48 47.0	0.9

1985 7 7  
 O=18 10 34.6 ± 0.13s  
 LAT=34.34 N ± 1.52km  
 LONG=137.21 E ± 0.56km  
 DEPTH=387 km ± 1.00km  
 STATIONS USED = 15, STAND DEV = 1.28s

MDJ	11.8	332	-iP	18 13 15.7	0.6
TIA	16.5	282	eP	18 14 04.3	-1.5
BJI	17.7	295	eP	18 14 16.5	-1.2
WHN	19.7	265	eP	18 14 37.0	-0.2
XAN	23.4	277	eP	18 15 12.0	-0.5
CD2	28.3	272	eP	18 15 55.8	-0.9

1985 7 7  
 O=21 27 22.5 ± 0.13s  
 LAT= 3.20 S ± 1.64km  
 LONG=137.93 E ± 1.73km  
 DEPTH= 44 km ± 0.49km  
 STATIONS USED = 43, STAND DEV = 1.50s  
 Ms=4.7 / 5,

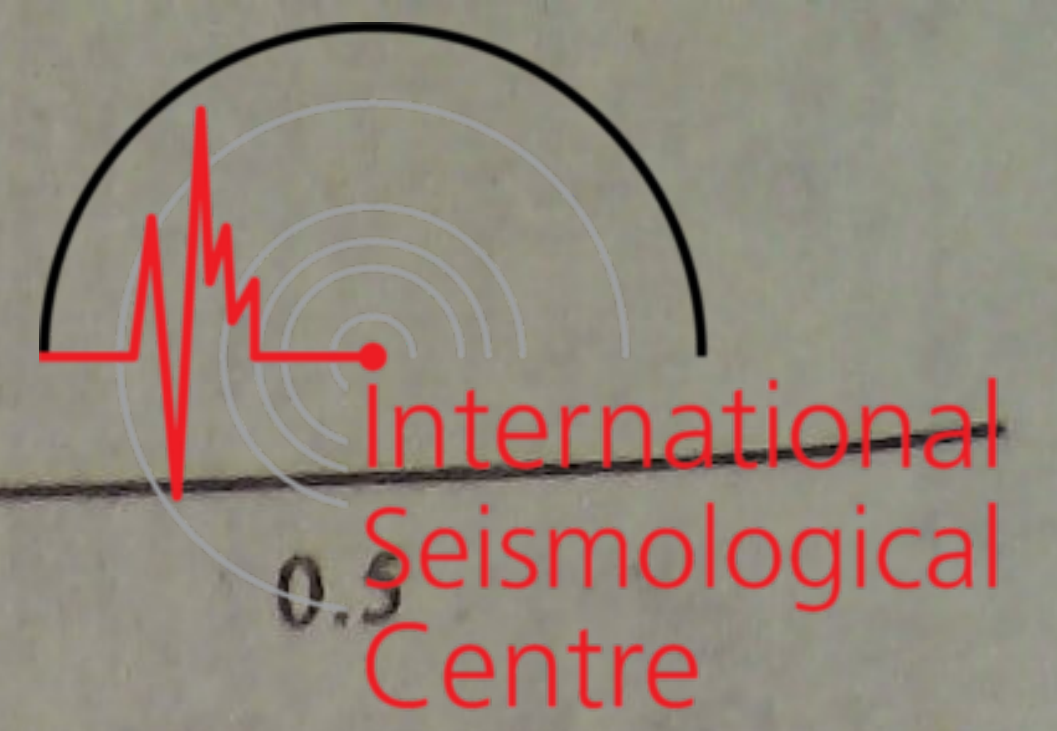
SSE	37.7	336	+P	21 34 35.5	0.0		
			PMZ			1.0	0.040
			sP	21 34 49.7	-2.0		
			LZ		Ms=4.8	20.0	0.87
NJ2	39.5	334	+P	21 34 51.6	1.1		
			sP	21 35 05.7	-1.2		
			LZ		Ms=4.7	20.0	0.65
WHN	40.4	328	eP	21 35 00.5	2.1		
			sP	21 35 13.8	-0.9		
TIA	43.8	335	eP	21 35 25.4	-0.5		
			sP	21 35 39.6	-2.6		
			LN		Ms=4.7	22.0	0.63
XAN	46.0	326	eP	21 35 44.0	-0.2		
SNY	46.7	345	eP	21 35 48.9	-0.2		
			S	21 42 34.0	0.6		
			LN		Ms=4.6	25.0	0.39
			LE			25.0	0.39
CD2	47.0	319	eP	21 35 52.0	0.1		
TIY	47.1	332	eP	21 35 51.8	-0.6		
BJI	47.4	337	eP	21 35 54.0	-1.0		
CN2	48.1	348	-P	21 35 57.5	-2.9		
			sP	21 36 11.0	-5.7		
			eS	21 42 50.0	-4.9		
			LE		Ms=4.7	20.0	0.50
MDJ	48.2	352	eP	21 36 00.6	-0.3		
			sP	21 36 15.2	-2.0		
HHC	50.0	334	eP	21 36 15.0	-0.2		
			sP	21 36 29.8	-1.5		
LZH	50.4	324	eP	21 36 21.5	3.3		
BTO	50.5	332	eP	21 36 18.4	-0.6		

GTA	55.0	324	eP	21 36 52.1	-0.3		
WMQ	64.9	322	eP	21 38 03.8	3.5		

1985 7 8  
 O=01 31 49.9 ± 0.06s  
 LAT=36.51 N ± 0.97km  
 LONG= 70.06 E ± 1.04km  
 DEPTH=219 km ± 0.23km  
 STATIONS USED = 78, STAND DEV = 0.89s  
 m<sub>B</sub>=5.2 / 3

KSH	5.5	56	-iP	01 33 15.0	2.6		
WMQ	15.3	56	-iP	01 35 16.8	0.2		
			sP	01 36 14.0	1.7		
			S	01 38 02.3	2.6		
			SME		m <sub>B</sub> =5.6	4.0	1.61
LSA	18.9	105	P	01 35 56.1	-0.7		
			S	01 39 20.3	5.8		
			SME		m <sub>B</sub> =5.2	4.0	0.54
GTA	23.6	74	+iP	01 36 44.0	1.5		
			pP	01 37 27.4	3.5		
			sP	01 37 54.0	4.4		
			SME		m <sub>B</sub> =4.8	10.0	0.55
LZH	27.2	81	+iP	01 37 16.0	0.6		
CD2	28.5	91	P	01 37 27.4	0.1		
			PMZ			1.2	0.17
			S	01 41 56.0	-0.9		
BTO	31.3	70	eP	01 37 52.4	0.1		
			eS	01 42 45.0	2.5		
XAN	31.7	83	+P	01 37 54.0	-1.3		
HHC	32.5	69	+P	01 38 02.7	0.5		
GYA	32.6	97	-P	01 38 03.0	-0.4		
			PcP	01 40 42.4	-1.3		
			S	01 43 02.0	0.6		
TIY	33.6	75	eP	01 38 11.6	-0.2		
			PMZ			0.7	0.050
			sP	01 39 23.0	1.7		
			S	01 43 21.0	4.2		
BJI	36.1	70	eP	01 38 32.5	0.0		
			PcP	01 40 52.5	-1.1		
			PcS	01 44 40.0	0.3		
WHN	37.1	86	eP	01 38 40.5	-1.1		
TIA	37.6	76	+P	01 38 45.4	-0.1		
QZN	39.0	106	eP	01 38 56.0	-0.7		
GZH	39.6	97	+iP	01 39 02.0	0.4		
NJ2	40.2	82	+P	01 39 07.0	-0.1		
DL2	40.4	70	+iP	01 39 08.5	-0.2		
SNY	41.3	66	+iP	01 39 15.2	-0.5		
			PcP	01 41 08.7	-1.3		
CN2	42.3	62	+P	01 39 23.0	-0.8		
			sP	01 40 38.0	3.6		

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SSE	42.4	82	-iP	01 39 25.5	0.5		
			PMZ			1.2	0.13
			sP	01 40 39.0	3.4		
			PP	01 41 06.0	-2.5		
MDJ	45.1	60	eP	01 39 45.2	-0.9		
			sP	01 40 58.0	1.0		

1985 7 8

O=02 41 06.5 ± 0.08s  
 LAT=33.11 N ± 2.48km  
 LONG=141.62 E ± 3.00km  
 DEPTH=121 km ± 1.84km  
 STATIONS USED = 18, STAND DEV= 1.89s

MDJ	14.8	324	eP	02 44 34.0	3.0		
CN2	16.5	315	+P	02 44 51.5	-1.1		
BTO	26.3	296	eP	02 46 33.0	0.3		
			eS	02 50 54.0	-0.6		
GTA	34.1	293	P	02 47 40.4	-1.2		
WMQ	42.9	301	eP	02 48 56.2	1.3		

1985 7 8

O=03 35 00.8 ± 0.14s  
 LAT= 6.05 N ± 0.96km  
 LONG=125.28 E ± 0.82km  
 DEPTH=121 km ± 1.32km  
 STATIONS USED = 40, STAND DEV= 1.08s

QZN	19.8	312	eP	03 39 24.0	-0.2		
GZH	20.5	327	-P	03 39 32.5	1.5		
GYA	27.0	321	+P	03 40 34.4	1.0		
KMI	28.7	314	eP	03 40 50.0	0.5		
XAN	31.7	334	+P	03 41 14.6	-1.0		
CD2	31.9	323	P	03 41 17.6	0.1		
			PMZ			1.2	0.13
BJI	34.8	348	eP	03 41 41.0	-1.2		
SNY	35.7	358	+P	03 41 48.4	-0.9		
LZH	35.8	330	eP	03 41 52.0	1.4		
CN2	37.6	0	eP	03 42 04.0	-1.7		
MDJ	38.6	5	+P	03 42 13.5	-0.5		
			pP	03 42 42.0	1.1		
GTA	40.4	329	+iP	03 42 29.5	0.7		
WMQ	50.0	325	-P	03 43 45.4	0.0		

1985 7 8

O=10 33 21.6 ± 0.12s  
 LAT=19.56 N ± 0.97km  
 LONG=108.71 W ± 1.86km  
 DEPTH= 19 km ± 0.82km  
 STATIONS USED = 15, STAND DEV= 3.26s

MDJ	96.9	322	eP	10 46 53.0	-1.1		
CN2	99.8	323	eP	10 47 07.5	0.5		

KSH	121.1	356	ePKP	10 52 15.0	0.5		
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1985 7 8

O=13 38 32.7 ± 0.08s  
 LAT=10.97 S ± 1.13km  
 LONG=163.63 E ± 1.61km  
 DEPTH= 42 km ± 0.50km  
 STATIONS USED = 22, STAND DEV= 1.40s

CN2	64.6	330	-P	13 49 08.2	-0.6		
XAN	68.5	313	eP	13 49 32.6	-1.1		
KMI	69.3	302	-P	13 49 39.0	0.3		
CD2	70.9	308	eP	13 49 47.2	-1.0		
LZH	73.2	313	eP	13 50 03.5	1.6		
GTA	77.5	315	P	13 50 27.2	0.5		

1985 7 8

O=13 47 41.7 ± 0.10s  
 LAT= 0.71 S ± 4.89km  
 LONG= 98.45 E ± 3.77km  
 DEPTH= 57 km ± 2.09km  
 STATIONS USED = 30, STAND DEV= 1.60s

KMI	26.0	9	+P	13 53 12.0	0.2		
GYA	28.2	16	P	13 53 30.6	-0.6		
LSA	31.0	348	P	13 53 55.2	-2.0		
CD2	31.8	9	eP	13 54 01.4	-2.5		
XAN	35.9	15	eP	13 54 37.5	-1.6		
LZH	37.0	7	-P	13 54 48.0	0.2		
GTA	39.9	2	P	13 55 12.0	-0.7		
TIY	40.4	17	eP	13 55 15.6	-0.4		
BTO	42.4	13	eP	13 55 33.4	0.2		
BJI	43.7	20	eP	13 55 42.0	-1.0		
WMQ	45.4	349	eP	13 55 57.0	0.2		
CN2	50.5	25	eP	13 56 34.0	-2.3		
MDJ	52.9	28	eP	13 56 54.5	-0.5		

1985 7 8

O=13 49 04.7 ± 0.10s  
 LAT=11.03 S ± 1.23km  
 LONG=163.42 E ± 1.30km  
 DEPTH= 54 km ± 0.91km  
 STATIONS USED = 31, STAND DEV= 1.25s

GZH	59.6	305	eP	13 59 05.0	-0.8		
WHN	62.7	313	eP	13 59 27.0	0.2		
MDJ	63.3	334	eP	13 59 31.0	0.2		
CN2	64.6	330	+P	13 59 38.0	-1.2		
XAN	68.4	313	+P	14 00 03.8	0.1		
KMI	69.2	302	eP	14 00 09.5	1.1		
CD2	70.8	308	P	14 00 19.0	0.9		
LZH	73.1	313	eP	14 00 33.5	1.7		
GTA	77.4	315	P	14 00 58.4	1.7		

WMQ 87.5 315 eP 14 01 49.2 0.6

1985 7 8

O=17 02 36.0 ± 0.12s

LAT=36.09 N ± 1.71km

LONG=53.49 E ± 1.64km

DEPTH=35 km ± 0.40km

STATIONS USED = 7, STAND DEV = 3.77s

KSH 18.1 73 eP 17 06 51.0 4.3

1985 7 8

O=18 26 41.2 ± 0.12s

LAT=5.20 N ± 1.58km

LONG=125.89 E ± 1.79km

DEPTH=77 km ± 0.18km

STATIONS USED = 15, STAND DEV = 1.56s

TIA 31.9 347 eP 18 33 00.8 -1.1

XAN 32.7 333 eP 18 33 08.0 -1.2

CD2 33.0 323 P 18 33 12.4 1.2

BJI 35.8 347 eP 18 33 33.5 -1.7

SNY 36.5 357 -iP 18 33 41.1 -0.4

LZH 36.8 330 eP 18 33 45.5 1.3

CN2 38.4 359 eP 18 33 56.0 -1.5

GTA 41.4 329 P 18 34 22.7 0.4

1985 7 8

O=18 48 29.7 ± 0.11s

LAT=5.31 N ± 1.91km

LONG=126.60 E ± 2.07km

DEPTH=70 km ± 0.35km

STATIONS USED = 40, STAND DEV = 1.59s

$m_B = 5.2 / 1$

QZN 21.3 311 P 18 53 17.4 4.9

GZH 21.8 325 eP 18 53 18.0 0.2

KMI 30.2 313 eP 18 54 36.0 -0.2

TIA 32.0 345 eP 18 54 50.4 -1.2

XAN 33.0 332 eP 18 54 58.0 -2.3

TIY 34.7 340 eP 18 55 15.6 0.0

BJI 35.8 346 eP 18 55 24.0 -0.8

SNY 36.5 356 +iP 18 55 31.7 1.6

S 19 01 10.5 4.9

SME  $m_B = 5.2$  7.0 0.32

LZH 37.1 329 eP 18 55 36.0 0.4

HHC 37.9 341 eP 18 55 42.0 0.0

BTO 38.2 339 eP 18 55 44.4 -0.1

CN2 38.3 359 eP 18 55 46.5 0.6

MDJ 39.2 3 eP 18 55 53.5 0.2

LSA 41.3 310 P 18 56 10.6 -0.3

GTA 41.7 328 P 18 56 13.1 -0.6

WMQ 51.4 324 eP 18 57 27.8 -2.1

1985 7 8

O=19 37 35.5 ± 0.14s

LAT=59.94 S ± 2.92km

LONG=150.59 E ± 4.00km

DEPTH=10 km

STATIONS USED = 25, STAND DEV = 2.68s

$M_s = 6.1 / 11,$

$m_B = 6.4 / 3$

QZN 85.4 322 P 19 50 15.5 0.3

pP 19 50 13.5 -7.1

eSKS 20 00 37.0 1.1

S 20 00 45.0 1.5

SMN  $m_B = 6.5$  12.0 3.60

SME 11.0 3.40

SS 20 06 18.5 -2.8

LN  $M_s = 6.1$  19.0 3.30

LE 22.0 4.60

QZH 88.5 331 +P 19 50 32.0 1.3

S 20 01 10.0 -3.8

SMN  $m_B = 6.4$  7.0 1.18

SME 7.0 1.94

SS 20 07 10.0 2.5

LN  $M_s = 6.1$  23.0 3.94

LE 20.0 2.81

GYA 93.3 321 P 19 50 56.0 3.0

pP 19 51 02.0 3.7

PP 19 54 32.0 -6.4

SKS 20 01 27.0 2.6

S 20 02 00.0 3.6

SMN  $m_B = 6.2$  10.0 1.70

SS 20 08 20.0 3.6

LN  $M_s = 6.3$  20.0 5.50

LE 20.0 2.80

KMI 93.4 318 +P 19 50 53.5 0.2

pP 19 50 58.5 0.1

SKS 20 01 27.0 2.3

S 20 02 04.0 7.2

LN  $M_s = 6.0$  12.0 2.06

SSE 93.9 335 eP 19 50 52.5 -3.0

SKS 20 01 30.0 2.4

S 20 02 00.0 -1.4

sS 20 02 08.0 -4.2

SS 20 08 24.0 -0.3

LZ  $M_s = 6.1$  19.0 4.11

WHN 95.0 329 eP 19 51 01.0 0.6

sP 19 51 17.0 8.6

LE  $M_s = 5.8$  16.0 1.78

CD2 98.4 321 eP 19 51 15.0 -0.9

SKS 20 01 50.0 -2.0

S 20 02 38.0 -1.4



			SS	20 09 24.0	-3.1		
			LN	Ms=6.3	25.0	8.16	
TIA	99.7	333	eP	19 51 21.1	-0.9		
			eSKS	20 01 54.0	-4.1		
			eS	20 02 43.5	-8.9		
			SS	20 09 36.0	-9.7		
			LN	Ms=6.2	27.0	5.59	
			LE		23.0	3.73	
XAN	99.7	326	eP	19 51 20.0	-2.2		
			SKS	20 01 55.0	-3.3		
			LN	Ms=5.9	16.0	1.87	
TIY	102.3	330	eP	19 51 35.4	1.8		
BJI	103.6	333	eP	19 51 38.5	-0.8		
			PP	19 55 52.0	-4.8		
			SKS	20 02 20.0	3.3		
			eS	20 03 24.0	-0.7		
			SME		10.0	0.33	
			SS	20 10 36.0	-3.3		
			LN	Ms=6.2	20.0	3.95	
			LE		18.0	1.00	
GTA	107.4	321	Pdif	19 52 00.0	3.7		
KSH	116.3	304	ePKP	19 56 27.0	6.4		
			LE	Ms=6.2	16.0	2.90	

1985 7 8

O=20 03 32.0 ± 0.18s  
 LAT= 5.29 S ± 2.69km  
 LONG=153.06 E ± 4.54km  
 DEPTH= 27 km ± 0.82km  
 STATIONS USED = 46, STAND DEV= 2.64s  
 Ms=4.8/ 1,

TIA	53.3	324	eP	20 12 50.1	-0.9		
			LN	Ms=4.8	12.0	0.25	
			LE		12.0	0.23	
MDJ	54.0	339	eP	20 12 56.2	0.0		
CN2	54.8	336	-P	20 13 01.8	-0.9		
BJI	56.4	326	eP	20 13 12.5	-1.7		
XAN	57.1	316	+P	20 13 18.4	-1.0		
KMI	57.5	304	eP	20 13 21.5	-0.3		
CD2	59.2	311	eP	20 13 32.7	-1.3		
HHC	59.6	324	eP	20 13 36.5	0.0		
BTO	60.3	323	eP	20 13 41.2	-0.4		
LZH	61.8	316	eP	20 13 52.5	1.2		
GTA	66.2	317	+P	20 14 20.8	0.6		
LSA	68.7	305	-P	20 14 36.7	0.2		
WMQ	76.3	317	eP	20 15 22.8	1.9		
KSH	83.4	311	eP	20 15 58.0	-1.3		
			eS	20 26 11.0	-7.2		

1985 7 9

			O=02 29 19.9	± 0.05s		
			LAT=44.05 N	± 0.56km		
			LONG= 87.07 E	± 0.55km		
			DEPTH= 14 km	± 0.02km		
			STATIONS USED = 7,	STAND DEV= 1.48s		
			ML=3.6/ 5,			
GTA	10.6	112	P	02 31 54.1	-0.7	
			SMN		0.9	0.010
			SME		0.9	0.010

1985 7 9

O=02 44 27.4 ± 0.04s  
 LAT=44.03 N ± 0.45km  
 LONG= 87.08 E ± 0.30km  
 DEPTH= 23 km ± 0.19km  
 STATIONS USED = 5, STAND DEV= 2.60s  
 ML=3.4/ 4,

WMQ	0.5	115	Pg	02 44 35.3	-1.6	
			Sg	02 44 44.0	-0.1	
			SME	ML=3.5	0.5	2.48

1985 7 9

O=03 31 11.6 ± 0.11s  
 LAT=20.11 S ± 1.31km  
 LONG=168.87 E ± 1.50km  
 DEPTH= 35 km ± 1.07km  
 STATIONS USED = 11, STAND DEV= 1.97s

CN2	75.0	329	eP	03 42 50.2	-1.9	
BJI	77.4	321	eP	03 43 05.5	0.0	

1985 7 9

O=04 28 09.8 ± 0.06s  
 LAT=29.55 N ± 0.61km  
 LONG=105.00 E ± 0.55km  
 DEPTH= 17 km ± 0.09km  
 STATIONS USED = 8, STAND DEV= 1.65s  
 ML=3.3/ 5,

CD2	1.7	322	+iPg	04 28 40.4	-0.2	
			Sg	04 29 05.6	1.4	
			SMN	ML=3.5	0.8	0.62
			SME		0.8	0.34
GYA	3.4	154	Pg	04 29 11.8	1.5	
			Sg	04 29 54.0	-2.7	
			SMN	ML=3.2	1.0	0.080
			SME		1.0	0.070
KMI	4.8	205	ePg	04 29 35.5	-0.2	
XAN	5.6	36	ePn	04 29 34.0	1.3	
			Pg	04 29 53.0	4.6	
			Sn	04 30 38.6	0.0	
			Sg	04 31 07.0	2.2	

1985 7 9  
 O=06 56 38.1 ± 0.08s  
 LAT=43.93 N ± 1.12km  
 LONG= 87.14 E ± 0.70km  
 DEPTH= 11 km ± 0.14km  
 STATIONS USED = 11, STAND DEV = 2.02s

$M_L = 3.9 / 10,$   
 WMQ 0.4 106 -iPg 06 56 48.2 2.4  
                   Sg 06 56 56.6 5.1  
                   SMN  $M_L = 4.1$  0.5 11.6  
 GTA 10.5 111 P 06 59 09.4 -2.6  
                   LG<sub>1</sub> 07 02 11.1 3.2  
                   SMN 1.0 0.010  
                   SME 1.0 0.010

1985 7 9  
 O=11 10 28.0 ± 0.07s  
 LAT=27.76 S ± 4.61km  
 LONG=176.42 W ± 2.02km  
 DEPTH= 22 km ± 1.04km  
 STATIONS USED = 11, STAND DEV = 1.03s

SNY 88.7 320 -iP 11 23 22.4 0.6  
 CN2 88.9 322 eP 11 23 22.0 -1.0  
 BJI 92.0 315 eP 11 23 38.0 0.4  
 CD2 95.9 302 eP 11 23 56.0 0.8

1985 7 9  
 O=13 26 56.8 ± 0.15s  
 LAT= 8.56 S ± 2.13km  
 LONG=110.27 E ± 2.80km  
 DEPTH= 57 km ± 0.16km  
 STATIONS USED = 73, STAND DEV = 1.52s  
 $M_s = 5.1 / 23,$   $m_B = 5.6 / 12$

QZN 27.4 359 eP 13 32 39.0 -0.5  
                   pP 13 32 57.5 4.7  
                   PP 13 33 29.5 1.9  
                   S 13 37 17.0 4.2  
                   SS 13 38 39.0 6.0  
                   LN  $M_s = 5.0$  14.0 1.60  
                   LE 12.0 0.80  
 GZH 31.6 5 eP 13 33 14.0 -2.7  
                   eS 13 38 18.0 -1.9  
                   LN  $M_s = 4.9$  14.0 0.78  
                   LE 16.0 1.09  
 KMI 34.3 348 +P 13 33 41.0 0.9  
                   pP 13 33 57.0 3.4  
                   S 13 39 06.0 5.3  
                   SMN  $m_B = 5.6$  4.0 0.50  
                   LN  $M_s = 5.5$  14.0 4.30

QZH 34.3 13 eP 13 33 37.0 -2.9  
                   S 13 39 03.0 2.3  
                   SME  $m_B = 5.1$  10.0 0.42  
                   sS 13 39 33.0 7.7  
                   LN  $M_s = 4.7$  19.0 0.79  
 GYA 35.0 354 P 13 33 47.0 0.9  
                   PcP 13 36 18.8 2.2  
                   S 13 39 17.0 5.3  
                   LN  $M_s = 5.2$  15.0 1.40  
                   LE 15.0 1.30  
 WHN 39.1 6 eP 13 34 22.0 1.7  
                   eS 13 40 17.0 1.9  
                   LE  $M_s = 5.0$  12.0 0.78  
 CD2 39.7 351 eP 13 34 26.8 0.9  
                   pP 13 34 45.5 5.8  
                   sP 13 34 53.0 7.1  
                   PcP 13 36 33.4 2.3  
                   S 13 40 26.0 1.9  
                   LE  $M_s = 5.3$  12.0 1.62  
 SSE 40.8 14 +P 13 34 36.0 1.4  
                   PMZ 1.0 0.030  
                   pP 13 34 52.0 3.6  
                   PcP 13 36 35.0 0.5  
                   S 13 40 42.0 2.1  
                   SME  $m_B = 5.5$  6.0 0.47  
                   ScS 13 44 32.0 1.0  
                   LE  $M_s = 4.9$  11.0 0.53  
 NJ2 41.2 11 +P 13 34 39.0 1.0  
                   iPcP 13 36 37.5 1.7  
                   eS 13 40 48.0 1.1  
                   isS 13 41 14.0 3.1  
                   iScS 13 44 39.0 5.6  
                   LZ  $M_s = 5.1$  20.0 1.60  
 LSA 42.3 335 +P 13 34 46.0 -1.1  
                   sP 13 35 13.5 6.8  
                   eS 13 40 54.0 -9.4  
                   LN  $M_s = 5.0$  13.0 0.78  
 XAN 42.4 358 eP 13 34 46.8 -0.9  
                   PcP 13 36 40.0 0.3  
                   S 13 41 04.0 0.7  
                   ScS 13 44 40.0 -0.5  
                   LN  $M_s = 5.3$  16.0 1.87  
 LZH 44.8 353 +iP 13 35 09.0 1.5  
                   PMZ 1.5 0.11  
                   sP 13 35 36.5 9.1  
                   PcP 13 36 51.0 3.1  
                   PcS 13 40 44.0 3.8  
                   iS 13 41 42.5 2.5  
                   ScS 13 44 59.0 3.4  
                   LE  $M_s = 5.1$  21.0 1.56



**LONG = 102.85 E** ± 0.78km  
**DEPTH = 10 km** ± 0.30km  
**STATIONS USED = 12, STAND DEV = 2.79s**  
 $M_L = 3.3 / 5,$   
 KMI 0.7 188 -iPg 16 04 05.0 -0.7  
           Sg 16 04 15.7 0.6  
           SMN  $M_L = 4.2$  1.0 6.36  
           SME 1.0 12.0  
 GYA 3.5 79 Pn 16 04 50.6 2.8  
 CD2 5.1 9 ePn 16 05 10.8 0.5  
 XAN 9.7 31 eP 16 06 14.4 -2.0

**1985 7 9**  
**O = 19 42 54.4** ± 0.11s  
**LAT = 43.34 N** ± 1.80km  
**LONG = 89.64 E** ± 0.99km  
**DEPTH = 10 km**  
**STATIONS USED = 8, STAND DEV = 3.75s**  
 $M_L = 3.7 / 8,$   
 WMQ 1.5 289 +Pg 19 43 19.0 -2.0  
           Sg 19 43 38.2 -3.1  
           SMN  $M_L = 3.1$  0.4 0.26  
 GTA 8.6 114 eP 19 45 00.0 -2.2  
           LG<sub>1</sub> 19 47 18.1 -6.2  
           SMN  $M_L = 3.8$  1.0 0.020  
           SME 1.0 0.020

**1985 7 9**  
**O = 21 54 28.5** ± 0.14s  
**LAT = 17.25 S** ± 3.19km  
**LONG = 72.76 W** ± 5.04km  
**DEPTH = 29 km** ± 1.11km  
**STATIONS USED = 15, STAND DEV = 2.45s**  
 MDJ 146.9 330 ePKP 22 14 07.5 0.2  
 GTA 157.0 15 ePKP 22 14 23.5 1.2

**1985 7 10**  
**O = 05 06 35.2** ± 0.29s  
**LAT = 38.22 S** ± 5.95km  
**LONG = 91.64 W** ± 4.51km  
**DEPTH = 10 km** ± 1.44km  
**STATIONS USED = 27, STAND DEV = 3.80s**  
 $M_s = 5.8 / 3,$   
 MDJ 148.7 295 ePKP 05 26 19.0 -1.0  
 CN2 151.6 293 ePKP 05 26 25.4 0.8  
 SNY 152.9 289 ePKP<sub>2</sub> 05 26 40.6 -1.3  
           LN  $M_s = 6.0$  28.0 0.98  
           LE 30.0 2.34  
 GYA 160.6 238 PKP<sub>2</sub> 05 27 14.0 -1.5  
 KMI 162.1 227 +PKP 05 26 40.5 2.6

PP 05 31 16.5 6.3  
 LN  $M_s = 5.8$  20.0 1.30  
 XAN 162.9 262 cPKP 05 26 39.0 0.5  
 CD2 165.4 245 cPKP 05 26 47.6 6.6  
 LZH 167.5 265 cPKP 05 26 39.0 -3.7  
           cSKKS 05 35 34.0  
           LE  $M_s = 5.7$  26.0 1.31

**1985 7 10**  
**O = 05 50 20.5** ± 0.67s  
**LAT = 17.49 S** ± 4.30km  
**LONG = 72.71 W** ± 7.90km  
**DEPTH = 19 km** ± 4.36km  
**STATIONS USED = 19, STAND DEV = 3.82s**  
 MDJ 147.1 330 cPKP 06 10 03.2 2.0  
 WMQ 149.0 28 cPKP 06 10 07.2 2.9

**1985 7 10**  
**O = 06 10 27.7** ± 0.04s  
**LAT = 42.31 N** ± 0.60km  
**LONG = 82.74 E** ± 0.35km  
**DEPTH = 14 km** ± 0.08km  
**STATIONS USED = 5, STAND DEV = 2.75s**  
 $M_L = 3.7 / 5,$   
 WMQ 3.9 66 ePg 06 11 36.5 -0.8  
           Sg 06 12 24.6 -6.3  
           SMN  $M_L = 3.7$  0.7 0.17  
           SME 1.2 0.20

**1985 7 10**  
**O = 12 08 45.8** ± 0.17s  
**LAT = 2.62 S** ± 2.60km  
**LONG = 138.75 E** ± 3.94km  
**DEPTH = 32 km** ± 0.16km  
**STATIONS USED = 56, STAND DEV = 2.30s**  
 $M_s = 4.7 / 4,$   
 QZN 35.7 308 P 12 15 42.4 -0.8  
           eS 12 21 11.0 -6.0  
 SSE 37.5 335 eP 12 15 58.5 0.0  
 NJ2 39.3 333 eP 12 16 14.6 0.7  
           S 12 22 14.0 2.0  
           LZ  $M_s = 4.8$  18.0 0.80  
 GYA 42.4 315 P 12 16 39.6 0.1  
 KMI 44.5 310 +P 12 16 56.5 -0.1  
 XAN 46.0 325 eP 12 17 07.7 -1.0  
           S 12 23 52.0 1.7  
 SNY 46.3 344 eP 12 17 09.5 -1.6  
           S 12 23 56.0 1.3  
           LN  $M_s = 4.8$  18.0 0.59  
 TIY 47.0 331 eP 12 17 21.9 5.8





			S	17 09 41.0	-1.6				eS	17 14 24.0	-2.1		
			LN	Ms=4.2	12.0	0.35			LE	Ms=4.6	17.0	1.40	
			LE		12.0	1.78	MDJ	21.3	16	eP	17 11 05.6	-1.2	
NJ2	8.1	342	-iP	17 08 16.8	-2.6		GTA	23.9	314	+P	17 11 33.0	0.3	
			iS	17 09 47.3	-4.1				LE	Ms=4.8	14.0	1.35	
			LE		3.5	2.30	LSA	27.7	288	P	17 12 08.0	-1.4	
WHN	9.0	315	-P	17 08 28.7	-3.3		WMQ	33.9	313	eP	17 13 03.0	-0.8	
			sP	17 08 35.5	-6.5								
			S	17 10 06.0	-7.9								
			LE	Ms=4.6	12.0	3.48							
QZN	12.2	247	eP	17 09 21.0	5.3								
			eS	17 11 38.0	5.6								
			LN	Ms=4.2	15.0	1.20							
TIA	12.5	343	eP	17 09 17.0	-2.6								
			eS	17 11 35.0	-4.5		CN2	66.3	329	eP	19 11 40.0	-1.0	
			LG <sub>2</sub>	17 13 12.0	-0.9		CD2	73.3	307	P	19 12 24.9	1.0	
			LN	Ms=4.4	14.5	1.56							
			LE		14.5	0.77							
GYA	13.8	282	P	17 09 35.4	-1.2								
			S	17 12 06.4	-3.2								
			LE	Ms=4.7	9.0	1.70							
XAN	14.8	314	eP	17 09 47.0	-2.7								
			LN	Ms=5.2	5.0	2.23							
			LE		5.0	2.07							
TIY	15.6	331	eP	17 09 58.2	-1.3								
BJI	16.4	345	eP	17 10 11.5	1.5								
			eLG <sub>2</sub>	17 15 17.0	-3.2								
			LN	Ms=4.3	12.0	0.68							
CD2	17.2	296	eP	17 10 20.2	-0.6		WMQ	10.3	56	eP	19 41 50.5	-0.9	
			eLG <sub>2</sub>	17 15 40.0	-8.4								
			LE	Ms=5.1	5.0	1.73	GTA	18.6	80	eP	19 43 41.3	1.7	
KMI	17.3	277	+P	17 10 20.5	-1.1								
			eS	17 13 28.0	-4.1								
			LE	Ms=5.0	12.0	3.29							
SNY	17.6	5	eP	17 10 26.5	1.8								
			S	17 13 43.0	6.0								
			LE	Ms=4.5	18.0	1.47							
HHC	18.6	335	-P	17 10 40.0	2.4								
			S	17 13 58.0	-2.2								
			LN	Ms=4.4	12.0	0.83	CD2	42.3	338	eP	03 22 02.4	0.0	
BTO	19.0	332	eP	17 10 45.0	2.3		XAN	43.6	345	eP	03 22 12.0	-0.6	
			sP	17 10 52.0	-0.9		GTA	51.3	339	P	03 23 12.2	-0.5	
			eS	17 14 13.0	2.4								
			LN	Ms=4.8	12.0	1.70							
			LE		12.0	0.90							
LZH	19.4	311	eP	17 10 48.0	0.8								
			LG <sub>2</sub>	17 16 56.0	-3.4								
			LE	Ms=4.7	12.0	1.28							
CN2	19.7	8	eP	17 10 49.4	-1.0		CN2	11.0	292	eP	04 41 50.0	1.3	
			pP	17 10 52.0	-5.1		DL2	13.9	269	eP	04 42 30.2	2.3	

1985 7 10

O=19 00 53.7 ± 0.03s

LAT=11.26 S ± 0.43km

LONG=166.41 E ± 0.58km

DEPTH=36 km ± 0.19km

STATIONS USED = 7, STAND DEV = 0.93s

CN2 66.3 329 eP 19 11 40.0 -1.0

CD2 73.3 307 P 19 12 24.9 1.0

1985 7 10,

O=19 39 19.9 ± 0.12s

LAT=38.55 N ± 0.88km

LONG=75.87 E ± 0.43km

DEPTH=14 km ± 1.07km

STATIONS USED = 7, STAND DEV = 3.02s

M<sub>L</sub>=3.8/3,

KSH 0.9 5 -iPg 19 39 36.0 -0.3

Sg 19 39 55.0 6.3

SMN M<sub>L</sub>=4.2 0.9 6.83

SME 0.8 4.83

WMQ 10.3 56 eP 19 41 50.5 -0.9

SMN 2.0 0.030

GTA 18.6 80 eP 19 43 41.3 1.7

1985 7 11

O=03 14 27.4 ± 0.04s

LAT=8.19 S ± 0.41km

LONG=121.09 E ± 0.47km

DEPTH=210 km ± 0.35km

STATIONS USED = 14, STAND DEV = 0.73s

CD2 42.3 338 eP 03 22 02.4 0.0

XAN 43.6 345 eP 03 22 12.0 -0.6

GTA 51.3 339 P 03 23 12.2 -0.5

1985 7 11

O=04 39 10.5 ± 0.10s

LAT=40.55 N ± 1.52km

LONG=139.61 E ± 1.30km

DEPTH=38 km ± 0.36km

STATIONS USED = 18, STAND DEV = 1.74s

CN2 11.0 292 eP 04 41 50.0 1.3

DL2 13.9 269 eP 04 42 30.2 2.3

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TIA 18.1 263 eP 04 43 21.5 -0.1  
 GTA 30.3 281 eP 04 45 17.8 -3.6

1985 7 11

O=06 38 23.7 ± 0.09s

LAT=35.77 N ± 0.71km

LONG=117.80 E ± 0.89km

DEPTH= 12 km ± 0.24km

STATIONS USED = 15, STAND DEV = 2.34s

$M_L = 3.6 / 12,$

TIA 0.7 309 +iPg 06 38 35.0 -1.3

iSg 06 38 43.4 -2.6

SMN  $M_L = 3.8$  0.6 3.80

SME 0.6 2.55

NJ2 3.8 166 ePn 06 39 25.8 3.3

ePg 06 39 32.2 1.3

eSg 06 40 21.2 -1.7

SME  $M_L = 3.9$  1.0 0.30

BJI 4.5 344 ePg 06 39 42.5 0.1

eSn 06 40 17.5 -7.8

eSg 06 40 39.0 -4.3

SMN  $M_L = 4.1$  0.5 0.30

SME 0.5 0.28

SSE 5.4 148 +Pn 06 39 47.6 2.5

Sg 06 41 19.9 5.5

WHN 6.0 210 ePn 06 39 51.0 -1.1

Pg 06 40 18.2 9.4

Sg 06 41 27.8 -2.5

SMN  $M_L = 3.5$  0.6 0.030

SME 0.6 0.040

XAN 7.5 259 Pg 06 40 39.0 2.8

Sg 06 42 11.0 -7.5

1985 7 11

O=11 23 40.4 ± 0.10s

LAT= 4.59 S ± 1.23km

LONG=152.86 E ± 1.21km

DEPTH= 63 km ± 0.97km

STATIONS USED = 13, STAND DEV = 2.26s

CN2 54.1 336 eP 11 33 00.0 -1.9

XAN 56.5 316 eP 11 33 22.6 3.4

CD2 58.6 310 eP 11 33 33.2 -1.0

GTA 65.5 317 eP 11 34 24.6 4.2

1985 7 11

O=13 53 11.5 ± 0.16s

LAT=52.03 N ± 3.25km

LONG=171.50 W ± 1.68km

DEPTH= 33 km ± 0.06km

STATIONS USED = 44, STAND DEV = 0.93s

$M_s = 4.5 / 1,$

MDJ 38.9 283 eP 14 00 35.0 -1.1

CN2 41.8 285 eP 14 01 00.0 -0.4

SNY 44.1 283 eP 14 01 19.0 0.2

LN  $M_s = 4.5$  19.0 0.36

BJI 49.6 286 eP 14 02 02.0 -0.2

HHC 51.8 290 eP 14 02 19.6 0.6

SSE 52.5 274 P 14 02 26.2 2.1

BTO 52.9 291 eP 14 02 27.6 0.7

NJ2 53.3 277 eP 14 02 29.6 -0.3

TIY 53.3 286 eP 14 02 31.4 0.9

WHN 57.1 279 eP 14 02 56.5 -1.1

XAN 57.9 285 +P 14 03 02.7 -0.8

LZH 59.5 291 eP 14 03 15.5 1.0

WMQ 62.7 307 -P 14 03 36.7 0.6

GZH 63.1 274 P 14 03 39.0 0.3

CD2 63.2 287 eP 14 03 40.2 0.7

GYA 64.7 281 P 14 03 48.8 -0.6

KMI 68.1 283 eP 14 04 11.0 0.2

1985 7 11

O=14 07 55.8 ± 0.06s

LAT= 7.61 S ± 0.90km

LONG=129.93 E ± 1.39km

DEPTH= 33 km ± 0.11km

STATIONS USED = 17, STAND DEV = 1.56s

$M_s = 4.5 / 1,$

XAN 46.0 336 eP 14 16 17.0 -1.0

PcP 14 17 55.0 0.8

BJI 49.1 346 eP 14 16 41.0 -1.3

GTA 54.5 331 -P 14 17 23.8 0.8

LE  $M_s = 4.5$  20.0 0.28

WMQ 63.9 327 +P 14 18 28.9 0.9

1985 7 11

O=17 49 40.3 ± 0.32s

LAT=56.62 S ± 6.29km

LONG= 25.86 W ± 8.15km

DEPTH= 27 km ± 1.44km

STATIONS USED = 25, STAND DEV = 3.23s

WMQ 137.3 78 ePKP 18 09 04.0 1.3

XAN 142.0 107 ePKP 18 09 05.6 -5.4

NJ2 145.4 120 +PKP 18 09 16.5 -0.4

SSE 145.7 124 PKP 18 09 17.0 -0.4

pPKP 18 09 30.6 5.4

TIY 146.6 107 PKP 18 09 19.8 0.8

BTO 147.4 100 ePKP 18 09 21.5 1.1

TIA 147.9 114 ePKP 18 09 22.7 1.7

BJI 150.3 108 ePKP 18 09 29.0 4.2

DL2 152.2 116 ePKP 18 09 33.0 5.3

1985 7 11  
 O=19 12 05.7 ± 0.16s  
 LAT= 9.22 S ± 1.84km  
 LONG=118.32 E ± 1.60km  
 DEPTH=102 km ± 0.74km  
 STATIONS USED = 48, STAND DEV= 1.24s

GZH	32.5	351	eP	19 18 30.0	1.2
GYA	37.2	343	P	19 19 11.0	1.5
WHN	39.7	355	eP	19 19 31.5	1.5
NJ2	41.0	1	eP	19 19 42.4	1.5
			LZ		20.0 0.40
CD2	42.3	341	P	19 19 51.7	0.6
XAN	43.9	349	eP	19 20 04.3	-0.3
TIY	47.0	354	P	19 20 28.8	-0.2
LZH	47.1	344	eP	19 20 31.0	1.3
BJI	49.1	358	eP	19 20 44.0	-0.7
BTO	50.2	352	P	19 20 53.0	-0.4
SNY	51.0	5	eP	19 20 58.8	+1.0
GTA	51.3	342	P	19 21 03.2	0.8
CN2	53.2	6	eP	19 21 14.2	-1.7
			pP	19 21 34.4	-5.6
MDJ	54.5	10	P	19 21 25.5	-0.5
			pP	19 21 45.5	-4.7
WMQ	59.7	335	+P	19 22 01.3	-0.9

1985 7 11  
 O=20 31 12.7 ± 0.21s  
 LAT=32.78 S ± 3.12km  
 LONG= 72.05 W ± 1.71km  
 DEPTH= 22 km ± 1.43km  
 STATIONS USED = 20, STAND DEV= 2.10s  
 Ms=5.4/ 1,

WMQ	160.7	49	+PKP	20 51 12.0	0.2
			PKP <sub>2</sub>	20 51 54.0	
GTA	170.7	43	+PKP	20 51 20.8	0.8
			PKP <sub>2</sub>	20 52 39.5	
			LE	Ms=5.4	20.0 0.52
GYA	173.6	170	ePKP	20 51 21.0	-0.4
			PKP <sub>2</sub>	20 52 50.0	
			PP	20 56 40.0	-4.2
LZH	175.3	45	ePKP	20 51 22.0	0.0
			ePP	20 56 52.0	-0.5
CD2	176.0	117	PKP	20 51 18.6	-3.5
XAN	178.5	327	PKP	20 51 22.0	-0.5

1985 7 12  
 O=04 51 15.1 ± 0.06s  
 LAT=31.62 N ± 0.92km  
 LONG= 82.40 E ± 0.65km

DEPTH= 32 km ± 0.03km  
 STATIONS USED = 26, STAND DEV= 1.27s  
 Ms=4.0/ 3,

LSA	7.8	102	ePn	04 53 09.4	2.4
			LE	Ms=4.0	7.0 0.66
KSH	9.4	328	eP	04 53 31.0	-0.6
			eS	04 55 20.0	2.5
			LG <sub>2</sub>	04 56 27.0	1.7
			LE	Ms=4.4	7.0 1.40
GTA	16.1	56	P	04 55 03.3	1.7
CD2	18.3	87	P	04 55 28.6	0.5
LZH	18.3	70	eP	04 55 30.0	0.8
KMI	19.0	105	+iP	04 55 37.5	0.0
			eS	04 59 10.0	4.8
			LE	Ms=3.9	10.0 0.19
GYA	21.8	97	P	04 56 06.4	-0.3
XAN	22.4	77	P	04 56 10.6	-1.8
BTO	24.0	60	eP	04 56 28.2	0.3
HHC	25.2	60	eP	04 56 40.4	0.9
BJI	28.5	63	eP	04 57 10.0	0.0
CN2	35.8	58	-P	04 58 11.7	-1.9

1985 7 12  
 O=06 11 47.9 ± 0.08s  
 LAT= 5.77 S ± 2.11km  
 LONG=101.76 E ± 1.84km  
 DEPTH= 34 km ± 0.46km  
 STATIONS USED = 72, STAND DEV= 0.94s  
 Ms=5.8/ 23, m<sub>B</sub>=5.7/ 18

QZN	25.9	18	eP	06 17 19.0	0.1
			PMZ	m <sub>B</sub> =5.6	9.0 1.30
			sP	06 17 31.0	-1.2
			PP	06 18 00.0	0.5
			eS	06 21 44.5	-0.1
			isS	06 21 56.5	-3.4
			SS	06 22 45.5	-4.8
			LN	Ms=5.6	13.0 6.50
			LE		14.0 5.20
KMI	30.7	2	+iP	06 18 03.5	0.8
			PMZ	m <sub>B</sub> =5.8	4.0 0.70
			sP	06 18 15.0	-0.8
			S	06 23 00.0	-1.2
			LE	Ms=6.0	12.0 11.5
GZH	30.8	21	P	06 18 05.0	1.6
			SMN	m <sub>B</sub> =5.6	10.0 1.24
			SME		11.0 0.91
			LN	Ms=5.7	11.0 3.71
			LE		12.0 4.45
GYA	32.4	8	P	06 18 17.6	0.4
			pP	06 18 27.0	0.6

			PP	06 19 32.0	7.1		LZH	41.7	3	+iP	06 19 36.5	0.8		
			S	06 23 34.0	6.7					PMZ			2.0	0.11
			sS	06 23 53.0	9.2					S	06 25 53.0	4.0		
			LN	Ms = 5.9	13.0	5.00				SME	m <sub>B</sub> = 5.6	10.0	1.05	
			LE		13.0	9.90				LE	Ms = 6.0	11.0	6.57	
QZH	34.6	28	+P	06 18 36.0	-0.6		TIA	44.2	18	eP	06 19 55.7	-0.1		
			ePP	06 19 55.0	1.7					PMZ	m <sub>B</sub> = 5.6	5.0	0.49	
			eS	06 24 04.0	0.8					eS	06 26 28.2	1.7		
			SMN	m <sub>B</sub> = 5.7	10.0	0.88				SMN	m <sub>B</sub> = 5.6	12.0	0.89	
			SME		9.0	1.14				SME		11.0	0.68	
			LN	Ms = 5.5	14.0	2.91				LN	Ms = 5.6	14.0	2.79	
			LE		13.5	3.07				LE		12.0	0.63	
CD2	36.5	3	P	06 18 52.2	-0.4		TIY	44.4	12	eP	06 19 57.6	0.0		
			eS	06 24 28.0	-4.3					PMZ	m <sub>B</sub> = 5.8	5.0	0.76	
			LE	Ms = 6.1	13.0	12.2				S	06 26 31.0	2.5		
LSA	36.7	344	eP	06 18 53.0	-1.6					LN	Ms = 5.9	12.0	4.04	
			S	06 24 35.0	0.8					LE		12.0	3.84	
			SME	m <sub>B</sub> = 5.3	9.0	0.52	GTA	45.0	358	+P	06 20 03.0	0.5		
			LN	Ms = 5.1	12.5	1.34				PP	06 21 49.0	0.7		
WHN	38.1	18	+P	06 19 06.0	0.5					S	06 26 42.4	5.2		
			PMZ	m <sub>B</sub> = 5.8	5.0	0.81				SS	06 29 55.5	3.8		
			PP	06 20 37.0	1.3					LE	Ms = 5.8	12.5	4.40	
			PcP	06 21 16.0	-4.2		BTO	46.8	9	+P	06 20 16.0	-0.5		
			S	06 25 00.0	5.1					ePP	06 22 06.0	0.3		
			SME	m <sub>B</sub> = 5.4	10.0	0.66				S	06 27 01.0	-1.4		
			PcS	06 25 04.0	-3.8					SMN	m <sub>B</sub> = 5.9	12.0	1.60	
			sS	06 25 17.5	5.9					SME		10.0	0.80	
			ScS	06 29 10.0	-1.8					eScS	06 30 09.0	4.1		
			LN	Ms = 5.8	11.5	4.30				LN	Ms = 6.1	12.0	6.40	
			LE		12.0	4.32				LE		12.0	3.40	
XAN	40.2	9	+iP	06 19 22.8	-0.2		BJI	47.5	15	eP	06 20 22.0	0.0		
			PP	06 20 56.0	-3.5					ePP	06 22 15.0	2.6		
			S	06 25 26.0	-0.5					eS	06 27 15.0	1.3		
			SMN	m <sub>B</sub> = 5.9	11.0	2.07				SMN	m <sub>B</sub> = 5.7	9.5	1.00	
			SME		10.0	1.01				LN	Ms = 5.8	14.0	5.04	
			LN	Ms = 6.0	12.0	7.46	DL2	48.1	21	+P	06 20 27.0	0.0		
			LE		13.0	6.00				eS	06 27 25.5	2.9		
NJ2	41.0	22	+P	06 19 30.5	0.7					LN	Ms = 5.9	13.0	4.75	
			PMZ	m <sub>B</sub> = 5.9	5.5	0.96				LE		10.0	1.49	
			S	06 25 38.0	-0.7		KSH	50.9	334	eP	06 20 49.0	0.4		
			sS	06 25 50.0	-5.5					PP	06 22 42.0	-2.9		
			LE	Ms = 5.7	15.0	5.50				S	06 28 06.0	5.5		
SSE	41.1	26	+P	06 19 32.0	1.4					LE	Ms = 5.6	11.0	2.10	
			PMZ	m <sub>B</sub> = 5.7	8.0	1.07	WMQ	51.0	347	+P	06 20 48.5	-0.5		
			pP	06 19 40.0	-0.2					PcP	06 22 04.5	0.2		
			eS	06 25 41.0	-0.3					S	06 28 05.0	3.7		
			sS	06 25 56.0	-1.1					SMN		3.0	0.16	
			eSS	06 28 40.0	0.5					ScS	06 30 38.0	5.2		
			eScS	06 29 32.0	2.5					LE	Ms = 5.4	13.0	1.69	
			LE	Ms = 5.8	13.0	5.39	SNY	51.4	21	+P	06 20 51.0	-1.0		

			pP	06 20 59.0	-2.6			
			S	06 28 10.5	3.4			
			ScS	06 30 40.0	4.3			
			SS	06 31 46.0	5.1			
			LN	Ms=5.9	15.0	2.02		
			LE		13.5	4.83		
CN2	53.8	21	+P	06 21 08.0	-1.9			
			PMZ	m <sub>B</sub> =6.0	3.5	0.70		
			pP	06 21 15.8	-3.9			
			sP	06 21 19.0	-4.7			
			eS	06 28 35.0	-5.9			
			ScS	06 30 53.0	0.7			
			LN	Ms=5.9	13.0	4.00		
MDJ	56.1	24	eP	06 21 23.5	-2.9			
			pP	06 21 31.0	-5.1			
			PP	06 23 31.0	-1.2			
			PcS	06 26 20.0	-2.4			
			SMN	m <sub>B</sub> =5.6	10.0	0.77		
			ScS	06 31 07.0	-1.5			
			LZ	Ms=5.9	13.0	4.21		

1985 7 12

O=09 55 52.2 ± 0.08s  
 LAT=24.83 N ± 1.69km  
 LONG=125.39 E ± 1.04km  
 DEPTH= 58 km ± 1.47km  
 STATIONS USED = 37, STAND DEV = 1.75s

M<sub>L</sub>=3.7 / 3,

QZH	6.2	273	eP	09 57 21.5	-1.5			
			S	09 58 37.5	5.8			
			SMN	M <sub>L</sub> =3.7	1.2	0.070		
			SME		1.0	0.040		
SSE	7.3	330	eP	09 57 37.0	-1.3			
NJ2	9.2	323	eP	09 58 07.0	1.9			
GYA	17.0	280	P	09 59 52.0	4.6			
XAN	17.0	306	+P	09 59 50.0	2.1			
SNY	17.0	355	-iP	09 59 49.8	1.8			
BJI	17.0	335	eP	09 59 49.0	0.9			
CN2	18.9	0	-P	10 00 09.3	-1.9			
HHC	19.7	327	+P	10 00 19.6	-0.4			
CD2	20.0	292	P	10 00 21.7	-1.8			
GTA	26.0	310	+P	10 01 20.5	-1.2			

1985 7 12

O=12 04 22.8 ± 0.14s  
 LAT=18.24 S ± 1.34km  
 LONG=168.19 E ± 0.76km  
 DEPTH= 34 km ± 1.08km  
 STATIONS USED = 28, STAND DEV = 1.49s

MDJ	71.8	332	P	12 15 44.5	0.1			
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			pP	12 15 57.0	2.9			
CN2	73.1	329	-P	12 15 51.2	-1.1			
			epP	12 16 03.7	1.8			
GYA	74.4	305	eP	12 16 00.6	0.4			
XAN	76.7	313	eP	12 16 12.4	-0.8			
KMI	76.9	302	+P	12 16 15.0	0.5			
CD2	78.8	308	eP	12 16 25.8	0.8			
LZH	81.3	312	eP	12 16 38.5	0.1			
GTA	85.7	314	P	12 17 02.0	1.3			

1985 7 12

O=12 46 51.8 ± 0.19s  
 LAT=18.25 S ± 1.79km  
 LONG=167.98 E ± 1.15km  
 DEPTH= 36 km ± 1.35km  
 STATIONS USED = 31, STAND DEV = 1.99s  
 M<sub>S</sub>=4.9 / 2, m<sub>B</sub>=5.5 / 2

SSE	66.5	317	eP	12 57 44.0	3.2			
			eS	13 06 30.0	2.1			
DL2	71.5	323	eP	12 58 13.0	1.5			
MDJ	71.7	332	P	12 58 12.0	-0.6			
			PMZ	m <sub>B</sub> =5.5	6.0	0.40		
			pP	12 58 22.0	-0.7			
			eS	13 07 32.0	3.0			
			sS	13 07 48.0	2.1			
CN2	73.0	329	+P	12 58 19.0	-1.4			
			pP	12 58 31.0	0.5			
			eS	13 07 40.0	-4.0			
			LN	Ms=5.0	18.0	0.50		
GYA	74.3	305	eP	12 58 25.0	-3.0			
TIY	76.3	318	eP	12 58 40.0	0.4			
XAN	76.6	313	eP	12 58 41.0	-0.1			
KMI	76.7	302	+P	12 58 43.0	0.7			
			S	13 08 32.0	8.0			
			SMN	m <sub>B</sub> =5.5	8.0	0.30		
CD2	78.7	308	eP	12 58 49.1	-3.8			
LZH	81.2	312	eP	12 59 06.5	0.1			
GTA	85.6	314	+P	12 59 29.7	1.0			
			S	13 09 54.8	-0.3			
			LE	Ms=4.8	25.0	0.33		

1985 7 12

O=19 04 27.9 ± 0.08s  
 LAT=20.60 S ± 1.50km  
 LONG=178.36 W ± 0.99km  
 DEPTH=578 km ± 1.21km  
 STATIONS USED = 28, STAND DEV = 0.95s

NJ2	79.7	310	+P	19 15 38.8	0.8			
MDJ	80.4	325	eP	19 15 42.0	0.2			
SNY	82.1	320	eP	19 15 50.0	-0.2			

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CN2	82.2	323	-P	19 15 50.4	-0.4
BJI	85.7	316	eP	19 16 08.0	-0.2
GYA	86.4	300	P	19 16 12.2	0.6
XAN	87.9	307	P	19 16 19.2	0.5
KMI	89.1	297	eP	19 16 25.5	1.1

1985 7 12

O=21 12 36.7 ± 0.11s

LAT=17.25 S ± 0.83km

LONG=167.97 E ± 1.12km

DEPTH= 28 km ± 0.48km

STATIONS USED = 13, STAND DEV= 1.34s

CN2	72.1	329	+P	21 24 01.5	0.2
BJI	74.6	321	eP	21 24 16.0	0.0
XAN	75.9	313	eP	21 24 23.6	0.4
GTA	84.9	314	eP	21 25 11.9	0.6

1985 7 12

O=22 12 51.0 ± 0.05s

LAT=42.62 N ± 1.35km

LONG=141.45 E ± 0.80km

DEPTH=132 km ± 0.55km

STATIONS USED = 40, STAND DEV= 1.21s

MDJ	8.8	287	eP	22 14 58.0	1.1
CN2	11.7	281	eP	22 15 36.2	0.7
SNY	13.3	273	eP	22 15 57.0	1.5
BJI	19.1	271	eP	22 17 03.0	-3.5
TIA	19.8	259	eP	22 17 12.0	-1.7
TIY	22.7	267	P	22 17 41.4	-0.5
BTO	23.5	276	eP	22 17 49.0	-1.4
XAN	26.8	262	eP	22 18 19.7	-1.2
LZH	29.6	270	eP	22 18 46.0	-0.6
GTA	31.4	278	P	22 19 02.0	0.2
WMQ	38.6	291	-P	22 20 04.0	0.6
LSA	42.0	269	eP	22 20 32.4	0.5

1985 7 12

O=22 50 18.3 ± 0.12s

LAT= 9.37 S ± 1.57km

LONG=112.97 E ± 1.82km

DEPTH= 75 km ± 1.38km

STATIONS USED = 47, STAND DEV= 1.44s

Ms=4.7/ 1,

WHN	39.7	2	eP	22 57 46.0	0.7
SSE	41.0	11	iP	22 57 58.0	2.0
			PMZ		0.8 0.010
CD2	41.0	348	P	22 57 57.0	0.8
NJ2	41.6	8	eP	22 58 02.5	1.9
XAN	43.3	355	-P	22 58 15.3	0.1
LSA	44.2	332	eP	22 58 21.8	-0.5

LZH	46.0	350	eP	22 58 38.0	1.2
TIY	46.8	359	P	22 58 41.4	-1.7
			LE	Ms=4.7	14.0 0.37
BJI	49.2	3	eP	22 58 58.0	-3.8
BTO	49.8	357	eP	22 59 05.0	-1.1
HHC	50.0	359	P	22 59 07.8	0.2
GTA	50.0	347	+iP	22 59 09.0	0.9
SNY	51.9	10	eP	22 59 19.9	-1.8
CN2	54.1	11	-P	22 59 36.4	-2.0
MDJ	55.8	14	eP	22 59 48.5	-2.1
WMQ	57.7	339	eP	23 00 03.5	-0.7

1985 7 13

O=01 01 22.2 ± 0.11s

LAT=23.53 N ± 0.71km

LONG=100.69 E ± 0.80km

DEPTH= 11 km ± 0.49km

STATIONS USED = 9, STAND DEV= 1.78s

ML=3.5/ 5,

KMI	2.5	49	+Pg	01 02 07.0	1.2
			Sg	01 02 40.0	1.0
			SMN	ML=3.4	1.0 0.22
			SME		1.0 0.27
			LN		6.0 0.74
			LE		6.0 0.48
CD2	7.8	20	eP	01 03 19.7	0.5

1985 7 13

O=01 02 58.7 ± 0.17s

LAT=26.53 S ± 1.53km

LONG=177.46 W ± 0.81km

DEPTH=130 km ± 1.72km

STATIONS USED = 21, STAND DEV= 1.58s

MDJ	85.7	325	eP	01 15 21.5	-3.6
WHN	86.4	307	eP	01 15 29.0	0.6
CN2	87.4	323	+P	01 15 32.6	-0.4
TIA	87.7	313	eP	01 15 34.8	0.1
XAN	92.2	307	P	01 15 56.4	0.8
KMI	92.5	297	eP	01 15 58.5	1.1

1985 7 13

O=02 16 15.6 ± 0.13s

LAT=24.73 N ± 1.43km

LONG=115.47 E ± 1.03km

DEPTH= 13 km ± 0.10km

STATIONS USED = 18, STAND DEV= 2.79s

ML=3.8/ 14,

GZH	2.5	230	-iPg	02 17 03.4	2.8
			iSg	02 17 36.4	1.0
			SMN	ML=4.0	1.0 1.04





	Pg	23 11 07.9	2.0	
	Sg	23 11 37.1	1.4	
	SMN	$M_L=4.3$	0.1	2.30
	SME		0.1	2.50
LZH	+iPn	23 11 09.0	2.0	
	Pg	23 11 11.3	0.3	
	Sg	23 11 42.5	-2.1	
	SMN	$M_L=4.8$	1.0	5.94
	SME		1.0	4.51
BTO	-iPn	23 12 10.4	3.3	
	LG <sub>2</sub>	23 14 08.3	-4.7	
	LN	$M_s=3.7$	8.0	0.40
	LE		8.0	0.30
XAN	ePn	23 12 12.5	4.2	
	Pg	23 12 32.5	2.7	
	Sn	23 13 26.0	-2.5	
	Sg	23 14 00.4	-4.1	
	SMN	$M_L=4.2$	1.0	0.11
	SME		1.0	0.090
CD2	Pg	23 12 42.3	7.1	
	LE	$M_s=4.2$	8.0	1.37
HHC	-P	23 12 26.5	0.5	
	eLG <sub>1</sub>	23 14 36.3	-3.3	
	LG <sub>2</sub>	23 14 44.6	-7.7	
	SMN	$M_L=4.5$	0.5	0.14
	SME		0.5	0.15
TIY	eP	23 12 31.4	0.8	
	SMN	$M_L=4.9$	0.8	0.32
	SME		0.9	0.21
BJI	eP	23 13 08.5	-2.7	
	LN	$M_s=3.7$	11.0	0.31
GYA	P	23 13 20.6	-2.4	
WMQ	eP	23 13 17.6	-6.0	
	SMN		1.5	0.050
CN2	+P	23 14 48.0	0.8	

LSA	42.6	317	eP	04 25 19.0	-0.4
GTA	44.8	334	P	04 25 37.9	0.4
MDJ	45.1	7	P	04 25 38.0	-1.2
WMQ	54.0	329	eP	04 26 44.5	-3.4

1985 7 14  
 O=05 49 15.9 ± 0.07s  
 LAT=15.36 S ± 1.38KM  
 LONG=174.79 W ± 1.32KM  
 DEPTH=276 KM ± 0.29KM  
 STATIONS USED = 29, STAND DEV = 0.72s

NJ2	79.1	308	eP	06 00 51.8	-0.1
DL2	80.2	315	eP	06 00 57.8	0.0
CN2	80.2	321	-P	06 00 57.1	-0.7
TIA	82.2	311	eP	06 01 08.3	0.2
BJI	84.5	314	eP	06 01 19.5	-0.2
GYA	86.8	298	P	06 01 32.0	0.6
XAN	87.5	306	P	06 01 34.8	0.2
KMI	89.8	296	-P	06 01 46.5	1.0
CD2	90.7	302	P	06 01 49.8	0.6
LZH	92.1	307	eP	06 01 56.0	-0.2
GTA	96.1	309	P	06 02 13.9	-0.5

1985 7 14  
 O=14 46 23.2 ± 0.49s  
 LAT= 2.45 N ± 8.37KM  
 LONG=129.30 E ± 5.66KM  
 DEPTH= 92 KM ± 0.34KM  
 STATIONS USED = 25, STAND DEV = 3.20s

KMI	34.1	314	+P	14 53 05.5	3.8
TIA	35.4	343	eP	14 53 16.8	4.1
DL2	37.0	350	eP	14 53 31.0	5.5
CD2	37.2	322	P	14 53 28.3	0.6
BJI	39.3	344	eP	14 53 41.5	-3.2
LZH	40.9	328	eP	14 53 56.0	-2.6
CN2	41.3	356	eP	14 54 05.4	3.7
MDJ	42.0	0	eP	14 54 05.5	-1.7
GTA	45.5	328	eP	14 54 32.8	-3.1

1985 7 14  
 O=18 20 22.9 ± 0.06s  
 LAT=33.20 S ± 0.97KM  
 LONG= 72.49 W ± 0.81KM  
 DEPTH= 35 KM ± 0.44KM  
 STATIONS USED = 11, STAND DEV = 1.13s

WMQ	161.3	50	ePKP	18 40 22.0	1.3
GTA	171.2	43	PKP	18 40 29.8	1.2
XAN	178.6	306	ePKP	18 40 31.0	0.2

1985 7 14

O = 19 54 46.9 ± 0.18s				sP 20 04 19.0 6.7							
LAT = 4.06 S ± 2.32KM				ScP 20 09 04.0 -4.5							
LONG = 152.54 E ± 2.73KM				eS 20 11 27.0 -2.7							
DEPTH = 12 KM ± 1.68KM				sS 20 11 48.0 8.5							
STATIONS USED = 67, STAND DEV = 1.53s				ScS 20 13 46.0 -3.3							
Ms = 4.9 / 11, m <sub>B</sub> = 5.7 / 20				SS 20 15 08.0 2.3							
QZH	43.8	313	+P	20 02 56.0	1.1	SNY	52.7	333	+P	20 04 04.0	-0.4
			PMZ		3.0				S	20 11 32.0	2.2
			PP	20 04 39.0	0.7				LE	Ms = 4.8	20.0 0.60
			S	20 09 26.0	1.7	CN2	53.5	336	+P	20 04 09.6	-0.6
			SMN	m <sub>B</sub> = 5.6	7.0				PMZ	m <sub>B</sub> = 6.1	4.0 1.00
			SME		7.0				epP	20 04 23.0	6.9
			SS	20 12 32.0	-0.8				PP	20 06 09.6	-1.9
			LE	Ms = 4.5	15.0				eS	20 11 40.0	-1.7
SSE	46.0	322	P	20 03 14.0	1.5				SMN	m <sub>B</sub> = 5.7	8.0 0.50
			PMZ		1.0				SME		8.0 0.60
			S	20 10 00.0	4.1				LN	Ms = 4.9	12.0 0.40
			SMN	m <sub>B</sub> = 5.9	8.0	GYA	53.7	307	+P	20 04 14.0	2.0
			SME		8.0				PMZ	m <sub>B</sub> = 6.0	5.0 1.00
			eSS	20 13 14.0	1.0				sP	20 04 28.0	7.4
			LN	Ms = 5.0	18.0				PP	20 06 19.0	5.5
			LE		18.0				S	20 11 48.0	4.4
GZH	46.8	307	+P	20 03 21.0	2.1				SS	20 15 28.0	4.4
			S	20 10 14.0	6.6	BJI	55.1	326	eP	20 04 21.0	-1.1
			SMN	m <sub>B</sub> = 5.7	6.0				PMZ	m <sub>B</sub> = 5.1	4.0 0.10
QZN	47.9	300	+iP	20 03 29.0	1.7				epP	20 04 32.0	4.0
			PMZ	m <sub>B</sub> = 6.0	5.0				eS	20 12 01.0	-2.4
			S	20 10 29.0	6.5				SMN	m <sub>B</sub> = 5.5	8.0 0.40
			LN	Ms = 5.0	14.0				SME		7.0 0.31
			LE		13.0				eSS	20 15 50.0	4.1
NJ2	48.1	321	eP	20 03 27.8	-1.3	TIY	55.8	322	eP	20 04 27.0	0.1
			PMZ	m <sub>B</sub> = 6.0	6.0				eS	20 12 17.0	4.6
			S	20 10 29.5	3.6				LE	Ms = 4.6	16.0 0.26
			LZ	Ms = 4.6	18.0	XAN	55.9	316	eP	20 04 25.6	-2.1
WHN	50.1	316	+P	20 03 46.5	1.7				S	20 12 18.0	5.3
			PMZ	m <sub>B</sub> = 5.9	4.0				SMN	m <sub>B</sub> = 5.7	8.0 0.80
			sP	20 04 00.0	6.5	KMI	56.4	304	+P	20 04 30.5	-0.7
			S	20 11 01.0	6.7				PMZ	m <sub>B</sub> = 5.8	4.0 0.50
			SMN	m <sub>B</sub> = 5.5	9.0				pP	20 04 45.0	8.2
			LN	Ms = 5.1	17.0				PcP	20 05 30.0	2.9
DL2	51.4	329	+iP	20 03 55.0	0.6				PP	20 06 39.5	2.4
			eS	20 11 10.0	-2.8				eS	20 12 15.0	-5.3
TIA	52.0	323	eP	20 03 59.0	0.3				LE	Ms = 5.1	28.0 1.38
			PMZ	m <sub>B</sub> = 6.0	5.0	CD2	58.1	310	eP	20 04 42.0	-1.0
			S	20 11 22.0	2.6				sP	20 04 56.0	4.4
			SMN	m <sub>B</sub> = 5.7	7.0				ePP	20 06 53.0	0.5
			SME		7.0				eS	20 12 40.0	-2.3
MDJ	52.6	339	eP	20 04 03.0	-0.7				LZ	Ms = 5.1	22.0 1.06
			PMZ	m <sub>B</sub> = 6.0	5.0	HHC	58.3	324	+P	20 04 45.9	1.1
			pP	20 04 14.5	5.0	BTO	59.1	323	P	20 04 49.5	-0.5

	S	20 12 55.0	1.0		
	SMN	$m_B=5.7$	8.0	0.60	
	SME		8.0	0.50	
LZH	60.5	316	eP	20 05 00.5	0.3
	PMZ				3.0 0.63
	pP	20 05 11.0	5.2		
	eS	20 13 18.0	3.5		
GTA	64.9	317	P	20 05 29.6	0.1
	S	20 14 12.5	4.1		
	SMN	$m_B=5.6$	8.0	0.58	
	LE	$M_S=4.9$	22.0	0.51	
WMQ	75.0	317	P	20 06 31.0	-0.1
	ePP	20 09 28.0	7.9		
	S	20 16 10.0	3.6		
	SMN	$m_B=5.7$	9.0	0.52	
KSH	82.2	311	P	20 07 14.0	3.4
	eS	20 17 32.0	6.8		

1985 7 15

O=05 32 56.6 ± 0.10s  
 LAT=54.11 N ± 1.85KM  
 LONG=161.17 E ± 1.19KM  
 DEPTH= 35 KM ± 0.20KM  
 STATIONS USED = 14, STAND DEV= 1.19s

CN2	25.4	261	P	05 38 20.6	-1.8
CD2	46.7	264	P	05 41 23.0	-1.5
WMQ	47.2	289	P	05 41 28.8	0.1

1985 7 15

O=06 44 10.6 ± 0.06s  
 LAT=42.88 N ± 3.43KM  
 LONG=146.55 E ± 1.87KM  
 DEPTH= 20 KM ± 1.78KM  
 STATIONS USED = 16, STAND DEV= 1.88s

MDJ	12.4	284	eP	06 47 07.0	-2.1
CN2	15.4	281	-P	06 47 46.3	-2.2
SNY	17.0	274	eP	06 48 11.3	2.1
BJI	22.9	273	eP	06 49 13.0	-1.3
CD2	35.9	265	eP	06 51 11.0	-0.8

1985 7 15

O=07 53 15.3 ± 0.07s  
 LAT=36.48 N ± 1.44KM  
 LONG= 70.62 E ± 1.16KM  
 DEPTH=184 KM ± 0.76KM  
 STATIONS USED = 29, STAND DEV= 1.72s

$M_L=4.9/ 1,$

KSH	5.2	53	-iP	07 54 35.0	2.3
			S	07 55 34.0	2.0
WMQ	15.0	55	+P	07 56 38.5	-0.7

	S	07 59 19.0	-0.6		
CD2	28.0	92	eP	07 58 51.6	-0.3
XAN	31.2	83	+P	07 59 18.8	-1.3
GYA	32.2	98	P	07 59 27.4	-0.9

1985 7 15

O=08 50 04.1 ± 0.13s  
 LAT=26.93 N ± 0.99KM  
 LONG=100.46 E ± 1.14KM  
 DEPTH= 16 KM ± 0.50KM  
 STATIONS USED = 18, STAND DEV= 2.73s  
 $M_S=3.6/ 1, M_L=3.6/ 8,$

KMI	2.7	131	+Pg	08 50 53.0	0.3
			Sg	08 51 28.0	-1.8
			SMN	$M_L=4.0$	1.5 0.81
			SME		1.0 0.59
			LN		5.0 1.56
CD2	4.9	35	ePn	08 51 19.0	1.3
GYA	5.6	93	Pn	08 51 29.0	2.1
			Sn	08 52 37.0	4.4
			SMN	$M_L=3.3$	1.2 0.030
			SME		1.2 0.030
			LN	$M_S=3.6$	9.0 0.70
XAN	10.2	44	eP	08 52 28.8	-4.0
SSE	18.6	72	-P	08 54 28.4	5.5

1985 7 15

O=08 52 59.0 ± 0.05s  
 LAT=25.31 N ± 0.93KM  
 LONG=123.45 E ± 0.81KM  
 DEPTH=192 KM ± 0.97KM  
 STATIONS USED = 26, STAND DEV= 1.24s

SSE	6.1	341	-P	08 54 28.4	0.1
NJ2	7.8	330	eP	08 54 51.4	0.3
GYA	15.1	278	P	08 56 25.6	0.7
TIY	15.5	325	eP	08 56 31.1	1.9
BJI	15.9	339	eP	08 56 35.5	1.6
CD2	18.2	292	+iP	08 57 00.3	-0.4
GTA	24.3	311	P	08 58 00.0	-0.9

1985 7 15

O=10 38 47.0 ± 0.13s  
 LAT=19.16 N ± 1.67KM  
 LONG= 97.28 E ± 1.41KM  
 DEPTH= 15 KM ± 0.24KM  
 STATIONS USED = 87, STAND DEV= 1.82s

$M_S=5.4/ 23, M_L=5.9/ 1, m_B=5.4/ 6$

KMI	7.8	39	ePn	10 40 46.5	5.9
			eSn	10 42 08.0	-2.8
			LG <sub>1</sub>	10 42 49.0	-2.8





**1985 7 15**  
**O=16 38 50.7** ± 0.04s  
**LAT=36.42 N** ± 0.66KM  
**LONG= 71.12 E** ± 0.50KM  
**DEPTH=260 KM** ± 0.45KM  
**STATIONS USED = 15, STAND DEV= 1.02s**

KSH	4.9	50	+iP	16 40 07.0	0.6
			S	16 41 03.0	-1.8
WMQ	14.7	55	P	16 42 07.5	-0.6
			S	16 44 49.5	5.6
LSA	18.1	106	P	16 42 46.8	0.7
GTA	22.8	74	P	16 43 34.9	2.3
GYA	31.8	98	P	16 44 53.4	0.2

**1985 7 15**  
**O=20 45 24.2** ± 0.12s  
**LAT=54.73 N** ± 2.94KM  
**LONG=168.06 E** ± 1.47KM  
**DEPTH= 32 KM** ± 0.17KM  
**STATIONS USED = 14, STAND DEV= 1.63s**

LZH	47.0	274	eP	20 53 54.0	-0.9
GTA	47.0	280	eP	20 53 55.3	0.2
CD2	50.8	269	eP	20 54 23.5	-0.4
GYA	52.4	263	P	20 54 35.8	-0.6

**1985 7 16**  
**O=03 16 52.2** ± 0.11s  
**LAT=42.11 N** ± 1.37KM  
**LONG= 82.33 E** ± 1.12KM  
**DEPTH= 22 KM** ± 0.22KM  
**STATIONS USED = 50, STAND DEV= 1.98s**  
**Ms=4.4/ 6, ML=4.6/ 7,**

WMQ	4.3	65	Pn	03 18 00.3	3.5
			Pg	03 18 11.8	3.8
			Sg	03 19 09.0	2.3
			LE		3.0 4.29
KSH	5.5	243	ePg	03 18 26.0	-3.6
GTA	13.5	96	eP	03 20 01.3	-4.4
			LG <sub>2</sub>	03 24 09.0	-9.5
			LN	Ms=4.5	5.0 0.66
LSA	14.3	147	P	03 20 16.6	0.5
LZH	17.7	103	eP	03 21 00.5	0.6
CD2	20.5	116	eP	03 21 31.6	0.1
BTO	20.8	85	eP	03 21 33.8	-1.3
			LN	Ms=4.4	18.0 0.70
			LE		18.0 0.60
HHC	21.9	83	P	03 21 46.0	-0.1
XAN	22.4	102	P	03 21 49.9	-0.8
TIY	23.4	91	P	03 22 02.0	0.7
			S	03 26 03.0	-6.0

GYA	25.3	120	P	03 22 21.6	2.0
BJI	25.5	83	eP	03 22 21.0	0.0
TIA	27.5	91	eP	03 22 37.8	-1.6
			LN	Ms=4.4	16.0 0.35
			LE		16.0 0.41
SSE	32.8	97	P	03 23 26.5	-0.2
			PMZ		1.0 0.010
			sP	03 23 34.5	-2.8
			LE	Ms=4.3	16.0 0.29

**1985 7 16**  
**O=07 13 42.7** ± 0.16s  
**LAT=19.33 S** ± 0.77KM  
**LONG=177.65 W** ± 1.58KM  
**DEPTH=434 KM** ± 1.68KM  
**STATIONS USED = 18, STAND DEV= 1.28s**

MDJ	79.8	325	eP	07 25 07.0	0.7
CN2	81.6	322	-P	07 25 15.6	-0.2
XAN	87.7	307	-P	07 25 46.3	0.5

**1985 7 16**  
**O=14 30 46.0** ± 0.07s  
**LAT=43.26 N** ± 3.52KM  
**LONG=147.53 E** ± 3.67KM  
**DEPTH= 37 KM** ± 2.35KM  
**STATIONS USED = 8, STAND DEV= 2.28s**

CN2	16.0	280	+P	14 34 28.3	-2.2
BJI	23.6	273	eP	14 35 53.0	-1.5
TIA	24.3	264	eP	14 36 01.8	0.0
CD2	36.6	265	P	14 37 52.1	0.8

**1985 7 16**  
**O=14 58 53.4** ± 0.13s  
**LAT=52.21 N** ± 3.57KM  
**LONG=173.90 E** ± 2.08KM  
**DEPTH= 31 KM** ± 0.37KM  
**STATIONS USED = 19, STAND DEV= 1.82s**

MDJ	30.0	273	eP	15 05 02.0	0.3
CN2	32.9	275	-P	15 05 27.5	-0.3
GTA	51.0	287	+P	15 07 56.5	1.2
CD2	54.4	276	eP	15 08 21.1	0.9
WMQ	55.0	298	P	15 08 26.0	1.0
GYA	55.8	270	P	15 08 31.0	0.7

**1985 7 17**  
**O=06 15 34.2** ± 0.08s  
**LAT=36.43 N** ± 0.49KM  
**LONG= 70.20 E** ± 0.50KM  
**DEPTH=219 KM** ± 0.85KM

STATIONS USED = 12, STAND DEV = 1.02s						
KSH	5.5	55	cP	06 16 58.0	1.8	
WMQ	15.3	56	P	06 19 00.4	0.0	
LSA	18.8	105	P	06 19 40.4	0.5	
GTA	23.5	74	cP	06 20 27.3	1.2	
GYA	32.5	97	P	06 21 46.0	-0.8	
1985 7 17						
O = 08 09 30.5 ± 0.19s						
LAT = 4.21 S ± 1.59KM						
LONG = 152.90 E ± 1.35KM						
DEPTH = 44 KM ± 1.97KM						
STATIONS USED = 83, STAND DEV = 1.33s						
Ms = 5.4 / 23, m <sub>B</sub> = 5.5 / 11						
QZH	44.2	313	cP	08 17 37.5	0.3	
			pP	08 17 45.0	-3.6	
			S	08 24 08.0	2.3	
			sS	08 24 22.5	-3.5	
			SS	08 27 14.0	-3.0	
			LE	Ms = 5.1	19.0	1.49
SSE	46.3	321	-P	08 17 55.0	0.5	
			PMZ		1.5	0.12
			pP	08 18 04.0	-2.0	
			PP	08 19 39.5	-3.3	
			eScP	08 23 22.5	5.7	
			S	08 24 35.0	-1.8	
			SMN	m <sub>B</sub> = 5.7	8.0	0.64
			SME		8.0	0.70
			sS	08 24 56.0	-1.3	
			eSS	08 27 58.0	2.3	
			LN	Ms = 5.2	20.0	1.91
GZH	47.2	307	-P	08 18 03.0	1.9	
			pP	08 18 11.5	-1.0	
			S	08 24 54.5	5.8	
			SMN	m <sub>B</sub> = 5.7	6.0	0.48
			SME		6.0	0.44
			LN	Ms = 5.3	16.0	0.87
			LE		19.0	1.79
QZN	48.3	300	cP	08 18 11.5	1.9	
			pP	08 18 18.5	-2.5	
			S	08 25 09.0	5.1	
			LE	Ms = 5.2	15.0	1.20
NJ2	48.5	321	+P	08 18 11.0	0.0	
			ipP	08 18 18.5	-4.0	
			S	08 25 07.0	0.3	
			SS	08 28 31.0	-1.1	
			LZ	Ms = 5.2	20.0	1.50
WHN	50.5	316	-P	08 18 27.8	1.0	
			isP	08 18 37.0	-6.0	
			PcP	08 19 47.0	3.3	
			S	08 25 36.0	0.9	
			SME	m <sub>B</sub> = 5.3	12.0	0.52
			sS	08 25 47.0	-8.8	
			LN	Ms = 5.3	18.0	1.68
DL2	51.7	329	+P	08 18 35.0	-1.0	
			sP	08 18 43.0	-9.3	
			S	08 25 54.0	2.0	
			LN	Ms = 5.4	16.0	1.27
			LE		16.0	1.29
TIA	52.3	323	cP	08 18 39.8	-0.6	
			pP	08 18 47.8	-4.1	
			cS	08 26 00.0	-1.1	
			SMN	m <sub>B</sub> = 5.4	8.0	0.36
			sS	08 26 18.0	-2.6	
			LN	Ms = 5.3	19.0	1.55
			LE		29.0	0.93
MDJ	52.9	339	cP	08 18 44.0	-0.9	
			pP	08 18 53.0	-3.4	
			PP	08 20 43.0	-2.1	
			ScP	08 23 46.0	1.4	
			S	08 26 10.0	1.9	
			SMN	m <sub>B</sub> = 5.5	9.0	0.57
			sS	08 26 25.0	-4.0	
			ScS	08 28 30.0	3.7	
			LZ	Ms = 5.4	30.0	3.31
SNY	53.0	333	cP	08 18 44.3	-1.5	
			pP	08 18 54.0	-3.3	
			PP	08 20 47.0	0.8	
			S	08 26 12.0	2.2	
			LN	Ms = 5.4	15.0	0.97
			LE		19.0	1.50
CN2	53.8	336	+P	08 18 49.5	-2.1	
			pP	08 18 58.5	-4.7	
			sP	08 19 02.0	-6.0	
			PP	08 20 52.0	-1.2	
			eScP	08 23 51.6	3.1	
			S	08 26 18.0	-2.4	
			SME	m <sub>B</sub> = 5.4	8.0	0.40
			eScS	08 28 34.0	1.4	
			LE	Ms = 5.3	18.0	1.60
GYA	54.1	307	P	08 18 55.0	1.0	
			pP	08 19 03.0	-2.5	
			S	08 26 29.0	4.4	
			LN	Ms = 5.5	18.0	1.00
			LE		18.0	2.10
BJI	55.5	326	cP	08 19 03.0	-0.6	
			cS	08 26 40.0	-3.7	
			SMN	m <sub>B</sub> = 5.7	7.0	0.66
			SME		10.0	0.51
			esS	08 27 00.0	-3.4	





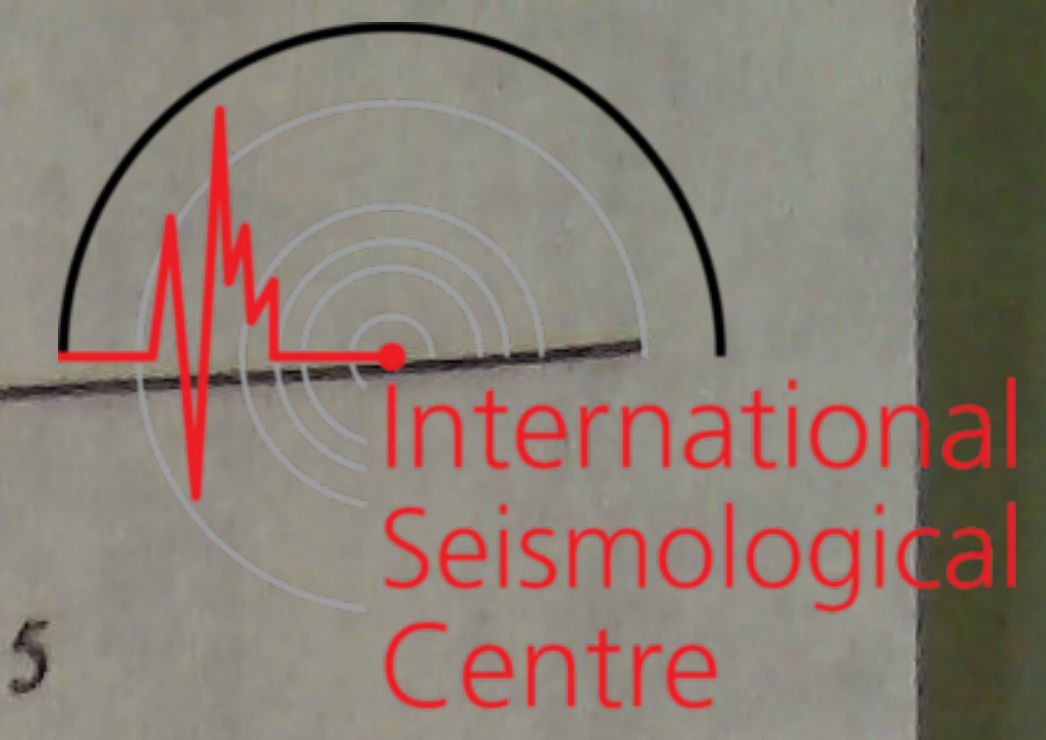
	pP	12 22 33.5	2.5
<b>1985 7 17</b>			
O=	13 52 59.8	± 0.15s	
LAT=	32.57 S	± 2.30KM	
LONG=	71.66 W	± 1.15KM	
DEPTH=	29 KM	± 0.98KM	
STATIONS USED = 22, STAND DEV = 1.14s			
WMQ	160.3 49 ePKP	14 12 58.3	0.8
		PKP <sub>2</sub>	14 13 39.1
LSA	165.0 96 ePKP	14 13 03.4	0.9
QZN	166.4 186 ePKP	14 13 04.0	0.7
		PP	14 17 56.0
GTA	170.3 43 PKP	14 13 06.6	0.8
		PP	14 18 13.8
		iSKKS	14 24 57.9
KMI	171.1 145 ePKP	14 13 06.5	0.1
		PKP <sub>2</sub>	14 14 24.0
TIA	171.9 299 PKP	14 13 06.8	0.2
GYA	173.7 166 ePKP	14 13 08.6	1.1
		PKP <sub>2</sub>	14 14 21.0
		PP	14 18 28.0
CD2	175.8 112 ePKP	14 13 09.1	1.0
XAN	178.5 342 ePKP	14 13 08.3	-0.2

<b>1985 7 17</b>			
O=	15 47 48.2	± 0.08s	
LAT=	20.80 S	± 2.35KM	
LONG=	174.15 W	± 2.10KM	
DEPTH=	37 KM	± 0.57KM	
STATIONS USED = 15, STAND DEV = 1.60s			
MDJ	82.9 323 eP	16 00 11.5	0.3
NJ2	82.9 308 eP	16 00 11.8	0.6
CN2	84.8 321 eP	16 00 20.6	-0.2
GYA	89.9 298 P	16 00 48.6	2.7
XAN	91.2 306 eP	16 00 52.5	0.8
KMI	92.7 296 +P	16 00 59.5	0.6

<b>1985 7 17</b>			
O=	16 37 13.6	± 0.10s	
LAT=	32.09 N	± 0.96KM	
LONG=	95.24 E	± 1.05KM	
DEPTH=	53 KM	± 0.15KM	
STATIONS USED = 17, STAND DEV = 1.84s			
M <sub>s</sub> =4.1 / 1, M <sub>L</sub> =3.8 / 2,			
LSA	4.2 237 P	16 38 18.8	0.7
CD2	7.4 97 eP	16 39 00.7	-0.6
GTA	8.2 26 eP	16 39 11.8	-1.1
KMI	9.6 135 eP	16 39 30.5	-1.3
GYA	11.4 116 P	16 39 54.8	-2.4

XAN	11.6 77 eP	16 40 00.6	0.7
TIY	15.2 64 eP	16 40 49.3	2.8
CN2	26.4 55 eP	16 42 45.6	-1.7
<b>1985 7 17</b>			
O=	19 31 29.2	± 0.13s	
LAT=	51.79 N	± 2.99KM	
LONG=	173.07 W	± 1.83KM	
DEPTH=	31 KM	± 0.23KM	
STATIONS USED = 93, STAND DEV = 0.99s			
M <sub>s</sub> =6.1 / 22, m <sub>B</sub> =5.9 / 16			
MDJ	38.0 282 eP	19 38 44.5	-2.1
		sP	19 39 00.0
		PP	19 40 22.0
		S	19 44 36.0
		sS	19 44 49.0
		SMN	20.0 3.32
		SS	19 47 18.0 4.3
		LZ	M <sub>s</sub> =6.3 20.0 27.6
CN2	41.0 284 +P	19 39 10.5	-0.6
		PMZ	m <sub>B</sub> =6.0 6.0 1.50
		pP	19 39 20.5 0.4
		esP	19 39 25.0 1.0
		PP	19 40 49.5 0.7
		iS	19 45 20.0 -1.1
		SMN	m <sub>B</sub> =5.7 9.0 1.20
		sS	19 45 36.5 0.5
		SS	19 48 21.0 2.6
		eScS	19 49 14.0 3.3
		LN	M <sub>s</sub> =6.2 19.0 20.7
SNY	43.2 283 +iP	19 39 30.4	0.8
		sP	19 39 44.0 1.5
		PP	19 41 08.5 -3.7
		S	19 45 54.0 0.8
		SMN	m <sub>B</sub> =5.6 8.0 0.78
		sS	19 46 12.0 2.8
		LN	M <sub>s</sub> =6.1 19.0 14.7
		LE	13.0 1.68
DL2	46.2 281 P	19 39 53.0	-0.2
		S	19 46 37.0 1.2
		LN	M <sub>s</sub> =6.0 17.0 6.78
		LE	17.0 6.89
BJI	48.7 285 +P	19 40 13.5	0.0
		PMZ	m <sub>B</sub> =5.9 9.0 1.63
		esP	19 40 28.0 1.6
		ePP	19 42 08.0 2.0
		eS	19 47 14.0 0.5
		SMN	m <sub>B</sub> =5.9 10.0 1.10
		SME	13.0 1.42
		esS	19 47 33.0 4.4

		eScS	19 50 03.0	3.1	WHN	56.2	278	P	19 41 08.5	-0.4			
		eSS	19 50 42.0	3.6				PMZ	$m_B = 5.9$		5.0	0.73	
		LN	$M_s = 6.3$	20.0				pP	19 41 13.0	-5.1			
		LE		23.0				sP	19 41 26.0	4.0			
TIA	50.6	281	eP	19 40 27.6	-0.4			S	19 48 56.0	2.3			
			PMZ	$m_B = 5.9$	6.0			SME	$m_B = 5.8$		9.0	1.27	
			pP	19 40 34.8	-2.2			sS	19 49 18.0	8.0			
			S	19 47 44.1	5.6			LN	$M_s = 6.0$		20.0	5.18	
			SMN	$m_B = 5.8$	10.0			LE			18.0	4.94	
			SME		15.0	1.68	XAN	57.1	285	+iP	19 41 14.9	-0.5	
			sS	19 47 57.8	3.1			S	19 49 08.5	3.1			
			LN	$M_s = 6.1$	18.0	7.44		LN	$M_s = 6.1$		16.0	2.06	
			LE		20.0	9.78		LE			18.0	9.19	
HHC	51.0	289	+P	19 40 31.3	0.6		QZH	57.5	270	eP	19 41 18.0	-0.6	
			pP	19 40 41.0	1.4					sP	19 41 30.0	-1.6	
			sP	19 40 48.0	4.6					eS	19 49 12.0	-0.8	
			PP	19 42 32.0	4.9					SMN	$m_B = 5.8$	10.0	1.01
			S	19 47 50.0	6.7					SME		10.0	0.83
			sS	19 48 05.0	5.5					LN	$M_s = 5.8$	18.0	3.24
			ScS	19 50 20.0	5.1					LE		18.0	3.01
			LN	$M_s = 6.1$	16.0	6.20	LZH	58.7	290	+iP	19 41 27.0	0.3	
			LE		16.0	6.20				PMZ		2.0	0.62
SSE	51.6	273	P	19 40 35.0	0.0					pP	19 41 38.0	2.3	
			PMZ	$m_B = 6.1$	7.0	1.78				eS	19 49 26.0	-1.9	
			pP	19 40 45.0	0.9					LE	$M_s = 6.3$	17.0	11.7
			sP	19 40 49.8	1.9		WMQ	62.1	306	+iP	19 41 50.1	0.3	
			S	19 47 56.0	4.6					PMZ		1.2	0.12
			sS	19 48 10.0	2.4					S	19 50 18.0	8.0	
			ScS	19 50 20.0	1.1					LN	$M_s = 6.8$	20.0	45.9
			SS	19 51 27.0	1.7		GZH	62.1	272	P	19 41 50.6	0.3	
			LN	$M_s = 5.9$	16.0	2.51				S	19 50 18.0	6.9	
			LE		18.0	6.14				SMN	$m_B = 5.9$	9.0	0.81
BTO	52.0	290	+iP	19 40 39.5	0.8					SME		11.0	1.29
			PMZ		2.0	1.17				LN	$M_s = 5.8$	17.0	2.32
			pP	19 40 49.5	1.8					LE		18.0	2.75
			ePP	19 42 40.0	3.3		CD2	62.4	286	P	19 41 52.0	0.2	
			ePcS	19 45 49.0	2.3					PMZ		1.2	0.24
			S	19 47 59.0	1.0					PcP	19 42 30.0	-0.2	
			SMN	$m_B = 5.8$	10.0	0.90				PP	19 44 17.6	7.3	
			SME		10.0	0.70				S	19 50 21.0	7.4	
NJ2	52.4	276	eP	19 40 39.0	-1.9					sS	19 50 36.0	5.8	
			PP	19 42 46.0	6.3					LE	$M_s = 6.2$	17.0	9.60
			S	19 48 07.5	5.3					LZ	$M_s = 6.2$	18.0	8.75
			LE	$M_s = 5.8$	16.0	4.90	GYA	63.8	280	P	19 42 01.3	-0.1	
TIY	52.5	286	+iP	19 40 42.8	0.8					sP	19 42 17.0	2.6	
			PMZ		1.4	0.29				PP	19 44 21.0	-1.6	
			S	19 48 09.5	5.5					S	19 50 36.0	4.2	
			SS	19 51 45.0	4.6					sS	19 50 52.0	3.6	
			LN	$M_s = 6.2$	17.0	2.23				LN	$M_s = 6.0$	18.0	2.90
			LE		20.0	15.2				LE		18.0	5.40



KMI	67.2	282	+P	19 42 23.0	-0.2		
			PMZ	$m_B = 5.9$	6.0	0.97	
			pP	19 42 33.0	0.8		
			PP	19 44 56.0	4.1		
			S	19 51 18.5	5.5		
			sS	19 51 36.0	6.4		
			LN	$M_S = 6.0$	20.0	5.63	
QZN	67.3	272	eP	19 42 25.3	1.4		
			PMZ	$m_B = 5.8$	11.0	1.40	
			PP	19 44 54.0	0.7		
			eS	19 51 16.0	-0.2		
			LN	$M_S = 6.0$	15.0	1.50	
			LE		19.0	4.50	
LSA	70.6	293	-iP	19 42 45.8	1.1		
			pP	19 43 02.0	8.5		
			S	19 52 02.5	8.8		
			SMN	$m_B = 6.2$	10.0	2.24	
			LN	$M_S = 5.8$	18.0	2.89	
KSH	71.1	310	+P	19 42 49.0	1.7		
			esP	19 43 06.0	5.7		
			eS	19 52 10.0	9.1		

1985 7 17

O = 20 31 15.0 ± 0.09s  
 LAT = 52.43 N ± 1.99KM  
 LONG = 158.72 E ± 1.59KM  
 DEPTH = 30 KM ± 0.13KM  
 STATIONS USED = 48, STAND DEV = 0.93s

MDJ	20.7	259	eP	20 35 55.3	-0.3		
CN2	23.7	262	+P	20 36 25.3	0.4		
SNY	25.9	260	eP	20 36 46.6	0.1		
BJI	31.5	264	eP	20 37 35.0	-1.5		
SSE	34.6	247	eP	20 38 04.5	0.5		
			PMZ		1.0	0.090	
TIY	35.2	264	eP	20 38 09.0	0.1		
NJ2	35.3	251	-iP	20 38 09.3	0.0		
XAN	39.8	263	eP	20 38 46.8	-0.4		
LZH	41.5	269	+P	20 39 02.0	0.3		
CD2	45.1	264	eP	20 39 30.5	0.0		
WMQ	46.4	289	P	20 39 41.8	0.6		
GYA	46.5	257	P	20 39 42.3	0.0		
KMI	49.9	259	eP	20 40 08.5	0.1		
QZN	50.4	248	P	20 40 14.4	2.1		

1985 7 18

O = 00 25 24.9 ± 0.14s  
 LAT = 37.16 S ± 2.74KM  
 LONG = 78.19 E ± 3.42KM  
 DEPTH = 10 KM ± 0.12KM  
 STATIONS USED = 59, STAND DEV = 1.84s

				$M_S = 5.9 / 22,$			$m_B = 5.9 / 8$
KMI	66.1	24	eP	00 36 15.0	-0.5		
			sP	00 36 22.0	-1.4		
			SMN	$m_B = 5.9$	11.0	0.72	
			SME		11.0	1.00	
			LN	$M_S = 6.0$	18.0	5.66	
LSA	67.6	12	P	00 36 24.0	-1.2		
			LN	$M_S = 6.1$	19.0	7.22	
GYA	68.7	27	P	00 36 31.6	-0.1		
			S	00 45 42.0	9.6		
			SKS	00 46 28.0	2.2		
			LN	$M_S = 5.8$	19.0	2.20	
			LE		19.0	2.90	
CD2	71.8	23	P	00 36 50.0	-0.6		
			PP	00 39 21.0	-9.7		
			S	00 46 10.0	1.2		
			SKS	00 46 42.0	-6.8		
			LE	$M_S = 5.9$	17.0	3.30	
			LZ	$M_S = 5.9$	16.0	3.19	
QZH	72.5	38	eP	00 36 57.0	2.3		
			S	00 46 26.0	9.0		
			SME	$m_B = 5.8$	10.0	0.78	
			eSKS	00 46 54.0	-0.1		
			LN	$M_S = 5.9$	18.0	2.43	
			LE		18.0	2.54	
WHN	75.4	32	eP	00 37 11.5	0.2		
			eS	00 46 49.5	-0.9		
			SME	$m_B = 5.9$	10.0	0.88	
			SKS	00 47 14.0	-0.9		
			LN	$M_S = 5.8$	16.0	2.15	
			LE		14.0	1.02	
KSH	76.3	358	eP	00 37 17.5	1.0		
			ePP	00 40 17.0	8.7		
			eS	00 47 02.0	1.6		
XAN	76.4	26	eP	00 37 15.0	-2.2		
			eS	00 47 03.0	1.3		
			SMN	$m_B = 6.1$	12.0	1.25	
			SME		12.0	1.50	
			LN	$M_S = 6.3$	17.0	6.90	
			LE		17.0	2.23	
LZH	76.7	21	eP	00 37 18.5	-0.3		
			SME	$m_B = 5.9$	11.0	1.14	
			sS	00 47 14.0	0.5		
			LN	$M_S = 5.9$	15.0	1.32	
			LE		16.0	2.36	
NJ2	78.6	34	eP	00 37 28.0	-1.5		
			SKS	00 47 36.5	-2.0		
			LE	$M_S = 5.7$	18.0	2.20	
GTA	78.8	17	P	00 37 30.6	0.3		
			S	00 47 32.0	6.6		



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CD2	28.0	92	P	05 52 40.1	1.0
			S	05 57 10.0	2.4
KMI	29.6	103	eP	05 52 53.0	-1.0
BTO	30.8	70	eP	05 53 03.5	-1.0
XAN	31.2	83	eP	05 53 05.5	-1.8
GYA	32.1	98	P	05 53 14.8	-0.7
			pP	05 53 58.8	5.7
			sP	05 54 17.4	3.0
			PcP	05 55 58.8	-0.9
			S	05 58 41.0	-1.5
			ScP	05 59 21.0	-3.3
			ScS	06 03 20.0	-2.2
TIY	33.1	75	P	05 53 24.0	-0.1
			S	05 58 28.0	-0.1
BJI	35.6	70	eP	05 53 44.0	-0.9
WHN	36.6	86	P	05 53 54.0	0.2
			ScP	05 59 37.0	-3.4
TIA	37.1	76	eP	05 53 57.3	-0.5
GZH	39.0	98	eP	05 54 14.5	0.6
NJ2	39.7	82	eP	05 54 19.3	-0.1
			ScP	05 59 48.6	-3.5
			eS	06 00 09.0	-0.4
SSE	41.9	82	iP	05 54 37.5	0.1

1985 7 18

O=16 48 52.6 ± 0.05s  
 LAT=19.49 S ± 1.38KM  
 LONG=177.06 W ± 1.69KM  
 DEPTH=504 KM ± 0.77KM  
 STATIONS USED = 15, STAND DEV= 1.15s

MDJ	80.2	324	eP	17 00 11.5	-0.4
CN2	82.0	322	-P	17 00 20.8	-0.5
BJI	85.8	315	eP	17 00 40.0	0.2
XAN	88.2	307	P	17 00 53.5	2.1

1985 7 18

O=17 40 11.2 ± 0.13s  
 LAT=30.40 N ± 1.50KM  
 LONG= 94.83 E ± 1.23KM  
 DEPTH= 20 KM  
 STATIONS USED = 58, STAND DEV= 2.32s

Ms=4.3/10, ML=4.3/4,

LSA	3.3	259	-Pn	17 41 05.6	3.2
			Pg	17 41 11.0	2.1
			LN	Ms=4.3	4.0 3.34
			LE		5.0 2.81
CD2	7.7	84	Pn	17 42 06.6	3.6
			eS	17 43 40.0	6.9
			LN	Ms=4.3	8.0 1.59
KMI	8.8	125	+P	17 42 19.5	-0.8

			eS	17 43 56.5	-3.1
LZH	9.4	51	eP	17 42 29.0	-0.7
GTA	9.9	23	eP	17 42 35.3	-0.4
			LN	Ms=3.8	9.0 0.41
GYA	11.1	108	P	17 42 51.6	-1.3
			sP	17 43 01.4	-0.6
			S	17 44 55.0	-2.3
			LN	Ms=4.3	7.0 0.90
XAN	12.5	69	eP	17 43 09.0	-1.9
WMQ	14.5	339	P	17 43 37.1	-1.3
BTO	16.0	46	eP	17 43 56.0	-1.2
TIY	16.3	59	eP	17 44 00.5	-0.6
			LE	Ms=4.0	8.0 0.22
WHN	16.8	85	eP	17 44 05.5	-2.2
			sP	17 44 15.0	-2.4
			iLG <sub>2</sub>	17 49 23.0	-3.6
			LN	Ms=4.2	10.0 0.51
HHC	17.1	48	+P	17 44 13.5	2.1
KSH	17.9	305	eP	17 44 23.0	2.0
			LN	Ms=4.3	9.0 0.46
TIA	19.5	67	eP	17 44 40.0	-0.3
BJI	19.9	55	eP	17 44 44.0	-0.5
			LN	Ms=4.3	10.0 0.29
			LE		10.0 0.33
NJ2	20.6	79	eP	17 44 53.0	0.8
SNY	25.8	56	eP	17 45 42.8	0.0
CN2	27.7	53	+P	17 46 00.0	-0.4
			pP	17 46 06.6	-0.6
			sP	17 46 11.0	0.5

1985 7 18

O=19 09 08.1 ± 0.14s  
 LAT=39.54 N ± 2.28KM  
 LONG=142.77 E ± 2.17KM  
 DEPTH= 58 KM ± 1.17KM  
 STATIONS USED = 9, STAND DEV= 3.72s

MDJ	11.0	302	eP	19 11 41.5	-4.2
			pP	19 11 48.5	-3.6
CN2	13.6	294	eP	19 12 24.4	4.0

1985 7 18

O=21 14 57.1 ± 0.05s  
 LAT=66.01 N ± 0.97KM  
 LONG= 40.91 E ± 0.56KM  
 DEPTH= 4 KM ± 0.09KM  
 STATIONS USED = 43, STAND DEV= 0.71s

WMQ	33.7	108	P	21 21 41.8	0.2
GTA	42.2	99	+iP	21 22 54.3	0.9
			PcP	21 24 48.5	1.2
LSA	47.4	115	+P	21 23 35.4	0.4

BJI	48.3	84	eP	21 23 43.0	0.8
TIY	48.8	89	eP	21 23 46.0	0.1
CN2	48.9	73	eP	21 23 46.0	-0.4
MDJ	49.8	69	eP	21 23 53.0	-0.4
SNY	49.8	76	eP	21 23 53.5	0.0
XAN	50.5	94	P	21 23 58.8	-0.3
CD2	51.2	101	P	21 24 04.6	0.5
DL2	51.5	80	P	21 24 06.3	-0.2
WHN	55.8	91	P	21 24 37.0	-1.2
GYA	56.3	101	P	21 24 41.0	-0.9
NJ2	56.3	86	eP	21 24 41.5	-0.4
SSE	58.1	85	eP	21 24 53.3	-1.3

1985 7 19

O=00 06 05.3 ± 0.10s  
 LAT=36.12 N ± 1.35KM  
 LONG= 69.81 E ± 1.42KM  
 DEPTH= 43 KM ± 0.40KM

STATIONS USED = 15, STAND DEV = 2.91s

$M_L = 4.6 / 2,$

KSH	5.9	54	iP	00 07 38.8	5.9
			SMN	$M_L = 4.5$	0.2 0.33
			SME		0.5 0.43
WMQ	15.7	55	P	00 09 46.6	1.1
GTA	23.9	73	+iP	00 11 16.3	-0.2

1985 7 19

O=00 26 08.2 ± 0.17s  
 LAT=39.89 N ± 1.49KM  
 LONG= 13.66 E ± 1.44KM  
 DEPTH=452 KM ± 0.92KM

STATIONS USED = 39, STAND DEV = 0.69s

WMQ	53.6	60	+P	00 34 47.5	-0.4
LSA	62.6	73	+P	00 35 48.8	-1.0
GTA	63.6	60	+iP	00 35 56.6	0.4
LZH	68.1	61	+P	00 36 24.5	0.4
			PMZ		1.5 0.070
CD2	71.0	65	+iP	00 36 41.8	0.5
			PMZ		1.0 0.060
XAN	72.7	60	+P	00 36 51.2	0.0
BJI	73.7	51	eP	00 36 55.0	-1.6
GYA	75.7	67	P	00 37 08.0	-0.2
CN2	76.5	44	+iP	00 37 12.3	-0.1
			epP	00 38 48.3	-2.7
SNY	76.8	46	+P	00 37 13.9	-0.2
DL2	77.6	49	eP	00 37 18.3	-0.3
MDJ	78.1	41	eP	00 37 22.0	1.0
NJ2	80.4	56	+iP	00 37 33.8	0.3

1985 7 19

O=02 38 06.8 ± 0.10s  
 LAT=30.36 N ± 1.38KM  
 LONG= 94.81 E ± 1.24KM  
 DEPTH= 15 KM ± 0.23KM  
 STATIONS USED = 31, STAND DEV = 2.37s

$M_L = 3.6 / 3,$

LSA	3.2	259	Pn	02 39 01.9	3.8
			Sg	02 39 50.0	1.5
			SME		5.0 0.87
CD2	7.7	84	eP	02 40 02.4	0.6
GTA	9.9	23	eP	02 40 35.6	3.3
GYA	11.1	108	P	02 40 47.3	-1.7
WMQ	14.6	339	eP	02 41 33.0	-1.9
WHN	16.9	84	eP	02 42 03.0	-1.1
BJI	19.9	55	eP	02 42 39.0	-2.0
SNY	25.8	56	eP	02 43 39.8	0.5
CN2	27.7	53	eP	02 43 54.3	-2.6

1985 7 19

O=10 18 27.3 ± 0.13s  
 LAT=10.77 S ± 1.50KM  
 LONG=117.48 E ± 1.69KM  
 DEPTH= 38 KM ± 0.48KM

STATIONS USED = 21, STAND DEV = 1.56s

GYA	38.5	344	eP	10 25 47.8	-0.1
WHN	41.2	356	eP	10 26 13.3	3.1
NJ2	42.6	2	-P	10 26 22.8	1.0
CD2	43.5	343	P	10 26 28.5	-0.6
BJI	50.6	359	eP	10 27 24.0	-0.7
GTA	52.6	343	P	10 27 40.3	0.4
CN2	54.8	7	eP	10 27 56.5	0.3
MDJ	56.2	10	eP	10 28 06.5	0.1

1985 7 19

O=11 32 45.3 ± 0.21s  
 LAT= 2.32 S ± 1.40KM  
 LONG=147.83 E ± 4.64KM  
 DEPTH= 25 KM

STATIONS USED = 10, STAND DEV = 1.37s

XAN	51.4	318	eP	11 41 49.9	-1.3
CD2	53.4	312	eP	11 42 05.6	-0.1
BTO	54.9	325	eP	11 42 18.0	1.0
GTA	60.5	319	P	11 42 57.1	0.6

1985 7 19

O=11 54 58.9 ± 0.14s  
 LAT= 2.21 S ± 1.86KM  
 LONG=119.85 E ± 2.46KM  
 DEPTH= 31 KM ± 0.83KM

STATIONS USED = 15, STAND DEV = 1.79s

July, 1985



GZH	25.9	346	eP	12 00 31.0	0.6
GYA	31.2	337	eP	12 01 18.6	0.4
KMI	31.8	330	+P	12 01 25.0	1.2
NJ2	34.1	358	eP	12 01 45.0	2.0
XAN	37.5	345	eP	12 02 11.3	-0.7
BJI	42.2	356	eP	12 02 51.0	0.2
GTA	45.3	338	P	12 03 17.8	1.4
WMQ	54.1	332	P	12 04 24.0	0.1

1985 7 19

O = 12 13 14.5 ± 0.09s

LAT = 19.83 N ± 1.30KM

LONG = 146.93 E ± 2.08KM

DEPTH = 39 KM ± 0.40KM

STATIONS USED = 31, STAND DEV = 1.33s

SSE	25.7	301	P	12 18 42.0	-1.6
DL2	29.0	316	eP	12 19 14.3	1.5
TIA	30.8	308	eP	12 19 27.9	-1.3
HHC	36.7	313	P	12 20 19.4	-0.6
GYA	37.5	288	eP	12 20 28.0	1.1
BTO	37.7	312	eP	12 20 28.0	-0.2
CD2	40.3	295	P	12 20 50.5	0.2
LZH	41.0	303	eP	12 20 56.5	0.3
		PMZ			1.0 0.040
GTA	44.8	306	P	12 21 27.6	0.6
WMQ	54.5	310	P	12 22 40.8	-0.3

1985 7 19

O = 13 38 01.3 ± 0.10s

LAT = 28.18 N ± 4.50KM

LONG = 141.03 E ± 6.73KM

DEPTH = 24 KM ± 4.47KM

STATIONS USED = 28, STAND DEV = 2.40s

Ms = 4.2 / 4, m<sub>B</sub> = 4.9 / 4

DL2	19.4	309	eP	13 42 32.0	3.8
			eS	13 45 56.0	-3.9
			LE	Ms = 4.1	12.0 0.34
NJ2	19.6	287	+P	13 42 29.0	-1.5
			PMZ	m <sub>B</sub> = 5.0	5.0 0.40
			S	13 46 06.0	1.8
SNY	19.7	318	eP	13 42 29.8	-2.2
CN2	20.0	325	+P	13 42 39.8	4.4
QZH	20.3	266	eP	13 42 40.0	1.2
			PMZ	m <sub>B</sub> = 5.1	4.5 0.37
			S	13 46 26.0	5.8
			SMN	m <sub>B</sub> = 4.7	6.0 0.21
			LN	Ms = 3.6	12.0 0.10
TIA	21.7	298	eP	13 42 51.0	-2.1
			S	13 46 45.5	-1.2
			LN	Ms = 4.3	15.0 0.60

WHN	23.4	282	eP	13 43 08.8	-0.4
			sP	13 43 16.8	-3.3
			cS	13 47 18.0	1.0
			LN	Ms = 4.3	13.0 0.42
BJI	23.7	306	eP	13 43 10.0	-2.1
			cS	13 47 18.0	-4.3
			SME	m <sub>B</sub> = 4.9	7.0 0.25
TIY	25.7	299	eP	13 43 32.6	0.4
XAN	28.0	290	eP	13 43 50.9	-2.4
BTO	28.3	304	eP	13 43 55.0	-0.6
GYA	30.5	275	eP	13 44 20.0	4.4
CD2	32.4	284	eP	13 44 31.4	-1.0
GTA	35.8	299	P	13 44 59.0	-2.1

1985 7 19

O = 14 34 00.7 ± 0.11s

LAT = 38.40 S ± 4.19KM

LONG = 177.70 E ± 4.55KM

DEPTH = 61 KM ± 0.70KM

STATIONS USED = 46, STAND DEV = 1.75s

Ms = 5.9 / 16, m<sub>B</sub> = 6.0 / 5

QZH	83.9	308	eP	14 46 26.0	0.1
			PP	14 49 43.0	2.7
			S	14 56 41.0	-0.4
			SMN	m <sub>B</sub> = 6.0	11.0 0.80
			SME		10.0 0.83
			LN	Ms = 5.8	21.0 1.50
			LE		25.0 2.26
QZN	85.4	298	eP	14 46 34.0	0.3
			pP	14 46 46.0	-3.3
			sP	14 46 50.0	-5.7
			PP	14 49 47.5	-5.1
			S	14 56 55.0	-1.8
			SS	15 02 36.5	0.4
			LE	Ms = 6.0	25.0 5.00
GZH	85.9	304	eP	14 46 36.5	0.7
			cS	14 57 05.0	2.3
			LN	Ms = 5.4	24.0 1.25
SSE	86.9	314	eP	14 46 41.0	0.1
			pP	14 46 53.0	-3.6
			SKS	14 57 06.0	7.7
			S	14 57 15.0	4.0
			LN	Ms = 5.5	22.0 1.28
NJ2	88.9	313	+P	14 46 50.0	-0.6
			pP	14 47 00.0	-6.4
			PP	14 50 23.0	1.4
			SKS	14 57 14.0	2.9
			S	14 57 33.5	3.5
			sS	14 57 51.5	-7.5
			LN	Ms = 6.0	23.0 2.00





			PMZ		1.5	0.070	GTA	37.4	326	P	20 23 48.9	0.5		
GTA	59.0	295	+iP	19 19 13.5						LN		Ms=4.5	21.0	0.56
			LZ		Ms=4.8	16.0	0.36	WMQ	47.2	322	P	20 25 08.0		-0.3
WMQ	62.4	306	+P	19 19 36.5										
CD2	62.6	286	P	19 19 38.5										
GYA	64.0	280	P	19 19 47.6										
LSA	70.9	294	P	19 20 31.4										
1985 7 19														
O=20 16 40.0 ± 0.08s														
LAT=10.17 N ± 1.52KM														
LONG=126.06 E ± 1.44KM														
DEPTH= 67 KM ± 0.31KM														
STATIONS USED = 64, STAND DEV= 1.03s														
Ms=4.4/ 6, m <sub>B</sub> =4.9/ 2														
QZH	16.3	335	eP	20 20 26.0										
			PP	20 20 37.0										
			S	20 23 33.5										
			SMN		m <sub>B</sub> =4.7	6.0	0.21							
			LN		Ms=4.2	17.0	0.80	LZH	9.5	51	eP	00 17 40.0		1.0
			LE			17.0	0.40	GTA	9.9	23	eP	00 17 46.8		2.0
GZH	17.7	318	eP	20 20 46.5				GYA	11.2	108	P	00 18 00.0		-2.4
			LN		Ms=4.3	20.0	1.12	XAN	12.5	69	eP	00 18 17.8		-2.6
QZN	18.0	301	P	20 20 48.0				WMQ	14.5	339	P	00 18 45.5		-1.6
			pP	20 21 00.0				TIY	16.3	59	eP	00 19 12.0		1.5
			S	20 24 03.0							S	00 22 05.0		-5.2
			LN		Ms=4.5	20.0	1.60				LE		Ms=3.9	12.0 0.27
SSE	21.3	348	+P	20 21 24.2				WHN	16.9	85	P	00 19 15.0		-2.2
NJ2	22.8	344	+P	20 21 38.5				TIA	19.5	67	eP	00 19 49.6		-0.1
			PMZ		m <sub>B</sub> =5.0	4.0	0.30	BJI	19.9	55	eP	00 19 53.0		-0.8
			LZ		Ms=4.0	18.0	0.30	SNY	25.8	56	eP	00 20 51.3		-0.7
WHN	23.0	333	eP	20 21 41.5				CN2	27.7	53	eP	00 21 08.6		-1.1
			pP	20 21 52.5										
GYA	24.5	314	-P	20 21 56.0				1985 7 20						
			pP	20 22 09.6				O=00 53 14.5 ± 0.07s						
KMI	26.7	307	eP	20 22 16.0				LAT=50.03 N ± 0.96KM						
XAN	28.5	329	+iP	20 22 29.9				LONG= 78.81 E ± 1.01KM						
DL2	28.9	353	eP	20 22 34.0				DEPTH= 5 KM ± 0.17KM						
CD2	29.2	318	eP	20 22 36.6				STATIONS USED = 85, STAND DEV= 1.01s						
TIY	30.0	338	P	20 22 45.0				Ms=4.9/ 11, M <sub>L</sub> =6.2/ 1,						
			S	20 27 40.0				WMQ	8.7	132	+iP	00 55 23.0		-1.0
			LN		Ms=4.4	15.0	0.45				S	00 57 03.0		0.0
BJI	31.0	345	eP	20 22 53.5							LG <sub>1</sub>	00 57 46.0		-1.3
SNY	31.6	356	+P	20 22 59.4							LG <sub>2</sub>	00 58 01.0		0.0
LZH	32.7	326	+P	20 23 08.5							LN		3.0	7.68
			PMZ			1.5	0.050				LE		3.0	5.32
HHC	33.1	340	+iP	20 23 13.3				KSH	10.8	192	eP	00 55 55.0		2.3
BTO	33.5	338	eP	20 23 15.0							LN		3.0	11.4
CN2	33.5	359	P	20 23 14.8				GTA	18.3	118	+iP	00 57 29.9		-0.7
MDJ	34.5	4	eP	20 23 23.5							LG <sub>2</sub>	01 03 10.0		-6.7



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TIY	34.9	308	eP	11 08 40.5	-0.6
XAN	36.5	301	eP	11 08 54.1	-1.0
HHC	36.7	313	eP	11 08 56.4	-0.2
GYA	37.5	288	P	11 09 04.3	0.9
BTO	37.7	312	eP	11 09 05.0	0.1
LZH	41.0	303	-P	11 09 32.5	-0.2
GTA	44.8	306	P	11 10 04.3	0.7

1985 7 20

O = 13 12 04.8 ± 0.12s  
 LAT = 12.62 N ± 1.93KM  
 LONG = 48.29 E ± 1.98KM  
 DEPTH = 9 KM ± 0.34KM  
 STATIONS USED = 39, STAND DEV = 1.20s  
 Ms = 5.2 / 8,

KSH	36.2	37	eP	13 19 10.0	-0.7
			LN	Ms = 5.4	10.0 2.00
WMQ	45.9	40	P	13 20 30.3	0.0
			PP	13 22 18.5	1.0
			sS	13 27 19.0	-4.4
			LN	Ms = 5.5	12.0 2.08
GTA	52.6	50	P	13 21 22.4	0.7
			LZ	Ms = 5.2	34.0 2.22
KMI	52.7	68	eP	13 21 21.5	-1.1
			pP	13 21 26.0	-1.7
			S	13 28 54.0	6.2
			LZ	Ms = 4.8	28.0 0.83
CD2	54.1	61	eP	13 21 32.1	-0.7
LZH	54.9	55	eP	13 21 37.5	-1.6
GYA	56.3	67	P	13 21 48.3	-0.5
			S	13 29 40.0	3.8
			sS	13 29 48.0	1.6
			LE	Ms = 5.2	18.0 1.20
XAN	58.8	58	eP	13 22 05.5	-0.8
BTO	60.5	50	eP	13 22 18.6	0.5
			eS	13 30 30.0	-2.4
HHC	61.7	50	eP	13 22 26.4	0.1
TIY	62.0	54	eP	13 22 27.5	-0.8
			LN	Ms = 5.4	14.0 0.77
			LE		14.0 0.73
BJI	65.1	52	eP	13 22 49.0	0.4
NJ2	67.0	60	eP	13 23 01.0	0.0
			LZ	Ms = 4.9	20.0 0.50
CN2	72.1	48	eP	13 23 32.0	-0.4
			pP	13 23 36.3	-1.5
			eS	13 32 52.0	-2.0
			eSKS	13 33 29.0	-2.2
			LE	Ms = 5.2	15.0 0.60
MDJ	75.1	47	eP	13 23 51.0	1.3

1985 7 20

O = 13 46 06.7 ± 0.15s  
 LAT = 3.31 S ± 3.11KM  
 LONG = 145.17 E ± 3.61KM  
 DEPTH = 37 KM ± 0.66KM  
 STATIONS USED = 52, STAND DEV = 1.99s  
 Ms = 5.2 / 12, m<sub>B</sub> = 5.3 / 3

QZH	38.1	319	eP	13 53 24.0	-0.5
			ePP	13 54 55.5	0.5
			S	13 59 18.0	3.9
			SMN	m <sub>B</sub> = 5.3	10.0 0.44
			SME		10.0 0.36
			LE	Ms = 5.1	17.0 1.62
GZH	40.6	312	eP	13 53 46.5	1.2
			SMN	m <sub>B</sub> = 5.5	11.0 0.42
			SME		10.0 0.86
			LE	Ms = 4.9	15.0 0.80
QZN	41.2	304	eP	13 53 56.0	5.8
			cS	14 00 11.0	9.5
			LN	Ms = 5.4	17.0 1.70
			LE		18.0 2.30
NJ2	43.1	327	-P	13 54 08.0	2.1
			S	14 00 36.0	7.5
			LN	Ms = 5.1	12.0 0.50
			LE		12.0 0.80
WHN	44.7	321	eP	13 54 19.5	1.0
			eS	14 00 58.0	5.8
			LN	Ms = 5.0	13.0 0.81
TIA	47.2	329	eP	13 54 32.0	-6.6
			eS	14 01 31.0	2.5
			LN	Ms = 5.3	15.0 1.00
			LE		13.0 1.04
GYA	47.5	311	P	13 54 42.0	0.9
SNY	49.0	339	eP	13 54 51.8	-0.6
			S	14 02 00.0	7.5
			LN	Ms = 5.3	22.0 1.12
			LE		20.0 1.92
MDJ	49.7	345	eP	13 54 57.5	-0.2
KMI	49.9	307	+P	13 55 00.0	0.4
			pP	13 55 04.0	-5.4
			S	14 02 14.0	9.0
			SME	m <sub>B</sub> = 5.3	10.0 0.44
CN2	50.1	341	eP	13 54 55.6	-5.4
			LZ	Ms = 5.4	16.0 1.90
XAN	50.5	320	eP	13 55 02.0	-1.5
			S	14 02 16.0	3.7
BJI	50.7	331	eP	13 55 03.5	-1.6
			eS	14 02 23.0	6.6
			LN	Ms = 5.4	20.0 2.47
CD2	52.1	314	P	13 55 16.4	0.5

			PMZ		1.0	0.040
			eS	14 02 41.5	5.3	
			LE	Ms=4.8	28.0	0.78
HHC	53.6	329	eP	13 55 26.6	-0.5	
BTO	54.2	327	eP	13 55 31.3	-0.5	
			eS	14 03 04.5	-0.9	
			LN	Ms=5.5	24.0	2.00
			LE		21.0	1.90
LZH	55.0	319	+P	13 55 36.5	-0.9	
			PMZ		1.5	0.050
GTA	59.5	320	+iP	13 56 09.6	0.2	
WMQ	69.6	319	P	13 57 14.3	-0.4	
			LN	Ms=5.1	13.0	0.41
KSH	76.2	312	eP	13 57 57.0	3.1	
			eS	14 07 32.0	-2.8	

1985 7 20  
 O=16 35 44.9 ± 0.36s  
 LAT= 1.15 N ± 5.27KM  
 LONG=129.67 E ± 3.99KM  
 DEPTH= 77 KM ± 0.60KM  
 STATIONS USED = 16, STAND DEV= 1.68s

GZH	27.0	325	eP	16 41 20.0	-1.4	
XAN	38.0	331	P	16 42 58.8	0.9	
CD2	38.5	323	eP	16 43 01.4	0.2	
BJI	40.6	344	eP	16 43 18.0	-1.0	
LZH	42.2	328	eP	16 43 35.5	3.1	
GTA	46.8	328	eP	16 44 10.0	0.7	

1985 7 20  
 O=17 55 46.5 ± 0.15s  
 LAT=30.27 N ± 1.65KM  
 LONG= 94.96 E ± 1.43KM  
 DEPTH= 18 KM ± 0.33KM  
 STATIONS USED = 17, STAND DEV= 2.70s  
 Ms=3.8/ 1, M<sub>L</sub>=3.6/ 2,

LSA	3.4	261	Pn	17 56 40.3	1.1	
CD2	7.6	83	eP	17 57 41.8	2.2	
GTA	9.9	22	eP	17 58 10.0	-2.2	
GYA	11.0	107	P	17 58 25.8	-0.6	
TIY	16.3	58	eP	17 59 37.4	1.2	
CN2	27.7	52	eP	18 01 32.6	-3.3	

1985 7 20  
 O=18 31 43.0 ± 0.13s  
 LAT=30.34 N ± 1.71KM  
 LONG= 94.83 E ± 1.27KM  
 DEPTH= 20 KM  
 STATIONS USED = 49, STAND DEV= 2.41s  
 Ms=4.3/ 2, M<sub>L</sub>=3.9/ 2,

LSA	3.3	260	Pn	18 32 38.4	4.4	
			Pg	18 32 44.0	3.5	
			SMN		4.0	1.86
CD2	7.7	84	eP	18 33 37.5	0.2	
			S	18 35 06.4	1.7	
KMI	8.7	125	-P	18 33 51.0	-0.6	
			S	18 35 30.0	0.1	
LZH	9.5	50	eP	18 34 04.5	2.6	
GTA	9.9	23	eP	18 34 07.0	-1.1	
GYA	11.1	107	-P	18 34 23.3	-1.1	
			pP	18 34 26.8	-3.4	
			S	18 36 27.3	-1.4	
XAN	12.5	69	eP	18 34 41.6	-1.3	
WMQ	14.6	339	P	18 35 09.5	-1.3	
BTO	16.0	46	eP	18 35 28.0	-1.5	
			eS	18 38 22.0	-4.9	
TIY	16.3	59	eP	18 35 32.5	-0.7	
			S	18 38 23.5	-9.4	

LN Ms=4.1 13.0 0.33  
 LE 14.0 0.37

WHN	16.8	84	eP	18 35 38.0	-1.5	
HHC	17.1	48	eP	18 35 46.0	2.4	
TIA	19.5	67	eP	18 36 12.3	0.0	
BJI	19.9	55	eP	18 36 18.5	1.9	
NJ2	20.6	79	+P	18 36 25.4	1.4	
SNY	25.8	56	eP	18 37 14.0	-0.8	
CN2	27.7	52	+P	18 37 32.4	-0.1	
MDJ	30.8	53	eP	18 37 55.0	-5.1	

1985 7 20  
 O=18 47 36.6 ± 0.05s  
 LAT= 5.33 N ± 0.94KM  
 LONG=125.33 E ± 1.20KM  
 DEPTH=326 KM ± 0.09KM  
 STATIONS USED = 18, STAND DEV= 0.92s

QZN	20.3	313	P	18 51 49.0	-0.8	
XAN	32.4	334	+P	18 53 36.9	-1.8	
CD2	32.5	324	eP	18 53 41.3	1.1	
BJI	35.5	348	eP	18 54 05.5	0.1	
MDJ	39.3	5	eP	18 54 38.0	1.3	
GTA	41.0	329	P	18 54 51.1	0.2	

1985 7 21  
 O=03 39 54.2 ± 0.08s  
 LAT=30.51 N ± 1.74KM  
 LONG= 94.65 E ± 0.73KM  
 DEPTH= 20 KM  
 STATIONS USED = 10, STAND DEV= 3.78s  
 M<sub>L</sub>=3.9/ 2,

LSA	3.1	256	ePn	03 40 47.2	3.5	
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CD2	129.7	9	ePKP	13 29 43.6	1.4
WHN	130.7	357	ePKP	13 29 43.6	-0.3
			PKS	13 33 06.0	
GYA	134.5	7	PKP	13 29 52.4	1.1
			PP	13 32 29.0	2.0
KMI	135.2	12	ePKP	13 29 51.5	-1.2
QZN	142.1	3	ePKP	13 30 08.0	3.0

XAN	66.1	314	P	19 04 08.9	-0.9
KMI	66.7	303	eP	19 04 14.0	0.2
HHC	68.2	322	eP	19 04 23.0	0.3
CD2	68.4	309	eP	19 04 23.8	-0.3
BTO	69.0	321	eP	19 04 28.3	0.5
LZH	70.8	314	eP	19 04 39.0	0.5
GTA	75.1	315	P	19 05 05.3	1.2
WMQ	85.2	316	eP	19 05 57.5	-0.2

1985 7 21

O=14 30 00.2 ± 0.19s  
 LAT=53.80 N ± 4.32km  
 LONG= 35.20 W ± 2.21km  
 DEPTH= 10 km ± 0.07km  
 STATIONS USED = 18, STAND DEV= 2.13s

WMQ	71.2	40	+P	14 41 24.0	1.7
GTA	79.4	34	P	14 42 09.8	0.6
BTO	81.3	26	eP	14 42 20.0	0.6
CN2	81.4	14	-P	14 42 20.0	0.4
SNY	83.0	16	eP	14 42 27.6	-0.5
BJI	83.3	22	eP	14 42 30.5	0.8
TIY	84.7	25	eP	14 42 37.8	1.3
CD2	88.5	34	P	14 42 56.2	1.2

1985 7 21

O=16 30 12.1 ± 0.29s  
 LAT=32.63 N ± 0.73km  
 LONG=121.98 E ± 3.04km  
 DEPTH= 29 km ± 1.08km  
 STATIONS USED = 5, STAND DEV= 3.35s

$M_L=3.0/2,$

SSE	1.7	204	-Pg	16 30 41.0	-0.9
			Sn	16 30 59.8	-1.9
			Sg	16 31 01.0	-4.0
NJ2	2.7	259	+iPn	16 30 56.6	2.5
			Sn	16 31 24.0	-3.4
			Sg	16 31 28.6	-8.6
			SMN	$M_L=2.7$	0.4 0.040
			SME		0.4 0.040

1985 7 21

O=18 53 30.4 ± 0.13s  
 LAT=10.07 S ± 0.99km  
 LONG=161.10 E ± 0.49km  
 DEPTH=100 km ± 1.33km  
 STATIONS USED = 33, STAND DEV= 1.15s

DL2	61.0	325	eP	19 03 41.0	4.8
MDJ	61.4	335	eP	19 03 39.0	0.0
			pP	19 04 06.0	2.6
CN2	62.6	332	+P	19 03 45.6	-1.5
			pP	19 04 11.0	-0.5

1985 7 21

O=20 33 46.5 ± 0.12s  
 LAT=39.37 N ± 1.76km  
 LONG= 72.76 E ± 1.53km  
 DEPTH= 25 km  
 STATIONS USED = 47, STAND DEV= 1.95s

$M_s=4.0/1, M_L=4.5/1,$

KSH	2.5	87	+iPn	20 34 31.0	4.8
			iSn	20 35 05.0	7.7
WMQ	12.0	64	-iP	20 36 37.0	-2.7
			SMN		2.0 0.14
			SME		1.8 0.090
GTA	20.9	81	+iP	20 38 30.4	0.6
			LE	$M_s=4.0$	11.0 0.23
LZH	24.7	88	eP	20 39 09.0	1.1
CD2	26.6	99	P	20 39 26.8	1.4
			PMZ		1.0 0.030
KMI	28.9	110	eP	20 39 48.8	2.5
XAN	29.3	89	eP	20 39 48.8	-1.2
TIY	30.9	80	eP	20 40 04.0	0.1
BJI	33.2	75	eP	20 40 23.0	-0.6
TIA	34.9	81	eP	20 40 38.7	-0.2
GZH	38.0	103	eP	20 41 05.0	0.6
CN2	39.1	66	eP	20 41 17.8	3.8

1985 7 21

O=22 34 19.4 ± 0.13s  
 LAT=48.88 N ± 1.51km  
 LONG=126.62 E ± 1.50km  
 DEPTH= 5 km ± 1.40km  
 STATIONS USED = 13, STAND DEV= 3.74s

$M_L=4.2/12,$

MDJ	4.7	153	Pg	22 35 48.3	5.3
			Sg	22 36 51.8	4.3
			SME	$M_L=4.2$	0.6 0.30
CN2	5.1	190	Pn	22 35 39.4	2.0
			Pg	22 35 59.8	9.6
			Sn	22 36 41.0	1.7
			Sg	22 37 06.4	5.8
			SMN	$M_L=4.3$	1.0 0.26
			SME		1.0 0.41



STATIONS USED = 87, STAND DEV = 1.94s							
Ms = 6.9 / 22,				m <sub>B</sub> = 6.5 / 22			
QZH	42.7	318	eP	09 34 47.4	0.2		
			PMZ		m <sub>B</sub> = 6.5	10.0	7.00
			PP	09 36 31.0	2.0		
			S	09 41 07.0	1.0		
			SMN		m <sub>B</sub> = 6.5	9.0	4.89
			SME			9.0	5.52
			LN		Ms = 6.8	23.0	57.5
			LE			20.0	64.9
GZH	45.3	311	-P	09 35 09.0	1.1		
			isP	09 35 20.0	-5.3		
			iPP	09 36 56.0	1.9		
			iS	09 41 51.0	6.9		
			isS	09 42 05.0	-0.1		
			LN		Ms = 7.0	22.0	103
			LE			22.0	55.5
SSE	45.6	326	eP	09 35 10.0	0.0		
			pP	09 35 17.0	-5.3		
			sP	09 35 27.0	-0.5		
			PP	09 36 56.0	-0.8		
			ScP	09 40 36.0	1.4		
			PcS	09 40 46.0	5.8		
			S	09 41 51.0	4.0		
			sS	09 42 03.0	-6.0		
			LN		Ms = 7.0	21.0	89.1
			LE			20.0	89.3
QZN	45.9	304	-iP	09 35 15.5	3.0		
			PP	09 37 00.0	0.1		
			PcS	09 40 46.0	4.5		
			iS	09 42 00.0	7.5		
			SMN		m <sub>B</sub> = 6.4	12.0	5.00
			SME			15.0	5.90
			sS	09 42 17.5	4.1		
			LN		Ms = 6.7	20.0	38.6
			LE			19.0	36.6
NJ2	47.6	325	+P	09 35 25.5	-0.5		
			PMZ			18.0	7.40
			PP	09 37 15.0	-1.2		
			S	09 42 25.5	9.7		
			sS	09 42 41.5	3.6		
			LZ		Ms = 6.9	25.0	96.8
WHN	49.3	320	eP	09 35 39.0	0.0		
			PMZ		m <sub>B</sub> = 6.5	10.0	6.63
			isP	09 35 51.5	-4.9		
			PcP	09 36 55.0	-5.7		
			ScP	09 40 52.0	1.9		
			S	09 42 49.0	9.7		
			SMN			13.0	6.99
			sS	09 43 04.0	2.6		
			ScS	09 45 23.0	0.6		
			LN		Ms = 6.7	18.0	27.9
			LE			20.0	33.2
DL2	51.5	333	eP	09 36 00.0	4.0		
			S	09 43 15.0	4.8		
			LN		Ms = 7.1	19.0	73.1
			LE			21.0	71.6
TIA	51.6	327	eP	09 35 55.6	-1.4		
			PMZ		m <sub>B</sub> = 6.4	9.0	4.03
			S	09 43 21.0	8.9		
			SMN			15.0	9.38
			SME			8.0	2.92
			LN		Ms = 7.0	19.0	52.3
			LE			19.0	74.2
GYA	52.2	310	P	09 36 01.3	-0.1		
			pP	09 36 15.4	1.7		
			S	09 43 21.0	1.2		
			SMN		m <sub>B</sub> = 6.4	11.0	5.30
			LN		Ms = 6.8	19.0	35.9
			LE			19.0	35.2
SNY	53.1	337	eP	09 36 07.8	-0.2		
			sP	09 36 18.0	-7.6		
			PP	09 38 12.5	3.9		
			S	09 43 41.0	9.0		
			SMN		m <sub>B</sub> = 6.6	8.0	5.96
			SME			8.0	3.50
			sS	09 43 58.0	3.5		
			LN		Ms = 6.9	17.0	38.1
			LE			17.0	35.9
MDJ	53.5	343	eP	09 36 11.0	0.1		
			PMZ		m <sub>B</sub> = 6.6	7.0	5.83
			sP	09 36 22.0	-6.5		
			PP	09 38 18.0	5.9		
			ScP	09 41 14.0	5.8		
			iS	09 43 42.0	3.5		
			SME		m <sub>B</sub> = 6.4	12.0	5.86
			sS	09 43 55.0	-4.8		
CN2	54.1	339	+P	09 36 14.5	-0.9		
			PMZ		m <sub>B</sub> = 6.6	8.0	6.30
			sP	09 36 23.5	-9.5		
			cS	09 43 47.0	0.3		
			SMN		m <sub>B</sub> = 6.6	10.0	4.40
			SME			13.0	7.70
KMI	54.6	307	eP	09 36 18.0	-1.1		
			pP	09 36 25.0	-6.3		
			sP	09 36 30.0	-6.5		
			cS	09 43 55.0	1.4		
			SMN		m <sub>B</sub> = 6.3	12.0	5.26
			LN		Ms = 6.5	17.0	21.3
BJI	55.0	330	-P	09 36 20.0	-1.9		







O = 14 27 17.8 ± 0.40s  
 LAT = 18.45 N ± 5.03km  
 LONG = 38.51 E ± 5.93km  
 DEPTH = 20 km  
 STATIONS USED = 14, STAND DEV = 2.88s

WMQ	48.2	47	eP	14 35 59.0	-0.9
GTA	56.5	55	P	14 37 02.0	0.2
KMI	59.5	71	eP	14 37 22.0	-1.2
LZH	59.6	59	eP	14 37 24.0	0.1
GYA	62.9	69	P	14 37 45.4	-0.2
BTO	64.3	53	eP	14 37 55.8	0.6
HHC	65.5	53	eP	14 38 04.0	1.3
CN2	75.3	48	eP	14 39 02.5	0.2

1985 7 22  
 O = 19 20 03.3 ± 0.20s  
 LAT = 42.04 N ± 2.14km  
 LONG = 142.57 E ± 0.47km  
 DEPTH = 74 km ± 1.87km  
 STATIONS USED = 33, STAND DEV = 1.92s

MDJ	9.8	290	eP	19 22 26.5	2.7
CN2	12.7	284	-P	19 23 03.4	1.0
BJI	20.0	273	eP	19 24 30.0	-2.5
TIA	20.5	262	eP	19 24 36.6	-1.7
XAN	27.5	264	P	19 25 46.4	0.8
GTA	32.3	280	P	19 26 28.5	0.9
WMQ	39.6	292	eP	19 27 29.0	-0.6

1985 7 22  
 O = 21 32 28.0 ± 0.13s  
 LAT = 34.45 N ± 2.58km  
 LONG = 28.36 E ± 2.25km  
 DEPTH = 21 km ± 0.19km  
 STATIONS USED = 84, STAND DEV = 1.05s  
 Ms = 4.7 / 1,

KSH	38.0	68	-iP	21 39 49.0	1.7
WMQ	46.1	60	-iP	21 40 54.0	0.9
LSA	52.7	77	-P	21 41 42.8	-1.4
GTA	56.0	62	-iP	21 42 08.3	0.4
CD2	62.2	70	P	21 42 50.6	-0.3
			PMZ		1.0 0.18
			eS	21 51 11.0	-3.0
BTO	62.9	58	-iP	21 42 55.8	0.3
HHC	63.8	57	-iP	21 43 02.0	0.1
KMI	63.9	76	eP	21 43 01.5	-1.2
XAN	64.8	65	-iP	21 43 08.6	0.6
TIY	65.8	60	-iP	21 43 14.3	-0.1
			PMZ		0.8 0.070
			LN	Ms = 4.7	11.0 0.13
			LE		11.0 0.12

GYA	66.4	73	-P	21 43 18.0	-0.8
BJI	67.4	56	-iP	21 43 24.0	-0.4
			S	21 52 17.0	0.6
TIA	69.8	60	-P	21 43 39.4	-0.1
WHN	70.5	66	-iP	21 43 43.6	0.0
SNY	71.5	52	-iP	21 43 49.0	-0.7
DL2	71.6	55	eP	21 43 50.4	-0.2
CN2	71.7	49	+P	21 43 49.8	-1.1
QZN	72.7	79	P	21 43 57.3	0.5
NJ2	73.1	63	-iP	21 43 59.1	-0.1
GZH	73.4	73	-P	21 44 02.3	1.2
MDJ	73.8	47	eP	21 44 03.8	0.3
SSE	75.3	62	-iP	21 44 11.5	-0.5
			PMZ		1.0 0.050
QZH	76.5	69	-P	21 44 18.5	-0.7

1985 7 22  
 O = 22 35 40.2 ± 0.12s  
 LAT = 24.38 N ± 1.14km  
 LONG = 102.65 E ± 1.10km  
 DEPTH = 5 km  
 STATIONS USED = 14, STAND DEV = 2.58s  
 M<sub>L</sub> = 3.9 / 4,

KMI	0.7	6	iPg	22 35 54.0	0.3
			Sg	22 36 06.0	2.3
			SMN		2.0 5.48
			SME		2.0 4.47
GYA	4.2	59	Pn	22 36 46.4	1.2
CD2	6.6	8	Pn	22 37 19.9	1.8
			Sn	22 38 36.0	0.2
QZN	8.5	127	eP	22 37 47.4	-0.4

1985 7 23  
 O = 00 34 57.8 ± 0.10s  
 LAT = 31.94 N ± 1.01km  
 LONG = 101.90 E ± 1.26km  
 DEPTH = 13 km ± 0.26km  
 STATIONS USED = 19, STAND DEV = 2.87s  
 Ms = 3.8 / 3, M<sub>L</sub> = 3.7 / 7,

CD2	1.9	122	Pg	00 35 33.0	1.6
			Sg	00 36 00.6	3.4
			SMN	M <sub>L</sub> = 3.7	1.0 0.80
			SME		1.0 0.54
LZH	4.4	21	Pn	00 36 08.0	2.4
			Pg	00 36 18.8	2.5
			Sg	00 37 20.0	2.9
			SMN		2.5 0.17
			SME		1.6 0.14
XAN	6.3	69	ePn	00 36 33.2	2.8
			Pg	00 36 55.0	6.6



NJ2	2.3	258	-Pg	12 11 10.8	0.5		
			iSg	12 11 43.5	1.4		
			SMN	$M_L=3.3$	0.4	0.16	
			SME		0.4	0.23	
TIA	5.2	316	ePg	12 12 03.8	3.5		
			eSn	12 12 43.4	-2.9		
			eSg	12 13 10.1	-0.6		
			SMN	$M_L=3.1$	0.8	0.020	
			SME		0.8	0.020	

			SMN				
			SME				
GYA	3.1	102	Pn	19 30 15.0	3.4		
CD2	3.8	6	Pn	19 30 22.4	1.1		
			Pg	19 30 32.8	3.1		
			Sn	19 31 07.0	-0.6		
			SMN	$M_L=3.1$	0.8	0.060	
			SME		0.7	0.040	

**1985 7 23**

O=17 30 53.9 ± 0.13s  
 LAT= 6.37 S ± 1.13km  
 LONG=146.86 E ± 1.21km  
 DEPTH= 98 km ± 0.98km  
 STATIONS USED = 36, STAND DEV= 1.17s

NJ2	46.6	327	eP	17 39 15.4	1.1		
GYA	50.8	312	P	17 39 49.6	2.6		
SNY	52.5	338	eP	17 39 58.3	-1.0		
MDJ	53.1	345	eP	17 40 03.0	-0.9		
KMI	53.1	308	eP	17 40 05.0	0.7		
CN2	53.6	341	eP	17 40 06.0	-1.4		
XAN	53.9	321	P	17 40 08.8	-0.9		
BJI	54.2	331	eP	17 40 10.5	-1.2		
CD2	55.4	315	eP	17 40 21.0	0.0		
LZH	58.4	320	eP	17 40 42.5	0.4		
GTA	62.9	320	-P	17 41 13.3	0.4		
WMQ	73.0	319	eP	17 42 15.3	-0.1		

**1985 7 23**

O=18 04 15.2 ± 0.05s  
 LAT=41.90 N ± 1.26km  
 LONG=127.04 W ± 0.73km  
 DEPTH= 13 km ± 0.41km  
 STATIONS USED = 17, STAND DEV= 1.24s

$M_s=4.9/1,$

GTA	88.6	326	P	18 17 11.3	1.3		
			LZ	$M_s=4.9$	32.0	0.44	
WMQ	89.1	336	eP	18 17 12.0	-0.7		
LZH	89.5	321	P	18 17 15.5	1.0		

**1985 7 23**

O=19 29 22.7 ± 0.08s  
 LAT=27.12 N ± 0.85km  
 LONG=103.29 E ± 0.85km  
 DEPTH= 14 km ± 0.18km  
 STATIONS USED = 10, STAND DEV= 3.83s

$M_L=2.8/3,$

KMI	2.1	194	ePn	19 29 59.0	1.5		
			eSn	19 30 29.5	5.0		

**1985 7 23**

O=23 51 41.1 ± 0.04s  
 LAT=30.31 N ± 1.87km  
 LONG= 50.55 E ± 0.80km  
 DEPTH= 34 km ± 0.66km  
 STATIONS USED = 34, STAND DEV= 0.77s

KSH	22.7	59	eP	23 56 42.0	0.6		
GTA	41.0	63	+iP	23 59 24.2	1.1		
CD2	45.4	75	eP	24 00 00.3	1.3		
KMI	46.2	83	-P	24 00 05.0	0.0		
XAN	49.0	70	P	24 00 26.6	-0.2		
GYA	49.1	80	P	24 00 27.0	-0.8		
TIA	55.0	65	eP	24 01 11.4	-0.7		
CN2	59.4	54	-P	24 01 42.4	-0.5		

**1985 7 24**

O=07 57 55.1 ± 0.23s  
 LAT=14.71 N ± 2.96km  
 LONG=123.76 E ± 3.19km  
 DEPTH= 31 km ± 0.31km  
 STATIONS USED = 70, STAND DEV= 2.57s

$M_s=4.8/20,$   $m_B=5.3/6$

QZH	11.3	335	eP	08 00 33.0	-4.4		
			LN	$M_s=4.5$	16.0	2.32	
			LE		16.0	1.93	
GZH	12.9	312	-P	08 00 58.5	-0.7		
			eS	08 03 27.0	4.2		
			LN	$M_s=4.9$	17.0	5.20	
			LE		18.0	3.90	
QZN	14.0	290	eP	08 01 13.0	-0.6		
			eS	08 03 55.0	6.0		
SSE	16.5	352	eP	08 01 45.0	-0.8		
			PMZ	$m_B=5.1$	7.0	0.64	
			eS	08 04 48.0	0.7		
			sS	08 05 00.0	1.3		
			LN	$M_s=4.5$	16.0	1.71	
NJ2	17.8	346	+P	08 02 05.0	2.2		
			S	08 05 18.0	0.3		
			LN	$M_s=4.5$	10.0	0.40	
			LE		12.0	0.80	
WHN	18.0	333	eP	08 02 08.5	3.9		





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**Ms=5.3 / 1,**

BJI	146.9	342	ePKP	24 15 56.5	-1.6
GTA	149.4	5	PKP	24 16 01.4	-0.9
TIY	150.1	345	ePKP	24 16 07.3	4.0
			LN	Ms=5.3	13.0 0.16
			LE		13.0 0.16
XAN	154.4	349	ePKP	24 16 14.6	5.1
KMI	163.8	2	ePKP	24 16 14.6	-6.0

1985 7 25

O=00 07 25.4 ± 0.05s  
 LAT=27.97 N ± 0.38km  
 LONG= 99.16 E ± 0.40km  
 DEPTH= 10 km  
 STATIONS USED = 5, STAND DEV= 2.28s

**M<sub>L</sub>=3.4 / 3,**

KMI	4.3	131	+Pg	00 08 40.5	-0.9
			Sg	00 09 45.0	5.4
CD2	5.0	53	ePg	00 08 53.8	0.5

1985 7 25

O=00 24 30.9 ± 0.07s  
 LAT=33.76 N ± 1.10km  
 LONG=134.80 E ± 1.57km  
 DEPTH= 45 km ± 1.47km  
 STATIONS USED = 26, STAND DEV= 1.87s

**Ms=4.2 / 2,**

MDJ	11.6	341	eP	00 27 17.5	1.2
DL2	11.8	300	eP	00 27 19.0	-0.4
CN2	12.4	327	+P	00 27 29.3	1.9
BTO	20.9	296	eP	00 29 14.0	2.3
			LN	Ms=4.8	19.0 2.10
			LE		19.0 0.70
XAN	21.5	278	eP	00 29 19.3	1.4
CD2	26.3	272	eP	00 30 05.6	0.7

1985 7 25

O=00 49 22.0 ± 0.22s  
 LAT=28.10 N ± 2.69km  
 LONG=128.27 E ± 1.70km  
 DEPTH= 25 km  
 STATIONS USED = 13, STAND DEV= 3.09s

**Ms=3.9 / 5,**

SSE	6.8	298	eP	00 51 02.5	-1.2
			eLG <sub>2</sub>	00 53 11.8	3.8
			LE	Ms=3.5	12.0 0.54
WHN	12.4	285	P	00 52 16.5	-3.5
			LG <sub>2</sub>	00 56 12.0	1.3
			LN	Ms=4.0	16.0 0.86
CN2	15.8	352	eP	00 53 01.3	-3.9

			pP	00 53 07.0	-4.5
			eS	00 55 52.0	-8.2
			LE	Ms=4.3	12.0 0.80
MDJ	16.5	3	eP	00 53 15.0	1.0
XAN	17.6	294	eP	00 53 27.7	0.2
GYA	19.3	270	P	00 53 49.0	0.9
CD2	21.5	283	eP	00 54 10.8	-0.8
GTA	26.1	303	eP	00 54 53.8	-2.5

1985 7 25

O=02 36 10.4 ± 0.25s  
 LAT=28.46 N ± 2.12km  
 LONG=128.29 E ± 2.09km  
 DEPTH= 23 km ± 0.23km  
 STATIONS USED = 39, STAND DEV= 2.39s

**Ms=4.3 / 12,**

SSE	6.7	295	eP	02 37 48.5	-1.8
			LG <sub>2</sub>	02 39 56.0	4.2
			LN	Ms=4.1	12.0 2.16
NJ2	8.9	296	eP	02 38 20.0	-1.0
			LN	Ms=4.2	10.0 1.20
QZH	9.4	250	eP	02 38 31.5	4.4
			LN	Ms=4.0	11.0 0.85
			LE		11.0 0.39
WHN	12.3	283	eP	02 39 12.5	4.8
			eS	02 41 23.0	-2.3
			LG <sub>1</sub>	02 42 37.0	-0.5
			LN	Ms=4.5	14.0 2.18
SNY	13.9	345	eP	02 39 29.0	0.7
			LN	Ms=4.6	11.5 1.36
			LE		10.0 0.99
BJI	15.3	322	eP	02 39 50.0	3.5
CN2	15.5	352	eP	02 39 50.8	1.6
			eS	02 42 42.0	1.4
			LN	Ms=4.5	11.0 1.10
MDJ	16.2	3	eP	02 39 57.5	-0.5
XAN	17.5	293	P	02 40 15.2	0.7
HHC	18.5	316	eP	02 40 26.8	-0.1
BTO	19.3	314	eP	02 40 36.0	-0.7
			S	02 44 04.0	-2.7
			LN	Ms=4.5	12.0 0.50
			LE		12.0 0.80
GYA	19.3	269	P	02 40 36.8	-0.1
CD2	21.4	283	eP	02 40 57.6	-2.0
			S	02 44 50.0	-0.8
			LN	Ms=4.9	14.0 2.25
KMI	23.0	268	eP	02 41 16.0	0.4
			eS	02 45 20.0	-1.1
			LN	Ms=4.6	14.0 1.00
GTA	25.9	302	P	02 41 41.9	-1.4









			PMZ		0.9	0.030	
			PcP	19 09 25.3	1.3		
			ScP	19 13 07.3	2.2		
			PcS	19 13 13.8	2.9		
			ScS	19 17 14.0	2.7		
GZH	37.1	246	-P	19 07 05.0	-0.1		
CD2	38.6	264	P	19 07 18.0	0.4		
			PMZ		0.8	0.11	
			S	19 13 09.5	0.7		
GYA	39.3	256	+P	19 07 23.0	-0.4		
			PcP	19 09 32.0	1.1		
KMI	42.9	258	+P	19 07 52.5	-0.4		
			pP	19 08 06.0	0.6		
WMQ	43.4	291	eP	19 07 58.0	0.6		
LSA	48.2	272	eP	19 08 35.0	-0.6		
1985 7 25							
O=23 25 10.1 ± 0.16s							
LAT=32.81 N ± 1.66km							
LONG= 92.47 E ± 1.64km							
DEPTH= 25 km							
STATIONS USED = 41, STAND DEV= 2.83s							
Ms=4.2/ 9, ML=4.4/ 3,							
LSA	3.3	200	-Pn	23 26 06.3	5.0		
			SME		ML=4.6	1.6	1.78
GTA	8.9	40	P	23 27 19.3	-0.7		
			LE		Ms=4.0	8.0	0.68
CD2	9.8	98	eP	23 27 32.5	-0.1		
			eS	23 29 20.0	-2.9		
			LE		Ms=4.5	8.0	1.72
LZH	9.9	68	eP	23 27 35.0	0.0		
			LE		Ms=4.2	8.0	0.82
WMQ	11.6	343	eP	23 27 53.0	-4.7		
KMI	11.8	128	+P	23 27 59.5	-0.9		
			eS	23 30 06.0	-6.6		
			LN		Ms=4.2	8.0	0.61
XAN	13.8	80	eP	23 28 25.4	-1.4		
GYA	13.9	113	P	23 28 24.4	-3.4		
TIY	17.0	68	P	23 29 07.3	-1.1		
			S	23 32 13.0	-2.0		
			LN		Ms=4.1	10.0	0.36
HHC	17.2	57	eP	23 29 12.0	0.7		
WHN	18.8	91	P	23 29 31.0	1.1		
			eS	23 32 52.0	-3.1		
			LN		Ms=4.3	14.0	0.68
TIA	20.6	74	eP	23 29 47.5	-2.7		
			LN		Ms=4.2	11.0	0.40
SNY	26.2	61	eP	23 30 44.0	-1.2		
CN2	27.9	57	-P	23 31 01.3	0.3		
			eS	23 35 36.0	-5.9		

			LN		Ms=4.6	13.0	0.60
1985 7 26							
O=04 27 20.5 ± 0.04s							
LAT= 7.19 S ± 0.64km							
LONG=124.42 E ± 1.07km							
DEPTH= 563 km ± 0.25km							
STATIONS USED = 15, STAND DEV= 0.88s							
GYA	37.6	333	P	04 33 50.8	1.1		
CD2	42.7	333	+iP	04 34 31.3	0.6		
XAN	43.6	341	eP	04 34 35.6	-1.4		
1985 7 26							
O=06 09 51.4 ± 0.13s							
LAT=30.39 N ± 1.61km							
LONG= 94.93 E ± 1.31km							
DEPTH= 14 km ± 0.07km							
STATIONS USED = 63, STAND DEV= 2.82s							
Ms=4.1/ 10, ML=4.4/ 4,							
LSA	3.3	259	Pn	06 10 48.3	4.0		
			Pg	06 10 53.0	2.4		
			SME		6.0	1.91	
CD2	7.6	84	ePn	06 11 46.3	3.7		
			Sn	06 13 10.0	-1.2		
			LN		Ms=4.2	8.0	1.38
KMI	8.7	125	eP	06 11 58.0	-2.1		
			S	06 13 38.0	-0.2		
			LN		Ms=4.2	6.0	0.84
LZH	9.4	50	eP	06 12 10.5	0.9		
GTA	9.8	23	P	06 12 15.8	-0.3		
			LN		Ms=4.0	6.5	0.43
GYA	11.0	108	P	06 12 31.4	-1.1		
XAN	12.4	69	eP	06 12 50.3	-0.4		
			eLG <sub>2</sub>	06 16 40.0	-0.3		
WMQ	14.6	339	P	06 13 18.0	-1.8		
BTO	15.9	46	eP	06 13 35.5	-1.9		
			eS	06 16 30.0	-4.2		
			LN		Ms=4.0	12.0	0.30
			LE		12.0	0.20	
TIY	16.2	59	eP	06 13 42.0	0.9		
			LE		Ms=3.9	9.0	0.22
WHN	16.7	85	eP	06 13 46.3	-1.2		
			SS	06 17 08.0	-4.2		
			LG <sub>2</sub>	06 19 06.8	2.8		
			LE		Ms=4.2	13.0	0.59
HHC	17.1	48	eP	06 13 50.0	-1.5		
KSH	18.0	305	eP	06 14 04.0	1.2		
			eS	06 17 22.0	1.4		
TIA	19.4	67	eP	06 14 19.0	-1.3		
BJI	19.8	55	eP	06 14 25.0	0.3		



		ePP	12 31 20.0	-0.3		
		eS	12 37 34.0	-4.5		
		eSS	12 41 50.0	-5.2		
		LN	Ms=5.2	25.0	1.10	
BJI	69.1	321	eP	12 29 10.0	-0.4	
			pP	12 29 24.5	3.7	
GYA	69.2	304	+P	12 29 11.0	0.3	
TIY	70.2	317	+iP	12 29 17.5	0.3	
XAN	70.8	312	+iP	12 29 20.5	-0.3	
			pP	12 29 35.0	3.9	
			eS	12 38 30.0	-2.2	
KMI	71.9	301	+iP	12 29 28.0	0.7	
			PMZ		3.0	0.85
			pP	12 29 41.0	3.6	
			sP	12 29 47.0	5.3	
			S	12 38 48.0	5.1	
			LZ	Ms=5.3	28.0	1.62
HHC	72.5	319	+iP	12 29 30.0	-0.8	
CD2	73.3	307	+iP	12 29 36.0	0.2	
			PMZ		1.2	0.11
			pP	12 29 47.0	1.0	
			S	12 39 00.0	0.5	
			LE	Ms=5.5	22.0	1.67
			LZ	Ms=5.7	25.0	3.06
BTO	73.3	318	+iP	12 29 36.0	0.1	
			PMZ		2.0	0.73
			pP	12 29 49.0	2.9	
			S	12 38 57.5	-2.2	
			LN	Ms=5.4	21.0	0.90
			LE		21.0	1.00
LZH	75.5	312	+iP	12 29 49.0	0.8	
			PMZ		2.0	0.31
			pP	12 30 00.5	2.2	
			eS	12 39 24.0	-1.1	
			LE	Ms=5.0	22.0	0.48
GTA	79.8	314	+iP	12 30 13.3	1.2	
			PP	12 33 12.0	-1.6	
			S	12 40 13.0	3.7	
			LE	Ms=5.4	30.0	1.52
WMQ	89.8	315	-iP	12 31 01.8	-0.4	
			PP	12 34 33.3	-2.7	
			eSKS	12 41 25.0	-1.5	
			eS	12 41 46.0	-3.8	
KSH	97.5	309	eP	12 31 39.0	1.5	

1985 7 26

O=12 27 58.5 ± 0.07s  
 LAT=14.52 S ± 0.54km  
 LONG=167.53 E ± 0.81km  
 DEPTH=179 km ± 0.48km

STATIONS USED = 12, STAND DEV = 0.89s  
 TIA 69.4 318 eP 12 38 48.5 -0.8  
 CN2 69.6 329 +P 12 38 50.5 -0.3

1985 7 26

O=13 26 17.6 ± 0.04s  
 LAT=34.57 N ± 0.65km  
 LONG=23.47 E ± 0.74km  
 DEPTH=34 km ± 0.15km

STATIONS USED = 15, STAND DEV = 0.89s

WMQ 49.5 59 P 13 35 07.0 -0.4  
 CD2 65.9 68 P 13 37 03.0 0.2  
 CN2 74.6 47 +P 13 37 54.5 -1.2

1985 7 26

O=17 56 58.1 ± 0.36s  
 LAT=5.33 S ± 4.17km  
 LONG=78.67 W ± 5.41km  
 DEPTH=15 km ± 2.14km

STATIONS USED = 47, STAND DEV = 2.99s

CN2 136.2 335 ePKP 18 16 18.5 -1.7  
 WMQ 139.8 15 PKP 18 16 27.0 0.0  
 BJI 142.9 341 ePKP 18 16 29.5 -2.8  
 BTO 144.0 349 ePKP 18 16 32.0 -2.3  
 TIA 146.0 337 +PKP 18 16 37.8 0.1  
 GTA 146.0 2 iP 18 16 38.8 0.9  
 TIY 146.2 344 PKP 18 16 39.5 1.4  
 SSE 148.3 326 +PKP 18 16 44.0 2.6  
 XAN 150.6 347 +PKP 18 16 45.3 0.2  
 CD2 154.5 355 ePKP 18 16 52.0 1.4  
 GYA 158.4 347 PKP 18 16 56.8 0.9  
 KMI 160.3 356 ePKP 18 16 59.0 0.9  
 QZN 164.1 329 ePKP 18 17 02.0 0.4

1985 7 26

O=23 50 46.0 ± 0.11s  
 LAT=20.82 N ± 1.39km  
 LONG=121.14 E ± 1.52km  
 DEPTH=33 km ± 0.25km

STATIONS USED = 48, STAND DEV = 1.81s

Ms=4.3/11, ML=4.2/8,

QZH 4.7 331 +Pn 23 51 56.0 0.5  
 iSn 23 52 47.3 -3.5  
 SMN ML=3.9 0.6 0.16  
 SME 0.4 0.17  
 LN 3.0 1.10  
 GZH 7.6 289 -iP 23 52 35.5 -1.6  
 S 23 53 53.8 -8.8  
 SMN ML=4.5 0.9 0.25  
 SME 0.9 0.10



				1985 7 27				1985 7 27			
			LN	Ms=4.1	14.0	0.86		Sg	03 02 03.5	0.4	
			LE		14.0	1.81		SMN	M <sub>L</sub> =3.8	1.0	3.60
SSE	10.2	0	eP	23 53 14.5	0.7			SME		1.0	3.30
			eS	23 55 12.0	3.5		CD2	5.1 9 cPn	03 03 02.3	3.3	
			LN	Ms=3.8	12.0	0.53					
QZN	10.8	262	eP	23 53 19.5	-1.8						
			eS	23 55 20.0	-1.9						
			LN	Ms=4.2	15.0	0.70					
			LE		17.0	1.40					
WHN	11.5	329	eP	23 53 28.5	-1.9						
			LG <sub>1</sub>	23 56 40.0	-5.7						
			LG <sub>2</sub>	23 57 08.0	4.1						
			LN	Ms=4.2	15.0	1.24	LSA	3.3 259 +Pn	07 31 29.0	3.0	
GYA	14.4	296	P	23 54 09.2	-0.6			LE	Ms=3.9	5.0	1.89
TIA	15.7	348	eP	23 54 29.8	2.8		CD2	7.7 84 cPn	07 32 30.8	4.0	
			eS	23 57 27.0	6.5			LE	Ms=4.2	8.0	1.24
			LN	Ms=4.2	20.0	0.72	KMI	8.7 125 cP	07 32 43.0	-0.6	
			LE		20.0	0.59		pP	07 32 50.0	-0.1	
XAN	17.0	323	eP	23 54 44.5	0.9			eS	07 34 18.5	-3.6	
			eS	23 57 58.0	7.1			SMN		2.0	0.46
			LN	Ms=4.4	12.0	0.75		SME		2.5	0.49
			LE		12.0	0.55	LZH	9.5 51 cP	07 32 55.0	1.4	
KMI	17.5	288	eP	23 54 49.5	0.2		XAN	12.5 69 cP	07 33 33.0	-1.6	
TIY	18.4	338	eP	23 55 03.5	2.3		WMQ	14.6 339 P	07 34 01.0	-1.4	
			LN	Ms=4.3	12.0	0.58	BTO	16.0 46 cP	07 34 20.0	-1.0	
			LE		12.0	0.21		eS	07 37 16.0	-1.6	
CD2	18.6	306	eP	23 55 03.0	0.3		TIY	16.3 59 cP	07 34 21.8	-2.9	
			LE	Ms=4.8	16.0	2.34	WHN	16.8 84 cP	07 34 30.3	-0.9	
BJI	19.6	349	eP	23 55 15.0	0.3			LG <sub>2</sub>	07 39 47.0	-4.7	
LZH	21.5	319	eP	23 55 36.0	1.9			LN	Ms=4.4	10.0	0.41
			eS	23 59 32.0	6.4			LE		7.0	0.42
			LN	Ms=4.3	11.0	0.40	KSH	17.9 306 eP	07 34 45.0	0.3	
BTO	21.9	337	eP	23 55 41.0	2.8		TIA	19.5 67 eP	07 35 04.5	0.8	
			eS	23 59 39.0	5.7		BJI	19.9 55 eP	07 35 08.0	0.1	
			LN	Ms=4.4	16.0	0.60	NJ2	20.6 79 eP	07 35 14.8	-0.7	
			LE		16.0	0.60	SNY	25.8 56 -P	07 36 06.3	0.2	
CN2	23.2	8	eP	23 55 47.8	-3.3		CN2	27.7 53 -P	07 36 23.5	-0.3	
			eS	23 59 53.0	-3.9						
			LE	Ms=4.4	15.0	0.60					
MDJ	24.7	15	eP	23 56 03.5	-2.7						
GTA	26.0	320	eP	23 56 19.8	1.3						
1985 7 27				1985 7 27				1985 7 27			
O=03 01 41.1 ± 0.07s				O=07 38 21.6 ± 0.26s				O=07 38 21.6 ± 0.26s			
LAT=25.82 N ± 0.53km				LAT=26.69 S ± 3.06km				LAT=26.69 S ± 3.06km			
LONG=102.85 E ± 0.56km				LONG=84.68 E ± 7.20km				LONG=84.68 E ± 7.20km			
DEPTH=4 km ± 0.22km				DEPTH=8 km ± 0.65km				DEPTH=8 km ± 0.65km			
STATIONS USED = 5, STAND DEV = 4.09s				STATIONS USED = 26, STAND DEV = 2.39s				STATIONS USED = 26, STAND DEV = 2.39s			
M <sub>L</sub> =3.6 / 2,											
KMI	0.7	188	+Pg	03 01 53.5	-0.3		LSA	56.4 7 cP	07 48 12.5	5.4	
							CD2	60.1 19 cP	07 48 31.3	-1.2	
							XAN	64.6 22 +P	07 49 01.3	-1.4	
							LZH	65.0 17 cP	07 49 04.0	-1.3	
							KSH	66.3 353 cP	07 49 13.5	0.0	
							GTA	67.3 13 P	07 49 19.5	-0.2	

WMQ 70.2 2 P 07 49 37.0 -1.0  
 CN2 79.5 29 eP 07 50 33.0 1.8  
 MDJ 82.0 31 eP 07 50 45.5 1.2

1985 7 27

O=09 50 50.9 ± 0.17s

LAT=32.90 N ± 0.85km

LONG=139.95 E ± 0.93km

DEPTH=157 km ± 1.39km

STATIONS USED = 20, STAND DEV = 1.34s

MDJ 14.2 328 eP 09 54 06.0 -0.1  
 CN2 15.7 318 P 09 54 26.0 0.9  
 SNY 15.8 309 -P 09 54 27.0 1.4  
 BJI 20.4 297 P 09 55 16.5 -0.6  
 XAN 25.9 281 eP 09 56 08.8 -1.3

1985 7 27

O=11 30 16.2 ± 0.48s

LAT=21.74 N ± 3.22km

LONG=122.15 E ± 2.58km

DEPTH=10 km

STATIONS USED = 10, STAND DEV = 2.34s

 $M_L=4.0/8,$ 

QZH 4.6 315 -iPn 11 31 26.8 1.1  
 SMN  $M_L=4.2$  0.3 0.47  
 SME 0.3 0.22

BJI 18.9 346 P 11 34 39.0 -1.0

1985 7 27

O=12 57 17.7 ± 0.05s

LAT=41.18 N ± 0.58km

LONG=114.57 E ± 0.41km

DEPTH=15 km ± 0.05km

STATIONS USED = 6, STAND DEV = 2.08s

 $M_L=3.0/5,$ 

BJI 1.7 132 ePg 12 57 48.0 0.7  
 eSg 12 58 10.5 0.3  
 SMN  $M_L=3.3$  0.5 0.36  
 SME 0.5 0.34  
 BTO 3.5 262 ePg 12 58 19.2 -0.5  
 Sg 12 59 03.0 -4.3  
 SMN  $M_L=2.7$  0.4 0.030  
 SME 0.4 0.010

1985 7 27

O=16 26 45.5 ± 0.21s

LAT=27.17 S ± 6.35km

LONG=113.30 W ± 4.61km

DEPTH=6 km ± 0.86km

STATIONS USED = 48, STAND DEV = 2.94s

 $M_s=6.0/9,$ 

MDJ 127.4 307 ePKP 16 45 48.5 -4.1  
 LZ  $M_s=5.9$  30.0 2.35  
 BJI 137.3 301 ePKP 16 46 08.0 -3.2  
 ePP 16 48 52.0 -6.7  
 eSS 17 07 08.0 4.2  
 LE  $M_s=5.9$  18.0 1.20  
 QZN 139.7 268 PKP 16 46 20.0 4.5  
 PP 16 49 19.0 5.6  
 PKS 16 50 00.0  
 SKKS 16 55 53.0  
 TIY 140.3 297 ePKP 16 46 20.0 3.2  
 LN  $M_s=5.7$  22.0 1.03  
 BTO 142.0 302 ePKP 16 46 17.0 -2.7  
 PP 16 49 23.0 -4.4  
 LN  $M_s=6.0$  18.0 1.20  
 LE 18.0 1.00  
 XAN 143.2 291 ePKP 16 46 18.0 -3.8  
 GYA 144.4 278 PKP 16 46 22.0 -1.9  
 LE  $M_s=6.2$  20.0 2.80  
 LZH 147.3 295 ePKP 16 46 30.5 1.6  
 LE  $M_s=5.8$  20.0 1.23  
 CD2 147.5 286 ePKP 16 46 28.0 -1.1  
 KMI 147.7 275 ePKP 16 46 31.0 1.5  
 PKP<sub>2</sub> 16 46 43.0  
 LZ  $M_s=6.0$  28.0 2.20  
 GTA 149.9 302 -iPKP 16 46 37.3 4.2  
 LE  $M_s=6.0$  20.0 1.60  
 WMQ 156.3 320 PKP 16 46 44.0 2.1  
 LSA 158.4 282 ePKP 16 46 44.0 -1.1  
 KSH 165.5 330 ePKP 16 46 57.0 4.9  
 LN  $M_s=6.4$  17.0 4.20

1985 7 27

O=17 17 00.9 ± 0.07s

LAT=24.24 N ± 1.30km

LONG=125.30 E ± 1.21km

DEPTH=55 km ± 1.36km

STATIONS USED = 44, STAND DEV = 1.69s

 $M_s=3.8/4, M_L=3.6/2,$ 

QZH 6.1 278 eP 17 18 29.5 -1.9  
 LE  $M_s=3.5$  11.0 0.55  
 SSE 7.7 333 eP 17 18 52.8 -0.8  
 LN  $M_s=3.9$  16.0 1.00  
 LE 16.0 1.10  
 DL2 14.9 349 P 17 20 35.0 4.5  
 LE  $M_s=4.5$  20.0 2.22  
 XAN 17.3 308 eP 17 21 01.5 1.1  
 TIY 17.4 324 eP 17 21 02.8 1.7  
 BJI 17.5 336 eP 17 21 03.0 -0.1

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SNY	17.6	356	eP	17 21 04.0	0.1
CN2	19.5	0	P	17 21 24.8	-1.7
HHC	20.2	328	+iP	17 21 33.0	-0.6
CD2	20.2	294	eP	17 21 34.0	0.0
KMI	20.5	277	eP	17 21 39.0	1.5
LZH	21.9	308	eP	17 21 51.5	-0.2
GTA	26.3	311	P	17 22 32.5	-1.1

1985 7 27

O=18 43 44.7 ± 0.10s  
 LAT=15.23 S ± 0.70km  
 LONG=167.83 E ± 1.53km  
 DEPTH=137 km ± 0.51km  
 STATIONS USED = 22, STAND DEV= 0.95s

MDJ	69.0	332	eP	18 54 38.0	0.3
DL2	69.0	323	eP	18 54 37.0	-1.0
CN2	70.4	329	+iP	18 54 45.8	-0.3
GYA	72.4	305	P	18 54 58.6	-0.1
BJI	73.0	321	eP	18 55 00.5	-1.3
XAN	74.4	312	+P	18 55 10.0	-0.2
KMI	75.0	302	eP	18 55 14.5	0.7
CD2	76.7	307	eP	18 55 24.3	1.0
GTA	83.4	314	P	18 56 00.0	1.2

1985 7 27

O=19 02 15.6 ± 0.12s  
 LAT= 4.23 S ± 1.09km  
 LONG=152.47 E ± 0.69km  
 DEPTH=118 km ± 1.27km  
 STATIONS USED = 37, STAND DEV= 1.27s

MDJ	52.8	340	eP	19 11 18.0	-3.2
CN2	53.6	336	-P	19 11 25.0	-2.6
			PcP	19 12 31.5	-0.2
			ScP	19 16 21.3	4.5
BJI	55.2	326	eP	19 11 38.0	-1.2
TIY	55.9	322	eP	19 11 44.0	0.1
XAN	56.0	316	eP	19 11 44.8	0.2
KMI	56.4	304	eP	19 11 49.5	1.8
CD2	58.1	310	eP	19 12 00.8	1.1
BTO	59.1	323	eP	19 12 07.0	0.1
LZH	60.6	316	eP	19 12 17.5	0.7
GTA	65.0	317	P	19 12 47.3	1.2
WMQ	75.1	317	P	19 13 47.5	0.3

1985 7 27

O=21 57 35.7 ± 0.08s  
 LAT=24.74 N ± 1.08km  
 LONG=114.69 E ± 0.81km  
 DEPTH= 11 km ± 0.24km  
 STATIONS USED = 15, STAND DEV= 2.02s

M<sub>L</sub> = 3.7 / 13,

GZH	2.1	217	ePn	21 58 13.6	3.0
			Pg	21 58 16.4	4.4
			Sg	21 58 43.1	3.0
			SMN	M <sub>L</sub> =3.7	0.5 0.58
			SME		0.5 0.63
QZH	3.6	86	ePn	58 30.0	-1.2
			Sn	59 10.0	-5.2
			LG <sub>1</sub>	1 59 25.0	-2.3
			SMN	M <sub>L</sub> =3.7	0.7 0.26
			SMF		0.6 0.13
QZN	7.2	219	ePr	21 59 22.6	0.6
GYA	7.4	285	Pr	21 59 26.8	1.9

1985 7 27

O=22 40 47.2 ± 0.07s  
 LAT= 7.59 S ± 0.92km  
 LONG=127.84 E ± 2.09km  
 DEPTH= 32 km ± 0.23km  
 STATIONS USED = 23, STAND DEV= 1.39s

KMI	40.7	324	eP	22 48 28.0	1.1
CD2	44.7	330	eP	22 49 00.0	0.5
XAN	45.1	338	eP	22 49 01.8	-1.1
BJI	48.6	348	eP	22 49 31.0	0.8
LZH	49.0	334	eP	22 49 33.5	0.3
GTA	53.5	333	P	22 50 07.7	0.3
WMQ	62.7	328	eP	22 51 11.8	-0.5

1985 7 28

O=00 00 21.9 ± 0.06s  
 LAT= 7.60 S ± 0.92km  
 LONG=127.52 E ± 1.34km  
 DEPTH= 31 km ± 0.11km  
 STATIONS USED = 22, STAND DEV= 1.24s

GYA	39.4	330	P	00 07 54.0	2.6
KMI	40.5	324	eP	00 08 01.5	1.3
CD2	44.5	330	+iP	00 08 34.2	1.1
XAN	45.0	338	eP	00 08 36.0	-0.8
LZH	48.8	334	-P	00 09 07.5	0.6
GTA	53.4	333	P	00 09 41.0	-0.2
WMQ	62.6	329	P	00 10 45.0	-1.0

1985 7 28

O=07 39 44.7 ± 0.38s  
 LAT=32.66 S ± 4.08km  
 LONG=122.46 E ± 2.60km  
 DEPTH= 19 km ± 1.23km  
 STATIONS USED = 37, STAND DEV= 3.05s

QZH	57.4	356	-P	07 49 36.3	1.3
GYA	60.7	344	P	07 50 00.0	2.0



WHN	63.3	352	eP	07 50 16.8	1.3		
SSE	63.4	359	-iP	07 50 18.0	1.9		
			PMZ			1.0	0.040
CD2	65.6	342	P	07 50 32.3	1.6		
XAN	67.5	348	eP	07 50 41.3	-1.5		
LZH	70.6	344	eP	07 51 04.0	2.4		
DL2	71.2	359	eP	07 51 06.5	1.3		
BJI	72.6	355	eP	07 51 15.0	1.7		
SNY	74.1	1	eP	07 51 23.5	1.0		
GTA	74.7	342	P	07 51 27.8	1.7		
CN2	76.1	2	-P	07 51 34.3	0.2		
MDJ	77.2	5	eP	07 51 40.5	0.5		
WMQ	82.5	335	+P	07 52 10.0	1.6		

1985 7 28

O=10 53 38.5 ± 0.06s  
 LAT= 5.97 S ± 0.78km  
 LONG=132.37 E ± 1.17km  
 DEPTH= 34 km ± 0.09km

STATIONS USED = 22, STAND DEV = 1.19s

GYA	40.7	323	P	11 01 19.0	0.6		
KMI	42.3	318	+P	11 01 32.0	1.0		
			pP	11 01 46.0	5.7		
XAN	45.6	332	eP	11 01 57.0	-0.5		
BJI	48.2	343	eP	11 02 18.0	0.2		
GTA	54.3	329	+iP	11 03 05.0	0.9		
WMQ	63.9	325	+P	11 04 11.0	0.4		

1985 7 28

O=11 31 56.1 ± 0.10s  
 LAT=40.19 N ± 1.12km  
 LONG=114.92 E ± 0.94km  
 DEPTH= 13 km ± 0.10km

STATIONS USED = 21, STAND DEV = 3.28s

						M <sub>L</sub> =3.9 / 18,	
BJI	1.0	99	-iPg	11 32 12.0	-1.5		
			Sg	11 32 25.0	-1.9		
			SMN			M <sub>L</sub> =4.3	0.5 6.54
			SME				0.5 6.70
HHC	2.6	285	Pn	11 32 42.0	3.0		
			Sn	11 33 17.5	4.9		
			SMN			M <sub>L</sub> =3.9	0.6 0.45
			SME				0.8 0.76
TIY	3.1	219	Pn	11 32 44.3	-1.5		
			Pg	11 32 50.5	-1.1		
			Sg	11 33 29.5	-5.1		
			SMN			M <sub>L</sub> =4.2	0.6 0.62
			SME				0.4 0.95
BTO	3.8	278	ePg	11 33 02.5	-0.3		
			Sg	11 33 50.5	-3.6		

						SMN	M <sub>L</sub> =3.6	0.3	0.17
						SME		0.3	0.090
TIA	4.3	156	ePn	11 33 03.5	1.4				
			Pg	11 33 11.5	-1.2				
			eSn	11 33 55.5	1.0				
			eSg	11 34 03.8	-8.2				
			SMN			M <sub>L</sub> =3.7		0.5	0.11
			SME					0.5	0.16
SNY	6.8	73	ePg	11 33 56.0	0.6				
			Sg	11 35 26.8	-0.8				
			SMN			M <sub>L</sub> =4.1		1.0	0.12
			SME					1.0	0.050
XAN	7.8	220	ePn	11 33 51.0	1.4				
			Pg	11 34 17.5	3.9				
			eSg	11 35 53.8	-6.2				
			SMN			M <sub>L</sub> =3.6		1.0	0.020
			SME					1.0	0.020

1985 7 28

O=12 25 19.6 ± 0.11s  
 LAT=11.82 S ± 0.80km  
 LONG=166.76 E ± 2.29km  
 DEPTH=192 km ± 0.30km

STATIONS USED = 43, STAND DEV = 0.85s

SSE	61.1	316	+P	12 35 15.5	-0.6				
			PMZ					0.6	0.020
NJ2	63.3	315	eP	12 35 30.0	-0.5				
MDJ	65.5	332	eP	12 35 44.5	-0.5				
DL2	65.7	323	eP	12 35 46.0	-0.2				
CN2	66.9	329	+iP	12 35 53.5	-0.5				
GYA	69.7	304	P	12 36 11.2	0.1				
BJI	69.7	321	eP	12 36 11.0	-0.2				
XAN	71.4	312	+iP	12 36 21.0	-0.3				
KMI	72.4	301	+P	12 36 28.0	0.6				
CD2	73.9	307	eP	12 36 36.3	0.4				
LZH	76.0	312	+P	12 36 49.5	1.2				
			PMZ					1.0	0.040
GTA	80.3	314	+P	12 37 12.8	1.1				
WMQ	90.3	315	P	12 38 00.5	-0.6				

1985 7 28

O=14 20 22.2 ± 0.31s  
 LAT=35.75 N ± 2.06km  
 LONG= 77.96 E ± 3.54km  
 DEPTH= 20 km

STATIONS USED = 12, STAND DEV = 4.90s

						M <sub>L</sub> =4.2 / 3,			
KSH	4.0	338	ePg	14 21 34.0	0.6				
			Sg	14 22 28.0	-0.1				
			SME					2.0	6.10



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GTA 17.7 72 P 14 24 32.8 3.0  
 GYA 26.2 103 eP 14 26 05.0 7.0

1985 7 28

O=14 42 09.8 ± 0.13s  
 LAT= 4.85 S ± 1.24km  
 LONG=151.90 E ± 0.02km  
 DEPTH=121 km ± 1.17km

STATIONS USED = 34, STAND DEV= 1.24s

QZN 47.7 301 P 14 50 39.5 2.7  
 MDJ 53.2 340 eP 14 51 16.5 -1.6  
 CN2 54.0 336 eP 14 51 23.5 -0.6  
 XAN 56.0 317 +P 14 51 38.8 -0.3  
 CD2 58.1 311 +iP 14 51 54.5 1.0  
 LZH 60.6 316 +P 14 52 12.0 0.8  
 GTA 65.1 318 +iP 14 52 41.3 0.8  
 WMQ 75.2 318 +P 14 53 42.0 0.4

1985 7 28

O=14 45 40.2 ± 0.16s  
 LAT=30.23 N ± 2.21km  
 LONG= 88.64 E ± 1.83km  
 DEPTH= 31 km ± 0.16km

STATIONS USED = 30, STAND DEV= 2.98s

Ms=4.2/ 1, ML=3.9/ 1,

LSA 2.2 103 +Pn 14 46 17.0 0.9  
 Pg 14 46 20.5 0.4  
 Sn 14 46 48.0 4.3  
 SMN ML=3.9 1.4 0.82  
 GTA 13.0 42 P 14 48 42.8 -2.5  
 CD2 13.0 83 eP 14 48 49.0 2.7  
 KMI 13.5 109 eP 14 48 53.0 0.7  
 GYA 16.3 99 P 14 49 29.6 0.8  
 XAN 17.6 72 eP 14 49 42.0 -2.9  
 BTO 20.2 53 eP 14 50 15.0 -0.7  
 TIY 21.1 63 eP 14 50 23.5 -1.0  
 HHC 21.4 54 eP 14 50 32.0 4.2  
 WHN 22.2 83 eP 14 50 39.0 3.6  
 QZN 22.2 115 P 14 50 39.5 3.5  
 BJI 24.5 59 eP 14 51 02.5 4.6

1985 7 28

O=18 05 45.3 ± 0.07s  
 LAT=37.04 N ± 1.89km  
 LONG=141.14 E ± 1.54km  
 DEPTH= 68 km ± 1.18km

STATIONS USED = 52, STAND DEV= 1.63s

Ms=3.7/ 1,

MDJ 11.6 314 +iP 18 08 34.0 4.3  
 CN2 13.7 304 +P 18 08 58.5 0.1

SNY 14.4 295 eP 18 09 07.5 0.5  
 eS 18 11 41.0 -4.3  
 LE Ms=3.7 21.0 0.37

DL2 15.5 283 eP 18 09 22.8 1.4  
 NJ2 19.0 261 eP 18 10 03.3 -1.2  
 BJI 19.7 286 eP 18 10 11.5 -0.9  
 TIY 22.8 280 eP 18 10 40.5 -2.8  
 WHN 23.1 262 eP 18 10 47.0 0.4  
 HHC 23.3 289 eP 18 10 50.0 2.1  
 XAN 26.3 273 eP 18 11 16.0 -1.0  
 GZH 27.7 248 eP 18 11 31.2 2.0  
 LZH 29.9 280 +P 18 11 49.0 0.0  
 GYA 31.0 260 P 18 11 58.6 -0.6  
 CD2 31.5 270 eP 18 12 03.8 0.8  
 GTA 32.4 287 P 18 12 10.8 -0.1  
 PcP 18 14 59.0 2.3  
 KMI 34.7 261 eP 18 12 31.0 -0.7  
 WMQ 40.6 297 +P 18 13 22.3 1.4

1985 7 28

O=19 08 48.5 ± 0.05s  
 LAT=10.47 N ± 1.52km  
 LONG= 93.77 E ± 1.31km  
 DEPTH= 83 km ± 1.76km

STATIONS USED = 13, STAND DEV= 1.17s

KMI 16.9 29 eP 19 12 40.0 -1.3  
 GYA 20.0 36 P 19 13 17.6 0.0  
 CD2 22.4 23 eP 19 13 41.0 0.1  
 XAN 27.3 28 eP 19 14 26.0 -1.4  
 GTA 29.3 10 eP 19 14 46.0 0.0  
 WMQ 33.6 352 +P 19 15 24.0 0.2  
 BJI 35.5 30 eP 19 15 40.0 0.2  
 SNY 40.7 35 eP 19 16 23.8 0.7  
 CN2 43.1 34 -P 19 16 42.5 0.2

1985 7 28

O=19 33 20.5 ± 0.08s  
 LAT=37.40 N ± 1.68km  
 LONG=140.45 E ± 1.44km  
 DEPTH= 94 km ± 0.75km

STATIONS USED = 88, STAND DEV= 1.56s

mb=5.7/ 6

MDJ 10.9 315 eP 19 35 57.0 1.7  
 PMZ mb=5.9 4.0 0.92  
 sP 19 36 22.0 0.9  
 S 19 37 59.0 3.2  
 SMN mb=4.7 6.0 0.44  
 SS 19 38 18.0 5.9  
 LE 12.0 0.86  
 CN2 13.1 304 -iP 19 36 24.5 0.6

		PMZ	$m_B = 5.9$	4.0	0.70			eS	19 42 14.0	2.0		
		sP	19 36 51.0	0.6				LN			15.0	0.58
		eS	19 38 49.0	1.6		BTO	23.8 287	+P	19 38 26.0	0.0		
		esS	19 39 09.0	2.4				pP	19 38 48.0	2.0		
SNY	13.7 294	-iP	19 36 34.5	2.0				S	19 42 33.0	1.8		
		sP	19 36 58.0	-1.3				LN			12.0	0.40
		S	19 39 11.0	8.2				LE			12.0	0.60
		sS	19 39 28.0	5.4		XAN	25.8 272	+iP	19 38 44.0	-0.5		
		LN			11.0	0.65		pP	19 39 03.5	-1.3		
		LE			13.0	1.06		eS	19 43 10.0	5.3		
DL2	14.9 282	-P	19 36 49.0	1.6		GZH	27.3 246	+iP	19 39 00.0	1.4		
		sP	19 37 16.0	1.5				pP	19 39 19.0	-0.2		
		eS	19 39 33.0	2.5				sP	19 39 28.0	-2.7		
		LN			10.0	0.29		S	19 43 31.0	2.0		
		LE			14.0	0.92	LZH	29.2 279	+P	19 39 16.5	0.1	
SSE	17.1 254	eP	19 37 15.0	-0.3				PMZ			1.5	0.34
		PMZ			3.0	1.22		pP	19 39 36.5	-0.4		
NJ2	18.5 260	+P	19 37 31.5	-0.7				eS	19 44 01.0	-0.4		
		PMZ			3.0	1.00		LN			11.0	0.83
		pP	19 37 48.0	0.1		CD2	30.9 269	eP	19 39 30.3	-0.6		
		sP	19 37 59.0	-1.9				S	19 44 19.0	-7.3		
		S	19 40 49.0	-2.9				LN			11.0	0.77
		LE			14.0	1.00	GTA	31.7 286	P	19 39 37.3	-0.8	
TIA	18.7 273	eP	19 37 33.5	-0.9				LZ			12.0	0.42
		pP	19 37 53.5	3.3		QZN	32.4 244	P	19 39 45.0	1.3		
		esP	19 38 03.0	-0.2				pP	19 40 04.0	-0.8		
		LN			13.0	1.89		sP	19 40 13.0	-3.2		
BJI	19.1 285	eP	19 37 36.5	-2.3				eS	19 44 52.0	1.6		
		epP	19 37 57.0	1.9				sS	19 45 27.5	0.4		
		esP	19 38 09.0	0.9		KMI	34.3 260	-P	19 39 59.5	-0.7		
TIY	22.2 279	eP	19 38 09.0	-1.3				PMZ			2.0	0.74
		PMZ			1.1	0.16		pP	19 40 21.5	0.4		
		sP	19 38 40.0	-1.6				PP	19 41 18.0	1.2		
		S	19 42 07.0	4.1				eS	19 45 19.0	-0.9		
		SMN	$m_B = 5.2$		11.0	0.65	WMQ	40.0 296	eP	19 40 48.5	0.4	
		LN			13.0	0.33		pP	19 41 11.0	1.4		
		LE			12.0	0.69		PP	19 42 29.5	4.9		
QZH	22.4 243	eP	19 38 10.0	-2.1				PcP	19 42 50.5	-1.0		
		pP	19 38 29.0	-2.9				S	19 46 51.0	5.4		
		S	19 42 03.0	-3.5				SMN	$m_B = 5.5$		5.0	0.47
		LE			16.0	0.46		ScS	19 50 40.0	-2.5		
HHC	22.6 288	+P	19 38 14.3	-0.3		KSH	49.6 293	+iP	19 42 06.0	1.3		
		PP	19 38 48.0	1.1				ePcP	19 43 25.0	0.5		
		eS	19 42 12.0	0.3				eS	19 49 10.0	5.3		
		SS	19 43 02.0	1.9				SME	$m_B = 6.2$		4.0	1.30
		LN			10.0	0.23						
		LE			10.0	0.35						
WHN	22.7 260	eP	19 38 15.0	0.3								
		pP	19 38 35.5	0.8								
		sP	19 38 48.5	2.1								

1985 7 28  
 O = 22 47 12.0 ± 0.09s  
 LAT = 10.28 N ± 1.34km  
 LONG = 93.72 E ± 1.22km

<b>DEPTH = 33 km ± 0.05km</b> <b>STATIONS USED = 40, STAND DEV = 1.45s</b> <b>Ms = 4.6 / 2,</b>						
QZN	17.8	59	eP	22 51 21.0	1.4	
			sP	22 51 37.0	5.2	
			eS	22 54 41.0	5.9	
			LN	Ms = 4.5	10.0	0.70
			LE		10.0	0.50
LSA	19.5	353	eP	22 51 38.8	-0.7	
GYA	20.2	36	P	22 51 48.2	0.9	
CD2	22.5	23	eP	22 52 11.0	0.2	
			eS	22 56 17.0	5.5	
			LE	Ms = 4.6	10.0	0.72
LZH	27.3	18	eP	22 52 55.5	-0.5	
XAN	27.4	28	-P	22 52 55.5	-1.9	
WHN	27.8	41	eP	22 53 03.5	2.7	
GTA	29.5	10	eP	22 53 16.8	0.8	
KSH	33.1	334	eP	22 53 45.3	-2.1	
WMQ	33.8	352	eP	22 53 53.5	-0.3	
SNY	40.9	35	eP	22 54 53.0	-0.3	
CN2	43.2	34	-P	22 55 12.5	0.0	
			pP	22 55 19.0	-2.8	
<b>1985 7 28</b>						
<b>O = 22 59 53.1 ± 0.27s</b>						
<b>LAT = 60.21 S ± 9.02km</b>						
<b>LONG = 26.61 W ± 10.05km</b>						
<b>DEPTH = 33 km ± 1.00km</b>						
<b>STATIONS USED = 73, STAND DEV = 3.63s</b>						
<b>Ms = 6.4 / 19, m<sub>B</sub> = 6.2 / 5</b>						
QZN	128.5	124	+PKP	23 18 55.0	-3.0	
			PP	23 21 04.0	-3.0	
			LE		12.0	1.20
			eSKS	23 26 05.0	1.8	
			eSKKS	23 27 37.0		
			LN	Ms = 6.5	17.0	2.60
			LE		17.0	4.40
LSA	129.0	98	PKP	23 18 55.0	-4.3	
			PP	23 21 11.0	1.0	
			LN	Ms = 6.2	17.0	1.96
			LE		18.0	2.33
KSH	129.2	77	ePKP	23 19 03.0	3.5	
			LE	Ms = 7.2	15.0	21.4
KMI	130.8	112	ePKP	23 19 03.0	0.6	
			sPKP	23 19 17.5		
			PP	23 21 25.0	3.6	
			SKS	23 26 07.0	-0.2	
			LN	Ms = 6.5	20.0	6.65
GZH	133.6	125	+PKP	23 19 11.0	3.4	
GYA	133.7	115	PKP	23 19 10.8	2.9	
CD2	136.1	109	ePKP	23 19 15.5	3.2	
QZH	137.4	130	ePKP	23 19 08.0	-6.5	
			sPKP	23 19 20.0		
			ePP	23 21 57.0	-5.4	
			LN	Ms = 6.1	18.0	2.16
WMQ	138.3	83	ePKP	23 19 17.5	1.1	
			PP	23 22 11.0	2.1	
			LN	Ms = 6.4	36.0	8.33
LZH	140.4	105	ePKP	23 19 16.5	-3.7	
			ePP	23 22 18.0	-3.4	
			eSKKS	23 29 12.0		
			LE	Ms = 6.3	16.0	2.95
WHN	140.6	121	ePKP	23 19 13.5	-6.9	
			sPKP	23 19 28.0		
			PP	23 22 16.0	-6.6	
			PPMZ	m <sub>B</sub> = 6.2	8.0	1.15
			LN	Ms = 6.4	20.0	4.85
GTA	141.0	98	ePKP	23 19 14.3	-7.1	
XAN	141.1	112	PKP	23 19 15.5	-5.9	
			PP	23 22 18.0	-7.8	
			LN	Ms = 6.4	16.0	2.34
			LE		16.0	2.80
XJ2	143.8	125	-PKP	23 19 27.0	1.1	
			PP	23 22 42.0	0.3	
			LZ	Ms = 6.5	18.0	5.50
SSE	143.9	129	ePKP	23 19 25.0	-1.0	
			pPKP	23 19 35.0	-0.6	
			sPKP	23 19 40.0		
			LN	Ms = 6.4	16.0	2.75
			LE		16.0	2.75
TIY	145.8	112	ePKP	23 19 30.8	1.3	
			pPKP	23 19 43.5	4.5	
			PP	23 23 02.5	8.9	
			SKKS	23 29 36.0		
			SS	23 41 43.0	1.7	
			LN	Ms = 6.4	19.0	3.53
			LE		19.0	2.31
TIA	146.6	120	PKP	23 19 33.5	2.6	
			PP	23 23 00.0	1.2	
			PPMZ	m <sub>B</sub> = 6.4	9.5	2.34
			SKKS	23 29 49.0		
			SS	23 41 54.0	2.4	
BTO	146.9	107	-PKP	23 19 35.0	3.5	
			pPKP	23 19 45.0	4.0	
			SKKS	23 29 56.0		
			LN	Ms = 6.5	19.0	5.20
			LE		18.0	1.50
HHC	147.9	108	ePKP	23 19 35.5	2.5	
			PPMZ	m <sub>B</sub> = 6.4	10.0	2.23
			LN	Ms = 6.4	22.0	4.33

BJI	149.4	114	ePKP	23 19 38.0	2.8		
			ePKP <sub>2</sub>	23 19 51.0			
			ePP	23 23 22.0	7.9		
			eSKS	23 26 42.0	5.3		
			eSKKS	23 30 10.0			
			LN	Ms=6.6	19.0	6.34	
DL2	150.8	123	ePKP	23 19 40.0	2.5		
			PKS	23 23 13.0			
			LN	Ms=6.4	18.0	2.66	
			LE		18.0	2.67	
SNY	154.1	122	ePKP	23 19 43.8	1.6		
			PKP <sub>2</sub>	23 20 09.0			
			pPKP <sub>2</sub>	23 20 34.0			
			PP	23 23 44.0	2.6		
			pPP	23 24 09.0			
			SKKS	23 33 58.0			
			SS	23 43 22.0	8.2		
			LN	Ms=6.5	20.0	1.93	
			LE		21.0	5.85	
CN2	156.5	122	-PKP	23 19 45.0	-0.4		
			pPKP	23 19 55.0	-0.1		
			PKP <sub>2</sub>	23 20 14.0			
			pPKP <sub>2</sub>	23 20 24.0			
			ePP	23 23 52.5	-2.1		
			PPMZ	m <sub>B</sub> =6.0	8.5	1.00	
			eSKS	23 26 47.0	2.1		
			eSKKS	23 30 40.0			
			SS	23 43 35.0	-4.9		
			LN	Ms=6.5	20.0	5.20	
MDJ	158.9	127	ePKP	23 19 49.0	0.5		
			pPKP	23 19 59.0	0.9		
			PKP <sub>2</sub>	23 20 22.0			
			pPKP <sub>2</sub>	23 20 33.0			
			PP	23 24 03.0	-4.3		
			PPMZ	m <sub>B</sub> =6.1	12.0	1.85	
			SKS	23 26 45.0	-2.3		
			LZ	Ms=6.3	24.0	4.52	

1985 7 29

O=05 06 58.0 ± 0.74s  
 LAT= 7.70 N ± 8.92km  
 LONG= 94.09 E ± 3.52km  
 DEPTH= 23 km  
 STATIONS USED = 7, STAND DEV= 2.36s

LSA	22.1	353	P	05 11 55.5	1.7		
GYA	22.2	31	P	05 11 55.6	1.2		
CD2	24.8	20	eP	05 12 20.0	-0.1		
XAN	29.6	26	eP	05 13 02.0	-1.8		
WMQ	36.4	352	eP	05 14 02.0	-1.4		
CN2	45.2	32	eP	05 15 17.8	2.1		

			pP	05 15 25.3	2.1		
1985 7 29							
			O=05 36 30.8	± 0.31s			
			LAT=10.02 N	± 3.74km			
			LONG= 94.17 E	± 1.80km			
			DEPTH= 28 km	± 0.61km			
			STATIONS USED = 6,	STAND DEV= 1.75s			
GYA	20.2	34	P	05 41 08.0	1.7		
CD2	22.6	22	eP	05 41 31.0	0.0		
XAN	27.5	27	eP	05 42 15.3	-1.8		
WMQ	34.1	352	eP	05 43 16.0	-0.1		
CN2	43.2	33	+P	05 44 31.5	-0.3		
			pP	05 44 39.0	-1.2		
1985 7 29							
			O=06 32 16.7	± 0.27s			
			LAT=56.05 N	± 3.28km			
			LONG=164.46 E	± 2.60km			
			DEPTH= 32 km	± 1.22km			
			STATIONS USED = 63,	STAND DEV= 1.68s			
			Ms=5.8 / 19,				
MDJ	24.7	257	eP	06 37 35.0	-1.9		
			sP	06 37 47.0	-2.7		
			PP	06 38 10.0	-3.3		
CN2	27.6	260	+P	06 38 00.3	-2.7		
			ePP	06 38 46.0	-4.9		
			eS	06 42 36.0	-4.7		
			LN	Ms=5.6	15.0	7.60	
SNY	29.9	259	-iP	06 38 22.5	-1.4		
			LN	Ms=5.7	17.0	7.35	
			LE		18.0	5.76	
DL2	33.0	257	eP	06 38 49.5	-1.7		
			LN	Ms=5.9	18.0	10.7	
			LE		16.0	5.20	
BJI	35.2	264	eP	06 39 09.0	-1.3		
			eS	06 44 36.0	-5.1		
			LN	Ms=5.8	15.0	6.50	
			LE		15.0	5.61	
HHC	37.2	269	P	06 39 27.3	-0.3		
			eS	06 45 09.0	-3.6		
			LN	Ms=5.9	15.0	5.91	
			LE		15.0	5.86	
TIA	37.4	258	+P	06 39 27.5	-1.4		
BTO	38.3	270	eP	06 39 35.0	-1.3		
			eS	06 45 22.0	-6.4		
			LN	Ms=6.0	16.0	10.7	
			LE		16.0	6.30	
TIY	38.9	264	eP	06 39 41.0	-0.6		
			eS	06 45 35.0	-3.1		





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				DEPTH = 69 km ± 0.26km			
	sS	08 09 10.0	-4.2				
	LN		16.0 123	STATIONS USED = 12, STAND DEV = 2.80s			
	LE		12.0 63.8	WMQ	14.8 55 eP	09 59 16.3	0.0
QZH	42.2 92 +iP	08 02 29.0	-0.5	LSA	18.1 106 P	09 59 57.0	-1.6
	PMZ		13.0 28.5	GTA	22.9 74 eP	10 00 50.3	1.9
	PP	08 04 09.0	-2.1	1985 7 29			
	iS	08 08 40.0	-3.0	O	11 14 59.9	± 0.11s	
	SMN	m <sub>B</sub> = 7.4	11.0 51.8	LAT	= 36.31 N	± 1.82km	
	SME		14.0 67.4	LONG	= 70.93 E	± 1.45km	
	SS	08 11 41.0	-7.6	DEPTH	= 82 km	± 0.10km	
	LN		14.5 90.1	STATIONS USED = 45, STAND DEV = 1.72s			
	LE		14.5 64.9	M <sub>L</sub> = 5.0 / 1, m <sub>B</sub> = 5.1 / 1			
MDJ	44.6 60 +P	08 02 48.0	-0.9	KSH	5.1 50 eP	11 16 19.5	4.1
	PMZ	m <sub>B</sub> = 6.7	6.0 6.14		eS	11 17 17.6	4.2
	pP	08 03 13.0	2.6		SMN	M <sub>L</sub> = 5.0	0.5 2.60
	ScP	08 08 12.0	-0.3		SME		0.5 1.20
	PcS	08 08 23.0	0.9	WMQ	14.9 55 eP	11 18 25.8	-1.2
	iS	08 09 17.0	-0.7		S	11 21 02.0	-7.3
	SME	m <sub>B</sub> = 7.1	12.0 39.1		SMN	m <sub>B</sub> = 5.1	4.0 0.36
	sS	08 09 59.0	3.7	LSA	18.2 105 P	11 19 07.0	-1.8
	SS	08 12 36.0	4.1	GTA	23.0 74 P	11 20 00.0	1.7
	LZ		16.0 191		IN		1.2 0.020
1985 7 29				LZH	26.5 81 eP	11 20 32.0	0.1
O = 08 29 07.7 ± 0.06s				CD2	27.8 92 eP	11 20 44.0	0.5
LAT = 36.23 N ± 1.12km				KMI	29.4 103 eP	11 20 57.0	-1.2
LONG = 71.03 E ± 0.84km				XAN	31.0 83 eP	11 21 11.0	-1.2
DEPTH = 102 km ± 0.30km				GYA	31.9 98 P	11 21 19.2	-0.8
STATIONS USED = 21, STAND DEV = 1.60s				TIY	33.0 75 eP	11 21 29.0	-0.4
M <sub>L</sub> = 5.5 / 1,				BJI	35.5 70 eP	11 21 50.5	-0.2
KSH	5.1 49 eP	08 30 27.0	3.9	TIA	37.0 76 eP	11 22 04.0	0.7
WMQ	14.8 54 P	08 32 32.8	-0.8	GZH	38.8 98 eP	11 22 19.8	1.0
LSA	18.1 105 +P	08 33 14.5	0.2	1985 7 29			
BJI	35.4 70 eP	08 35 56.5	0.4	O = 11 30 54.7 ± 0.11s			
QZN	38.1 106 eP	08 36 20.3	1.5	LAT = 36.34 N ± 1.54km			
SSE	41.7 82 eP	08 36 49.8	1.6	LONG = 70.97 E ± 1.32km			
1985 7 29				DEPTH = 85 km ± 0.05km			
O = 09 52 27.6 ± 0.15s				STATIONS USED = 50, STAND DEV = 1.66s			
LAT = 36.43 N ± 1.95km				M <sub>s</sub> = 5.1 / 1, m <sub>B</sub> = 5.3 / 1			
LONG = 71.19 E ± 1.90km				KSH	5.0 50 eP	11 32 14.0	4.3
DEPTH = 90 km ± 1.11km					S	11 33 10.5	3.7
STATIONS USED = 13, STAND DEV = 3.23s					LI	M <sub>s</sub> = 5.1	4.0 10.1
WMQ	14.6 55 eP	09 55 43.5	-7.7	WMQ	14.6 55 eP	11 34 20.0	-1.2
GTA	22.7 74 P	09 57 27.3	4.3		S	11 36 56.0	-7.0
1985 7 29					SMN		3.0 0.60
O = 09 55 49.1 ± 0.08s					18.1 106 P	11 35 02.0	-1.3
LAT = 36.33 N ± 0.93km					S	11 38 11.0	-7.7
LONG = 70.99 E ± 0.84km					SMN	m <sub>B</sub> = 5.3	4.0 0.37
				GTA	22.9 74 P	11 35 53.5	0.9

LZH	26.5	81	eP	11 36 29.0	2.8
CD2	27.8	92	eP	11 36 38.3	0.4
KMI	29.4	103	eP	11 36 51.5	-1.1
XAN	31.0	83	eP	11 37 07.3	0.8
GYA	31.9	98	eP	11 37 16.0	1.6
TIY	32.9	75	eP	11 37 24.5	0.8
BJI	35.4	70	eP	11 37 44.0	-0.9
TIA	36.9	76	eP	11 37 57.5	-0.1
GZH	38.8	98	P	11 38 14.0	0.9
SNY	40.7	66	eP	11 38 29.3	0.7

1985 7 29

O=12 42 37.7 ± 0.12s  
 LAT=36.32 N ± 1.68km  
 LONG= 71.13 E ± 1.37km  
 DEPTH= 85 km ± 0.45km  
 STATIONS USED = 54, STAND DEV= 2.02s

$m_B = 5.0 / 1$

KSH	5.0	49	eP	12 43 55.0	3.5
			eS	12 44 52.0	4.0
WMQ	14.7	54	-P	12 46 01.5	-1.4
			S	12 48 37.3	-6.4
			SMN	$m_B = 5.0$	4.0 0.36
			LN		1.5 0.090
LSA	18.0	106	+P	12 46 43.5	-1.2
GTA	22.8	74	P	12 47 36.3	1.9
LZH	26.3	81	eP	12 48 10.5	2.6
CD2	27.6	92	eP	12 48 20.5	0.9
XAN	30.8	83	eP	12 48 47.5	-0.8
GYA	31.7	98	P	12 48 55.8	-0.4
TIY	32.8	75	eP	12 49 06.0	0.4
BJI	35.3	70	eP	12 49 27.0	0.1
DL2	39.7	71	eP	12 50 02.8	-0.5
SNY	40.6	66	eP	12 50 09.5	-1.2
CN2	41.6	62	+P	12 50 19.0	-0.2

1985 7 29

O=15 17 42.1 ± 0.09s  
 LAT=36.37 N ± 1.07km  
 LONG= 70.91 E ± 1.20km  
 DEPTH=100 km ± 0.40km  
 STATIONS USED = 13, STAND DEV= 2.05s

$M_L = 4.8 / 1,$

KSH	5.1	51	P	15 19 01.5	4.3
			SMN	$M_L = 4.8$	0.5 1.40
			SME		0.4 0.93
WMQ	14.8	55	eP	15 21 07.0	-1.0
LSA	18.2	106	P	15 21 51.3	1.0
GTA	23.0	74	eP	15 22 40.0	1.1

1985 7 29

O=15 58 33.6 ± 0.12s  
 LAT=36.23 N ± 1.86km  
 LONG= 71.23 E ± 1.51km  
 DEPTH= 79 km ± 0.09km

STATIONS USED = 39, STAND DEV= 1.41s

$M_L = 4.9 / 2,$

KSH	5.0	48	P	15 59 51.0	3.6
			SMN	$M_L = 4.8$	0.7 1.28
			SME		0.6 1.04
WMQ	14.7	54	eP	16 01 58.5	-0.5
			eS	16 04 35.0	-5.6
			LN		1.5 0.050
LSA	17.9	106	P	16 02 40.0	0.2
GTA	22.8	73	P	16 03 32.0	1.6
LZH	26.3	81	eP	16 04 05.0	1.1
CD2	27.5	92	eP	16 04 16.8	1.4
KMI	29.2	103	eP	16 04 30.0	0.0
XAN	30.8	83	eP	16 04 43.5	-0.8
GYA	31.6	98	P	16 04 51.8	-0.1
TIY	32.8	75	eP	16 05 02.5	0.8
BJI	35.3	70	P	16 05 23.0	-0.1

1985 7 29

O=20 10 24.3 ± 0.08s  
 LAT=36.34 N ± 1.15km  
 LONG= 70.99 E ± 1.00km  
 DEPTH= 83 km ± 0.24km

STATIONS USED = 22, STAND DEV= 1.58s

KSH	5.0	50	eP	20 11 43.0	3.9
			S	20 12 40.0	4.0
WMQ	14.8	55	eP	20 13 50.0	-0.6
LSA	18.1	106	P	20 14 31.3	-1.5
GTA	22.9	74	P	20 15 24.0	1.8
GYA	31.8	98	P	20 16 43.8	-0.2

1985 7 29

O=23 59 57.1 ± 0.06s  
 LAT= 1.37 N ± 0.96km  
 LONG=126.71 E ± 1.29km  
 DEPTH= 34 km ± 0.24km

STATIONS USED = 10, STAND DEV= 1.59s

XAN	36.5	335	eP	24 07 00.0	-1.7
BJI	39.7	347	eP	24 07 26.5	-1.4
SNY	40.4	356	eP	24 07 36.3	2.5
WMQ	54.6	326	P	24 09 25.5	0.0

1985 7 30

O=02 49 39.6 ± 0.07s  
 LAT=36.28 N ± 1.07km



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LONG = 71.00 E ± 0.93km  
 DEPTH = 97 km ± 0.44km  
 STATIONS USED = 17, STAND DEV = 2.77s

$M_L = 4.9 / 2,$

KSH	5.1	50	eP	02 50 58.5	3.8		
			SMN			0.3	1.52
			SME			0.5	1.21
WMQ	14.8	54	eP	02 53 04.5	-1.1		
			S	02 55 41.0	-6.2		
			SMN			2.0	0.050
GTA	22.9	73	P	02 54 38.5	2.2		

1985 7 30  
 O = 05 35 36.8 ± 0.07s  
 LAT = 44.76 N ± 2.37km  
 LONG = 149.45 E ± 1.24km  
 DEPTH = 38 km ± 0.51km  
 STATIONS USED = 19, STAND DEV = 1.61s

MDJ	14.1	276	eP	05 38 54.0	-2.6		
CN2	17.2	275	+P	05 39 36.5	0.4		
SNY	19.0	270	eP	05 39 57.0	-1.6		
BJI	24.9	271	eP	05 40 59.0	0.9		
HHC	27.9	275	+iP	05 41 29.0	3.1		
XAN	32.8	265	eP	05 42 08.5	-0.6		
LZH	35.4	272	eP	05 42 31.3	-0.3		
GTA	36.8	279	P	05 42 43.5	0.4		
CD2	38.1	265	eP	05 42 53.8	-0.9		
WMQ	43.3	291	eP	05 43 37.0	0.1		

1985 7 30  
 O = 13 42 18.9 ± 0.07s  
 LAT = 4.47 N ± 1.49km  
 LONG = 96.52 E ± 0.68km  
 DEPTH = 165 km ± 1.35km  
 STATIONS USED = 17, STAND DEV = 1.23s

QZN	19.5	41	eP	13 46 35.5	0.3		
KMI	21.4	16	eP	13 46 57.0	2.2		
GYA	23.9	23	P	13 47 20.0	0.7		
CD2	27.2	14	P	13 47 48.5	-0.8		
XAN	31.6	20	+P	13 48 27.0	-1.7		
GTA	34.9	4	P	13 48 56.5	-0.6		
SNY	44.4	29	eP	13 50 14.3	-0.5		
CN2	46.7	29	+P	13 50 32.5	-1.2		

1985 7 30  
 O = 14 16 53.4 ± 0.12s  
 LAT = 36.41 N ± 1.83km  
 LONG = 70.98 E ± 1.45km  
 DEPTH = 94 km ± 0.15km  
 STATIONS USED = 57, STAND DEV = 1.59s

KSH	5.0	51	eP	14 18 11.0	3.4		
			S	14 19 09.0	4.9		
WMQ	14.8	55	+P	14 20 17.5	-1.3		
			S	14 22 54.5	-5.3		
			SME			1.5	0.13
LSA	18.2	106	P	14 21 00.3	-1.2		
			S	14 24 18.5	1.7		
GTA	22.9	74	+P	14 21 51.3	1.1		
LZH	26.4	81	eP	14 22 25.0	1.2		
CD2	27.7	92	P	14 22 37.8	2.1		
KMI	29.4	104	eP	14 22 49.5	-1.1		
XAN	31.0	83	eP	14 23 04.0	-0.2		
GYA	31.9	98	P	14 23 12.6	0.4		
TIY	32.9	75	eP	14 23 20.0	-1.3		
			LN			14.0	0.58
BJI	35.4	70	eP	14 23 42.0	-0.5		
QZN	38.2	106	eP	14 24 04.8	-1.2		
DL2	39.8	71	eP	14 24 19.0	0.1		
SNY	40.6	66	+iP	14 24 26.8	0.7		
CN2	41.7	62	-P	14 24 34.5	-0.1		
MDJ	44.5	61	eP	14 24 56.0	-1.3		

1985 7 30  
 O = 14 30 38.0 ± 0.28s  
 LAT = 22.93 N ± 2.90km  
 LONG = 120.21 E ± 2.25km  
 DEPTH = 25 km ± 0.12km  
 STATIONS USED = 25, STAND DEV = 3.54s

$M_s = 4.2 / 1, M_L = 4.2 / 9,$

QZH	2.5	324	+Pn	14 31 19.8	2.3		
			Pg	14 31 27.5	5.3		
			iSn	14 31 50.8	2.0		
			SMN			$M_L = 4.0$	0.4 0.90
			SME				0.4 0.82
GZH	6.3	273	ePn	14 32 16.0	5.8		
			Sn	14 33 29.0	5.3		
			SMN			$M_L = 4.3$	0.8 0.22
			SME				0.8 0.16
SSE	8.2	6	eP	14 32 37.5	-0.7		
			LG <sub>1</sub>	14 35 04.0	8.9		
			SMN			$M_L = 4.2$	1.0 0.050
			SME				1.0 0.060
WHN	9.2	327	P	14 32 52.5	0.0		
			LG <sub>1</sub>	14 35 31.0	3.5		
			SMN				1.0 0.030
			SME				1.0 0.030
GYA	12.8	289	eP	14 33 47.5	5.9		
CD2	16.7	302	eP	14 34 34.8	2.9		
BJI	17.4	350	eP	14 34 45.0	4.0		
CN2	21.3	11	+P	14 35 27.5	2.5		

	epP	14 35 31.5	-1.0		
	eS	14 39 19.0	3.7		
	LE	Ms=4.2	15.0	0.50	
MDJ	23.0 17 eP	14 35 47.0	5.0		

1985 7 30

O=17 00 21.0 ± 0.06s

LAT=44.06 N ± 0.47km

LONG= 83.05 E ± 0.41km

DEPTH= 25 km ± 0.32km

STATIONS USED = 6, STAND DEV = 2.06s

 $M_L = 3.3 / 6,$ 

WMQ	3.4 93 ePn	17 01 13.8	1.3		
	Sn	17 01 54.3	1.1		
	Sg	17 02 02.5	-4.0		
	SMN	$M_L = 3.2$	0.4	0.070	
	SME		0.4	0.080	

1985 7 30

O=18 54 52.4 ± 0.21s

LAT=17.81 N ± 2.57km

LONG=120.97 E ± 2.95km

DEPTH= 15 km ± 0.49km

STATIONS USED = 49, STAND DEV = 2.40s

 $M_s = 4.5 / 11,$  $m_B = 4.8 / 1-$ 

QZH	7.4 343 eP	18 56 42.8	-0.5		
	LE	Ms=3.5	14.0	0.49	
GZH	8.9 308 P	18 57 05.0	1.7		
	S	18 58 41.0	-2.7		
QZN	10.6 278 eP	18 57 21.8	-5.8		
KMI	18.5 296 -P	18 59 11.5	1.6		
XAN	19.4 329 eP	18 59 21.0	-0.4		
CD2	20.4 313 eP	18 59 30.8	-0.7		
	LE	Ms=4.5	16.0	0.97	
DL2	21.0 1 eP	18 59 38.8	0.4		
	eS	19 03 28.0	0.6		
	LE	Ms=4.5	13.0	0.78	
TIY	21.2 341 P	18 59 41.8	1.6		
	LN	Ms=4.5	14.0	0.38	
	LE		16.0	0.90	
BJI	22.5 350 eP	18 59 53.5	0.0		
	eS	19 03 57.5	2.0		
	SME	$m_B = 4.8$	8.0	0.31	
LZH	23.7 324 eP	19 00 06.0	1.0		
	LE	Ms=4.5	12.0	0.64	
SNY	24.0 5 -iP	19 00 09.0	0.8		
	S	19 04 25.0	3.7		
	LE	Ms=4.5	15.0	0.82	
HHC	24.3 342 +P	19 00 13.5	2.2		
BTO	24.6 340 eP	19 00 15.3	1.5		

	eS	19 04 33.0	1.2		
	LN	Ms=4.5	16.0	0.60	
	LE		16.0	0.60	
CN2	26.2 7 eP	19 00 28.8	0.1		
	eS	19 04 58.0	-0.1		
	LE	Ms=4.3	20.0	0.50	
MDJ	27.7 13 eP	19 00 45.0	2.6		
	eS	19 05 20.0	-2.6		
	LE	Ms=4.3	25.0	0.66	
GTA	28.3 324 P	19 00 48.0	-0.1		
	LE	Ms=4.2	13.0	0.26	
LSA	29.7 299 P	19 01 00.3	-0.3		
WMQ	38.2 320 P	19 02 14.0	0.4		
	eS	19 08 11.0	4.6		
	LN	Ms=4.8	20.0	0.98	

1985 7 30

O=21 56 10.5 ± 0.09s

LAT=36.28 N ± 1.53km

LONG= 70.89 E ± 1.26km

DEPTH= 72 km ± 0.27km

STATIONS USED = 30, STAND DEV = 2.02s

 $M_L = 5.1 / 1,$ 

KSH	5.1 50 eP	21 57 31.0	4.1		
	eS	21 58 29.0	3.6		
WMQ	14.9 54 +iP	21 59 36.8	-2.0		
	S	22 02 14.5	-7.4		
	SMN		1.5	0.040	
LSA	18.2 105 P	22 00 20.0	-0.5		
GTA	23.0 73 P	22 01 11.3	0.9		
CD2	27.8 92 eP	22 01 57.3	1.8		
GYA	31.9 98 eP	22 02 33.0	1.0		
TIY	33.0 75 P	22 02 42.3	0.8		

1985 7 31

O=01 00 11.4 ± 0.09s

LAT= 4.86 N ± 1.32km

LONG=122.92 E ± 1.27km

DEPTH=606 km ± 0.34km

STATIONS USED = 68, STAND DEV = 0.84s

 $m_B = 4.9 / 4$ 

QZN	19.0 319 P	01 03 57.3	0.0		
	sP	01 06 20.0	-0.7		
	eS	01 06 55.0	-4.1		
	ScS	01 14 14.0	1.1		
GZH	20.3 334 -iP	01 04 10.1	0.5		
	sP	01 06 42.0	3.8		
	S	01 07 18.0	-2.5		
GYA	26.5 326 -P	01 05 05.0	0.3		
WHN	26.8 343 eP	01 05 08.0	1.0		



O = 03 52 33.5 ± 0.05s  
 LAT = 2.40 N ± 0.73km  
 LONG = 128.63 E ± 1.31km  
 DEPTH = 241 km ± 0.22km  
 STATIONS USED = 11, STAND DEV = 1.38s  
 XAN 36.5 332 eP 03 59 20.0 2.4  
 GTA 45.2 328 P 04 00 29.3 0.3

1985 7 31  
 O = 05 21 42.0 ± 0.09s  
 LAT = 5.41 N ± 1.38km  
 LONG = 126.39 E ± 1.73km  
 DEPTH = 87 km ± 0.27km  
 STATIONS USED = 47, STAND DEV = 1.33s

QZN	21.1	311	eP	05 26 22.0	1.0
GZH	21.6	326	eP	05 26 26.0	-0.5
GYA	28.2	320	P	05 27 28.0	-0.6
TIA	31.8	346	eP	05 27 59.5	-1.3
XAN	32.8	333	+P	05 28 07.5	-1.7
CD2	33.1	323	-iP	05 28 12.0	0.0
DL2	33.6	353	eP	05 28 17.0	0.6
TIY	34.6	340	P	05 28 24.5	-0.2
BJI	35.7	346	eP	05 28 34.0	0.0
SNY	36.3	356	eP	05 28 40.4	0.8
LZH	36.9	329	eP	05 28 44.5	0.1
			PMZ		1.5 0.070
HHC	37.7	341	+iP	05 28 51.5	0.4
BTO	38.0	340	eP	05 28 52.0	-1.5
CN2	38.2	359	+P	05 28 55.5	0.0
MDJ	39.1	4	eP	05 29 03.0	0.0
GTA	41.5	328	+iP	05 29 22.5	0.0
			PcP	05 31 20.3	1.8
WMQ	51.2	324	eP	05 30 38.0	-0.8
			PcP	05 31 53.0	0.5

1985 7 31  
 O = 07 37 54.7 ± 0.26s  
 LAT = 52.60 N ± 3.23km  
 LONG = 173.40 E ± 1.80km  
 DEPTH = 54 km ± 1.40km  
 STATIONS USED = 82, STAND DEV = 1.38s

Ms = 5.2 / 21, m<sub>B</sub> = 5.8 / 7  
 MDJ 29.7 272 eP 07 43 56.0 -1.7  
 PMZ m<sub>B</sub> = 5.5 5.0 0.48  
 pP 07 44 07.0 -3.6  
 PP 07 44 52.0 -2.4  
 eS 07 48 44.0 -3.7  
 sS 07 49 03.0 -7.2  
 LZ Ms = 5.2 18.0 2.96  
 CN2 32.6 274 +iP 07 44 22.3 -1.4

			PMZ	m <sub>B</sub> = 5.9	4.0 0.80
			pP	07 44 34.0	-2.7
			ePP	07 45 29.0	-3.8
			PcP	07 47 07.3	-0.8
			eS	07 49 29.0	-5.2
			sS	07 49 53.0	-3.8
			LN	Ms = 5.1	14.0 1.60
SNY	34.9	272	+P	07 44 42.8	-0.2
			pP	07 44 55.5	-0.7
			PP	07 46 04.0	3.2
			eS	07 50 10.5	1.5
			LN	Ms = 5.1	19.0 1.67
			LE		17.0 1.23
DL2	37.8	270	+P	07 45 08.0	0.1
			sP	07 45 24.0	-3.0
			PP	07 46 36.0	-1.1
			S	07 50 51.0	-2.2
			LE	Ms = 5.0	15.0 1.07
BJI	40.4	275	eP	07 45 30.0	0.3
			PMZ	m <sub>B</sub> = 5.8	4.0 0.54
			ePP	07 47 07.0	0.4
			eS	07 51 35.0	1.3
			esS	07 51 55.0	-1.6
			LN	Ms = 5.1	12.0 0.34
			LE		15.0 1.22
TIA	42.3	270	+P	07 45 45.0	0.1
			PMZ		3.0 1.02
			pP	07 45 58.8	0.6
			eS	07 52 02.8	1.7
			SMN	m <sub>B</sub> = 5.5	5.0 0.42
			sS	07 52 21.5	-2.5
			LN	Ms = 5.2	19.0 1.55
			LE		18.0 0.80
HHC	42.7	280	+P	07 45 49.0	0.3
			PP	07 47 31.0	0.7
			S	07 52 04.0	-2.6
			sS	07 52 23.0	-7.6
			LN	Ms = 5.1	15.0 1.10
			LE		15.0 0.52
SSE	43.3	261	eP	07 45 54.0	0.8
			PMZ		1.0 0.090
			PP	07 47 36.0	0.1
			S	07 52 14.0	-1.0
			ScS	07 55 50.0	5.4
			LN	Ms = 5.2	24.0 2.24
			LZ	Ms = 5.2	24.0 2.45
BTO	43.8	280	+iP	07 45 59.0	1.5
			PMZ	m <sub>B</sub> = 6.0	5.0 1.10
			pP	07 46 12.0	1.3
			PP	07 47 41.5	0.5

			S	07 52 24.0	1.6				WMQ	54.6	298	+iP	07 47 20.3	0.0		
			sS	07 52 43.0	-3.4							sP	07 47 38.0	-1.6		
			LN	Ms=5.4	16.0	1.70						PP	07 49 25.0	1.9		
			LE		16.0	1.40						sS	07 55 10.0	-7.2		
NJ2	44.0	264	+P	07 45 58.0	-1.2							LN	Ms=5.9	13.0	3.57	
			LE	Ms=5.2	19.0	1.80						LE		14.0	3.16	
TIY	44.2	275	+iP	07 46 01.5	1.2				GYA	55.4	269	+P	07 47 26.6	-0.1		
			PMZ	m <sub>B</sub> =6.2	4.0	1.42			KMI	58.8	271	+P	07 47 50.0	-0.7		
			PP	07 47 46.0	1.5							pP	07 48 03.0	-1.2		
			S	07 52 26.0	-1.5							S	07 55 45.0	-3.8		
			sS	07 52 52.5	0.9							LN	Ms=5.3	20.0	1.30	
			LN	Ms=5.2	14.0	0.96			QZN	59.1	261	P	07 47 53.5	1.2		
			LE		14.0	1.10						pP	07 48 11.0	5.0		
WHN	47.8	267	+iP	07 46 29.3	0.0							eS	07 55 52.5	-0.9		
			PMZ		1.0	0.12			LSA	62.5	284	+P	07 48 15.5	-0.3		
			pP	07 46 44.8	2.1				KSH	63.9	301	+iP	07 48 26.0	1.4		
			sP	07 46 51.0	2.5							sP	07 48 42.0	-2.2		
			S	07 53 25.0	5.1							PP	07 50 43.0	-2.8		
			LN	Ms=4.7	18.0	0.45						S	07 56 53.0	0.2		
XAN	48.7	274	+iP	07 46 36.3	0.0							sS	07 57 15.0	-2.9		
			pP	07 46 49.0	-0.6							LE	Ms=5.7	17.0	2.80	
			PP	07 48 29.0	0.5											
			eS	07 53 29.0	-4.6											
			sS	07 53 55.0	-1.7											
			eScS	07 56 25.0	5.6											
			LE	Ms=5.3	20.0	2.16										
QZH	49.3	258	eP	07 46 41.5	0.5											
			S	07 53 48.0	6.9											
			SMN	m <sub>B</sub> =5.6	6.0	0.51										
			LE	Ms=4.8	13.0	0.42										
LZH	50.4	280	+iP	07 46 51.0	1.6				QZN	19.1	52	eP	10 18 46.5	1.1		
			PMZ		2.0	0.56						eS	10 22 14.0	0.7		
			pP	07 47 04.0	1.4							LN	Ms=4.9	13.0	2.20	
			eS	07 53 57.0	-0.3				KMI	19.3	24	+P	10 18 50.0	1.6		
			ScS	07 56 37.0	6.2							pP	10 18 57.0	1.1		
			LN	Ms=5.5	13.0	1.07						eS	10 22 16.0	-3.3		
			LE		14.0	1.71						LE	Ms=4.5	10.0	0.80	
GTA	50.6	286	+iP	07 46 51.8	0.9				LSA	22.2	353	P	10 19 19.5	0.8		
			PMZ		3.0	0.46			GYA	22.3	31	P	10 19 19.6	0.7		
			PP	07 48 48.5	1.8				CD2	24.9	20	eP	10 19 45.3	0.5		
			eS	07 54 02.5	2.5							LE	Ms=4.8	10.0	0.87	
			LE	Ms=5.3	17.0	1.55			XAN	29.7	25	eP	10 20 25.8	-2.5		
GZH	53.9	261	+P	07 47 16.2	1.0				GTA	32.1	8	eP	10 20 48.5	-1.5		
CD2	54.0	275	+iP	07 47 16.8	0.5				BJI	37.9	28	eP	10 21 40.0	0.9		
			PMZ		1.2	0.13										
			esP	07 47 34.0	-1.7											
			S	07 54 51.0	5.7											
			sS	07 55 06.0	-4.0											
			ScS	07 57 02.5	6.7											
			LE	Ms=5.4	18.0	1.94										

1985 7 31  
 O=10 14 22.9 ± 0.15s  
 LAT= 7.56 N ± 1.78km  
 LONG= 94.13 E ± 1.42km  
 DEPTH= 33 km ± 0.12km  
 STATIONS USED = 17, STAND DEV = 1.75s  
 Ms=4.8 / 3,

1985 7 31  
 O=10 31 45.3 ± 0.10s  
 LAT=36.25 N ± 1.45km  
 LONG= 70.93 E ± 1.43km  
 DEPTH= 64 km ± 0.69km  
 STATIONS USED = 13, STAND DEV = 2.73s

$M_L = 4.6 / 1,$   
 KSH 5.1 50 eP 10 33 06.0 4.4  
 SMN  $M_L = 4.6$  0.5 0.60  
 SME 0.5 0.70  
 GTA 23.0 73 P 10 36 48.5 2.8