

Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)	Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μ m)
<p>1987 3 1</p> <p>O=00 38 21.5 \pm 0.07s</p> <p>LAT=36.48 N \pm 1.22km</p> <p>LONG= 70.81 E \pm 1.01km</p> <p>DEPTH=178 km \pm 0.56km</p> <p>STATIONS USED = 16, STAND DEV= 1.76s</p>								<p>DEPTH= 34 km \pm 0.18km</p> <p>STATIONS USED = 33, STAND DEV= 1.47s</p>							
KSH	5.0	52	P	00 39 39.0	1.8			WHN	40.4	329	cP	04 00 03.0	1.2		
			LN			4.0	1.10	GYA	42.0	317	P	04 00 15.4	0.3		
WMQ	14.8	55	P	00 41 43.8	-0.3			KMI	44.0	313	+P	04 00 31.5	0.5		
LSA	18.3	106	cP	00 42 26.8	1.3			XAN	46.0	327	P	04 00 47.4	0.1		
GTA	23.0	74	cP	00 43 15.0	2.8			CD2	46.9	320	cP	04 00 53.2	-0.7		
<p>1987 3 1</p> <p>O=03 19 30.5 \pm 0.05s</p> <p>LAT=33.73 N \pm 1.39km</p> <p>LONG= 22.93 E \pm 1.22km</p> <p>DEPTH= 30 km \pm 0.55km</p> <p>STATIONS USED = 66, STAND DEV= 0.83s</p>								<p>1987 3 1</p> <p>O=04 55 03.8 \pm 0.18s</p> <p>LAT=32.60 S \pm 4.42km</p> <p>LONG= 57.27 E \pm 3.36km</p> <p>DEPTH= 9 km \pm 0.32km</p> <p>STATIONS USED = 19, STAND DEV= 1.83s</p>							
KSH	42.5	66	cP	03 27 26.7	1.5			GYA	75.2	45	cP	05 06 50.2	0.6		
WMQ	50.3	58	+iP	03 28 27.6	0.4			CD2	77.0	40	cP	05 06 53.7	-5.7		
LSA	57.2	74	+iP	03 29 17.2	-1.2			GTA	81.8	32	P	05 07 26.1	0.6		
GTA	60.3	60	+iP	03 29 38.8	-0.5			XAN	82.2	41	P	05 07 24.5	-2.9		
LZH	64.5	62	+iP	03 30 07.5	0.1			<p>1987 3 1</p> <p>O=07 48 46.8 \pm 0.09s</p> <p>LAT=37.22 N \pm 1.92km</p> <p>LONG=141.44 E \pm 1.81km</p> <p>DEPTH= 70 km \pm 1.10km</p> <p>STATIONS USED = 65, STAND DEV= 1.61s</p> <p>Ms=4.2 / 2,</p>							
			PMZ			1.0	0.060	MDJ	11.6	313	cP	07 51 33.5	1.7		
CD2	66.6	68	P	03 30 20.8	-0.2			CN2	13.8	303	cP	07 52 01.0	-0.1		
			PMZ			0.9	0.080	SNY	14.5	294	cP	07 52 11.4	1.1		
BTO	67.0	56	P	03 30 23.6	0.1			SSE	17.8	256	P	07 52 53.5	1.6		
HHC	68.0	55	cP	03 30 31.0	1.5					LZ		Ms=4.1	16.0	0.57	
KMI	68.5	74	eP	03 30 32.0	-0.8			NJ2	19.3	261	+P	07 53 08.3	-0.4		
XAN	69.1	62	P	03 30 36.6	-0.1			TIA	19.5	274	cP	07 53 09.7	-1.6		
TIY	70.0	58	eP	03 30 41.6	-0.3			BJI	19.9	286	cP	07 53 13.0	-2.7		
			S	03 39 47.0	-0.9			TIY	23.0	280	cP	07 53 45.6	-1.0		
			SS	03 44 18.0	-0.8					S		07 57 48.0	0.7		
GYA	71.0	71	P	03 30 47.4	-0.5					LE		Ms=4.3	10.0	0.31	
BJI	71.5	54	eP	03 30 51.0	0.2			WHN	23.4	261	cP	07 53 50.0	-0.5		
TJA	74.0	57	cP	03 31 06.0	0.2			BTO	24.6	288	cP	07 54 02.8	0.5		
WHN	74.8	63	eP	03 31 10.0	-0.6			XAN	26.6	273	P	07 54 20.2	-0.2		
SNY	75.4	49	-P	03 31 13.1	-0.8			GZH	28.0	248	+P	07 54 35.5	2.3		
CN2	75.5	47	+P	03 31 14.4	-0.1										
NJ2	77.4	60	-P	03 31 25.2	0.2										
MDJ	77.5	44	cP	03 31 25.0	-0.9										
<p>1987 3 1</p> <p>O=03 52 24.7 \pm 0.12s</p> <p>LAT= 3.79 S \pm 1.35km</p> <p>LONG=137.01 E \pm 3.10km</p>															

LZH	30.1	279	eP	07 54 51.0	-1.1
GYA	31.3	260	P	07 55 02.8	0.0
CD2	31.7	270	eP	07 55 05.6	-0.8
GTA	32.5	287	P	07 55 12.9	-0.9
WMQ	40.8	297	P	07 56 25.1	1.9
LSA	42.2	275	-P	07 56 36.5	1.0
KSH	50.4	294	eP	07 57 41.0	1.5

KMI	7.1	119	ePn	13 32 56.5	5.4
CD2	7.2	70	Pn	13 32 57.1	5.1
GYA	9.8	101	P	13 33 31.2	-0.1
LZH	9.9	40	eP	13 33 33.5	0.4
			PMZ		1.5 0.090
GTA	11.1	16	P	13 33 49.2	-0.3
XAN	12.3	61	eP	13 34 03.8	-1.6
WMQ	16.4	339	P	13 35 03.4	4.1
TIY	16.5	53	eP	13 34 56.0	-3.7
BTO	16.6	41	eP	13 35 00.6	-0.4
KSH	19.6	308	eP	13 35 40.0	1.5
			eS	13 39 13.0	-1.0
BJI	20.1	51	P	13 35 40.0	-3.9
SNY	26.0	52	-P	13 36 41.2	-0.3
CN2	28.0	50	eP	13 37 00.0	0.0
MDJ	31.1	50	eP	13 37 29.5	2.1

1987 3 1

O=09 26 57.3 ± 0.12s
 LAT=43.83 N ± 1.48km
 LONG= 86.26 E ± 1.06km
 DEPTH= 5 km ± 0.29km
 STATIONS USED = 7, STAND DEV = 4.77s

$M_L = 2.8 / 6,$

WMQ	1.0	90	Pg	09 27 17.5	1.6
			Sg	09 27 36.1	6.0
			SMN	$M_L = 2.5$	0.5 0.13
			SME		0.4 0.080

1987 3 1

O=11 48 57.0 ± 0.04s
 LAT=37.30 N ± 0.45km
 LONG=114.99 E ± 0.39km
 DEPTH= 21 km ± 0.19km
 STATIONS USED = 6, STAND DEV = 4.26s

$M_L = 2.7 / 8,$

TIA	2.0	122	ePg	11 49 33.6	0.5
			Sg	11 49 59.4	-1.5
			SMN	$M_L = 2.8$	0.5 0.074
			SME		0.5 0.068
			SMZ	$M_L = 3.1$	0.5 0.11
TIY	2.1	282	Pn	11 49 32.0	0.8
			iPg	11 49 34.3	0.5
			Sg	11 49 58.5	-3.7
			SMN	$M_L = 2.9$	0.5 0.080
			SME		0.6 0.090
BJI	2.9	18	ePg	11 49 49.0	0.8
			eSg	11 50 27.5	-0.3
			SMN	$M_L = 2.2$	0.5 0.010
			SME		0.5 0.010

1987 3 1

O=13 31 07.4 ± 0.12s
 LAT=28.73 N ± 1.63km
 LONG= 95.91 E ± 1.27km
 DEPTH= 16 km ± 0.15km
 STATIONS USED = 45, STAND DEV = 2.40s

$M_L = 3.9 / 2,$

LSA	4.3	284	+iPn	13 32 15.8	3.1
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1987 3 1

O=16 45 48.0 ± 0.13s
 LAT=23.73 N ± 1.06km
 LONG=105.92 E ± 0.84km
 DEPTH= 9 km ± 0.35km
 STATIONS USED = 15, STAND DEV = 2.78s

$M_s = 3.5 / 1, M_L = 3.8 / 6,$

GYA	2.8	14	Pn	16 46 33.8	0.3
			Pg	16 46 43.4	6.0
			Sn	16 47 05.4	-3.7
			Sg	16 47 16.0	0.4
			SMN	$M_L = 4.0$	1.0 0.60
			SME		1.0 0.90
KMI	3.2	296	ePg	16 46 43.0	-2.0
			Sn	16 47 19.0	-0.4
			LN	$M_s = 3.5$	8.0 1.10
QZN	5.9	141	ePn	16 47 17.4	0.8
GZH	6.9	94	ePn	16 47 32.0	2.9
			Sn	16 48 44.5	-5.1
CD2	7.4	345	Pn	16 47 37.2	0.5
			SME	$M_L = 3.6$	0.5 0.020

1987 3 1

O=17 59 09.1 ± 0.14s
 LAT=49.85 N ± 2.08km
 LONG=102.65 E ± 1.37km
 DEPTH= 25 km ± 0.24km
 STATIONS USED = 78, STAND DEV = 2.17s

$M_s = 5.3 / 51, m_B = 5.2 / 1$

BTO	10.6	148	P	18 01 41.0	-2.0
			esP	18 01 50.0	-3.1
			S	18 03 36.0	-5.6
			LN	$M_s = 5.0$	9.0 4.70

1987 3 2									
O = 01 42 32.6		± 0.23s							
LAT = 37.96 S		± 5.70km							
LONG = 177.03 E		± 4.61km							
DEPTH = 19 km		± 0.68km							
STATIONS USED = 69, STAND DEV = 1.85s									
Ms = 6.6 / 50,		m _B = 6.3 / 18							
QZN	84.7	299	-P	01 55 08.0	0.2				
			ePP	01 58 26.0	1.5				
			SKS	02 05 27.0	0.7				
			S	02 05 34.5	2.4				
			SS	02 11 12.0	5.0				
			LN	Ms = 6.7	22.0	15.4			
			LE,		21.0	17.3			
GZH	85.2	304	-iP	01 55 10.0	0.1				
			sP	01 55 19.0	-0.9				
			eS	02 05 31.2	-6.9				
			SMN		24.0	6.55			
			SME		24.0	5.49			
			LN	Ms = 6.4	34.0	11.7			
			LE		34.0	14.2			
SSE	86.2	315	-P	01 55 15.0	0.0				
			PMZ	m _B = 6.8	6.0	5.12			
			PP	01 58 36.0	-0.4				
			SKS	02 05 36.0	-0.1				
			S	02 05 46.0	-0.4				
			LN	Ms = 6.8	20.0	22.5			
			LE		20.0	14.7			
			LZ	Ms = 7.0	20.0	39.0			
WHN	89.8	310	-iP	01 55 32.0	-0.3				
			PMZ	m _B = 6.3	6.0	1.30			
			PP	01 59 10.0	3.9				
			SKS	02 06 04.0	5.2				
			S	02 06 27.0	6.9				
			LE	Ms = 6.4	20.0	8.20			
DL2	91.9	320	P	01 55 42.0	0.1				
			pP	01 55 51.0	2.1				
			S	02 06 40.0	1.5				
			LN	Ms = 6.3	14.0	5.01			
GYA	91.9	302	P	01 55 42.0	-0.2				
			PP	01 59 21.0	-1.7				
			SKS	02 06 13.0	2.0				
			S	02 06 41.0	2.3				
			LN	Ms = 6.6	20.0	7.20			
			LE		20.0	10.8			
TIA	92.3	316	P	01 55 44.1	0.4				
			PMZ	m _B = 6.3	12.0	1.90			
			eSKS	02 06 20.0	6.9				
			LN	Ms = 6.7	19.0	11.9			
			LE		27.0	18.6			
			LZ	Ms = 6.6	23.0	15.6			
MDJ	92.7	328	+P	01 55 45.7	0.1				
			PP	01 59 26.0	-3.0				
			LZ	Ms = 6.9	24.0	34.7			
SNY	93.2	323	-iP	01 55 47.0	-0.7				
			PMZ		18.0	2.01			
			PP	01 59 29.5	-3.3				
			SMN		17.0	5.99			
			SME		11.0	1.29			
			SS	02 13 14.0	5.0				
			LN	Ms = 6.9	28.0	30.0			
			LE		30.0	22.4			
			LZ	Ms = 6.9	28.0	41.8			
KMI	93.7	299	eP	01 55 52.0	1.5				
			PMZ	m _B = 6.3	10.0	1.40			
			eS	02 07 02.0	5.4				
			LN	Ms = 6.5	20.0	10.8			
CN2	93.8	325	-iP	01 55 50.0	-0.8				
			PMZ	m _B = 6.3	8.0	1.10			
			PP	01 59 36.0	-2.2				
			PPMZ	m _B = 6.5	12.0	2.10			
			SKS	02 06 26.0	4.2				
			S	02 06 55.0	-0.4				
			SMN		22.0	8.20			
			LZ	Ms = 6.7	32.0	25.3			
XAN	95.5	309	P	01 55 58.0	-0.7				
			PP	01 59 52.0	1.2				
			SKS	02 06 35.0	3.8				
			S	02 07 16.0	6.0				
			LN	Ms = 6.5	19.0	7.00			
			LE		19.0	7.80			
BJI	95.6	318	eP	01 55 57.5	-1.2				
			PMZ	m _B = 6.4	10.0	0.96			
			eSKS	02 06 28.0	-3.3				
			eS	02 07 18.0	6.1				
			SMN		24.0	3.48			
			LN	Ms = 6.6	20.0	8.20			
			LE		21.0	8.70			
			LZ	Ms = 6.7	23.0	18.1			
TIY	96.0	314	eP	01 56 00.2	-0.5				
			PMZ	m _B = 6.9	6.0	1.83			
			PP	01 59 50.0	-4.3				
			eS	02 07 21.0	5.3				
			LN	Ms = 6.6	18.0	9.24			
			LE		20.0	7.10			
CD2	96.7	304	eP	01 56 00.0	-4.2				
			PP	01 59 57.0	-3.5				
			sS	02 07 36.0	2.2				
			LE	Ms = 6.6	20.0	13.8			

		LZ	Ms=6.8	20.0	18.6			LE												
HHC	98.6	316	cP	01 56 12.0	-0.8			GZH	70.3	17	+P	06 08 57.0	-1.0							
			PP	02 00 11.0	-3.8						PMZ	m _B =6.2		6.0	2.18					
			PPMZ			m _B =6.4	7.0	0.85			SMN			15.0	2.46					
			LN			Ms=6.4	19.0	7.58			SME			15.0	2.31					
BTO	99.3	315	P	01 56 18.0	2.1						LN	Ms=5.7		15.0	2.25					
			PP	02 00 21.0	1.0				KMI	70.8	6	+P	06 09 02.0	0.3						
			SKS	02 06 56.5	5.8						S	06 18 13.0	4.5							
			cS	02 07 46.5	2.6						LN	Ms=6.4		20.0	11.1					
			LN			Ms=6.7	20.0	6.20			LE			20.0	7.40					
			LE				20.0	13.1			LZ	Ms=6.5		20.0	16.6					
			LZ			Ms=6.7	20.0	14.5	GYA	72.5	10	P	06 09 12.0	0.3						
GTA	104.6	309	cP	01 56 41.2	1.8						LN	Ms=6.2		19.0	2.10					
			PP	02 00 56.0	-4.3						LE			19.0	7.50					
			LN			Ms=6.4	17.0	4.17	QZH	73.2	21	+iP	06 09 16.0	0.3						
			LE				30.0	6.75			PMZ	m _B =6.1		7.0	2.00					
WMQ	114.6	307	PKP	02 01 11.7	-1.0						S	06 18 42.0	5.9							
			PP	02 02 08.0	-5.5						LE	Ms=6.0		36.0	9.02					
			PPMZ				1.8	0.17	LSA	75.3	355	cP	06 09 26.0	-2.2						
			cSKS	02 08 20.0	-0.2						PP	06 12 15.0	-3.8							
			LZ			Ms=6.5	40.0	14.5			S	06 19 05.6	6.6							
KSH	120.3	298	PKP	02 01 24.0	0.0						SS	06 23 50.0	-2.2							
			PP	02 02 50.0	-2.7						SME	m _B =6.1		10.0	1.68					
			SKS	02 08 35.0	3.7						LN	Ms=6.1		20.0	4.12					
			LN			Ms=6.7	18.0	11.0			LE			20.0	5.47					
									CD2	76.6	6	cP	06 09 35.2	-0.2						
											PMZ	m _B =6.2		8.0	3.30					
											SME	m _B =6.4		7.0	2.50					
											LN	Ms=6.3		20.0	9.33					
											LZ	Ms=6.4		20.0	11.1					
									WHN	77.7	16	+iP	06 09 40.0	-1.3						
											PMZ	m _B =6.1		6.0	2.00					
											SMN	m _B =6.2		10.0	2.00					
											SME			12.0	1.20					
											LE	Ms=5.7		18.0	2.30					
									SSE	79.8	21	+P	06 09 47.0	-5.5						
											PMZ	m _B =6.2		6.0	2.14					
											cS	06 19 45.0	-3.7							
											SKS	06 19 56.0	-1.0							
											sS	06 20 16.0	-4.8							
											SS	06 24 54.0	-5.8							
											LN	Ms=6.2		20.0	3.90					
											LE			20.0	5.48					
											LZ	Ms=6.1		20.0	5.16					
									NJ2	80.1	19	+P	06 09 56.0	1.6						
											PP	06 13 02.0	3.8							
											LN	Ms=6.1		17.0	4.30					
											LZ	Ms=5.7		24.0	2.90					
									XAN	80.3	10	P	06 09 55.4	0.1						
											S	06 19 57.0	4.6							

1987 3 2

O=02 58 02.4 ± 0.06s

LAT=25.43 N ± 0.42km

LONG= 99.99 E ± 0.50km

DEPTH= 16 km ± 0.53km

STATIONS USED = 7, STAND DEV = 2.32s

M_L=3.7/ 3,

KMI 2.5 96 Pg 02 58 48.0 0.9

Sg 02 59 20.0 -1.2

SMN M_L=3.6 1.5 0.40

SME 1.5 0.30

GYA 6.1 79 Pn 02 59 36.0 3.4

1987 3 2

O=05 57 49.8 ± 0.27s

LAT=45.80 S ± 5.41km

LONG= 96.43 E ± 3.48km

DEPTH= 71 km ± 0.47km

STATIONS USED = 76, STAND DEV = 1.44s

M_s=6.1/ 52, m_B=6.2/ 35

QZN 65.7 14 +P 06 08 29.5 0.1

PP 06 10 53.5 -2.7

ScP 06 12 58.0 3.5

LN Ms=6.1 20.0 7.50

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GTA	84.9	3	P	10 00 32.4	-0.6
BJI	87.4	15	eP	10 00 45.0	0.0
WMQ	89.5	354	P	10 00 55.6	0.3

1987 3 2

O=21 51 07.7 ± 0.05s
 LAT=25.39 N ± 0.93km
 LONG= 63.08 E ± 0.80km
 DEPTH= 33 km ± 0.09km
 STATIONS USED = 26, STAND DEV= 0.83s

Ms=4.7 / 1,

KSH	17.7	35	eP	21 55 12.5	-1.5
			LN	Ms=4.7	9.0 1.10
WMQ	27.2	41	P	21 56 51.3	0.5
GTA	33.8	56	P	21 57 49.2	0.1
XAN	40.5	67	P	21 58 46.0	0.7
CN2	53.3	53	eP	22 00 26.0	-0.1

1987 3 3

O=00 03 56.8 ± 0.38s
 LAT=40.07 N ± 2.02km
 LONG= 76.12 E ± 4.62km
 DEPTH= 14 km
 STATIONS USED = 7, STAND DEV= 4.97s

ML=3.8 / 5,

KSH	0.6	190	Pg	00 04 07.6	-0.5
			Sg	00 04 17.5	1.0
			SMN	ML=3.8	0.5 5.20
			SME		0.2 3.00
WMQ	9.4	63	eP	00 06 09.0	-6.4
			SMN		1.5 0.060

1987 3 3

O=00 06 02.5 ± 0.07s
 LAT=52.83 N ± 2.30km
 LONG=174.79 W ± 0.69km
 DEPTH=163 km ± 0.11km
 STATIONS USED = 37, STAND DEV= 0.99s

SSE	50.5	271	P	00 14 45.5	-0.6
			pP	00 15 24.0	1.5
NJ2	51.2	274	eP	00 14 51.0	-0.8
XAN	55.8	283	P	00 15 25.4	0.0
GTA	57.3	293	P	00 15 35.8	-0.3
LZH	57.3	288	eP	00 15 35.5	-0.9
WMQ	60.6	305	eP	00 15 55.0	-3.9
CD2	61.1	284	eP	00 16 01.9	-0.1
GYA	62.6	278	P	00 16 12.0	-0.3

1987 3 3

O=01 27 25.9 ± 0.13s

LAT=34.37 N ± 1.22km
 LONG=103.61 E ± 1.54km
 DEPTH= 16 km ± 0.10km
 STATIONS USED = 38, STAND DEV= 2.99s
 Ms=4.4 / 15, ML=4.6 / 13,

LZH	1.7	6	iPn	01 27 59.0	3.0
			Pg	01 28 00.5	4.0
			Sg	01 28 27.0	6.8
			SMN	ML=4.8	0.5 12.3
			SME		0.5 9.36
CD2	3.4	178	Pg	01 28 26.8	-0.2
			Sg	01 29 13.2	-0.9
			SMN	ML=3.9	1.0 0.27
			SME		1.0 0.39
			LE	Ms=4.4	8.0 8.45
			LZ	Ms=4.1	8.0 4.02
XAN	4.4	93	Pn	01 28 35.8	3.0
			Pg	01 28 48.4	4.5
			Sn	01 29 32.0	6.1
			Sg	01 29 50.0	5.7
			SMN	ML=4.6	1.2 1.02
			SME		1.0 0.81
			LN	Ms=4.8	4.0 4.70
			LE		4.0 4.00
GTA	5.9	330	Pn	01 28 52.5	-0.6
			Pg	01 29 15.5	5.8
			Sg	01 30 30.0	-0.2
			SMN	ML=4.2	1.4 0.21
			SME		1.0 0.12
			LE	Ms=4.0	8.0 1.29
TIY	7.9	62	ePn	01 29 25.2	4.6
			Sg	01 31 37.5	4.4
			SMN		3.0 3.08
			SME		2.5 1.86
			LN	Ms=4.6	6.5 2.61
GYA	8.3	161	P	01 29 27.4	-1.7
			S	01 31 04.4	1.2
			LN	Ms=4.7	8.0 1.50
			LE		8.0 3.60
HHC	9.0	42	eP	01 29 39.6	0.5
			LN		0.6 0.12
			LE		0.6 0.24
WHN	9.8	110	eP	01 29 48.5	-1.6
			S	01 31 40.0	-1.2
			LN	Ms=4.4	8.0 1.40
BJI	11.5	57	eP	01 30 10.5	-2.4
			LN	Ms=4.5	8.0 1.33
WMQ	15.5	312	eP	01 31 08.4	2.2
			LN	Ms=4.2	16.0 0.79
QZN	16.3	158	eP	01 31 18.0	2.4

		eS	01 34 21.5	6.0			SME	14.0	2.62			
		LE	Ms=4.3	12.0	0.80			ScS	01 48 34.0	2.5		
1987 3 3												
		O=01 32 10.9	± 0.07s			NJ2	29.2	252	+P	01 38 04.5	-1.5	
		LAT=46.54 N	± 1.90km						SMN	m _B =5.9	8.5 2.80	
		LONG=151.96 E	± 1.26km						LN		11.0 1.70	
		DEPTH= 92 km	± 0.45km						LE		13.0 1.30	
		STATIONS USED = 92,	STAND DEV = 1.06s			HHC	29.5	274	+iP	01 38 10.2	1.0	
			m _B = 5.9 / 35						S	01 42 59.0	3.9	
MDJ	15.8	271	eP	01 35 48.5	-0.6				SMN	m _B =5.4	6.0 0.69	
			pP	01 36 02.0	-1.2				LN		10.0 2.27	
			S	01 38 44.0	3.3				LE		9.0 0.64	
			SMN	m _B =5.8	12.0	4.60	TIY	30.3	267	+P	01 38 16.9	0.4
			SS	01 39 07.0	4.5				PMZ	m _B =6.2	4.0 2.02	
			ScP	01 44 09.5	1.0				PP	01 39 14.0	-4.5	
			LZ		16.0	5.70			S	01 43 12.5	4.3	
CN2	18.9	271	+P	01 36 23.0	-3.6				SMN	m _B =5.5	9.0 1.14	
			pP	01 36 38.0	-4.4				SME		8.0 0.64	
			SMN	m _B =6.0	4.5	1.80			LE		16.0 1.58	
			ScS	01 47 58.0	3.0		BTO	30.7	274	+iP	01 38 19.0	-0.6
			LN		10.0	3.50			pP	01 38 36.0	-4.0	
SNY	20.8	267	+iP	01 36 46.5	-0.8				PP	01 39 20.0	-2.9	
			PMZ	m _B =5.3	11.0	1.92			S	01 43 13.0	-0.5	
			sP	01 37 14.0	-3.8				LN		10.0 0.80	
			S	01 40 31.5	2.5				LE		11.0 1.40	
			SMN		17.0	6.60			LZ		11.0 1.00	
			SME		15.0	4.35	WHN	33.1	255	+P	01 38 40.0	-0.5
			LN		18.0	3.35			sP	01 39 10.0	-2.5	
			LE		20.0	3.73			S	01 43 45.0	-6.4	
			LZ		20.0	5.62			SMN	m _B =5.6	10.0 1.80	
BJI	26.7	269	eP	01 37 44.0	0.5				LN		9.0 1.20	
			PMZ	m _B =5.5	8.0	0.93			LE		10.0 1.00	
			eS	01 42 05.0	-5.4		QZH	34.2	243	eP	01 38 50.5	0.3
			SMN	m _B =5.3	10.0	0.67			pP	01 39 07.0	-4.0	
			SME		10.0	0.72			iS	01 44 14.0	4.4	
			LE		15.0	2.22			SMN	m _B =5.8	12.0 3.25	
TIA	27.9	261	eP	01 37 54.9	0.2				LE		10.0 0.75	
			PMZ	m _B =6.1	4.0	1.54	XAN	34.7	265	+P	01 38 54.0	-0.3
			epP	01 38 16.0	1.2				pP	01 39 15.0	-0.2	
			S	01 42 32.3	2.9				S	01 44 17.0	1.0	
			SMN	m _B =5.9	10.0	2.90			SMN	m _B =6.5	4.5 6.00	
			SME		7.0	1.04	LZH	37.1	271	+iP	01 39 15.5	0.8
			LN		11.0	1.40			PMZ		1.0 0.16	
			LE		11.0	1.46			pP	01 39 34.0	-1.6	
SSE	28.3	248	P	01 37 58.0	-0.1				S	01 44 54.0	1.3	
			pP	01 38 17.0	-1.3				SMN	m _B =5.9	6.5 1.72	
			sP	01 38 30.0	0.4				LN		13.0 1.73	
			eS	01 42 36.0	-0.4		GTA	38.2	279	+iP	01 39 24.7	0.8
			SMN		14.0	3.51			PMZ		2.0 1.45	

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CN2	18.0	273	+iP	22 38 05.8	-0.1		
SNY	20.0	268	-P	22 38 26.2	-0.5		
BJI	25.8	269	eP	22 39 24.5	0.6		
SSE	27.2	248	P	22 39 31.8	-4.9		
			LN			12.0	1.50
			LE			12.0	2.11
			LZ			16.0	2.30
NJ2	28.1	252	eP	22 39 46.0	0.9		
			pP	22 40 12.0	3.8		
HHC	28.7	274	+P	22 39 51.6	1.2		
TIY	29.5	268	eP	22 39 57.2	0.2		
			eS	22 44 40.0	-2.4		
			PcS	22 46 40.5	-0.8		
			LN			12.0	1.40
			LE			10.0	0.72
BTO	29.9	275	eP	22 40 00.2	-0.7		
WHN	32.1	254	-iP	22 40 20.0	0.0		
			LN			10.0	2.00
			LE			12.0	1.20
XAN	33.8	265	P	22 40 34.8	0.1		
			S	22 45 47.0	-2.0		
			sS	22 46 34.0	2.7		
			ScP	22 46 45.0	0.3		
			SS	22 47 58.0	-3.7		
LZH	36.3	271	+P	22 40 56.0	0.1		
			PMZ			1.5	0.070
			LE			9.0	0.72
GTA	37.5	279	+iP	22 41 06.0	-0.1		
			LE			12.0	0.67
			LZ			11.5	0.73
GZH	37.8	246	eP	22 41 12.0	3.6		
			LN			11.0	1.30
			LE			11.0	1.34
CD2	39.1	264	eP	22 41 20.1	0.3		
			PMZ			1.0	0.040
			pP	22 41 46.3	2.3		
			eS	22 47 12.0	0.2		
QZN	43.0	245	eP	22 41 53.0	1.9		
			eS	22 48 08.5	0.4		
			LN			15.0	0.70
KMI	43.4	258	eP	22 41 55.5	0.2		
			pP	22 42 21.0	1.6		
WMQ	43.7	291	P	22 41 56.3	-1.0		
LSA	48.7	272	-P	22 42 37.0	0.2		
KSH	53.5	292	P	22 43 13.5	0.5		

DEPTH = 16 km ± 0.44km
 STATIONS USED = 20, STAND DEV = 3.07s
 $M_s = 4.3 / 11, M_L = 4.3 / 13,$

QZH	3.0	292	cPn	22 39 06.4	2.3		
			Sn	22 39 42.5	1.0		
SSE	7.2	357	Pn	22 40 01.8	-0.3		
			LN			$M_s = 4.3$	12.0 1.50
			LE				12.0 2.11
			LZ			$M_s = 4.1$	16.0 2.30
GZH	7.7	266	eP	22 40 12.0	1.1		
			S	22 41 35.0	-3.0		
			LN			$M_s = 4.2$	11.0 1.30
			LE				11.0 1.34
WHN	9.3	317	-iP	22 40 30.0	-3.5		
			eS	22 42 13.5	-5.2		
			LN			$M_s = 4.4$	10.0 2.00
			LE				12.0 1.20
QZN	12.0	249	eP	22 41 11.4	0.8		
			eS	22 43 21.4	-3.8		
			LN			$M_s = 4.0$	15.0 0.70
KMI	17.3	278	eP	22 42 15.5	-3.9		
			pP	22 42 21.0	-3.6		

1987 3 4

O = 00 08 52.8 ± 0.08s

LAT = 34.34 N ± 0.48km

LONG = 103.41 E ± 0.85km

DEPTH = 19 km ± 0.31km

STATIONS USED = 7, STAND DEV = 1.95s

$M_L = 3.3 / 7,$

LZH	1.8	11	cPn	00 09 24.0	0.7		
			Pg	00 09 25.5	1.2		
			Sg	00 09 52.0	3.3		
			SMN			$M_L = 3.3$	0.5 0.38
			SME				0.5 0.24
CD2	3.4	175	cPg	00 09 55.0	1.3		
			Sg	00 10 41.0	0.4		
			SME			$M_L = 2.6$	1.2 0.020
XAN	4.6	92	cPn	00 10 01.5	-0.1		
			Pg	00 10 15.0	1.4		
			Sn	00 10 51.6	-4.6		
			Sg	00 11 15.5	-0.7		
			SMN			$M_L = 3.6$	0.6 0.085
			SME				0.8 0.084
GTA	5.8	331	cPn	00 10 18.6	-0.3		
			Pg	00 10 39.0	3.3		
			Sg	00 11 53.0	-2.3		
			SMZ			$M_L = 3.4$	1.2 0.020

1987 3 4

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O = 22 38 16.9 ± 0.57s

LAT = 23.87 N ± 3.46km

LONG = 121.65 E ± 4.69km

O=00 12 27.1 ± 0.05s
 LAT=21.72 N ± 0.95km
 LONG=143.16 E ± 0.90km
 DEPTH=315 km ± 0.24km
 STATIONS USED = 41, STAND DEV = 0.61s

SSE	21.8	300	eP	00 16 55.0	0.3
NJ2	23.9	301	+P	00 17 15.0	-0.3
TIA	26.9	308	eP	00 17 41.2	-0.6
XAN	32.5	300	P	00 18 30.7	-0.5
GYA	33.6	285	P	00 18 40.4	-0.1
CD2	36.3	293	P	00 19 03.1	-0.5
LZH	37.0	302	eP	00 19 09.5	0.1
GTA	40.8	306	+iP	00 19 40.6	-0.3
			PcP	00 21 36.0	1.0
LSA	47.2	291	-P	00 20 32.0	0.3
WMQ	50.5	309	P	00 20 56.7	0.2

1987 3 4
 O=02 55 47.2 ± 0.09s
 LAT=24.14 N ± 1.04km
 LONG=121.98 E ± 1.19km
 DEPTH=30 km ± 0.33km
 STATIONS USED = 34, STAND DEV = 1.31s

Ms = 3.4 / 2, ML = 3.9 / 13,

QZH	3.2	285	iPn	02 56 36.3	0.6
			Sn	02 57 10.0	-4.3
			SMN	ML=3.7	0.3 0.26
			SME		0.3 0.21
SSE	7.0	354	ePn	02 57 28.8	1.2
			Sn	02 58 43.8	-4.0
			SMN	ML=3.7	1.0 0.045
			SME		1.0 0.025
			LZ	Ms=3.1	20.0 0.29
GZH	8.0	264	eP	02 57 43.0	-1.2
NJ2	8.3	341	-P	02 57 47.0	-2.2
			eS	02 59 17.5	-5.9
			LN		2.5 0.60
WHN	9.3	315	eP	02 58 04.0	1.5
Q/N	12.4	248	eP	02 58 42.8	-1.7
GYA	14.0	283	P	02 59 07.0	0.4
			S	03 01 36.0	-5.9
XAN	15.1	314	P	02 59 20.5	0.5
CD2	17.5	297	eP	02 59 53.7	2.8
GTA	24.1	314	eP	03 01 02.4	0.4

1987 3 4
 O=03 45 15.9 ± 0.06s
 LAT=36.08 N ± 0.61km
 LONG=105.92 E ± 0.58km
 DEPTH=15 km ± 0.39km

STATIONS USED = 6, STAND DEV = 2.60s
 ML = 2.9 / 5,

LZH	1.7	271	ePg	03 45 45.0	-0.9
			eSn	03 46 07.5	-0.7
			Sg	03 46 09.0	0.4
			SMN	ML=3.1	0.5 0.16
			SME		0.5 0.22
XAN	3.2	129	ePn	03 46 04.8	-1.3
			Pg	03 46 13.0	0.6
			Sg	03 46 54.2	-1.9
			SMN	ML=2.6	0.5 0.020
			SME		0.5 0.020
GTA	5.9	306	Pg	03 46 58.4	-1.4
			Sg	03 48 15.0	-4.8
			SMN	ML=2.9	0.8 0.010
			SME		0.8 0.010

1987 3 4
 O=06 25 21.7 ± 0.09s
 LAT=6.52 S ± 1.44km
 LONG=148.10 E ± 2.61km
 DEPTH=19 km ± 0.47km
 STATIONS USED = 55, STAND DEV = 1.34s

Ms = 5.5 / 24,

QZH	42.5	319	eP	06 33 21.0	3.3
			eS	06 39 34.0	-4.6
			LE	Ms=5.3	20.0 2.72
SSE	45.4	327	eP	06 33 40.0	-1.5
			eS	06 40 17.0	-4.3
			eSS	06 43 32.0	-3.5
			LN	Ms=5.6	20.0 2.98
			LE		20.0 4.01
			LZ	Ms=5.5	20.0 3.86
QZN	45.4	305	eP	06 33 43.2	1.4
			pP	06 33 50.0	1.1
			ePP	06 35 30.0	1.8
			eS	06 40 25.5	3.5
			LN	Ms=5.5	21.0 1.70
			LE		21.0 3.40
NJ2	47.4	326	+P	06 33 56.0	-1.4
			LN	Ms=5.8	20.0 5.90
			LZ	Ms=5.4	22.0 3.20
WHN	49.0	321	eP	06 34 10.0	0.1
			S	06 41 16.0	4.4
			sS	06 41 28.0	3.5
			LE	Ms=5.1	16.0 0.94
TIA	51.5	328	eP	06 34 28.3	-0.4
			epP	06 34 34.5	-1.2
			eS	06 41 40.0	-6.9
			LN	Ms=5.7	23.0 3.09

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			LE		23.0	3.53	LZH	162.8	20	ePKP	10 24 50.0	0.9		
			LZ	Ms=5.8	23.0	6.70	TIA	162.9	343	ePKP	10 24 49.4	0.3		
MDJ	53.6	344	+iP	06 34 44.7	0.5		XAN	165.9	7	PKP	10 24 52.6	0.6		
CN2	54.1	340	eP	06 34 49.0	0.8		CD2	167.3	29	ePKP	10 24 53.5	0.5		
			sP	06 34 58.0	-0.5		WHN	169.0	344	ePKP	10 24 54.0	0.1		
			eS	06 42 23.0	0.4		GYA	172.4	31	PKP	10 24 56.2	0.1		
			LN	Ms=5.6	20.0	3.10				pPKP	10 25 26.4	4.7		
XAN	54.8	320	P	06 34 57.2	4.0									
			S	06 42 30.0	-0.4									
BJI	54.9	330	eP	06 34 53.0	-0.9									
			LN	Ms=5.5	21.0	2.70								
			LZ	Ms=5.6	21.0	3.12								
TIY	55.1	326	eP	06 34 55.4	-0.5									
			S	06 42 36.0	0.7									
			LN	Ms=5.5	22.0	2.64								
			LE		20.0	1.51	KSH	1.4	309	Pg	22 11 00.5	-1.0		
			LZ	Ms=5.5	24.0	3.06				Sg	22 11 24.0	3.2		
CD2	56.4	314	eP	06 35 06.7	1.7					SMN	Ms=3.8	0.2	0.80	
			eS	06 42 54.0	0.4					SME		0.2	2.20	
			ScS	06 44 51.0	2.3		WMQ	9.4	53	P	22 12 53.0	-1.0		
			LE	Ms=5.2	20.0	1.24				LE		2.0	0.060	
			LZ	Ms=5.5	20.0	2.32								
LZH	59.3	319	eP	06 35 25.0	-0.6									
			PMZ		2.0	0.060								
GTA	63.8	320	P	06 35 55.4	-0.6									
			LE	Ms=5.1	19.0	0.82								
LSA	65.4	307	eP	06 36 06.4	-0.2									
WMQ	73.9	319	P	06 36 58.7	0.6									
KSH	80.5	312	eP	06 37 37.5	2.3									
1987 3 4														
O=10 04 57.5 ± 0.42s														
LAT=19.97 S ± 2.62km														
LONG=69.06 W ± 2.97km														
DEPTH=96 km ± 3.36km														
STATIONS USED = 52, STAND DEV = 1.67s														
KSH	144.3	49	PKP	10 24 22.5	-0.9									
			pPKP	10 24 51.0	2.6									
			ePP	10 27 46.0	4.3									
WMQ	149.3	34	PKP	10 24 31.9	0.2									
MDJ	150.9	332	PKP	10 24 33.0	-1.2									
CN2	153.3	336	ePKP	10 24 37.0	-0.6									
			pPKP	10 25 06.0	2.8									
SNY	155.7	337	ePKP	10 24 40.8	0.0									
GTA	158.4	24	iPKP	10 24 43.8	-0.6									
			pPKP	10 25 14.1	4.3									
BTO	159.4	2	ePKP	10 24 45.0	-0.6									
BJI	159.5	348	ePKP	10 24 45.5	0.0									
LSA	159.6	58	ePKP	10 24 45.5	-0.7									
TIY	162.3	356	ePKP	10 24 48.2	-0.3									
1987 3 5														
O=00 46 42.6 ± 0.20s														
LAT=0.41 S ± 3.42km														
LONG=129.65 E ± 3.79km														
DEPTH=32 km ± 0.09km														
STATIONS USED = 48, STAND DEV = 2.05s														
Ms=4.5 / 7,														
QZH	27.4	338	eP	00 52 27.0	-0.3									
			eS	00 57 05.0	1.2									
			LN	Ms=4.1	9.0	0.16								
QZN	27.4	316	eP	00 52 28.6	1.0									
			eS	00 57 09.0	4.8									
			LE	Ms=4.5	13.0	0.50								
SSE	32.3	346	eP	00 53 08.1	-3.4									
			eS	00 58 20.0	-2.5									
			sS	00 58 42.0	4.5									
			LN	Ms=4.5	20.0	0.60								
			LZ	Ms=4.5	20.0	0.58								
NJ2	33.9	343	eP	00 53 24.5	-0.1									
GYA	34.7	322	P	00 53 32.4	0.4									
KMI	36.4	316	eP	00 53 47.5	1.3									
XAN	39.4	332	P	00 54 10.8	-0.7									
CD2	39.7	324	P	00 54 17.8	4.0									
TIY	41.1	339	eP	00 54 25.8	-0.1									
			S	01 00 40.0	4.1									
			LE	Ms=4.5	12.0	0.24								
BJI	42.1	345	eP	00 54 32.5	-1.2									
BTO	44.6	339	eP	00 54 55.8	2.0									

LSA	47.4	313	eP	00 55 16.4	0.1				
GTA	48.1	329	P	00 55 21.2	-0.8				
WMQ	57.8	325	P	00 56 32.5	-1.0				
			eS	01 04 29.0	0.0				
			LN			Ms=4.9	28.0	0.88	
1987 3 5									
				O=01 45 60.0	± 0.10s				
				LAT=37.01 N	± 2.25km				
				LONG=141.46 E	± 2.24km				
				DEPTH= 61 km	± 1.64km				
				STATIONS USED = 80,	STAND DEV = 1.96s				
				Ms=4.2/ 6,					
MDJ	11.8	314	-iP	01 48 50.6	3.2				
CN2	13.9	304	eP	01 49 19.0	2.7				
SNY	14.6	295	+P	01 49 25.3	0.1				
DL2	15.8	283	eP	01 49 41.2	1.5				
SSE	17.8	257	eP	01 50 02.7	-2.5				
			eSS	01 53 45.0	3.6				
			LN			Ms=4.2	20.0	0.48	
			LE				20.0	0.69	
			LZ			Ms=4.2	20.0	0.87	
NJ2	19.3	262	eP	01 50 21.5	-0.9				
			LZ			Ms=4.0	22.0	0.50	
TIA	19.5	275	eP	01 50 24.2	-1.3				
			LN			Ms=4.1	13.0	0.38	
BJI	20.0	286	eP	01 50 29.5	-0.9				
QZH	22.9	245	eP	01 50 55.5	-4.5				
TIY	23.0	281	eP	01 51 01.0	-0.1				
			eS	01 55 06.5	3.4				
			LE			Ms=4.3	15.0	0.57	
WHN	23.4	262	eP	01 51 03.5	-0.9				
HHC	23.5	289	eP	01 51 06.0	0.3				
BTO	24.7	288	eP	01 51 17.0	-0.1				
XAN	26.6	273	P	01 51 35.2	0.5				
LZH	30.1	280	eP	01 52 06.5	-0.1				
GYA	31.3	260	P	01 52 17.0	0.3				
CD2	31.7	270	P	01 52 20.6	0.0				
			PMZ				1.0	0.050	
GTA	32.6	287	P	01 52 27.4	-1.1				
QZN	33.0	246	eP	01 52 31.8	0.4				
KMI	35.0	261	-P	01 52 50.0	0.9				
WMQ	40.9	297	P	01 53 40.0	1.8				
LSA	42.3	275	+P	01 53 50.6	0.8				
KSH	50.5	294	eP	01 54 53.5	-0.9				

1987 3 5
O=02 33 40.3 ± 0.14s
LAT=35.56 N ± 1.65km
LONG= 87.38 E ± 1.59km

DEPTH 31 km ± 0.10km									
STATIONS USED = 40, STAND DEV = 2.48s									
Ms=4.8/ 18,									
LSA	6.7	150	ePn	02 35 21.2	4.3				
			LN			Ms=5.1	8.5	14.9	
WMQ	8.2	2	P	02 35 42.0	1.2				
			S	02 37 17.0	3.4				
			LE			Ms=4.5	8.0	2.22	
KSH	9.9	297	eP	02 36 07.0	3.9				
			eS	02 37 57.0	3.0				
			LE			Ms=5.3	7.0	11.1	
GTA	10.6	65	P	02 36 11.8	-1.7				
CD2	14.5	104	eP	02 37 06.3	1.2				
			LN			Ms=5.1	12.0	5.10	
			LZ			Ms=4.7	12.0	2.10	
XAN	17.8	89	P	02 37 45.0	-2.1				
			LN			Ms=4.7	9.0	0.83	
			LE				8.0	0.82	
BTO	18.5	67	eP	02 37 53.0	-3.4				
			LN			Ms=5.1	17.0	5.00	
			LE				17.0	1.20	
GYA	18.8	113	P	02 38 00.6	0.2				
			S	02 41 32.0	6.7				
			LN			Ms=4.8	12.0	1.60	
			LE				12.0	1.10	
HHC	19.7	67	eP	02 38 10.4	0.2				
TIY	20.2	76	eP	02 38 13.0	-2.7				
			LN			Ms=4.8	9.5	1.25	
WHN	23.1	95	eP	02 38 48.3	3.4				
			LN			Ms=4.8	10.0	1.20	
BJI	23.1	70	P	02 38 50.0	4.9				
			SME				18.0	0.45	
			LN			Ms=4.9	20.0	2.86	
			LE				18.0	0.45	
TIA	24.1	80	eP	02 38 54.0	-0.1				
			eS	02 43 12.0	5.1				
			LN			Ms=4.9	13.0	1.52	
			LE				13.0	0.62	
QZN	25.8	124	eP	02 39 11.0	0.5				
			eS	02 43 35.0	-0.6				
			LN			Ms=4.9	13.0	1.20	
			LE				13.0	1.10	
QZH	28.9	103	eP	02 39 37.0	-1.5				
			LN			Ms=4.8	16.0	1.30	

1987 3 5
O=02 56 15.4 ± 0.10s
LAT=48.28 N ± 3.71km
LONG=155.11 E ± 2.52km
DEPTH= 18 km ± 1.37km

STATIONS USED = 72, STAND DEV = 1.99s				Ms = 4.8 / 17, m _B = 5.0 / 1				PP 09 40 07.0 -6.6						
MDJ	17.9	268	eP	03 00 24.5	-1.5			WMQ	153.2	38	LN	Ms = 6.9	28.0	19.7
CN2	21.0	269	eP	03 00 56.5	-4.3						PKP	09 36 50.5	0.1	
			LZ	Ms = 4.7	15.0	1.50					iPKP	09 36 51.7	2.7	
SNY	23.1	266	+P	03 01 20.0	-1.5						pPKP	09 37 00.0	-2.9	
			eS	03 05 28.0	0.4						PKP ₂	09 37 10.0		
			LE	Ms = 4.9	16.0	2.08					PP	09 40 43.0	-2.4	
BJI	28.9	268	P	03 02 15.5	-0.1			MDJ	154.1	327	LN	Ms = 7.0	30.0	29.1
TIA	30.3	261	eP	03 02 23.2	-5.1						iPKP	09 36 50.6	-0.9	
			eS	03 07 21.0	-5.5						PP	09 40 49.0	-1.9	
			LN	Ms = 4.8	14.5	1.00					PPMZ		14.0	28.4
SSE	30.9	249	eP	03 02 35.5	1.7			CN2	156.7	331	LZ	Ms = 6.8	24.0	12.0
			pP	03 02 43.5	3.1						PKP	09 36 53.0	-2.0	
			eS	03 07 38.0	1.8						PP	09 41 00.0	-4.6	
			sS	03 07 52.0	4.6						PPMZ	m _B = 7.2	10.0	20.1
			LN	Ms = 4.9	16.0	0.87		SNY	159.1	331	SKS	09 43 52.0	-1.2	
			LE		16.0	0.97					iPKP	09 36 56.0	-2.0	
			LZ	Ms = 4.9	16.0	1.43					pPKP	09 37 11.5	0.9	
HHC	31.6	273	P	03 02 39.2	-0.4						PP	09 41 13.5	-4.2	
NJ2	31.7	253	eP	03 02 44.5	3.4						LN	Ms = 7.4	25.0	11.5
			LN	Ms = 5.0	15.5	1.60					LE		23.0	52.7
			LZ	Ms = 4.9	16.0	1.40		LSA	162.3	68	LZ	Ms = 6.8	23.0	13.8
TIY	32.6	267	eP	03 02 48.0	-0.4						PKP	09 37 01.5	-0.3	
			S	03 07 57.0	-4.3						iPP	09 41 37.0	2.2	
			LE	Ms = 4.7	16.0	0.79					LN	Ms = 7.7	19.0	42.3
BTO	32.7	274	eP	03 02 46.0	-3.7						LE		21.0	85.6
			LN	Ms = 4.8	14.0	0.80		DL2	162.3	329	+PKP	09 37 02.5	1.2	
			LE		14.0	0.40					PP	09 41 36.0	1.1	
WHN	35.6	255	eP	03 03 12.7	-2.0						PPMZ		13.0	28.7
QZH	36.9	244	eP	03 03 24.5	-1.1						SS	10 01 50.0	0.7	
			eS	03 09 12.0	2.5						LN	Ms = 6.9	21.0	10.6
			LE	Ms = 4.4	12.0	0.24		GTA	162.5	27	LE		22.0	10.7
XAN	37.0	265	P	03 03 25.5	-0.9						iPKP	09 37 01.7	0.0	
LZH	39.2	271	eP	03 03 44.5	-0.4						PP	09 41 34.0	-1.8	
			PMZ			1.0 0.080					SS	10 01 50.0	-1.1	
GTA	40.1	278	P	03 03 50.6	-1.6						LN	Ms = 7.5	48.0	84.5
CD2	42.4	265	eP	03 04 09.8	-1.0						LE		46.0	92.3
GYA	43.4	258	P	03 04 18.0	-1.1			HHC	163.3	356	iPKP	09 37 04.0	1.5	
WMQ	45.6	291	P	03 04 35.5	-1.9						pPKP	09 37 18.0	3.1	
KMI	46.9	260	eP	03 04 46.0	-1.1						PKP	09 37 05.6	4.6	
											PP	09 41 39.0	-1.1	
											SS	10 02 03.0	3.6	
											LN	Ms = 6.9	30.0	12.0
											LE		28.0	18.0
								BTO	163.6	0	iPKP	09 37 03.0	0.2	
											SS	10 02 03.7	0.8	
											LN	Ms = 7.7	22.0	95.0
											LE		22.0	16.0
											LZ	Ms = 7.0	22.0	20.0
								TIY	166.3	352	PKP	09 37 05.2	-0.1	

1987 3 5

O = 09 17 04.0 ± 0.24s

LAT = 24.15 S ± 3.33km

LONG = 69.97 W ± 4.05km

DEPTH = 44 km ± 2.15km

STATIONS USED = 90, STAND DEV = 1.40s

Ms = 7.4 / 51, m_B = 7.0 / 12

KSH 147.5 54 PKP 09 36 43.0 1.2

LAT=24.22 S ± 4.92km
 LONG= 70.22 W ± 5.77km
 DEPTH= 34 km ± 2.20km
 STATIONS USED = 42, STAND DEV= 1.99s

KSH	147.7	54	ePKP	10 15 48.8	1.9		
MDJ	154.0	326	ePKP	10 15 56.0	-0.3		
CN2	156.6	330	ePKP	10 15 59.0	-0.7		
			ePP	10 20 06.0	-3.1		
SNY	159.0	330	PKP	10 16 03.6	0.8		
BJI	163.3	343	PKP	10 16 03.0	-4.2		
BTO	163.7	359	ePKP	10 16 08.4	0.7		
TIY	166.4	351	ePKP	10 16 10.0	-0.1		
			PKP ₂	10 17 12.1			
TIA	166.5	334	ePKP	10 16 09.9	-0.2		
SSE	167.8	307	ePKP	10 16 11.1	0.2		
			PKP ₂	10 17 25.5			
NJ2	168.8	316	ePKP	10 16 12.0	0.4		
XAN	170.2	4	PKP	10 16 13.2	0.7		
			pPKP	10 16 21.6	-0.7		
			PKP ₂	10 17 29.0			
QZN	174.8	181	ePKP	10 16 12.4	-2.2		
GYA	176.4	51	PKP	10 16 15.2	0.1		
			pPKP	10 16 24.0	-0.9		
			PP	10 21 51.0	0.1		

1987 3 5
 O=10 55 12.5 ± 0.19s
 LAT=24.30 S ± 4.94km
 LONG= 70.49 W ± 5.32km
 DEPTH= 24 km ± 1.68km
 STATIONS USED = 83, STAND DEV= 2.01s
 M_s=6.5/12, m_B=6.5/2

KSH	148.0	54	+PKP	11 14 58.0	4.1		
WMQ	153.6	37	ePKP	11 15 02.6	0.2		
			PKP ₂	11 15 25.0			
			PP	11 18 56.0	-3.3		
			LN	M _s =6.6	40.0	14.4	
MDJ	154.0	326	ePKP	11 15 01.5	-1.3		
CN2	156.6	330	ePKP	11 15 08.0	1.7		
			LZ	M _s =6.9	20.0	13.0	
SNY	159.0	330	+PKP	11 15 11.1	1.8		
LSA	162.8	68	PKP	11 15 13.4	-0.3		
GTA	162.9	26	PKP	11 15 13.0	-0.5		
BJI	163.3	342	ePKP	11 15 13.5	-0.3		
HHC	163.4	355	ePKP	11 15 15.0	1.0		
BTO	163.7	359	ePKP	11 15 16.3	2.0		
TIY	166.4	350	PKP	11 15 18.0	1.2		
			PP	11 20 05.5	-2.2		
			PPMZ	m _B =6.7	10.0	3.02	
			LN	M _s =6.8	23.0	10.6	

LE
 LZ M_s=7.0
 21.0 7.71
 24.0 19.9

TIA	166.4	333	ePKP	11 15 16.4	-0.3		
LZH	167.3	21	ePKP	11 15 17.5	0.0		
SSE	167.6	306	ePKP	11 15 17.0	-0.4		
			pPKP	11 15 27.5	3.1		
NJ2	168.7	315	ePKP	11 15 15.0	-3.1		
XAN	170.3	3	ePKP	11 15 18.5	-0.6		
			pPKP	11 15 28.4	2.4		
			PKP ₂	11 16 35.6			
			PP	11 20 25.4	-1.7		
CD2	171.7	37	ePKP	11 15 19.5	-0.5		
QZH	171.7	276	PKP	11 15 19.0	-0.9		
			LN	M _s =6.1	20.0	2.86	
WHN	172.4	326	ePKP	11 15 19.0	-1.3		
KMI	173.8	81	PKP	11 15 21.0	0.0		
			PP	11 20 45.0	0.4		
			LN	M _s =6.4	20.0	6.30	
			LE		22.0	4.80	
QZN	174.7	183	ePKP	11 15 22.2	1.1		
			ePP	11 20 48.0	-1.4		
			LN	M _s =6.6	22.0	8.40	
			LE		21.0	9.90	
GYA	176.6	50	PKP	11 15 21.4	-0.4		
			pPKP	11 15 32.0	3.5		
			PP	11 21 02.0	3.9		
			LN	M _s =6.3	20.0	4.70	
			LE		20.0	7.00	

1987 3 5
 O=19 13 21.0 ± 0.06s
 LAT=40.85 N ± 0.69km
 LONG=123.27 E ± 0.51km
 DEPTH= 6 km ± 0.20km
 STATIONS USED = 7, STAND DEV= 1.82s
 M_L=2.9/7,

SNY	1.0	13	Pg	19 13 37.0	-1.8		
			P11	19 13 38.5	-3.6		
			Sg	19 13 49.5	-3.1		
			S11	19 13 52.3	-6.2		
			SMN	M _L =2.9	0.3	0.43	
			SME		0.3	0.10	
DL2	2.3	214	ePg	19 14 01.8	-0.1		
			Sg	19 14 31.6	-1.8		
			SMN	M _L =3.0	0.5	0.080	
			SME		0.5	0.12	
CN2	3.4	28	ePg	19 14 22.6	2.1		
			eSg	19 15 03.2	-3.3		
			SMN	M _L =3.0	0.6	0.060	
			SME		0.6	0.030	

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O=19 47 08.4 ± 0.11s
 LAT= 5.86 S ± 1.79km
 LONG=146.75 E ± 2.51km
 DEPTH= 57 km ± 0.37km
 STATIONS USED = 82, STAND DEV = 1.23s
 Ms=4.8 / 7,

GZH	43.5	313	cP	19 55 10.0	1.5		
QZN	44.0	305	cP	19 55 12.8	0.6		
			eS	20 01 43.0	3.8		
SSE	44.1	328	P	19 55 13.5	0.0		
			pP	19 55 25.5	-2.0		
			sP	19 55 31.7	-1.9		
			eS	20 01 42.0	0.5		
			sS	20 02 06.0	0.5		
			LN	Ms=4.8	20.0	0.58	
			LE		20.0	0.57	
			LZ	Ms=4.8	20.0	0.80	
NJ2	46.1	327	-P	19 55 30.2	0.8		
WHN	47.7	321	eP	19 55 41.3	-0.3		
TIA	50.2	329	eP	19 56 06.0	4.7		
			eS	20 03 10.0	2.2		
			LN	Ms=4.8	15.0	0.44	
GYA	50.4	311	P	19 56 03.4	0.6		
SNY	52.0	338	+P	19 56 13.9	-0.5		
MDJ	52.6	345	eP	19 56 19.0	0.1		
KMI	52.7	308	eP	19 56 21.0	0.7		
			pP	19 56 33.0	-1.2		
CN2	53.0	341	eP	19 56 24.2	1.7		
XAN	53.4	321	P	19 56 24.2	-1.1		
BJI	53.7	331	eP	19 56 26.5	-0.5		
			pP	19 56 38.0	-3.3		
TIY	53.9	326	-P	19 56 28.1	-0.5		
			S	20 03 55.0	-1.2		
			LE	Ms=4.6	14.0	0.24	
CD2	55.0	314	eP	19 56 36.0	-0.9		
HHC	56.6	328	P	19 56 49.2	0.8		
BTO	57.2	327	eP	19 56 52.3	-0.6		
			esP	19 57 10.5	-2.6		
			eS	20 04 43.5	0.9		
LZH	57.9	319	+P	19 56 57.5	-0.5		
			PMZ			1.5	0.070
GTA	62.5	320	+iP	19 57 28.5	-0.5		
LSA	64.0	307	-P	19 57 38.0	-1.1		
WMQ	72.5	319	P	19 58 31.0	-0.9		
KSH	79.1	312	eP	19 59 07.0	-2.3		

LAT=52.54 N ± 1.62km
 LONG=132.62 E ± 2.20km
 DEPTH= 16 km ± 0.30km
 STATIONS USED = 79, STAND DEV = 1.54s
 Ms=4.9 / 34, ML=5.2 / 4,

MDJ	8.2	195	cP	20 41 20.5	0.0		
			S	20 42 47.4	-5.9		
			LZ	Ms=5.0	8.0	7.10	
CN2	10.0	212	-P	20 41 42.8	-2.5		
			sP	20 41 50.0	-3.8		
			eS	20 43 32.0	-5.9		
			LZ	Ms=4.9	8.0	4.70	
SNY	12.3	213	cP	20 42 23.0	5.3		
			LN	Ms=4.7	8.0	1.10	
			LE		6.0	1.35	
			LZ	Ms=4.8	8.0	2.30	
BJI	16.8	229	cP	20 43 16.0	-0.4		
			S	20 46 16.0	-5.9		
HHC	18.5	239	eP	20 43 38.4	1.1		
			LN	Ms=5.0	10.0	1.96	
			LE		11.0	1.87	
BTO	19.5	241	P	20 43 50.0	1.0		
			esP	20 44 00.0	1.9		
			eS	20 47 23.0	-0.3		
			LN	Ms=5.1	10.0	2.50	
			LE		10.0	1.70	
			LZ	Ms=5.0	10.0	2.50	
TIA	19.7	220	eP	20 43 51.2	0.5		
			LN	Ms=4.9	11.0	1.90	
			LE		11.0	0.88	
			LZ	Ms=4.9	11.0	2.11	
TIY	20.5	232	eP	20 44 02.6	3.3		
			LN	Ms=5.0	9.0	1.36	
			LE		9.0	1.34	
			LZ	Ms=4.8	12.0	1.71	
NJ2	22.8	211	-P	20 44 24.4	1.6		
			LN	Ms=4.9	11.0	1.70	
			LZ	Ms=4.6	12.0	0.80	
XAN	25.1	232	-P	20 44 45.8	0.5		
			pP	20 44 50.0	-1.4		
			LN	Ms=4.9	11.0	1.15	
			LE		12.0	1.01	
WHN	25.7	219	eP	20 44 51.5	0.2		
			S	20 49 16.0	-0.6		
			sS	20 49 30.0	2.3		
			LN	Ms=4.5	10.0	0.50	
GTA	26.1	253	P	20 44 54.8	0.4		
			eS	20 49 17.5	-5.4		
			LE	Ms=5.0	10.0	1.42	
			LZ	Ms=5.2	10.0	2.06	

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O=20 39 19.3 ± 0.11s



			PP	02 17 08.0	-1.1				
			LN		Ms=6.4	20.0	4.77		
GTA	140.6	3	PKP	02 14 12.9	-7.5				
			PP	02 17 18.0	-4.2				
			PPMZ		m _B =6.6	8.0	2.37		
			SS	02 35 41.0	-3.2				
			LN		Ms=6.2	28.0	3.14		
			LE			30.0	2.78		
TIY	141.3	347	PKP	02 14 15.5	-6.0				
			PP	02 17 25.0	-1.1				
			SKS	02 21 24.0	-2.9				
			LN		Ms=6.5	23.0	3.40		
			LE			23.0	5.25		
			LZ		Ms=6.4	27.0	5.89		
TIA	141.4	341	PKP	02 14 15.5	-6.1				
			PP	02 17 22.5	-4.3				
			LN		Ms=6.6	18.0	5.49		
			LE			18.0	2.19		
			LZ		Ms=6.7	18.0	8.79		
LZH	144.0	358	iPKP	02 14 25.0	-1.2				
			SS	02 36 20.0	-3.5				
SSE	144.2	332	PKP	02 14 24.0	-2.4				
			PP	02 17 44.0	0.1				
			PPMZ		m _B =6.8	7.0	3.95		
			SKS	02 21 33.0	1.5				
			SS	02 36 22.0	-4.3				
			LN		Ms=6.3	20.0	3.68		
			LZ		Ms=6.6	20.0	7.72		
NJ2	144.5	336	iPKP	02 14 24.0	-2.8				
			PP	02 17 45.0	-0.3				
			PPMZ		m _B =6.7	8.0	3.30		
			SS	02 36 35.5	6.7				
			LN		Ms=6.7	22.0	10.2		
XAN	145.5	350	PKP	02 14 29.8	1.0				
			PP	02 17 49.0	-2.6				
			LN		Ms=6.5	20.0	4.53		
			LE			18.0	2.66		
WHN	147.5	341	PKP	02 14 33.0	1.0				
			PP	02 18 03.0	-0.5				
			SS	02 37 00.0	-3.3				
			LN		Ms=6.4	18.0	2.80		
			LE			18.0	2.60		
LSA	148.5	19	PKP	02 14 34.9	0.8				
CD2	149.2	358	ePKP	02 14 36.5	1.8				
			PP	02 18 13.5	1.1				
			SS	02 37 21.9	0.5				
			LN		Ms=6.3	26.0	4.86		
			LZ		Ms=6.4	28.0	6.41		
QZH	150.6	329	PKP	02 14 40.0	3.1				
			LN		Ms=6.6	24.0	4.71		

			LE			22.0	5.57		
GYA	153.3	351	PKP	02 14 42.6	1.6				
			PP	02 18 37.0	0.7				
			SS	02 38 08.0	1.0				
			LN		Ms=7.4	23.0	18.0		
			LE			23.0	50.0		
GZH	154.6	336	ePKP	02 14 45.0	2.3				
			PKP ₂	02 15 07.0					
			PP	02 18 44.0	0.4				
			PPMZ		m _B =6.3	12.0	2.92		
			LN		Ms=6.4	28.0	3.51		
			LE			19.0	3.84		
KMI	154.9	359	PKP	02 14 45.0	1.7				
			PP	02 18 47.0	1.8				
			PPMZ		m _B =6.6	7.0	3.10		
			LZ		Ms=6.4	20.0	4.40		
QZN	159.7	339	ePKP	02 14 51.0	1.9				
			PP	02 19 11.0	0.3				
			PPMZ		m _B =6.3	7.0	1.90		
			SS	02 39 15.0	-0.3				
			LN		Ms=6.6	17.0	3.00		
			LE			18.0	6.50		

1987 3 6

O=03 56 55.3 ± 0.08s
 LAT=40.26 N ± 0.70km
 LONG= 77.64 E ± 0.88km
 DEPTH= 17 km ± 0.28km

STATIONS USED = 7, STAND DEV = 3.51s
 M_L = 3.7 / 6,

KSH	1.5	238	iPg	03 57 22.0	-0.2				
			Sg	03 57 4.0	0.3				
			SMN		M _L =3.8	0.2	1.00		
			SME			0.2	1.30		
			SMZ			21.5	14.5		

1987 3 6

O=04 10 40.0 ± 0.19s
 LAT= 0.17 N ± 8.28km
 LONG= 77.70 W ± 12.46km
 DEPTH= 10 km ± 0.58km

STATIONS USED = 91, STAND DEV = 3.53s
 Ms=7.2 / 51, m_B=6.8 / 9

MDJ	129.2	335	PKP	04 29 53.0	2.2				
			PP	04 32 02.0	0.2				
			SKS	04 37 04.0	6.5				
			LZ		Ms=7.2	18.0	27.3		
CN2	131.6	338	PKP	04 29 55.0	0.7				
			ePP	04 32 16.0	-0.7				
			PPMZ		m _B =6.9	7.0	3.60		

			LZ	Ms=7.3	22.0	40.5			SS	04 52 17.0	1.0	
KSH	133.8	28	ePKP	04 30 02.0	3.4				LE	Ms=7.3	35.9	
			LN	Ms=6.7	12.0	6.00			LZ	Ms=7.2	21.0	31.4
SNY	134.0	338	PKP	04 29 53.4	-5.4		NJ2	144.3	335	iPKP	04 30 16.0	-1.3
			PP	04 32 32.0	-0.1				PP	04 33 36.0	0.8	
			LN	Ms=7.2	20.0	23.1			PPMZ	m _B =6.6	7.5	2.80
			LE			20.0			SS	04 52 23.0	4.5	
			LZ	Ms=7.2	19.0	28.7			LN	Ms=7.5	24.0	60.7
WMQ	134.3	15	PKP	04 29 56.0	-3.5		XAN	145.4	350	PKP	04 30 22.0	2.7
			PP	04 32 35.1	0.9				SKS	04 37 20.0	-4.3	
			PKS	04 33 37.0					LN	Ms=7.3	21.0	32.7
			LN	Ms=7.1	20.0	21.3			LE		21.0	17.9
BJI	138.0	344	ePKP	04 29 59.0	-7.3		WHN	147.4	340	ePKP	04 30 24.0	1.4
			PKP	04 30 09.0	4.0				SKS	04 37 34.0	7.0	
			ePP	04 32 58.0	0.6				LE	Ms=7.0	18.0	14.5
			eSS	04 51 10.0	1.9		LSA	148.4	19	ePKP	04 30 25.0	0.2
			LN	Ms=7.3	24.0	40.3			SKKS	04 40 50.0		
			LE			24.0			LN	Ms=6.9	19.0	12.9
HHC	138.3	349	PKP	04 30 02.0	-5.0		CD2	149.1	358	PKP	04 30 27.5	2.1
			PP	04 32 59.0	-0.2		QZH	150.5	329	PKP	04 30 30.0	2.5
			SS	04 51 09.0	0.6				PP	04 34 11.5	0.4	
			LN	Ms=7.3	22.0	38.2			SS	04 53 32.0	5.0	
			LE			20.0			LN	Ms=7.3	22.0	33.3
BTO	138.8	351	PKP	04 30 02.6	-5.3				LE		20.0	19.9
			PP	04 32 59.0	-3.1		QYA	153.2	351	PKP	04 30 35.0	3.4
			SS	04 51 08.0	-5.8				SKS	04 37 37.0	2.5	
			LN	Ms=7.3	20.0	37.1			LN	Ms=7.1	21.0	13.0
			LE			21.0			LE		21.0	19.5
			LZ	Ms=7.3	20.0	35.6	GZH	154.5	336	ePKP	04 30 37.2	4.0
GTA	140.5	3	PKP	04 30 07.0	-4.0				PP	04 34 38.0	4.3	
			PPMZ	m _B =6.8	10.0	4.70			PPMZ		21.0	9.61
			LN	Ms=7.1	28.0	28.6			LN	Ms=7.1	16.0	9.30
			LZ	Ms=6.8	28.0	17.0			LE		18.0	16.0
TIY	141.2	347	ePKP	04 30 06.7	-5.3		KMI	154.9	359	ePKP	04 30 36.0	2.0
			PP	04 33 12.0	-4.2				PP	04 34 42.0	6.5	
			PPMZ			20.0			SKKS	04 41 29.0		
			SKKS	04 40 06.0					LZ	Ms=7.2	20.0	30.9
			LN	Ms=7.3	23.0	37.7	QZN	159.5	339	PKP	04 30 42.0	2.3
			LE			20.0			eSKS	04 37 46.0	4.9	
			LZ	Ms=7.2	26.0	35.9			LN	Ms=7.3	19.0	17.3
TIA	141.3	341	PKP	04 30 07.5	-4.6				LE		18.0	28.2
			PP	04 33 10.0	-6.8							
			SS	04 51 44.0	1.0							
			LN	Ms=7.2	17.0	12.5						
			LE			30.0						
LZH	143.9	358	PKP	04 30 15.0	-1.8							
			PP	04 33 34.0	1.4							
			SKKS	04 40 26.0								
SSE	144.1	332	PKP	04 30 16.7	-0.2							
			PP	04 33 32.0	-1.9							

1987 3 6

O = 06 33 02.8 ± 0.08s
 LAT = 0.06 N ± 4.12km
 LONG = 77.48 W ± 3.49km
 DEPTH = 8 km ± 0.46km
 STATIONS USED = 23, STAND DEV = 1.88s

GTA 140.6 3 ePKP 06 52 33.1 -1.4
 LZH 144.0 358 PKP 06 52 40.0 -0.3

WHN	172.3	330	PKP	10 00 01.0	0.8		
			PP	10 05 16.0	-1.3		
			SKKS	10 12 02.0			
			LE	Ms=5.9	21.0	2.10	
KMI	173.4	78	PKP	10 00 01.0	0.0		
			pPKP	10 00 15.0	1.9		
			iPP	10 05 24.0	1.3		
			PPMZ	m _B =6.1	8.0	1.80	
			SKS	10 06 58.0	1.9		
			SS	10 26 34.0	2.8		
			LZ	Ms=6.3	25.0	6.40	
QZN	175.1	179	PKP	10 00 02.0	0.8		
			pPKP	10 00 16.5	3.0		
			PP	10 05 27.0	-4.4		
			PPMZ	m _B =6.2	8.0	2.30	
			eSKKS	10 12 09.0			
			LN	Ms=6.1	22.0	3.70	
			LE		22.0	2.50	
GYA	176.1	49	PKP	10 00 01.8	0.1		
			pPKP	10 00 16.0	2.2		
			SS	10 27 01.0	4.1		
			LN	Ms=5.3	40.0	1.00	
			LE		40.0	1.00	
GZH	176.7	256	ePKP	10 00 02.8	1.2		
			LE	Ms=5.9	33.0	4.92	

1987 3 6

O=10 15 55.8 ± 0.17s

LAT=31.74 S ± 1.64km

LONG=178.94 W ± 1.50km

DEPTH=298 km ± 2.33km

STATIONS USED = 25, STAND DEV = 1.62s

MDJ	89.3	326	+P	10 28 20.8	0.4		
TIA	90.3	313	eP	10 28 25.2	0.1		
SNY	90.3	321	-P	10 28 24.0	-1.2		
CN2	90.7	323	-P	10 28 26.8	-0.3		
GYA	91.5	300	P	10 28 31.0	0.0		
BJI	93.3	316	eP	10 28 38.5	-0.6		
TIY	94.2	312	cP	10 28 43.4	0.4		
XAN	94.3	308	P	10 28 43.5	0.0		

1987 3 6

O=10 23 26.8 ± 0.09s

LAT=14.88 N ± 2.89km

LONG=92.17 W ± 3.08km

DEPTH=83 km ± 1.02km

STATIONS USED = 40, STAND DEV = 1.52s

M_s=5.7/ 1,

TIY	122.8	337	PKP	10 42 14.4	0.0		
SSE	124.2	325	ePKP	10 42 19.7	2.7		

NJ2	124.7	328	PKP	10 42 18.2	0.3		
GTA	124.8	349	PKP	10 42 18.6	0.2		
LZH	127.1	344	PKP	10 42 24.0	1.2		
XAN	127.4	338	PKP	10 42 23.4	0.2		
			pPKP	10 43 41.0	-4.7		
WHN	128.1	331	ePKP	10 42 25.0	0.4		
CD2	132.0	342	ePKP	10 42 32.8	0.8		
GYA	135.0	336	PKP	10 42 37.6	-0.2		
LSA	135.6	356	PKP	10 42 39.5	0.3		

1987 3 6

O=13 48 40.4 ± 0.09s

LAT=51.16 N ± 2.44km

LONG=179.58 E ± 1.18km

DEPTH=54 km ± 0.09km

STATIONS USED = 89, STAND DEV = 0.88s

M_s=5.4/ 34,

m_B=5.8/ 3

MDJ	33.6	279	+iP	13 55 17.0	-1.1		
			S	14 00 34.0	-0.6		
			LE	Ms=5.3	16.0	3.30	
CN2	36.6	280	+iP	13 55 42.0	-1.6		
			PMZ	m _B =5.8	4.0	0.70	
			pP	13 55 56.0	-0.6		
			PP	13 57 10.0	1.8		
			eS	14 01 21.0	-0.6		
			LZ	Ms=5.5	20.0	5.30	
SNY	38.8	279	+iP	13 56 03.0	0.9		
			PMZ	m _B =6.0	4.0	0.89	
			pP	13 56 17.0	1.8		
			LN	Ms=5.4	20.0	2.88	
			LE		22.0	2.19	
			LZ	Ms=5.4	22.0	3.85	
DL2	41.7	276	P	13 56 26.0	0.0		
			pP	13 56 41.0	1.8		
			eS	14 02 32.0	-6.7		
			LN	Ms=5.4	18.0	2.65	
BJI	44.4	281	eP	13 56 49.0	0.8		
			pP	13 57 05.0	3.6		
			eS	14 03 24.0	5.7		
			sS	14 03 42.0	1.0		
			LN	Ms=5.3	18.0	2.15	
TIA	46.2	276	+iP	13 57 02.6	0.4		
			pP	13 57 16.0	0.6		
			eS	14 03 47.0	3.5		
			sS	14 04 10.5	4.2		
			LN	Ms=5.3	17.0	1.22	
			LE		17.0	1.67	
HHC	46.8	285	+iP	13 57 09.0	2.1		
			pP	13 57 24.0	4.0		
SSE	47.0	268	-P	13 57 09.2	0.8		

			PMZ		1.0	0.070			pP	13 58 54.0	0.6
			pP	13 57 21.2	-0.5				sP	13 59 01.0	2.0
			sP	13 57 25.0	-2.3				S	14 06 46.0	4.7
			PP	13 58 56.0	-2.1				sS	14 07 06.0	0.2
			S	14 03 56.0	2.3				LE	Ms = 5.3	20.0 1.60
			eSS	14 07 14.0	-0.3			QZN	62.7 267	eP	13 59 02.4 -0.5
			LE	Ms = 5.0	24.0	1.28			ePP	14 01 24.0	2.3
			LZ	Ms = 5.3	20.0	2.04			eS	14 07 25.0	-0.9
NJ2	47.8	271	+P	13 57 14.5	-0.4				LN	Ms = 5.3	17.0 1.10
			S	14 04 09.0	3.5			KMI	62.7 277	+P	13 59 02.5 -0.7
			LN	Ms = 5.4	15.0	2.10			pP	13 59 15.5	-1.1
BTO	47.9	286	P	13 57 16.5	1.0			LSA	66.6 289	+iP	13 59 28.3 0.2
			pP	13 57 32.0	3.4			KSH	67.8 306	P	13 59 37.0 1.1
			PP	13 59 11.0	5.1				pP	13 59 52.0	2.5
			S	14 04 06.0	-0.3				LN	Ms = 5.8	17.0 2.90
			LN	Ms = 5.4	16.0	1.70					
			LE		16.0	1.10					
			LZ	Ms = 5.4	16.0	2.00					
TIY	48.2	281	+iP	13 57 19.0	1.2						
			PMZ		1.0	0.14					
			pP	13 57 34.0	3.1						
			PP	13 59 15.0	6.3						
			LN	Ms = 5.4	15.0	1.54					
			LE		15.0	1.43					
WHN	51.7	273	P	13 57 44.0	-0.4						
			eP	13 57 44.3	0.5						
			pP	13 57 59.0	1.2						
			S	14 05 03.0	4.0						
			sS	14 05 26.0	2.9						
			LE	Ms = 5.1	16.0	0.90					
XAN	52.7	280	+P	13 57 51.6	-0.7						
			pP	13 58 08.0	2.4						
			S	14 05 18.0	4.8						
			LN	Ms = 5.4	16.0	1.43					
			LE		15.0	0.80					
QZH	52.9	264	+P	13 57 54.0	0.1						
			sS	14 05 43.0	2.6						
			LN	Ms = 5.7	6.0	1.19					
LZH	54.5	285	+iP	13 58 06.0	0.5						
			pP	13 58 20.0	1.2						
			S	14 05 40.0	2.9						
			LN	Ms = 5.7	16.0	2.25					
			LE		17.0	2.20					
GZH	57.6	267	eP	13 58 27.5	0.1						
CD2	58.0	281	P	13 58 30.3	-0.5						
			S	14 06 27.0	2.8						
			LZ	Ms = 5.4	20.0	1.85					
WMQ	58.6	302	+iP	13 58 35.0	0.1						
			PMZ		1.5	0.14					
GYA	59.3	275	+P	13 58 39.0	-1.0						

		1987 3 6			
O	= 15 27 40.0	±	0.12s		
LAT	= 16.65 N	±	2.29km		
LONG	= 59.77 E	±	1.29km		
DEPTH	= 11 km	±	0.17km		
STATIONS USED = 36,		STAND DEV = 0.97s			
KSH	26.8 29	eP	15 33 24.0	1.8	
LSA	31.5 60	P	15 34 03.9	-1.3	
WMQ	35.9 35	P	15 34 44.5	1.4	
GTA	41.5 49	P	15 35 30.4	0.7	
CD2	42.4 62	eP	15 35 35.6	-1.2	
GYA	44.5 69	P	15 35 54.0	0.3	
XAN	47.2 59	P	15 36 14.6	-0.7	
BJI	53.9 52	eP	15 37 05.5	-0.4	
CN2	61.2 49	+P	15 37 55.4	-2.1	

		1987 3 6			
O	= 16 30 24.9	±	0.31s		
LAT	= 51.83 N	±	4.47km		
LONG	= 178.88 E	±	2.26km		
DEPTH	= 44 km	±	0.53km		
STATIONS USED = 26,		STAND DEV = 1.05s			
SNY	38.3 277	-iP	16 37 43.2	0.0	
BJI	43.9 280	eP	16 38 29.0	-0.2	
TIY	47.6 280	eP	16 38 59.2	0.3	
XAN	52.2 279	P	16 39 32.2	-1.6	
GTA	54.1 290	P	16 39 47.3	-0.7	
CD2	57.5 280	eP	16 40 10.4	-2.1	
LSA	65.9 288	P	16 41 08.9	-0.8	

		1987 3 6			
O	= 16 54 49.6	±	0.08s		
LAT	= 51.05 N	±	2.78km		
LONG	= 179.60 E	±	1.20km		

DEPTH = 33 km ± 0.27km
STATIONS USED = 65, STAND DEV = 1.05s

MDJ	33.6	279	-iP	17 01 29.0	-0.7
CN2	36.6	280	+P	17 01 54.0	-1.2
SNY	38.8	279	+iP	17 02 14.6	0.9
BJI	44.5	281	eP	17 03 00.5	0.7
TIA	46.2	276	eP	17 03 13.9	0.1
HHC	46.8	285	+P	17 03 20.7	2.0
NJ2	47.8	271	+P	17 03 26.0	-0.4
TIY	48.2	281	+P	17 03 30.5	1.1
			PMZ		1.0 0.050
WHN	51.7	273	eP	17 03 55.0	-0.9
XAN	52.7	280	+P	17 04 03.5	-0.5
LZH	54.5	285	+iP	17 04 17.5	0.3
GTA	54.8	291	+iP	17 04 23.7	4.7
CD2	58.1	281	eP	17 04 41.7	-0.8
WMQ	58.7	302	P	17 04 46.4	-0.5
GYA	59.4	275	P	17 04 50.8	-0.9
LSA	66.6	289	+P	17 05 40.0	0.1
KSH	67.9	306	eP	17 05 49.0	1.0

1987 3 7
O = 01 36 28.7 ± 0.10s
LAT = 5.31 N ± 1.57km
LONG = 126.30 E ± 4.10km
DEPTH = 117 km ± 0.24km
STATIONS USED = 26, STAND DEV = 1.95s

XAN	32.8	333	-P	01 42 51.4	-2.1
CD2	33.1	323	P	01 42 54.6	-1.5
BJI	35.8	347	P	01 43 18.0	-0.4
SNY	36.4	357	eP	01 43 24.5	0.3
HHC	37.8	342	eP	01 43 36.0	0.5
GTA	41.5	329	eP	01 44 06.0	-0.6

1987 3 7
O = 03 16 30.7 ± 0.66s
LAT = 35.31 N ± 3.38km
LONG = 141.68 E ± 7.83km
DEPTH = 60 km
STATIONS USED = 42, STAND DEV = 2.28s
Ms = 4.4 / 12,

CN2	15.1	309	eP	03 20 07.0	4.9
			eS	03 22 54.0	6.7
			LZ	Ms = 4.2	15.0 0.90
SNY	15.6	300	-P	03 20 11.1	3.0
			eS	03 22 56.0	-2.1
			LN	Ms = 4.5	14.0 0.99
			LE		18.0 1.22
			LZ	Ms = 4.4	19.0 1.55
BJI	20.7	291	eP	03 21 05.0	-3.6

			LN	Ms = 4.4		
HHC	24.3	292	eP	03 21 43.6	-0.3	
BTO	25.4	291	eP	03 21 54.0	-1.0	
			ePP	03 22 28.0	-6.6	
			eS	03 26 11.0	-4.0	
			LN	Ms = 4.5		15.0 0.70
			LE			15.0 0.30
			LZ	Ms = 4.3		14.0 0.40
XAN	26.9	277	P	03 22 07.4	-1.2	
			LN	Ms = 4.7		12.0 0.51
			LE			15.0 0.80
LZH	30.6	283	eP	03 22 41.0	-0.9	
GYA	31.2	263	P	03 22 45.4	-1.6	
CD2	31.9	273	eP	03 22 52.1	-1.3	
GTA	33.3	290	eP	03 23 05.4	-0.1	
WMQ	41.8	299	P	03 24 19.0	2.2	

1987 3 7
O = 06 11 16.0 ± 0.12s
LAT = 16.00 S ± 1.58km
LONG = 167.57 E ± 2.78km
DEPTH = 37 km ± 0.40km
STATIONS USED = 75, STAND DEV = 1.02s
Ms = 5.5 / 31, m_B = 5.8 / 12

QZH	62.7	310	+P	06 21 40.0	-0.2	
			pP	06 21 52.0	1.3	
			S	06 30 08.0	4.3	
			sS	06 30 24.0	1.6	
			LZ	Ms = 5.6		20.0 2.50
SSE	64.6	317	eP	06 21 52.0	-0.7	
			eS	06 30 30.0	1.4	
			SS	06 34 41.0	0.8	
			LN	Ms = 5.6		20.0 2.16
			LE			20.0 1.50
			LZ	Ms = 5.7		20.0 2.91
GZH	65.7	305	eP	06 22 01.7	1.9	
			eS	06 30 48.6	6.5	
			LN	Ms = 5.9		6.0 1.29
QZN	66.6	299	eP	06 22 06.0	0.6	
			ePP	06 24 36.0	2.9	
			eS	06 30 56.0	3.3	
			SMN	m _B = 5.7		9.0 0.83
			SS	06 35 17.5	6.7	
			LE	Ms = 5.3		15.0 0.84
NJ2	66.8	316	+P	06 22 05.0	-1.5	
			S	06 30 59.0	5.5	
			LZ	Ms = 5.5		21.0 2.10
WHN	69.0	312	eP	06 22 20.0	-0.4	
			pP	06 22 30.0	-0.8	
			S	06 31 24.0	3.9	

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BJI	54.4	330	P	15 00 17.0	-2.1
TIY	54.7	326	eP	15 00 18.8	-2.3
			LZ	Ms=4.9	26.0 0.76
CD2	56.0	314	eP	15 00 31.0	0.5
LZH	58.9	319	P	15 00 51.5	0.5
GTA	63.4	320	eP	15 01 20.8	-0.8
LSA	65.0	307	eP	15 01 33.0	0.4
WMQ	73.4	319	eP	15 02 24.4	0.4

1987 3 7

O=15 25 43.2 ± 0.14s
 LAT=24.76 N ± 2.08km
 LONG=123.49 E ± 1.89km
 DEPTH= 36 km ± 0.56km
 STATIONS USED = 22, STAND DEV= 2.32s
 Ms=3.8 / 3, M_L=3.2 / 2,

QZH	4.5	273	eP	15 26 51.3	1.1
			LN	Ms=3.7	12.0 1.45
SSE	6.6	343	eP	15 27 18.5	-2.3
			LE	Ms=3.8	16.0 1.43
GYA	15.3	280	eP	15 29 22.0	3.8
XAN	15.7	309	P	15 29 27.0	3.5
			LN	Ms=3.9	12.0 0.31
CD2	18.5	294	eP	15 29 56.1	-2.4
CN2	19.1	4	+P	15 30 06.8	1.4
LZH	20.3	308	eP	15 30 17.5	-1.8

1987 3 7

O=17 05 18.4 ± 0.06s
 LAT= 6.93 S ± 0.94km
 LONG=129.50 E ± 1.40km
 DEPTH=147 km ± 0.17km
 STATIONS USED = 68, STAND DEV= 0.79s

QZN	32.3	323	eP	17 11 35.5	-0.1
SSE	38.6	349	eP	17 12 30.0	0.5
GYA	39.9	327	P	17 12 40.6	0.5
			PcP	17 14 44.2	1.5
WHN	40.0	339	eP	17 12 42.0	1.4
NJ2	40.1	346	+P	17 12 42.0	0.7
CD2	45.0	328	P	17 13 21.0	-0.2
XAN	45.2	336	+iP	17 13 22.0	-0.7
			PcP	17 15 01.4	1.1
TIY	47.2	342	eP	17 13 37.8	-0.7
BJI	48.3	346	eP	17 13 47.0	-0.3
			PcP	17 15 12.5	0.9
SNY	48.8	354	+P	17 13 50.9	-0.3
LZH	49.1	332	+iP	17 13 54.0	0.4
CN2	50.6	356	+P	17 14 03.8	-1.1
MDJ	51.3	0	+iP	17 14 10.2	0.1
LSA	51.8	317	+P	17 14 13.9	-0.4

GTA	53.7	332	+iP	17 14 27.7	-0.1
			PcP	17 15 32.4	1.1
WMQ	63.1	327	P	17 15 33.2	0.2

1987 3 7

O=17 20 55.3 ± 0.07s
 LAT= 7.30 N ± 1.11km
 LONG=121.81 E ± 1.45km
 DEPTH= 34 km ± 0.16km
 STATIONS USED = 70, STAND DEV= 0.99s
 Ms=4.5 / 7, m_B=4.9 / 1

QZN	16.5	316	eP	17 24 47.0	1.4
			sP	17 24 57.0	-0.9
			eS	17 27 48.0	1.2
			LN	Ms=4.5	11.0 0.80
			LE		13.0 0.80
GZH	17.7	333	eP	17 25 02.2	1.4
			eS	17 28 16.5	2.0
QZH	17.8	350	eP	17 25 04.0	1.5
			SME	m _B =4.9	8.0 0.43
SSE	23.7	359	eP	17 26 06.0	1.0
			pP	17 26 12.4	-1.7
			sP	17 26 16.0	-2.2
			S	17 30 16.0	2.2
			LN	Ms=4.7	20.0 1.84
GYA	23.9	325	-P	17 26 07.6	0.4
			sP	17 26 17.8	-2.5
WHN	24.2	344	eP	17 26 10.5	0.8
NJ2	24.8	354	eP	17 26 17.0	1.3
			sP	17 26 27.0	-1.9
			LZ	Ms=4.2	16.0 0.40
CD2	28.9	327	P	17 26 53.0	-1.0
XAN	29.2	338	eP	17 26 53.8	-2.1
			LE	Ms=4.6	13.0 0.58
TIY	31.4	346	eP	17 27 15.2	-1.2
			LN	Ms=4.5	15.0 0.44
BJI	33.0	352	P	17 27 28.0	-1.7
LZH	33.0	333	eP	17 27 29.5	-0.8
SNY	34.4	2	eP	17 27 41.2	-0.8
LSA	36.4	312	-P	17 27 58.7	-0.9
CN2	36.5	4	eP	17 28 02.0	2.3
MDJ	37.8	9	eP	17 28 11.0	0.4
WMQ	47.0	326	P	17 29 26.0	0.1
KSH	52.0	315	eP	17 30 06.0	1.5

• 1987 3 7

O=17 34 55.6 ± 0.04s
 LAT=30.74 N ± 0.97km
 LONG=137.84 E ± 0.79km
 DEPTH=454 km ± 0.41km

WHN 147.6 341 eP 23 18 01.0 2.2

1987 3 7

O=23 18 56.2 ± 0.06s

LAT= 0.75 N ± 0.97km

LONG=126.05 E ± 2.31km

DEPTH= 32 km ± 0.12km

STATIONS USED = 23, STAND DEV= 0.99s

GYA	31.6	325	P	23 25 19.2	0.0
CD2	36.7	327	eP	23 26 03.0	0.5
XAN	36.8	336	-P	23 26 03.6	0.2
BJI	40.1	348	P	23 26 30.0	-1.1
SNY	41.0	357	eP	23 26 37.8	-0.1
CN2	42.9	359	eP	23 26 55.0	1.3
MDJ	43.8	4	eP	23 27 01.5	0.3
GTA	45.3	331	eP	23 27 15.0	1.3

1987 3 8

O=05 10 02.1 ± 0.05s

LAT=25.55 N ± 1.07km

LONG=124.64 E ± 0.74km

DEPTH=179 km ± 1.15km

STATIONS USED = 39, STAND DEV= 1.19s

QZH	5.5	265	+P	05 11 22.0	-1.6
NJ2	8.2	323	+P	05 12 02.0	2.6
WHN	10.4	301	eP	05 12 27.0	-0.2
TIY	15.9	322	+P	05 13 40.0	1.7
XAN	16.0	305	P	05 13 40.0	0.6
BJI	16.1	336	eP	05 13 40.5	0.6
GYA	16.2	277	P	05 13 43.0	1.8
CN2	18.2	2	eP	05 14 04.0	-0.4
HHC	18.7	328	eP	05 14 10.1	0.1
CD2	19.1	291	eP	05 14 13.5	-0.7
BTO	19.3	325	eP	05 14 16.0	-0.1
GTA	25.0	310	P	05 15 10.4	-0.9

1987 3 8

O=11 26 26.7 ± 0.07s

LAT=43.86 N ± 0.68km

LONG= 87.24 E ± 0.57km

DEPTH= 13 km ± 0.19km

STATIONS USED = 6, STAND DEV= 1.75s

$M_L=3.0/6,$

WMQ	0.3	98	+iPg	11 26 32.0	-1.3
			Sg	11 26 37.5	-0.6
			SME	$M_L=2.6$	0.2 0.47

1987 3 8

O=12 51 43.8 ± 0.19s

LAT=20.14 S ± 5.16km

LONG= 70.34 W ± 5.02km

DEPTH= 21 km ± 1.43km

STATIONS USED = 51, STAND DEV= 2.09s

KSH	145.3	49	PKP	13 11 22.0	0.8
WMQ	150.1	33	PKP	13 11 29.3	0.3
MDJ	150.5	330	ePKP	13 11 28.5	-1.0
GTA	159.0	22	iPKP	13 11 40.7	-0.6
HHC	159.3	356	ePKP	13 11 43.5	1.9
BJI	159.4	346	ePKP	13 11 41.5	0.0
LSA	160.7	57	-iPKP	13 11 42.9	-0.5
TIY	162.3	353	ePKP	13 11 44.8	0.2
TIA	162.7	339	ePKP	13 11 45.4	0.5
LZH	163.3	17	ePKP	13 11 46.5	0.8
XAN	166.1	3	PKP	13 11 48.0	-0.3
CD2	168.0	25	ePKP	13 11 49.2	-0.3
GYA	173.1	23	PKP	13 11 51.8	-0.7

1987 3 8

O=13 12 33.4 ± 0.21s

LAT=10.04 N ± 6.01km

LONG= 56.81 E ± 4.41km

DEPTH= 10 km ± 0.11km

STATIONS USED = 21, STAND DEV= 3.35s

CD2	48.2	57	eP	13 21 10.4	-6.3
XAN	53.2	55	P	13 21 53.0	-1.8
TIY	56.9	51	eP	13 22 19.3	-2.1
BJI	60.2	50	eP	13 22 49.0	4.1
CN2	67.7	47	eP	13 23 36.0	2.2

1987 3 8

O=14 35 58.5 ± 0.05s

LAT=37.86 N ± 0.54km

LONG=102.05 E ± 0.51km

DEPTH= 8 km ± 0.12km

STATIONS USED = 12, STAND DEV= 1.95s

$M_L=3.3/9,$

LZH	2.3	140	Pg	14 36 39.0	0.1
			Sn	14 37 08.0	1.1
			SMN	$M_L=3.9$	1.0 0.97
			SME		1.0 0.58
GTA	2.3	312	Pn	14 36 38.4	0.5
			Pg	14 36 40.6	0.7
			Sg	14 37 11.6	-0.3
			SMN	$M_L=3.7$	0.5 0.45
			SME		0.5 0.42
XAN	6.7	122	ePg	14 37 57.3	-0.5
			Sg	14 39 25.4	-4.5
			SMN	$M_L=3.1$	1.0 0.010
			SME		1.0 0.010
BTO	6.8	64	ePg	14 37 57.2	-1.0

1987 3 9
 O=02 48 41.3 ± 0.12s
 LAT=25.28 N ± 1.46km
 LONG=100.05 E ± 1.04km
 DEPTH= 6 km ± 0.66km
 STATIONS USED = 8, STAND DEV= 3.18s
 M_L=3.8/ 3,
 KMI 2.4 93 Pg 02 49 26.0 1.3
 Sg 02 49 58.0 0.3
 SMN M_L=3.6 0.6 0.40
 SME 1.0 0.30
 CD2 6.5 29 P* 02 50 24.5 -5.2

1987 3 9
 O=03 13 36.3 ± 0.08s
 LAT=38.22 N ± 1.69km
 LONG= 73.92 E ± 1.24km
 DEPTH= 21 km ± 0.67km
 STATIONS USED = 32, STAND DEV= 2.17s
 M_s=4.3/ 1, M_L=4.4/ 2,
 KSH 2.0 52 Pg 03 14 14.0 1.5
 Sg 03 14 39.0 -1.1
 LE 0.5 25.6
 WMQ 11.8 57 P 03 16 30.0 3.0
 S 03 18 39.0 0.2
 LN M_s=4.3 7.0 0.82
 LSA 16.6 116 P 03 17 32.0 1.6
 GTA 20.2 79 P 03 18 12.0 -1.0
 LZH 23.9 86 eP 03 18 52.0 1.9
 XAN 28.5 88 eP 03 19 32.4 -0.2

1987 3 9
 O=10 05 00.1 ± 0.09s
 LAT= 7.58 N ± 1.66km
 LONG=126.70 E ± 1.93km
 DEPTH= 79 km ± 0.11km
 STATIONS USED = 78, STAND DEV= 1.70s
 M_s=4.4/ 13,
 QZN 19.9 306 +P 10 09 29.0 0.6
 pP 10 09 43.0 -1.0
 S 10 13 06.0 3.1
 sS 10 13 25.0 -1.7
 SS 10 13 40.0 4.8
 LE M_s=4.4 13.0 0.74
 GZH 20.1 322 eP 10 09 30.2 0.5
 pP 10 09 47.2 1.7
 eS 10 13 13.0 7.0
 LN M_s=4.7 36.0 3.70
 SSE 24.0 348 eP 10 10 11.8 3.5

cS 10 14 10.0 -6.5
 LN M_s=4.4 20.0 0.90
 LZ M_s=4.6 20.0 1.16
 NJ2 25.4 344 -P 10 10 25.0 2.7
 LZ M_s=4.4 20.0 0.80
 GYA 26.7 317 P 10 10 35.0 0.3
 KMI 28.8 310 +P 10 10 54.0 0.9
 TIA 29.8 344 eP 10 11 00.0 -2.2
 LN M_s=4.3 23.0 0.38
 LE 23.0 0.34
 LZ M_s=4.3 23.0 0.50
 XAN 31.0 331 P 10 11 10.6 -2.4
 CD2 31.6 320 eP 10 11 16.8 -1.3
 LZ M_s=5.0 10.0 1.06
 TIY 32.7 339 eP 10 11 26.0 -1.3
 LN M_s=4.5 16.0 0.52
 SNY 34.2 356 +iP 10 11 40.3 -0.3
 LN M_s=4.5 24.0 0.64
 LZ M_s=4.6 24.0 0.79
 LZH 35.2 327 eP 10 11 49.0 -0.5
 HHC 35.8 340 eP 10 11 55.0 1.0
 RIO 36.1 338 eP 10 11 57.5 0.8
 CN2 36.1 358 P 10 11 55.6 -1.0
 MDJ 37.0 3 +iP 10 12 04.5 0.5
 GTA 39.8 327 +iP 10 12 27.9 -0.1
 LE M_s=4.3 28.0 0.39
 WMQ 49.6 323 P 10 13 46.6 0.7

1987 3 9
 O=12 06 23.5 ± 0.06s
 LAT= 0.88 S ± 0.88km
 LONG=129.96 E ± 1.70km
 DEPTH= 23 km ± 0.11km
 STATIONS USED = 10, STAND DEV= 1.63s
 XAN 40.0 332 eP 12 13 57.8 -0.5

1987 3 9
 O=14 24 18.9 ± 0.19s
 LAT=29.59 N ± 1.63km
 LONG=103.36 E ± 1.36km
 DEPTH= 17 km ± 0.64km
 STATIONS USED = 7, STAND DEV= 4.86s
 M_L=3.1/ 7,
 XAN 6.5 45 ePg 14 26 15.6 2.0
 Sg 14 27 36.6 -5.5
 SMN M_L=3.6 1.0 0.030
 SME 1.0 0.040

1987 3 9
 O=17 46 02.9 ± 0.08s

LAT=36.37 N ± 0.49km
 LONG= 80.96 E ± 1.12km
 DEPTH= 2 km ± 1.35km
 STATIONS USED = 7, STAND DEV= 3.55s

$M_L=3.8/6,$

KSH	5.0	310	ePn	17 47 21.0	1.7		
			Sg	17 48 40.0	0.4		
			SMN	$M_L=4.3$	1.0	0.50	
			SME		1.0	0.30	
			SMZ		2.0	2.00	

1987 3 9

O=20 32 18.7 ± 0.16s
 LAT=22.22 N ± 2.50km
 LONG=120.32 E ± 2.53km
 DEPTH= 36 km ± 0.90km
 STATIONS USED = 57, STAND DEV= 2.74s
 $M_s=4.3/21, M_L=4.0/9,$

QZH	3.1	330	P	20 33 04.2	-2.9		
			S	20 33 37.4	-6.1		
			LN	$M_s=3.7$	8.0	1.75	
			LE		16.0	2.38	
GZH	6.5	279	eP	20 33 50.0	-4.6		
			LE	$M_s=4.2$	14.0	3.18	
SSE	8.9	5	eP	20 34 29.5	1.9		
			LN	$M_s=4.4$	10.0	1.61	
			LE		10.0	1.17	
			LZ	$M_s=4.1$	14.0	1.45	
WHN	9.9	328	eP	20 34 36.5	-4.8		
			LN	$M_s=4.5$	8.0	1.60	
NJ2	9.9	353	eP	20 34 46.0	4.5		
			S	20 36 35.0	3.1		
			LN	$M_s=4.4$	8.0	1.40	
QZN	10.3	254	eP	20 34 44.8	-2.6		
			LN	$M_s=4.2$	13.0	0.90	
			LE		16.0	1.40	
GYA	13.1	291	P	20 35 30.8	4.9		
			pP	20 35 37.8	4.7		
			S	20 37 52.0	0.9		
			LN	$M_s=4.6$	12.0	0.90	
			LE		12.0	1.80	
XAN	15.5	322	P	20 36 00.0	3.8		
			LN	$M_s=4.6$	7.0	0.84	
KMI	16.4	284	eP	20 36 10.5	2.7		
TIY	16.9	338	eP	20 36 14.5	0.5		
			LN	$M_s=4.4$	13.0	0.79	
			LE		11.0	0.33	
BJI	18.1	350	eP	20 36 29.0	-0.4		
LZH	19.9	318	-P	20 36 49.5	-1.0		
BTO	20.3	337	eP	20 36 55.0	0.5		

			sP	20 37 09.0	1.1		
			eS	20 40 32.0	-3.6		
			LN	$M_s=4.3$	11.0	0.30	
			LE		11.0	0.40	
CN2	21.9	10	eP	20 37 10.0	-1.1		
			eS	20 41 00.0	-6.3		
			LZ	$M_s=4.6$	15.0	1.20	
MDJ	23.6	17	-P	20 37 28.0	0.5		
GTA	24.5	319	eP	20 37 35.2	-0.9		
LSA	27.2	292	eP	20 38 01.2	-0.9		
WMQ	34.5	316	eP	20 39 05.4	-0.3		

1987 3 9

O=23 37 57.1 ± 0.09s
 LAT=30.06 N ± 0.38km
 LONG=101.78 E ± 0.66km
 DEPTH= 17 km ± 0.79km
 STATIONS USED = 5, STAND DEV= 3.61s

$M_L=2.8/3,$

XAN	7.2	55	Pg	23 40 07.6	2.5		
			Sn	23 41 01.0	-5.9		
			Sg	23 41 39.0	-5.0		

1987 3 10

O=00 22 35.8 ± 0.22s
 LAT=18.23 S ± 4.03km
 LONG= 71.99 W ± 5.75km
 DEPTH= 31 km ± 2.03km
 STATIONS USED = 75, STAND DEV= 2.10s
 $M_s=5.9/21, m_B=6.1/11$

KSH	145.2	46	iPKP	00 42 13.0	1.5		
			PP	00 45 34.0	1.1		
			eSKS	00 49 17.0	2.9		
			LE	$M_s=6.1$	14.0	1.60	
MDJ	148.1	330	ePKP	00 42 16.5	0.2		
			pPKP	00 42 20.5	-4.7		
			PP	00 45 50.0	-0.5		
			LZ	$M_s=6.0$	8.0	0.70	
WMQ	149.3	29	PKP	00 42 18.0	-0.3		
			PP	00 45 58.0	1.3		
			SKS	00 49 24.0	4.2		
			SKKS	00 52 52.0			
			LZ	$M_s=6.0$	22.0	2.12	
CN2	150.6	334	PKP	00 42 18.0	-2.2		
			ePP	00 45 58.0	-6.6		
			PPMZ	$m_B=6.0$	8.0	0.90	
			LZ	$M_s=5.9$	20.0	1.40	
SNY	153.0	334	iPKP	00 42 23.0	-0.7		
			PP	00 46 13.0	-4.9		
HHC	157.3	353	PKP	00 42 32.0	2.4		

LONG = 178.79 W ± 2.24km
 DEPTH = 362 km ± 1.15km
 STATIONS USED = 39, STAND DEV = 1.21s

MDJ	84.5	326	eP	04 34 17.5	0.3
WHN	85.0	307	eP	04 34 20.0	0.1
CN2	86.1	323	eP	04 34 24.0	-1.0
TIA	86.3	313	eP	04 34 26.4	0.1
GYA	88.7	300	P	04 34 38.4	1.0
BJI	89.2	316	eP	04 34 37.0	-2.6
TIY	90.3	312	eP	04 34 45.5	0.6
XAN	90.8	308	P	04 34 47.2	0.0
CD2	93.0	303	eP	04 34 57.6	-0.1

1987 3 10
 O = 07 43 46.3 ± 0.11s
 LAT = 51.72 N ± 3.87km
 LONG = 175.26 W ± 2.02km
 DEPTH = 32 km ± 0.48km
 STATIONS USED = 41, STAND DEV = 1.31s

CN2	39.6	283	+P	07 51 17.8	0.6
SNY	41.9	281	-iP	07 51 37.1	1.4
DL2	44.8	279	P	07 52 00.0	0.4
BJI	47.5	284	eP	07 52 21.0	0.6
SSE	50.2	272	eP	07 52 43.0	1.3
			pP	07 52 53.0	2.2
TIY	51.2	284	eP	07 52 50.5	1.3
WHN	54.8	276	P	07 53 16.0	-0.2
XAN	55.8	283	+P	07 53 22.6	-0.3
CD2	61.1	284	eP	07 53 57.2	-2.8
GYA	62.5	278	P	07 54 09.0	-0.6

1987 3 10
 O = 08 58 40.6 ± 0.25s
 LAT = 16.59 S ± 8.86km
 LONG = 176.88 E ± 14.14km
 DEPTH = 29 km ± 3.32km
 STATIONS USED = 16, STAND DEV = 1.82s

MDJ	74.6	327	eP	09 10 19.5	0.0
CN2	76.3	324	eP	09 10 29.0	-0.3
TIA	77.1	314	eP	09 10 34.4	0.6
GYA	80.5	301	P	09 10 55.0	2.5
XAN	81.9	309	eP	09 11 00.0	0.1
CD2	84.6	304	P	09 11 14.4	0.8
LZH	86.5	309	eP	09 11 25.0	1.7

1987 3 10
 O = 12 02 35.6 ± 0.19s
 LAT = 28.36 N ± 1.41km
 LONG = 103.43 E ± 1.16km
 DEPTH = 11 km ± 0.55km

STATIONS USED = 6, STAND DEV = 2.34s
 M_L = 3.0 / 6,

CD2	2.6	6	Pg	12 03 18.6	-2.3
			Sg	12 03 54.0	-1.7
			SMN	M _L = 3.1	0.5 0.10
			SME		0.6 0.11
GYA	3.4	123	Pn	12 03 31.0	1.3
			Sg	12 04 28.0	4.5
			SMN	M _L = 2.9	1.0 0.040
			SME		1.0 0.030

1987 3 10
 O = 16 14 52.3 ± 0.07s
 LAT = 40.77 N ± 1.33km
 LONG = 145.20 E ± 1.13km
 DEPTH = 33 km ± 0.42km
 STATIONS USED = 103, STAND DEV = 1.09s
 M_s = 5.4 / 65, m_B = 5.8 / 28

MDJ	12.1	294	+P	16 17 44.8	-0.8
			sP	16 17 58.0	0.6
			SS	16 20 10.0	-4.8
			LZ	M _s = 5.1	12.0 7.10
CN2	14.9	288	+P	16 18 21.4	-1.5
			PMZ	m _B = 5.9	12.0 2.80
			pP	16 18 29.5	-0.6
			cS	16 21 05.0	-3.0
			LZ	M _s = 5.4	18.0 15.2
SNY	16.3	281	-P	16 18 40.5	0.2
			PMZ	m _B = 5.8	5.0 2.15
			sP	16 18 55.0	2.7
			S	16 21 40.0	1.0
			SMN	m _B = 5.4	9.5 1.78
			SME		10.0 1.00
			LN	M _s = 5.2	12.0 3.72
			LE		13.0 4.37
			LZ	M _s = 5.2	13.0 5.70
DL2	18.2	272	+P	16 19 03.0	-1.2
			pP	16 19 11.0	-0.8
			S	16 22 27.5	5.0
			LN	M _s = 5.2	12.0 3.00
			LE		12.0 3.77
SSE	21.7	251	+P	16 19 42.0	-0.1
			PMZ		1.2 0.13
			pP	16 19 51.0	0.1
			PP	16 20 04.5	-2.0
			iS	16 23 37.0	1.9
			LN	M _s = 5.5	16.0 5.81
			LE		16.0 7.16
			LZ	M _s = 5.1	20.0 5.24
BJI	22.1	278	eP	16 19 45.5	-0.8

			ePP	16 20 16.0	3.8				S	16 25 14.0	4.1		
			cS	16 23 45.5	2.5				LN	Ms=5.3	15.0	3.36	
			PMZ	m _B =5.3	7.0	1.02			LE		15.0	2.31	
			SME	m _B =5.9	10.0	4.30	XAN	29.4 269	-iP	16 20 55.4	-0.1		
			LN	Ms=4.8	14.0	1.76			PMZ	m _B =5.8	8.0	1.62	
TIA	22.4	267	+P	16 19 49.0	-0.5				S	16 25 39.0	-6.5		
			sP	16 20 06.0	3.5				LN	Ms=5.5	13.0	1.45	
			PP	16 20 18.0	1.4				LE		15.0	4.80	
			S	16 23 49.0	0.8		GZH	32.0 246	-P	16 21 19.4	0.9		
			SMN	m _B =6.4	9.0	6.70			S	16 26 28.0	1.6		
			SME		9.0	7.37			LN	Ms=5.6	14.0	4.85	
			SS	16 24 35.6	5.8				LE		14.0	3.49	
			LN	Ms=5.4	13.5	1.78	LZH	32.5 275	-iP	16 21 24.0	1.2		
			LE		13.5	5.37			PMZ		1.5	0.28	
			LZ	Ms=5.4	13.5	5.70			pP	16 21 28.0	-3.7		
NJ2	22.9	256	+P	16 19 53.4	-0.6				SMN	m _B =5.9	7.0	1.95	
			pP	16 20 01.0	-1.9				S	16 26 38.0	4.2		
			S	16 23 56.0	-0.4				sS	16 26 45.0	-5.0		
			LN	Ms=5.7	15.0	14.5			LN	Ms=5.4	12.0	1.82	
			LZ	Ms=5.3	17.0	6.30			LE		12.0	2.65	
HHC	25.4	281	-P	16 20 21.0	2.5		GTA	34.5 283	-iP	16 21 40.5	1.0		
			pP	16 20 31.5	4.2				pP	16 21 51.6	3.0		
			S	16 24 42.0	2.3				PcP	16 24 14.7	0.8		
			SMN	m _B =6.0	9.0	1.45			PMZ	m _B =5.5	10.0	0.82	
			SME		9.0	3.87			S	16 27 04.0	0.1		
			LN	Ms=5.3	13.0	3.18			sS	16 27 23.0	2.9		
			LE		13.0	2.60			SME	m _B =5.6	7.5	0.86	
TIY	25.5	274	eP	16 20 20.1	0.6				LE	Ms=5.3	16.0	2.65	
			PMZ	m _B =6.0	8.0	3.44			LZ	Ms=5.2	16.0	2.37	
			SMN	m _B =6.2	10.0	2.94	CD2	34.7 267	-iP	16 21 41.4	-0.4		
			SME		9.0	5.25			S	16 27 09.0	0.8		
			LN	Ms=5.4	13.0	4.29			LN	Ms=5.5	15.0	4.13	
			LZ	Ms=5.2	15.0	3.73			LZ	Ms=5.5	15.0	4.17	
BTO	26.6	281	P	16 20 30.2	0.5		GYA	34.8 258	-P	16 21 42.0	-0.7		
			pP	16 20 42.0	3.4				pP	16 21 52.0	0.1		
			PP	16 21 16.0	2.6				PcP	16 24 15.0	0.0		
			S	16 25 01.5	2.1				S	16 27 10.0	0.2		
			SS	16 26 16.0	5.0				LN	Ms=5.7	15.0	4.40	
			LN	Ms=5.5	14.0	3.30			LE		15.0	5.10	
			LE		15.0	6.10			QZN	37.2 245	-P	16 22 03.0	0.6
			LZ	Ms=5.5	15.0	6.30			PP	16 23 31.0	1.5		
WHN	26.9	258	-iP	16 20 33.5	0.5				S	16 27 46.0	0.2		
			PMZ		1.0	0.050			SMN	m _B =5.8	12.0	1.90	
			PP	16 21 24.0	5.6				SME		9.0	1.00	
			S	16 25 10.0	4.6				eSS	16 30 20.0	2.7		
			SME	m _B =5.6	9.0	1.40			LN	Ms=5.6	16.0	3.30	
			LN	Ms=5.6	16.0	9.00			LE		15.0	3.00	
QZH	27.2	243	-iP	16 20 34.0	-1.5		KMI	38.5 259	-iP	16 22 14.5	0.7		
			PMZ	m _B =5.7	6.0	0.93			PP	16 23 46.0	0.6		
			pP	16 20 44.5	0.0				S	16 28 04.0	-2.0		

			LE	Ms=5.6	16.0	4.70			pP	18 29 43.0	-0.4		
			LZ	Ms=5.8	16.0	8.30			S	18 33 42.5	4.3		
WMQ	41.9	294	-P	16 22 42.8	0.9				LN	Ms=5.4	16.0	6.80	
			S	16 29 00.0	3.1				LZ	Ms=5.1	17.0	3.40	
			LN	Ms=5.8	15.0	6.07	HHC	25.3	281	-P	18 30 01.0	1.3	
LSA	44.9	273	-P	16 23 06.4	0.1				S	18 34 24.0	3.0		
			SMN	m _B =5.8	8.0	1.11			SME	m _B =5.7	9.0	2.02	
			LN	Ms=5.3	18.0	2.07			LE	Ms=5.0	15.0	2.12	
KSH	51.7	293	eP	16 24 00.0	1.3		BTO	26.5	281	-iP	18 30 11.5	0.6	
			PP	16 25 59.0	3.0				PP	18 30 52.0	-2.2		
			ScS	16 33 43.0	0.8				S	18 34 41.0	0.2		
			LN	Ms=5.9	13.0	4.90			SS	18 35 45.0	-6.7		
									LN	Ms=5.2	16.0	1.70	
									LE		16.0	3.40	
									LZ	Ms=5.2	16.0	3.60	
							WHN	26.9	257	-iP	18 30 14.0	-0.4	
									PMZ		1.5	0.20	
									S	18 34 52.0	4.7		
									LN	Ms=5.5	16.0	4.60	
									LE		16.0	4.10	
							QZH	27.2	243	+P	18 30 16.0	-1.1	
									sP	18 30 26.0	-2.9		
									S	18 34 58.0	5.9		
									sS	18 35 10.0	3.6		
									LN	Ms=5.1	14.0	2.24	
							XAN	29.4	268	-iP	18 30 36.0	-0.9	
									pP	18 30 46.0	1.0		
									PcP	18 33 42.0	0.0		
									LN	Ms=5.1	13.0	1.22	
									LE		14.0	1.35	
							GZH	32.0	246	P	18 31 01.0	0.9	
									S	18 36 13.0	4.4		
									LN	Ms=5.2	16.0	2.69	
									LZ	Ms=5.2	14.0	2.38	
							GTA	34.4	283	-iP	18 31 21.3	0.5	
									pP	18 31 26.5	-2.4		
									PP	18 32 40.0	4.1		
									PcP	18 33 55.0	-0.4		
									PMZ	m _B =5.3	9.0	0.40	
									S	18 36 48.5	3.2		
									LE	Ms=5.0	16.0	1.53	
									LZ	Ms=5.0	17.0	1.40	
							CD2	34.7	267	-iP	18 31 22.6	-0.6	
									PMZ		1.5	0.12	
									S	18 36 52.0	2.1		
									LZ	Ms=5.4	14.0	2.78	
							GYA	34.8	258	-P	18 31 23.2	-1.1	
									S	18 36 53.0	1.3		
									LN	Ms=5.5	15.0	2.00	
									LE		15.0	3.10	

1987 3 10
 O=18 24 33.1 ± 0.06s
 LAT=40.85 N ± 1.50km
 LONG=145.16 E ± 1.04km
 DEPTH= 27 km ± 0.58km
 STATIONS USED = 97, STAND DEV = 1.13s
 Ms=5.1/53, m_B=5.8/16

CN2	14.9	288	+P	18 28 01.8	-1.8								
			eS	18 30 45.0	-3.5								
			LZ	Ms=5.0	18.0	6.40							
SNY	16.2	281	+P	18 28 20.2	-1.0								
			PMZ	m _B =5.8	4.0	1.61							
			S	18 31 22.0	2.3								
			LN	Ms=4.9	11.5	1.79							
			LE		12.5	2.55							
			LZ	Ms=4.9	13.0	2.99							
DL2	18.2	272	P	18 28 44.0	-1.3								
			S	18 32 06.0	2.4								
			LN	Ms=4.8	12.0	1.00							
			LE		13.0	1.96							
SSE	21.7	251	-P	18 29 23.4	-0.2								
			PMZ	m _B =5.7	10.0	3.62							
			S	18 33 16.0	-0.4								
			sS	18 33 29.0	-0.7								
			SS	18 33 52.0	-1.1								
			LN	Ms=5.2	16.0	3.49							
			LE		16.0	4.01							
			LZ	Ms=5.0	18.0	3.45							
TIA	22.4	267	eP	18 29 29.2	-1.7								
			PMZ	m _B =5.8	4.0	1.55							
			S	18 33 29.2	-0.5								
			SMN	m _B =6.1	8.0	3.46							
			SME		8.0	4.54							
			LN	Ms=5.3	15.0	3.93							
			LE		15.0	3.24							
			LZ	Ms=6.2	15.0	40.0							
NJ2	22.8	256	+iP	18 29 38.0	2.5								

Ms = 4.8 / 20,				O = 08 31 51.1 ± 0.07s					
SSE	26.3	302	eP	04 55 06.0	-2.2			LAT = 51.43 N	± 2.86km
			LE		Ms = 4.8	16.0	1.43	LONG = 178.34 W	± 1.16km
			LZ		Ms = 4.9	16.0	1.72	DEPTH = 32 km	± 0.27km
QZH	27.0	288	eP	04 55 16.0	1.3			STATIONS USED = 52, STAND DEV = 1.08s	
			eS	04 59 48.0	0.8			MDJ 34.8 280 eP 08 38 41.0 -0.6	
			LE		Ms = 4.6	16.0	0.88	SNY 40.1 280 +P 08 39 26.0 0.7	
MDJ	29.5	334	eP	04 55 37.5	0.6			BJI 45.6 282 eP 08 40 11.0 0.2	
SNY	30.4	324	+P	04 55 44.2	-0.2			TIA 47.4 278 eP 08 40 25.2 0.2	
			LN		Ms = 4.6	22.0	0.99	HHC 48.0 286 eP 08 40 31.6 2.4	
			LZ		Ms = 4.7	22.0	1.24	SSE 48.3 269 eP 08 40 32.0 0.4	
CN2	30.8	329	eP	04 55 50.0	2.0			PMZ 1.0 0.020	
			pP	04 55 57.0	-2.5			BTO 49.0 287 P 08 40 38.5 1.0	
			eS	05 00 50.0	3.7			NJ2 49.1 272 eP 08 40 38.0 0.2	
			LZ		Ms = 4.8	20.0	1.50	TIY 49.4 282 eP 08 40 40.0 -0.1	
TIA	31.5	309	-P	04 55 54.0	-0.3			WHN 52.9 274 -iP 08 41 07.5 0.5	
			eS	05 01 03.0	5.4			XAN 53.9 281 eP 08 41 13.6 -0.8	
			LN		Ms = 4.7	15.0	0.87	LZH 55.6 286 +P 08 41 27.0 0.0	
BJI	33.9	315	eP	04 56 15.0	-0.3			PMZ 1.5 0.070	
			pP	04 56 22.0	-5.0			CD2 59.2 282 P 08 41 52.0 -0.3	
			eS	05 01 38.0	2.7			GYA 60.6 276 P 08 42 01.4 -0.3	
			LN		Ms = 4.6	15.0	0.52	LSA 67.7 290 +iP 08 42 48.7 0.4	
QZN	35.1	276	eP	04 56 27.0	0.9				
			eS	05 01 55.5	0.8				
			LE		Ms = 5.2	20.0	2.70		
TIY	35.5	309	eP	04 56 29.0	-0.3			1987 3 11	
			pP	04 56 36.5	-4.4			O = 12 24 55.3 ± 0.05s	
			S	05 02 02.0	2.5			LAT = 4.79 S ± 0.96km	
			sS	05 02 19.5	-1.0			LONG = 153.65 E ± 1.29km	
			LN		Ms = 4.9	16.0	0.91	DEPTH = 92 km ± 0.15km	
			LE			17.0	0.80	STATIONS USED = 62, STAND DEV = 1.27s	
			LZ		Ms = 4.5	22.0	0.56	SSE 47.3 321 eP 12 33 24.0 2.5	
XAN	37.1	302	eP	04 56 41.6	-0.9			PMZ 1.0 0.020	
HHC	37.4	314	P	04 56 46.0	0.9			pP 12 33 47.0 3.8	
GYA	37.9	289	P	04 56 50.6	1.2			S 12 40 10.0 3.9	
BTO	38.4	312	+P	04 56 53.5	0.3			WHN 51.4 316 eP 12 33 51.0 -2.6	
			esP	04 57 05.0	-5.0			MDJ 53.7 339 eP 12 34 10.8 0.2	
			eS	05 02 45.0	0.8			CN2 54.6 335 eP 12 34 16.6 -0.8	
			LN		Ms = 5.1	17.0	1.10	pP 12 34 40.5 1.0	
			LE			17.0	1.10	GYA 55.1 307 P 12 34 22.4 1.8	
			LZ		Ms = 4.9	17.0	1.10	BJI 56.4 326 eP 12 34 30.0 0.3	
CD2	40.8	296	eP	04 57 14.2	0.6			TIY 57.0 321 -P 12 34 34.9 0.2	
			S	05 03 18.0	-1.9			XAN 57.2 316 +iP 12 34 36.0 0.2	
			LZ		Ms = 5.3	9.0	1.20	pP 12 35 00.6 2.6	
LZH	41.6	303	eP	04 57 21.0	0.8			sP 12 35 10.0 1.3	
GTA	45.4	307	P	04 57 50.4	-0.9			CD2 59.4 310 eP 12 34 51.2 0.3	
LSA	51.6	293	P	04 58 37.8	-1.8			HHC 59.5 324 eP 12 34 53.4 1.3	
WMQ	55.1	311	P	04 59 05.5	0.4			BTO 60.3 323 eP 12 34 56.4 -0.9	
								LZH 61.8 315 -P 12 35 08.5 0.9	
								PMZ 1.2 0.070	
								pP 12 35 33.5 3.5	
								GTA 66.2 317 +iP 12 35 37.4 1.0	

KSH 83.6 310 pP 12 36 02.4 3.3
 +P 12 37 19.0 3.5
 SKS 12 47 30.5 6.1

1987 3 11

O=13 27 31.6 ± 0.04s

LAT= 3.19 S ± 0.61km

LONG=134.29 E ± 1.92km

DEPTH= 32 km ± 0.30km

STATIONS USED = 17, STAND DEV = 0.96s

GYA	39.8	319	eP	13 35 04.6	0.8
XAN	44.1	329	+P	13 35 38.4	-0.6
CD2	44.7	322	eP	13 35 43.8	-0.1
BJI	46.1	341	eP	13 35 54.5	-0.8
GTA	52.9	327	-iP	13 36 47.6	-0.2
WMQ	62.7	324	+P	13 37 56.6	0.1

1987 3 11

O=16 18 44.9 ± 0.13s

LAT= 5.34 S ± 2.03km

LONG=148.02 E ± 3.63km

DEPTH= 35 km ± 0.78km

STATIONS USED = 42, STAND DEV = 1.51s

Ms=4.5 / 1,

NJ2	46.4	325	eP	16 27 10.5	0.1
			LZ	Ms=4.5	22.0 0.40
WHN	48.1	320	eP	16 27 24.5	1.0
XAN	53.8	320	eP	16 28 05.2	-2.0
BJI	53.8	330	P	16 28 05.0	-2.1
CD2	55.6	313	eP	16 28 19.3	-0.4
BTO	57.5	326	eP	16 28 32.8	-0.8
LZH	58.4	318	eP	16 28 39.5	-0.5
LSA	64.7	306	P	16 29 22.0	-0.6
WMQ	73.0	319	P	16 30 14.0	0.5
KSH	79.7	312	eP	16 30 54.0	2.4

1987 3 11

O=16 39 24.5 ± 0.08s

LAT=46.92 N ± 0.82km

LONG= 90.36 E ± 0.36km

DEPTH= 13 km ± 0.03km

STATIONS USED = 7, STAND DEV = 2.53s

M_L=3.7 / 7,

WMQ	3.6	212	Pn	16 40 21.9	1.0
			Pg	16 40 27.0	-1.5
			SMN	M _L =3.7	0.6 0.18

1987 3 11

O=17 04 14.0 ± 0.12s

LAT=24.62 S ± 2.57km

LONG = 88.22 E ± 2.30km

DEPTH = 9 km ± 0.32km

STATIONS USED = 50, STAND DEV = 1.02s

Ms=4.9 / 2,

KMI	51.4	17	eP	17 13 24.0	1.9
GYA	53.8	21	P	17 13 40.4	0.4
CD2	57.2	16	P	17 14 03.2	-1.2
WHN	60.3	26	P	17 14 26.0	0.1
XAN	61.6	20	eP	17 14 33.0	-1.6
NJ2	63.5	29	eP	17 14 48.0	0.6
			LZ	Ms=4.8	20.0 0.40
GTA	64.6	10	P	17 14 54.3	-0.6
KSH	64.8	350	eP	17 14 56.0	0.2
TIY	66.0	21	eP	17 15 04.0	-0.1
			eS	17 23 47.0	-4.1
			LN	Ms=5.0	16.0 0.52
BTO	68.0	18	P	17 15 16.0	-0.4
WMQ	68.1	360	P	17 15 17.4	0.3
HHC	68.7	19	eP	17 15 21.9	1.3
BJI	69.4	23	eP	17 15 25.0	0.0
CN2	76.2	27	eP	17 16 03.0	-2.1
MDJ	78.6	29	eP	17 16 18.2	-0.3

1987 3 11

O=23 04 39.4 ± 0.11s

LAT= 4.07 N ± 1.96km

LONG=127.85 E ± 3.15km

DEPTH= 71 km ± 0.35km

STATIONS USED = 36, STAND DEV = 1.67s

QZN	23.0	312	eP	23 09 34.0	-5.4
XAN	34.6	332	+P	23 11 24.0	-0.3
CD2	35.0	322	eP	23 11 28.2	0.4
TIY	36.3	339	eP	23 11 33.8	-5.0
BJI	37.3	345	eP	23 11 47.0	0.0
LSA	43.1	310	P	23 12 35.5	0.6
GTA	43.4	328	+iP	23 12 38.0	0.7
WMQ	53.1	324	P	23 13 53.1	0.6

1987 3 12

O=01 57 17.8 ± 0.05s

LAT=49.93 N ± 0.92km

LONG= 78.82 E ± 0.77km

DEPTH= 9 km ± 0.14km

STATIONS USED = 71, STAND DEV = 1.08s

Ms=4.5 / 4, M_L=5.3 / 3,

WMQ	8.6	132	+iP	01 59 25.0	-1.0
			LN	Ms=4.6	9.0 3.51
GTA	18.2	117	P	02 01 31.8	-1.0
			LN	Ms=4.4	6.0 0.38
LSA	22.3	151	-P	02 02 17.8	0.4

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LZH	22.8	118	+P	02 02 23.0	0.5		
			PMZ			1.5	0.090
CD2	26.7	126	P	02 03 00.2	1.0		
TIY	26.9	104	eP	02 03 02.5	0.9		
XAN	27.2	114	+P	02 03 04.3	0.2		
BJI	27.9	96	eP	02 03 11.5	0.6		
TIA	30.8	102	eP	02 03 37.1	0.7		
CN2	32.0	83	eP	02 03 46.2	-1.1		
WHN	32.9	113	-P	02 03 55.0	0.2		
NJ2	34.6	106	-P	02 04 10.0	0.5		
GZH	38.0	122	+P	02 04 38.7	0.3		
QZN	39.5	130	P	02 04 51.8	0.7		

LAT = 9.90 S		± 2.54km			
LONG = 119.24 E		± 2.32km			
DEPTH = 32 km		± 0.24km			
STATIONS USED = 37, STAND DEV = 1.32s					
GYA	38.2	342	P	12 06 44.4	1.3
WHN	40.5	353	eP	12 07 04.5	2.2
NJ2	41.7	360	eP	12 07 14.5	2.0
CD2	43.2	340	eP	12 07 24.8	0.0
			S	12 13 47.4	-1.0
XAN	44.8	348	eP	12 07 37.0	-0.5
LSA	47.8	326	P	12 08 01.0	-0.5
BJI	49.8	357	P	12 08 16.5	0.0
SNY	51.6	4	eP	12 08 30.0	-0.6
GTA	52.3	341	+iP	12 08 35.0	-0.6
CN2	53.7	6	eP	12 08 44.0	-2.4
MDJ	55.1	9	+P	12 08 55.4	-0.7
WMQ	60.7	334	P	12 09 34.9	-0.6

1987 3 12

O = 04 23 59.1 ± 0.02s
 LAT = 35.06 N ± 0.13km
 LONG = 117.10 E ± 0.15km
 DEPTH = 10 km ± 0.00km
 STATIONS USED = 5, STAND DEV = 0.77s

1987 3 12

O = 12 18 11.1 ± 0.07s
 LAT = 15.75 N ± 1.90km
 LONG = 94.45 W ± 1.98km
 DEPTH = 32 km ± 0.79km
 STATIONS USED = 49, STAND DEV = 1.05s
 Ms = 6.0 / 18,

M _L = 2.8 / 9,	
TIA	1.2 1 Pg 04 24 18.9 -0.6
	Sg 04 24 33.9 -1.3
	SMN M _L = 2.5 0.1 0.11
	SME 0.1 0.090
	SMZ M _L = 2.9 0.1 0.16

1987 3 12

O = 07 35 45.0 ± 0.12s
 LAT = 2.67 N ± 1.92km
 LONG = 126.50 E ± 3.53km
 DEPTH = 60 km ± 0.21km
 STATIONS USED = 49, STAND DEV = 1.80s

QZN	23.0	316	eP	07 40 42.8	-3.1
			eS	07 44 50.0	2.3
GZH	24.0	329	eP	07 40 50.6	-4.4
NJ2	30.1	347	eP	07 41 51.0	-0.3
TIA	34.5	347	eP	07 42 30.9	1.3
XAN	35.3	334	eP	07 42 35.8	-0.5
CD2	35.4	325	eP	07 42 37.2	0.0
TIY	37.2	341	eP	07 42 52.4	-0.2
SNY	39.1	357	+iP	07 43 08.6	0.4
LZH	39.3	330	eP	07 43 11.0	0.7
CN2	41.0	359	eP	07 43 22.5	-1.4
MDJ	41.9	3	+P	07 43 31.6	0.4
LSA	43.0	312	P	07 43 41.5	0.7
GTA	43.9	330	eP	07 43 47.6	-0.3
WMQ	53.4	326	eP	07 45 01.8	0.0

1987 3 12

O = 11 59 24.5 ± 0.18s

CN2	110.4	330	ePKP	12 36 44.0	3.1
WMQ	120.7	358	ePKP	12 37 00.4	-0.7
			PP	12 38 26.0	-6.0
			LN	Ms = 5.9	28.0 2.64
TIY	121.1	335	ePKP	12 37 01.8	-0.1
			PP	12 38 33.5	-1.5
			LN	Ms = 6.1	20.0 2.72
			LZ	Ms = 5.8	40.0 2.65
SSE	122.2	324	ePKP	12 37 02.5	-1.3
			ePP	12 38 40.0	-2.5
			eSKS	12 44 08.0	-1.6
			SS	12 55 20.0	3.4
			LE	Ms = 5.9	20.0 1.73
			LZ	Ms = 6.0	20.0 2.04
NJ2	122.7	326	ePKP	12 37 04.0	-0.9
			LZ	Ms = 5.8	18.0 1.10
GTA	123.5	347	iPKP	12 37 06.1	-0.5
			LN	Ms = 5.8	19.0 1.40
			LZ	Ms = 6.1	19.0 2.37
KSH	124.4	9	ePKP	12 37 11.0	2.8
			ePP	12 38 58.0	0.6
			LN	Ms = 6.1	18.0 2.50
LZH	125.6	342	ePKP	12 37 10.5	-0.1
XAN	125.7	336	PKP	12 37 10.2	-0.5
			PP	12 39 04.0	-2.2

			LN	Ms=6.0	18.0	2.00			
WHN	126.3	329	PKP	12 37 11.5	-0.2				
			PP	12 39 06.0	-3.9				
			LE	Ms=5.9	18.0	1.40			
CD2	130.4	339	ePKP	12 37 20.2	0.4				
			PP	12 39 35.0	-1.9				
			LZ			3.0	2.65		
GYA	133.3	334	PKP	12 37 25.2	-0.1				
			LN	Ms=6.2	20.0	2.60			
			LE			20.0	1.00		
LSA	134.5	353	PKP	12 37 27.2	-0.7				
			PP	12 40 05.8	2.6				
KMI	136.1	337	PKP	12 37 32.0	1.5				
			PP	12 40 11.0	-1.5				
			LZ	Ms=6.0	32.0	2.77			
QZN	138.0	324	ePKP	12 37 34.0	0.2				
			PP	12 40 21.0	-4.0				
			LE	Ms=5.9	20.0	1.60			

1987 3 12

O=15 21 41.5 ± 0.11s
 LAT=29.78 N ± 1.71km
 LONG= 69.61 E ± 1.01km
 DEPTH= 32 km ± 0.08km
 STATIONS USED = 22, STAND DEV= 1.41s

WMQ	20.1	41	P	15 26 15.0	-0.5				
GTA	26.5	61	eP	15 27 19.2	0.3				
			PcP	15 30 40.4	-2.3				

1987 3 12

O=19 25 60.0 ± 0.16s
 LAT=35.79 N ± 0.23km
 LONG= 80.93 E ± 1.00km
 DEPTH= 16 km ± 1.88km
 STATIONS USED = 11, STAND DEV= 2.15s

M_L=4.4/ 4,

KSH	5.4	314	Pn	19 27 23.5	3.4				
			Sn	19 28 22.0	-1.5				
WMQ	9.6	31	eP	19 28 20.5	0.2				
			S	19 30 10.8	2.8				
			LN			1.0	0.040		

1987 3 12

O=20 21 19.2 ± 0.06s
 LAT=28.13 N ± 1.01km
 LONG=142.65 E ± 1.17km
 DEPTH= 33 km ± 0.19km
 STATIONS USED = 26, STAND DEV= 0.88s

MDJ	19.5	331	eP	20 25 46.0	-0.4				
NJ2	20.9	287	+P	20 26 02.4	0.5				

WHN	24.8	282	eP	20 26 38.0	-1.5				
GYA	32.0	276	P	20 27 45.6	0.8				
CD2	33.8	284	eP	20 28 00.5	-0.6				
WMQ	46.3	305	P	20 29 44.9	0.7				

1987 3 13

O=06 56 32.9 ± 0.08s
 LAT=12.46 N ± 3.18km
 LONG= 87.30 W ± 4.33km
 DEPTH= 55 km ± 0.91km
 STATIONS USED = 56, STAND DEV= 1.60s

MDJ	114.1	332	PKP	07 15 07.5	0.8				
CN2	116.6	334	ePKP	07 15 11.0	-0.5				
BJI	123.4	339	ePKP	07 15 25.5	0.6				
WMQ	123.8	4	ePKP	07 15 26.0	0.2				
HHC	124.2	343	PKP	07 15 28.6	2.2				
BTO	124.8	344	ePKP	07 15 28.4	0.7				
TIA	126.4	335	PKP	07 15 31.8	1.2				
GTA	128.0	353	PKP	07 15 33.1	-0.8				
SSE	128.8	328	PKP	07 15 36.0	0.8				
NJ2	129.2	331	PKP	07 15 36.6	0.7				
LZH	130.6	348	PKP	07 15 40.0	1.1				
XAN	131.3	342	PKP	07 15 40.2	0.2				
WHN	132.4	334	eP	07 15 43.3	0.8				
CD2	135.6	346	PKP	07 15 50.0	1.9				
GYA	139.0	341	PKP	07 15 55.4	0.9				
GZH	139.3	330	ePKP	07 15 50.0	-4.8				
QZN	144.4	331	PKP	07 16 04.5	0.7				

1987 3 13

O=07 40 18.4 ± 0.46s
 LAT=23.89 S ± 6.71km
 LONG=177.06 W ± 4.25km
 DEPTH= 47 km ± 1.72km
 STATIONS USED = 21, STAND DEV= 2.54s

Ms=5.4/ 7,

SSE	80.5	310	eP	07 52 32.0	4.0				
			SS	08 07 48.0	3.8				
			LE	Ms=5.4	20.0	1.15			
			LZ	Ms=5.4	20.0	1.16			
NJ2	82.7	310	+P	07 52 40.0	0.6				
			LZ	Ms=5.3	22.0	0.90			
CN2	85.5	322	eP	07 52 53.0	-0.5				
			pP	07 53 01.0	-4.9				
			eS	08 03 24.0	3.9				
			LZ	Ms=5.4	24.0	1.30			

1987 3 13

O=08 21 48.5 ± 0.21s
 LAT=23.80 S ± 3.76km

LONG = 177.22 W ± 2.87km				LZ Ms = 6.2 38.0 11.4				
DEPTH = 31 km ± 0.52km				CN2 85.3 322 -P 08 34 22.0 -2.7				
STATIONS USED = 74, STAND DEV = 1.95s				pP 08 34 34.0 0.1				
Ms = 6.3 / 52, m _B = 6.2 / 21				S 08 44 45.0 -5.7				
SSE	80.3	310	+iP	08 33 58.0	-1.1			LZ Ms = 6.2 26.0 8.90
			PMZ		m _B = 6.2 12.0 3.30	TIA	86.0 312	eP 08 34 27.6 -0.4
			sP	08 34 12.0	0.0			PMZ m _B = 6.4 8.0 3.05
			PP	08 36 58.0	-4.7			ePP 08 37 50.5 1.6
			S	08 44 04.0	3.7			LN Ms = 6.2 14.0 0.74
			SKS	08 44 08.0	-0.7			LE 19.0 5.29
			SS	08 49 16.0	0.9		BJI	88.7 315
			LN		Ms = 6.2 20.0 2.30			eP 08 34 41.0 -0.1
			LE		20.0 6.34			ePP 08 38 10.0 -1.5
			LZ		Ms = 6.3 20.0 8.15			cSKS 08 45 06.0 1.2
GZH	82.0	299	-P	08 34 08.0	0.5			eS 08 45 22.0 -2.6
			sP	08 34 20.0	-0.5			PMZ m _B = 6.0 12.0 1.51
			SME		m _B = 6.3 10.5 2.50			SMN m _B = 6.2 12.0 2.92
			LE		Ms = 6.3 21.0 9.73			LN Ms = 6.3 17.0 5.56
NJ2	82.5	310	-P	08 34 08.5	-2.0			LE 18.0 2.20
			pP	08 34 24.5	4.8			LZ Ms = 6.1 19.0 4.25
			PP	08 37 20.5	-0.4			GYA
			PPMZ		8.0 2.00		88.9 299	+P 08 34 43.0 0.9
			LZ		Ms = 6.1 21.0 5.20			sP 08 34 57.0 2.0
QZN	82.9	294	P	08 34 14.0	1.8			PP 08 38 15.0 2.1
			sP	08 34 25.0	-0.2			SKS 08 45 10.0 4.1
			ePP	08 37 29.0	5.4			S 08 45 18.0 -6.4
			cS	08 44 31.0	3.2			LN Ms = 6.2 21.0 4.80
			LE		2.5 7.90			LE 21.0 4.70
MDJ	83.6	325	eP	08 34 16.0	-0.1		TIY	90.0 312
			sP	08 34 30.0	1.0			-iP 08 34 46.0 -1.2
			PP	08 37 31.0	1.4			PMZ m _B = 6.2 10.0 1.73
			LZ		Ms = 6.5 20.0 12.2			sP 08 35 01.5 1.3
DL2	84.6	317	-P	08 34 17.0	-4.0			SKS 08 45 13.0 0.4
			LN		Ms = 6.3 18.0 3.53			S 08 45 31.0 -3.6
			LE		19.0 7.01			sS 08 45 49.0 -2.7
WHN	85.0	306	eP	08 34 18.5	-4.3			SS 08 51 40.0 3.1
			sP	08 34 33.0	-2.8			LN Ms = 6.3 24.0 7.30
			PP	08 37 40.0	-0.4			LE 24.0 5.22
			SME		m _B = 5.9 11.0 1.06			LZ Ms = 6.3 24.0 9.62
			LE		Ms = 6.3 23.0 8.70		XAN	90.7 307
SNY	85.2	320	-iP	08 34 24.0	0.1			eP 08 34 49.0 -1.4
			PMZ		13.0 2.03			LN Ms = 6.3 22.0 4.84
			pP	08 34 38.0	4.9			LE 21.0 6.33
			PP	08 37 45.0	2.9			LZ Ms = 6.3 24.0 9.62
			S	08 44 50.0	0.8			eP 08 34 55.5 1.2
			SMN		27.0 3.96			LE Ms = 6.3 20.0 6.90
			SME		24.0 2.26			LZ Ms = 6.5 24.0 14.3
			SS	08 50 30.0	3.4			eP 08 35 00.0 2.7
			LN		Ms = 6.2 34.0 6.55			PP 08 38 41.0 2.0
			LE		28.0 6.26			SKS 08 45 29.0 3.9
								S 08 46 00.0 6.4
								SMN m _B = 5.9 10.0 1.06
								LN Ms = 6.3 19.0 4.08
								LE 19.0 4.82
								BTO
							93.1 313	P 08 35 03.0 1.6

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	pP	08 35 14.0	3.4		
	PP	08 38 50.0	3.8		
	S	08 46 05.0	3.4		
	LN	Ms=6.3	21.0	4.70	
	LE		21.0	4.70	
	LZ	Ms=6.2	22.0	6.00	
CD2	93.2 302	eP	08 35 04.0	2.2	
		PMZ	m _B =6.3	12.0	2.03
		LE	Ms=6.3	22.0	7.37
		LZ	Ms=6.4	24.0	10.0
LZH	95.3 307	eP	08 35 11.0	-0.8	
		pP	08 35 20.0	-0.9	
		eSKS	08 45 43.0	0.3	
		LE	Ms=6.4	20.0	7.84
GTA	99.6 309	P	08 35 34.2	3.0	
		PP	08 39 32.4	-4.1	
		eSKS	08 46 09.0	4.2	
		LE	Ms=6.0	19.0	2.86
		LZ	Ms=6.1	45.0	7.99
WMQ	109.6 310	ePKP	08 40 11.2	-5.7	
		PP	08 40 46.0	-5.9	
		LE	Ms=6.1	28.0	5.10
KSH	117.3 303	ePKP	08 40 33.0	0.9	
		PP	08 41 46.0	-0.9	
		eSKS	08 47 40.0	1.8	
		SKKS	08 48 36.0		
		LE	Ms=6.3	20.0	4.20

1987 3 13

O=09 28 14.7 ± 0.13s
 LAT= 1.79 N ± 2.06km
 LONG=127.00 E ± 3.26km
 DEPTH= 65 km ± 0.30km
 STATIONS USED = 71, STAND DEV= 1.65s
 Ms=4.7/ 1,

QZN	24.0 317	P	09 33 25.2	0.6	
		eS	09 37 40.0	5.9	
QZH	24.4 341	eP	09 33 27.5	-1.0	
GZH	25.0 329	+P	09 33 34.2	0.2	
SSE	29.7 350	eP	09 34 18.0	1.3	
		pP	09 34 35.0	2.8	
		sP	09 34 44.5	4.2	
WHN	31.0 338	eP	09 34 25.5	-3.2	
NJ2	31.1 347	+P	09 34 30.0	0.8	
GYA	31.4 323	P	09 34 31.8	-0.1	
KMI	33.0 317	-P	09 34 47.5	1.6	
TIA	35.5 346	eP	09 35 07.7	0.6	
XAN	36.3 334	P	09 35 13.0	-1.0	
CD2	36.4 325	P	09 35 14.3	-0.6	
BJI	39.3 347	eP	09 35 40.0	0.5	

SNY	40.0 356	+P	09 35 45.4	0.5	
LZH	40.3 331	eP	09 35 48.5	0.7	
HHC	41.3 342	eP	09 35 57.8	1.7	
CN2	41.9 358	eP	09 36 02.0	1.6	
MDJ	42.7 3	-P	09 36 07.7	0.3	
WMQ	54.5 326	+P	09 37 38.5	0.1	

1987 3 13

O=10 28 12.9 ± 0.36s
 LAT=15.56 S ± 3.60km
 LONG= 74.65 W ± 5.96km
 DEPTH= 49 km ± 2.77km
 STATIONS USED = 39, STAND DEV= 2.29s

MDJ	144.5 330	ePKP	10 47 41.0	-3.7	
KSH	145.0 41	PKP	10 47 45.0	-0.7	
CN2	147.1 333	ePKP	10 47 48.0	-1.0	
WMQ	148.1 25	PKP	10 47 54.0	3.2	
SNY	149.5 333	PKP	10 47 57.4	4.5	
LSA	160.8 40	PKP	10 48 08.6	0.1	
XAN	161.3 351	ePKP	10 48 09.0	0.4	
CD2	164.7 5	PKP	10 48 13.0	1.1	
GYA	169.1 354	PKP	10 48 16.0	0.8	

1987 3 14

O=01 45 19.4 ± 0.09s
 LAT=35.73 N ± 0.86km
 LONG=117.84 E ± 0.80km
 DEPTH= 17 km ± 0.20km
 STATIONS USED = 5, STAND DEV= 4.44s

			M _L =3.1/ 10,		
TIA	0.8 310	Pg	01 45 29.9	-3.1	
		Sg	01 45 38.7	-4.8	
		SMN		M _L =2.8	0.2 0.27
		SME			0.2 0.33
		SMZ		M _L =2.9	0.2 0.29

1987 3 14

O=04 25 57.6 ± 0.04s
 LAT=10.73 N ± 0.70km
 LONG=139.03 E ± 1.12km
 DEPTH= 19 km ± 0.07km
 STATIONS USED = 56, STAND DEV= 0.65s
 Ms=4.5/ 5, m_B=5.4/ 1

SSE	26.2 323	iP	04 31 32.8	-0.2	
		PMZ			1.0 0.080
		LE		Ms=4.6	20.0 1.16
NJ2	28.2 322	+P	04 31 51.2	-0.8	
		LZ		Ms=4.3	20.0 0.50
WHN	30.2 314	eP	04 32 10.6	0.7	
TIA	32.2 326	eP	04 32 26.4	-0.8	

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CN2	35.0	343	-P	04 32 50.3	-1.0		
BJI	35.5	329	eP	04 32 55.5	-0.4		
TIY	35.9	323	+iP	04 32 59.8	0.3		
			PMZ			1.0	0.040
			LN	Ms=4.6		14.0	0.46
			LZ	Ms=4.5		26.0	0.62
XAN	36.0	315	-iP	04 32 59.5	-0.5		
BTO	39.3	324	eP	04 33 27.8	0.5		
			eS	04 39 26.0	-1.2		
LZH	40.6	314	eP	04 33 39.5	0.8		
			PMZ			1.5	0.070
GTA	45.0	316	-iP	04 34 14.6	0.0		
WMQ	55.1	316	-iP	04 35 31.6	0.1		
KSH	62.5	309	eP	04 36 24.0	1.0		

1987 3 14

O=05 21 10.5 ± 0.05s

LAT= 0.18 S ± 0.97km

LONG=132.65 E ± 1.59km

DEPTH= 67 km ± 0.04km

STATIONS USED = 40, STAND DEV = 0.85s

XAN	40.7	329	eP	05 28 46.0	-0.4		
CD2	41.3	321	eP	05 28 52.0	0.2		
BJI	42.8	341	eP	05 29 03.5	0.0		
CN2	44.3	353	eP	05 29 18.0	2.4		
MDJ	44.7	357	eP	05 29 19.0	-0.1		
LZH	44.9	326	eP	05 29 20.0	-1.2		
LSA	49.5	311	eP	05 29 56.2	-0.7		
GTA	49.5	326	P	05 29 57.1	-0.1		
WMQ	59.3	324	+iP	05 31 09.0	0.4		
KSH	64.9	314	P	05 31 48.0	1.8		

1987 3 14

O=05 35 58.5 ± 0.06s

LAT=13.17 N ± 1.07km

LONG=143.93 E ± 1.41km

DEPTH=148 km ± 0.23km

STATIONS USED = 82, STAND DEV = 0.88s

$m_B = 5.1 / 4$

SSE	27.5	314	eP	05 41 32.5	-0.8		
			eS	05 46 00.0	-2.0		
			LZ			20.0	4.07
NJ2	29.7	313	-P	05 41 52.0	-0.9		
WHN	32.3	307	eP	05 42 15.8	0.1		
			iS	05 47 16.0	-1.5		
			SMN	$m_B = 4.9$		6.0	0.30
			ScS	05 52 30.0	3.8		
DL2	32.4	326	P	05 42 16.6	0.4		
QZN	33.2	285	eP	05 42 28.0	4.3		
			eS	05 47 35.0	2.9		

TIA	33.3	318	eP	05 42 23.0	-1.0		
			S	05 47 31.0	-0.6		
			LN			15.0	0.79
MDJ	33.6	341	+iP	05 42 27.2	-0.1		
CN2	34.4	336	+P	05 42 32.7	-1.1		
BJI	36.2	323	eP	05 42 48.5	-0.5		
			eS	05 48 16.0	-1.9		
			SMN	$m_B = 5.2$		6.0	0.27
			SME			6.0	0.23
			esS	05 49 10.0	-3.7		
TIY	37.2	317	+P	05 42 58.0	0.6		
			PMZ			1.0	0.080
			sP	05 43 42.5	-4.1		
			S	05 48 32.5	0.6		
			LN			13.0	0.48
			LE			14.0	0.32
			LZ			24.0	0.37

GYA	37.3	296	P	05 42 59.4	0.9		
			pP	05 43 31.0	0.5		
			S	05 48 38.0	4.1		
			ScP	05 48 48.0	1.9		
XAN	37.9	309	+iP	05 43 03.4	-0.2		
			S	05 48 43.0	-0.3		
			SMN	$m_B = 5.4$		6.0	0.50
			ScP	05 48 49.5	1.1		
			sS	05 49 40.0	-0.5		
HHC	39.5	320	+P	05 43 17.0	0.4		
BTO	40.3	319	+P	05 43 24.0	0.6		
			ePP	05 44 57.0	-4.7		
			S	05 49 19.5	0.4		
KMI	40.5	293	+P	05 43 26.0	0.8		
CD2	40.9	302	P	05 43 27.8	-0.5		
			S	05 49 25.5	-2.5		
LZH	42.6	310	+P	05 43 42.5	0.6		
			PMZ			1.5	0.12
GTA	46.8	312	+P	05 44 15.3	0.0		
			pP	05 44 45.9	-2.2		
			ScP	05 49 23.8	0.1		
			S	05 50 52.0	-0.2		
			ScS	05 53 51.9	1.1		
WMQ	56.8	314	+iP	05 45 29.5	-0.3		

1987 3 14

O=06 10 03.7 ± 0.42s

LAT=23.72 S ± 4.64km

LONG=177.42 W ± 3.99km

DEPTH= 31 km ± 1.91km

STATIONS USED = 31, STAND DEV = 2.45s

$M_s = 5.6 / 14,$ $m_B = 5.7 / 1$

QZH	78.6	304	eP	06 22 04.0	-1.0		
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		eS	06 32 04.0	5.0			
		LN	Ms=5.4	32.0	1.67		
SSE	80.2	310	P	06 22 17.4	4.1		
		PMZ	m _B =5.7	10.0	0.90		
		ePP	06 25 17.0	0.7			
		eS	06 32 16.0	0.9			
		SS	06 37 33.0	5.6			
		LN	Ms=5.7	20.0	1.50		
		LE		20.0	1.73		
QZN	82.7	294	eP	06 22 25.0	-1.4		
		eS	06 32 38.0	-3.0			
MDJ	83.4	325	eP	06 22 27.0	-3.4		
		S	06 32 47.0	-0.1			
		LZ	Ms=6.3	20.0	7.50		
WHN	84.8	306	eP	06 22 34.0	-3.1		
		eS	06 33 09.0	7.0			
		LE	Ms=5.6	20.0	1.60		
CN2	85.2	322	+P	06 22 38.0	-1.0		
		pP	06 22 45.0	-3.3			
		eS	06 33 03.0	-2.9			
		LZ	Ms=5.4	22.0	1.20		
TIA	85.8	312	eP	06 22 43.5	1.2		
		LE	Ms=5.5	20.0	1.35		
BJI	88.5	315	eP	06 22 53.0	-2.4		
TIY	89.8	312	P	06 23 01.0	-0.6		
		pP	06 23 11.0	0.2			
		S	06 33 44.0	-4.1			
		sS	06 34 05.0	-0.2			
		LN	Ms=5.7	22.0	0.66		
		LE		22.0	2.01		
		LZ	Ms=5.6	24.0	1.79		
XAN	90.5	307	eP	06 23 04.8	0.0		
KMI	91.3	297	eP	06 23 09.0	0.4		
CD2	93.0	302	eP	06 23 18.4	2.2		
		LN	Ms=5.5	26.0	1.41		
		LZ	Ms=5.7	24.0	2.00		
<p>1987 3 14 O=09 23 57.5 ± 0.15s LAT=51.69 N ± 3.96km LONG=173.53 W ± 2.01km DEPTH=32 km ± 0.19km STATIONS USED = 77, STAND DEV= 1.23s Ms=4.8/ 9,</p>							
MDJ	37.7	282	eP	09 31 13.5	0.9		
CN2	40.7	284	-iP	09 31 37.6	0.5		
		eS	09 37 42.0	-3.3			
		LZ	Ms=5.0	20.0	1.40		
SNY	42.9	282	eP	09 31 55.5	-0.1		
DL2	45.9	280	eP	09 32 19.4	0.1		

BJI	48.5	285	eP	09 32 40.0	0.3		
HHC	50.7	289	eP	09 32 58.0	1.0		
SSE	51.3	273	eP	09 33 02.5	1.5		
		esS	09 40 36.0	4.0			
		LZ	Ms=4.8	20.0	0.58		
BTO	51.8	290	P	09 33 05.0	0.0		
		ePP	09 35 00.0	-2.6			
		eS	09 40 19.0	-5.1			
		LN	Ms=5.1	16.0	0.60		
		LE		16.0	0.60		
NJ2	52.1	276	eP	09 33 07.5	0.6		
		LZ	Ms=4.7	20.0	0.40		
TIY	52.2	285	+P	09 33 08.5	0.3		
		S	09 40 33.0	4.4			
		LE	Ms=5.0	21.0	1.00		
		LZ	Ms=4.8	22.0	0.58		
WHN	55.9	277	eP	09 33 34.8	-0.3		
XAN	56.8	284	+iP	09 33 41.0	-0.7		
LZH	58.4	289	eP	09 33 53.0	-0.2		
		PMZ		1.5	0.090		
GTA	58.5	295	P	09 33 52.4	-1.0		
		LE	Ms=4.8	15.0	0.34		
WMQ	61.9	306	P	09 34 16.6	-0.2		
CD2	62.1	285	P	09 34 18.4	0.2		
GYA	63.5	280	P	09 34 28.2	0.4		
LSA	70.4	293	+P	09 35 11.8	0.4		
KSH	70.9	310	eP	09 35 14.7	0.3		

<p>1987 3 14 O=20 18 38.6 ± 0.14s LAT=38.54 S ± 5.56km LONG=92.09 W ± 4.73km DEPTH=3 km ± 0.71km STATIONS USED = 39, STAND DEV= 3.09s Ms=5.6/ 6,</p>							
MDJ	148.5	295	ePKP	20 38 23.0	-1.4		
CN2	151.4	293	PKP	20 38 26.0	-3.0		
		ePP	20 42 11.0	-5.4			
		LZ	Ms=5.7	20.0	0.90		
SSE	151.8	265	ePKP	20 38 32.0	2.5		
		LZ	Ms=5.9	20.0	1.46		
QZN	152.8	231	ePKP	20 38 33.7	2.8		
GYA	160.2	238	PKP	20 38 42.4	1.9		
XAN	162.5	262	PKP	20 38 43.8	1.0		
CD2	164.9	244	PKP	20 38 47.6	2.4		
LZH	167.1	264	ePKP	20 38 49.0	1.9		
KSH	170.7	81	ePKP	20 38 48.0	-1.2		
GTA	170.7	279	PKP	20 38 46.8	-2.5		
		LN	Ms=5.6	26.0	1.09		
		LZ	Ms=5.6	25.0	1.22		

March, 1987



LSA	170.8	198	PKP	20 38 47.7	-1.9		
WMQ	174.7	2	ePKP	20 38 53.1	2.1		
1987 3 14							
O	= 23 14 54.8			± 0.09s			
LAT	= 24.00 N			± 1.50km			
LONG	= 122.28 E			± 1.08km			
DEPTH	= 33 km			± 1.16km			
STATIONS USED = 39, STAND DEV = 1.84s							
Ms=3.7/ 6, M _L =4.0/ 12,							
QZH	3.5	286	iP	23 15 46.8	-1.3		
			iS	23 16 24.5	-4.2		
			SMN	M _L =3.6	0.2	0.24	
			SME		0.2	0.12	
SSE	7.1	352	eP	23 16 36.5	-3.1		
			LN	M _s =3.5	22.0	0.78	
			LZ	M _s =3.6	20.0	0.87	
GZH	8.2	265	eP	23 16 53.0	-2.1		
NJ2	8.6	340	eP	23 17 02.0	2.4		
			S	23 18 35.6	-0.5		
WHN	9.6	314	eP	23 17 20.0	6.2		
			LN	M _s =3.8	10.0	0.50	
GYA	14.3	283	P	23 18 18.8	1.0		
			S	23 20 52.0	-4.2		
BJI	16.8	344	eP	23 18 51.0	1.7		
CD2	17.8	297	eP	23 19 04.0	2.0		
HHC	19.1	334	eP	23 19 19.6	2.2		
BTO	19.5	331	eP	23 19 22.6	0.4		
			eS	23 22 51.0	-4.1		
CN2	19.9	7	eP	23 19 26.2	-0.6		
LZH	20.0	311	eP	23 19 27.0	-0.4		
GTA	24.4	314	P	23 20 13.4	1.4		

BJI	17.7	331	eP	05 11 01.0	2.3		
			LN	M _s =4.4	12.0	0.66	
			LE		14.0	0.45	
TIY	17.9	319	-iP	05 11 02.7	0.9		
			LN	M _s =4.7	12.0	1.32	
			LE		12.0	0.54	
GYA	18.7	279	P	05 11 10.0	-1.0		
			S	05 14 30.0	-4.5		
			LE	M _s =4.6	14.0	1.30	
CN2	18.8	356	eP	05 11 10.0	-2.9		
			S	05 14 32.0	-6.2		
			LZ	M _s =4.5	14.0	1.20	
MDJ	19.7	5	eP	05 11 24.0	1.6		
HHC	20.6	324	eP	05 11 33.0	0.9		
			LN	M _s =4.8	12.0	1.10	
			LE		14.0	1.14	
			LZ	M _s =4.7	13.0	1.26	
BTO	21.3	321	eP	05 11 38.0	-1.0		
			ePP	05 12 00.0	-2.1		
			eS	05 15 24.0	-5.2		
			LN	M _s =4.7	13.0	1.10	
			LE		13.0	0.60	
			LZ	M _s =4.7	13.0	1.20	
CD2	21.6	291	+iP	05 11 40.8	-1.9		
			eS	05 15 33.0	-3.0		
			LE	M _s =5.0	10.0	1.90	
			LZ	M _s =5.2	12.0	3.70	
KMI	22.3	276	eP	05 11 49.5	0.2		
LZH	23.0	304	eP	05 11 54.0	-2.5		
			PMZ		1.5	0.14	
			LN	M _s =5.0	11.0	1.23	
			LE		12.0	1.38	
LSA	32.4	287	-P	05 13 21.7	-1.2		
WMQ	37.3	310	P	05 14 03.0	-1.2		

1987 3 15							
O	= 05 06 52.2			± 0.11s			
LAT	= 24.98 N			± 1.85km			
LONG	= 127.32 E			± 2.03km			
DEPTH	= 26 km			± 0.57km			
STATIONS USED = 63, STAND DEV = 1.90s							
Ms=4.7/ 27,							
WHN	12.8	299	eP	05 10 00.5	5.7		
			LN	M _s =4.6	12.0	1.90	
			LE		12.0	1.50	
SNY	17.1	350	eP	05 10 52.2	1.1		
			eS	05 14 00.0	0.8		
			LN	M _s =4.7	13.0	1.36	
			LE		13.0	1.18	
			LZ	M _s =4.7	13.0	1.73	
QZN	17.2	253	eP	05 10 56.0	2.9		
			LN	M _s =4.6	19.0	2.10	

1987 3 15							
O	= 05 11 16.7			± 0.04s			
LAT	= 15.74 N			± 1.16km			
LONG	= 94.39 W			± 1.26km			
DEPTH	= 38 km			± 0.14km			
STATIONS USED = 41, STAND DEV = 0.69s							
Ms=5.8/ 6,							
WMQ	120.7	358	PKP	05 30 05.0	-0.8		
			PP	05 31 34.0	-2.8		
GTA	123.6	347	PKP	05 30 11.1	-0.3		
			PP	05 31 59.2	2.3		
			LE	M _s =5.4	26.0	0.69	
			LZ	M _s =5.5	33.0	1.15	
KSH	124.4	9	ePKP	05 30 14.0	1.1		
			LN	M _s =5.9	16.0	1.50	

LZH	125.6	342	ePKP	05 30 15.5	0.1
XAN	125.7	336	PKP	05 30 15.3	-0.1
WHN	126.3	329	ePKP	05 30 18.6	2.1
CD2	130.4	339	ePKP	05 30 24.7	0.2
			LN	Ms=6.0	28.0 2.48
			LZ	Ms=6.1	28.0 3.73
GYA	133.3	334	PKP	05 30 31.4	1.3
			PP	05 33 01.0	0.9
LSA	134.5	353	PKP	05 30 32.5	-0.2

1987 3 15

O=06 03 03.9 ± 0.20s
 LAT=23.90 S ± 7.38km
 LONG= 70.32 W ± 7.11km
 DEPTH= 15 km ± 1.29km
 STATIONS USED = 30, STAND DEV= 3.67s

KSH	147.6	53	ePKP	06 22 47.0	0.8
WMQ	153.2	37	ePKP	06 22 50.0	-4.7
GTA	162.4	26	PKP	06 23 05.6	-0.3
TIA	166.2	334	ePKP	06 23 08.5	-0.9
XAN	169.9	4	ePKP	06 23 10.0	-1.8
CD2	171.3	36	PKP	06 23 12.2	-0.4
GYA	176.3	46	ePKP	06 23 14.8	0.2

1987 3 15

O=07 40 10.5 ± 0.09s
 LAT=18.79 N ± 1.34km
 LONG=146.93 E ± 1.97km
 DEPTH= 57 km ± 0.26km
 STATIONS USED = 50, STAND DEV= 1.29s
 Ms=4.6/ 7,

SSE	26.3	303	eP	07 45 43.0	0.2
			esS	07 50 30.0	-2.0
			LE	Ms=4.6	16.0 0.92
			LZ	Ms=4.7	16.0 1.15
MDJ	29.5	334	+P	07 46 13.0	0.7
CN2	30.8	329	eP	07 46 25.0	1.8
			eS	07 51 25.0	4.2
			LZ	Ms=4.6	20.0 0.90
TIA	31.4	310	-P	07 46 29.1	0.0
BJI	33.9	315	eP	07 46 50.5	0.3
TIY	35.5	309	-P	07 47 05.0	0.9
XAN	37.0	302	eP	07 47 16.6	-0.5
HHC	37.4	314	eP	07 47 22.0	2.0
GYA	37.8	289	P	07 47 24.6	0.8
BTO	38.3	313	+P	07 47 28.5	0.4
			eS	07 53 17.0	-1.0
			LN	Ms=4.9	17.0 0.60
			LE		17.0 0.70
			LZ	Ms=4.9	17.0 1.10

CD2	40.8	296	eP	07 47 48.0	0.0
LZH	41.6	303	eP	07 47 56.0	1.2
GTA	45.4	307	P	07 48 26.1	0.1
LSA	51.6	293	-P	07 49 14.4	0.3
WMQ	55.1	311	+P	07 49 40.3	0.4

1987 3 15

O=08 06 25.8 ± 0.11s
 LAT=18.79 N ± 1.87km
 LONG=147.00 E ± 2.22km
 DEPTH= 41 km ± 0.33km
 STATIONS USED = 48, STAND DEV= 1.50s
 Ms=4.7/ 6,

SSE	26.3	303	eP	08 12 01.0	0.9
			eS	08 16 34.0	5.9
			LE	Ms=4.7	16.0 1.15
			LZ	Ms=4.8	16.0 1.26
MDJ	29.6	334	+P	08 12 30.0	0.7
CN2	30.8	329	eP	08 12 42.0	1.6
TIA	31.5	310	P	08 12 46.2	-0.2
BJI	33.9	315	eP	08 13 07.5	0.0
			eS	08 18 28.0	-0.3
QZN	35.1	277	eP	08 13 12.3	-5.3
TIY	35.5	309	eP	08 13 21.0	-0.4
			eS	08 18 52.5	-0.9
			LN	Ms=4.8	15.0 0.75
HHC	37.4	314	eP	08 13 38.7	1.4
GYA	37.9	289	P	08 13 42.0	0.8
BTO	38.4	312	eP	08 13 46.0	0.6
			eS	08 19 38.0	0.8
			LN	Ms=4.9	18.0 0.80
			LE		18.0 0.60
CD2	40.8	296	P	08 14 07.1	1.7
LZH	41.6	303	eP	08 14 12.0	-0.2
GTA	45.5	307	P	08 14 42.8	-0.6
WMQ	55.2	311	P	08 15 57.7	0.5

1987 3 15

O=08 17 30.5 ± 0.15s
 LAT=18.89 N ± 2.60km
 LONG=147.06 E ± 2.49km
 DEPTH= 33 km ± 0.26km
 STATIONS USED = 48, STAND DEV= 1.90s
 Ms=4.7/ 3,

SSE	26.3	302	eP	08 23 05.0	-0.6
			S	08 27 32.0	-1.7
			LN	Ms=4.8	16.0 1.16
			LE		18.0 0.92
MDJ	29.5	334	+P	08 23 36.0	1.8
TIA	31.5	309	eP	08 23 51.5	-0.2

1987 3 15
 O=11 56 11.5 ± 0.17s
 LAT=18.85 N ± 3.52km
 LONG=147.03 E ± 3.35km
 DEPTH= 43 km ± 0.66km
 STATIONS USED = 40, STAND DEV = 1.99s
 Ms=4.7 / 4,

MDJ	29.5	334	cP	12 02 15.5	0.9		
SNY	30.4	324	cP	12 02 18.2	-3.9		
TIA	31.5	309	-P	12 02 31.7	-0.2		
BJI	33.9	315	cP	12 02 53.0	0.1		
TIY	35.5	309	P	12 03 07.5	0.6		
			S	12 08 40.5	2.9		
			LN	Ms=4.6	15.0	0.55	
XAN	37.1	302	cP	12 03 19.0	-1.1		
HHC	37.4	314	cP	12 03 24.0	1.2		
BTO	38.4	312	P	12 03 31.0	0.1		
LZH	41.6	303	cP	12 03 58.5	0.7		
GTA	45.5	307	P	12 04 28.6	-0.3		
LSA	51.6	293	P	12 05 16.4	-0.8		
WMQ	55.2	311	-P	12 05 43.0	0.3		

1987 3 15
 O=12 16 45.8 ± 0.08s
 LAT=18.84 N ± 1.27km
 LONG=147.02 E ± 1.90km
 DEPTH= 50 km ± 0.22km
 STATIONS USED = 23, STAND DEV = 1.23s

TIA	31.5	309	cP	12 23 04.9	-0.5		
BJI	33.9	315	cP	12 23 26.0	-0.5		
GTA	45.5	307	cP	12 25 02.8	0.4		
WMQ	55.2	311	P	12 26 16.0	-0.2		

1987 3 15
 O=16 14 45.5 ± 0.12s
 LAT=10.41 S ± 2.25km
 LONG= 91.55 E ± 2.84km
 DEPTH= 11 km ± 0.42km
 STATIONS USED = 99, STAND DEV = 1.32s
 Ms=5.2 / 33, m_B=5.8 / 9

QZN	34.4	32	P	16 21 35.7	0.7		
			pP	16 21 45.6	5.0		
			cS	16 27 05.0	3.1		
			LN	Ms=5.1	14.0	1.10	
			LE		13.0	0.90	
KMI	37.0	17	+P	16 21 59.0	1.7		
			pP	16 22 07.0	4.3		
			cS	16 27 44.0	1.6		
			LE	Ms=5.1	14.0	1.50	
GYA	39.5	22	+P	16 22 19.0	0.7		

			pP	16 22 28.0	4.2		
			S	16 28 22.0	2.7		
			LN	Ms=5.2	15.0	1.40	
			LE		15.0	0.70	
GZH	39.5	32	cP	16 22 20.0	1.3		
			S	16 28 22.5	2.3		
			LN	Ms=5.3	12.0	1.59	
LSA	39.9	359	+P	16 22 21.9	-0.1		
			PMZ	m _B =5.7	4.0	0.49	
			S	16 28 27.0	1.7		
CD2	42.7	16	+iP	16 22 44.6	-0.3		
			PMZ		1.0	0.13	
			cS	16 29 06.5	-2.0		
			LE	Ms=5.3	12.0	1.54	
QZH	43.9	36	+P	16 22 54.0	-0.7		
			pP	16 23 03.0	2.7		
			S	16 29 29.0	4.0		
			LN	Ms=5.1	14.0	1.03	
WHN	46.2	28	+iP	16 23 13.8	0.7		
			PMZ		1.3	0.050	
			pP	16 23 22.0	3.2		
			PP	16 25 03.2	2.1		
			S	16 30 03.0	4.8		
			LE	Ms=5.3	11.0	1.20	
XAN	47.2	20	+iP	16 23 20.0	-0.7		
			pP	16 23 29.0	2.8		
			PP	16 25 10.0	-0.4		
			S	16 30 10.0	-1.6		
			LN	Ms=5.2	13.0	0.76	
			LE		12.0	0.76	
LZH	47.7	13	+P	16 23 23.5	-1.2		
NJ2	49.6	31	+P	16 23 40.0	0.3		
			PcP	16 25 01.5	0.9		
			LZ	Ms=5.2	14.0	1.00	
SSE	50.1	34	+iP	16 23 43.7	0.4		
			PMZ		1.0	0.050	
			pP	16 23 53.5	4.6		
			cPP	16 25 42.0	3.3		
			cS	16 30 58.0	4.3		
			LN	Ms=5.5	16.0	2.15	
			LZ	Ms=5.5	16.0	2.30	
KSH	51.7	345	-P	16 23 56.0	0.6		
			S	16 31 20.0	5.7		
			SMN	m _B =5.9	6.0	0.90	
			LE	Ms=5.3	12.0	1.20	
TIY	51.7	21	P	16 23 55.5	-0.1		
			PP	16 25 59.0	6.1		
			S	16 31 20.5	5.7		
			LN	Ms=5.3	14.0	1.11	
			LE		13.0	0.56	

			LZ	Ms=5.2	15.0	1.00			
TIA	52.3	26	eP	16 23 58.5	-1.1				
			epP	16 24 08.1	2.9				
			PcP	16 25 10.8	0.6				
			eS	16 31 19.0	-4.4				
			LE	Ms=5.0	13.0	0.62			
BTO	53.5	17	+iP	16 24 09.0	-0.3				
			pP	16 24 19.0	4.2				
			ePP	16 26 09.0	-1.5				
			eS	16 31 38.0	-3.2				
			LN	Ms=5.3	13.0	0.60			
			LE			13.0	0.80		
			LZ	Ms=5.0	13.0	0.50			
WMQ	54.1	357	+iP	16 24 12.6	-0.5				
			PMZ	m _B =6.1	3.5	1.02			
			pP	16 24 22.5	3.7				
			PcP	16 25 17.0	-0.1				
			PP	16 26 19.3	4.0				
			S	16 31 48.0	1.0				
			LN	Ms=5.1	20.0	0.97			
HHC	54.3	19	+P	16 24 15.5	1.0				
			pP	16 24 24.0	4.0				
			eS	16 31 56.0	5.3				
			LE	Ms=5.3	18.0	1.50			
BJI	55.1	23	eP	16 24 21.0	0.1				
			PMZ	m _B =5.8	4.0	0.53			
			epP	16 24 29.0	2.4				
			eS	16 32 04.0	1.7				
			SME	m _B =5.3	7.0	0.29			
DL2	56.5	28	P	16 24 30.0	-0.6				
SNY	59.7	27	-iP	16 24 52.4	-0.9				
			S	16 32 56.0	-5.6				
			LN	Ms=5.2	17.0	0.93			
			LZ	Ms=5.1	19.0	0.84			
CN2	62.1	27	+P	16 25 06.5	-3.1				
			PMZ	m _B =6.0	4.0	0.80			
			epP	16 25 15.5	0.2				
			LZ	Ms=5.3	15.0	0.90			
MDJ	64.7	29	eP	16 25 25.6	-0.8				
			S	16 34 02.0	-2.0				
<p>1987 3 15 O=19 00 00.8 ± 0.17s LAT=18.73 N ± 2.97km LONG=146.50 E ± 3.45km DEPTH= 83 km ± 0.67km STATIONS USED = 41, STAND DEV= 1.64s Ms=4.7/10,</p>									
SSE	26.0	303	eP	19 05 28.0	0.2				
			LE	Ms=4.7	14.0	1.02			

CN2	30.6	329	P	19 06 10.0	0.4				
TIA	31.2	310	P	19 06 14.1	-0.4				
			LN	Ms=4.8	19.0	1.36			
BJI	33.6	316	eP	19 06 35.5	-0.4				
TIY	35.2	310	eP	19 06 50.0	0.6				
			LN	Ms=4.7	18.0	0.72			
XAN	36.7	302	eP	19 07 02.6	0.4				
HHC	37.1	314	eP	19 07 06.5	0.9				
BTO	38.1	313	P	19 07 09.0	-4.6				
			eS	19 12 55.0	-5.3				
			LN	Ms=4.9	17.0	0.60			
			LE			17.0	0.80		
LZH	41.3	304	eP	19 07 40.0	0.0				
GTA	45.1	307	P	19 08 11.2	-0.2				
			LN	Ms=4.3	19.0	0.24			
LSA	51.2	293	P	19 08 59.0	-0.1				
WMQ	54.9	311	+P	19 09 25.6	0.1				
			LE	Ms=5.0	18.0	0.78			
<p>1987 3 15 O=19 08 21.6 ± 0.12s LAT=18.82 N ± 0.95km LONG=146.42 E ± 2.58km DEPTH= 51 km ± 0.55km STATIONS USED = 24, STAND DEV= 1.50s</p>									
TIA	31.1	310	eP	19 14 36.9	-0.5				
BJI	33.5	316	eP	19 14 58.5	-0.3				
HHC	37.0	314	eP	19 15 29.7	1.1				
BTO	38.0	313	-iP	19 15 36.6	-0.1				
GTA	45.0	307	eP	19 16 34.4	-0.2				
LSA	51.1	293	eP	19 17 17.8	-4.6				
WMQ	54.7	311	P	19 17 48.0	-0.9				
<p>1987 3 15 O=21 42 16.8 ± 0.10s LAT= 5.28 S ± 1.58km LONG=151.63 E ± 2.33km DEPTH= 64 km ± 0.39km STATIONS USED = 90, STAND DEV= 1.07s Ms=5.1/21,</p>									
QZH	44.0	315	+P	21 50 20.0	0.1				
			pP	21 50 34.0	-1.3				
			eS	21 56 51.0	4.7				
			sS	21 57 17.5	4.5				
			LN	Ms=4.7	32.0	0.97			
SSE	46.4	323	+P	21 50 40.5	1.3				
			pP	21 50 54.0	-0.7				
			sP	21 51 01.0	-0.5				
			eS	21 57 24.0	2.9				
			sS	21 57 51.0	3.1				

			LN		Ms = 5.3	24.0	1.22			LZ		Ms = 5.1	20.0	0.94
			LE			24.0	2.11	KMI	56.3	305	+P	21 51 54.5	0.5	
			LZ		Ms = 5.1	20.0	1.46				pP	21 52 09.5	0.0	
GZH	46.8	309	P	21 50 45.0			2.5	CD2	58.2	311	+iP	21 52 06.8	-0.3	
QZN	47.7	302	-P	21 50 51.2			1.7				pP	21 52 22.0	-0.8	
			pP	21 51 05.5			0.6				eS	22 00 04.0	2.3	
			PP	21 52 45.0			5.0				esS	22 00 31.0	1.9	
			eS	21 57 45.0			5.4				LN	Ms = 5.2	24.0	1.38
			eSS	22 01 08.0			6.0				LZ	Ms = 5.4	30.0	2.80
NJ2	48.5	322	-P	21 50 57.0			1.5	HHC	58.8	325	eP	21 52 12.0	0.7	
			S	21 57 52.0			2.5				pP	21 52 27.0	0.1	
			LZ		Ms = 5.1	24.0	1.40	BTO	59.5	324	+iP	21 52 16.0	-0.3	
WHN	50.4	317	eP	21 51 11.5			1.3				pP	21 52 32.0	0.0	
			sP	21 51 35.0			2.5				ePP	21 54 30.0	1.4	
			eS	21 58 21.0			3.9				eS	22 00 21.0	1.9	
			sS	21 58 46.0			1.8	LZH	60.8	317	+P	21 52 24.5	-0.6	
			LE		Ms = 4.8	26.0	0.70				PMZ		1.5	0.12
TIA	52.4	325	eP	21 51 24.8			-0.6	GTA	65.2	318	+iP	21 52 54.2	-0.3	
			pP	21 51 39.8			-1.2				eS	22 01 34.0	2.8	
			eS	21 58 47.0			2.1				eSS	22 05 48.0	3.0	
			LN		Ms = 4.9	29.0	0.92				LZ	Ms = 4.6	26.0	0.35
			LE			29.0	0.64	WMQ	75.3	318	+P	21 53 55.4	-0.2	
			LZ		Ms = 4.9	29.0	1.14				S	22 03 32.0	5.0	
SNY	53.4	334	+P	21 51 31.8			-1.0				LZ	Ms = 5.0	30.0	0.66
			S	21 58 56.0			-1.2	KSH	82.3	311	P	21 54 36.0	1.9	
			LN		Ms = 5.1	30.0	1.17				cpP	21 54 51.0	0.8	
			LE			27.0	0.93							
			LZ		Ms = 5.1	29.0	1.50							
MDJ	53.5	341	eP	21 51 32.5			-0.7							
GYA	53.8	308	P	21 51 36.4			0.9							
			pP	21 51 51.0			-0.1							
			S	21 59 05.0			3.0							
			sS	21 59 31.0			0.7							
CN2	54.3	337	eP	21 51 37.5			-1.6							
			cpP	21 51 53.0			-1.8							
			PcP	21 52 40.5			-0.9							
			eS	21 59 11.0			1.1							
			eSS	22 02 52.0			1.6							
			LZ		Ms = 5.2	24.0	1.50							
BJI	55.7	327	eP	21 51 48.5			-0.6	SSE	21.7	251	eP	03 51 04.0	-0.3	
			cpP	21 52 04.0			-0.9				PMZ		1.0	0.030
			eS	21 59 28.0			-0.5				sS	03 55 16.0	5.2	
			esS	21 59 55.0			-0.8				LN	Ms = 4.3	14.0	0.58
			LE		Ms = 4.7	22.0	0.48				LZ	Ms = 4.2	20.0	0.56
XAN	56.2	317	eP	21 51 52.0			-0.9	BJI	22.1	278	eP	03 51 07.5	-1.1	
			pP	21 52 07.0			-1.6				eS	03 55 08.0	2.1	
			sP	21 52 12.0			-3.5				SMN	m _B = 5.0	7.0	0.27
											SME		8.0	0.34
TIY	56.2	323	eP	21 51 52.5			-0.6	TIA	22.4	267	eP	03 51 10.8	-1.0	
			eS	21 59 42.5			6.6				eS	03 55 09.0	-2.9	
			LN		Ms = 5.3	20.0	1.49				SMN	m _B = 5.2	9.0	0.54

1987 3 16

O = 03 46 13.5 ± 0.06s
 LAT = 40.78 N ± 1.60km
 LONG = 145.24 E ± 1.11km
 DEPTH = 28 km ± 0.58km
 STATIONS USED = 80, STAND DEV = 1.22s
 Ms = 4.3 / 9, m_B = 5.0 / 3

				SME		9.0	0.44					SME		13.0	0.56
NJ2	22.9	256	+P	03 51 15.8	-0.5			sS	04 14 05.5		3.4				
			LZ	Ms=4.3		16.0	0.50	LN	Ms=5.4		19.0	0.84			
HHC	25.4	281	eP	03 51 42.0	1.2			LZ	Ms=4.9		22.0	0.36			
BTO	26.6	281	P	03 51 52.0	0.0			GYA	88.9	298	P	04 03 11.2	0.4		
			eS	03 56 23.0	-0.4			XAN	89.5	306	P	04 03 13.6	0.1		
WHN	27.0	258	eP	03 51 55.0	-0.2			BTO	90.9	312	eP	04 03 19.8	-0.3		
			eS	03 56 30.0	0.9			KMI	91.9	295	+P	04 03 25.0	0.1		
			LE	Ms=4.3		16.0	0.44	1987 3 16							
XAN	29.5	269	eP	03 52 16.9	-0.9			O=09 57 20.2 ± 0.05s							
GZH	32.1	246	eP	03 52 41.0	0.3			LAT=26.49 N ± 0.43km							
LZH	32.5	275	-P	03 52 45.0	-0.1			LONG=100.86 E ± 0.42km							
			PMZ			1.5	0.070	DEPTH=2 km ± 0.28km							
GTA	34.5	283	-iP	03 53 02.0	0.2			STATIONS USED = 5, STAND DEV = 2.89s							
			PcP	03 55 36.2	0.2			M _L = 3.0 / 3,							
			PcS	03 59 22.6	1.3			1987 3 16							
CD2	34.8	267	eP	03 53 03.5	-0.6			O=10 28 57.6 ± 0.08s							
GYA	34.9	258	P	03 53 04.4	-0.6			LAT=39.37 N ± 1.64km							
KMI	38.5	259	eP	03 53 32.0	-4.1			LONG=72.99 E ± 0.98km							
LSA	44.9	273	-P	03 54 28.2	-0.4			DEPTH=52 km ± 0.76km							
1987 3 16															
O=03 50 16.6 ± 0.17s															
LAT=15.86 S ± 8.35km															
LONG=172.64 W ± 2.93km															
DEPTH=27 km ± 0.82km															
STATIONS USED = 36, STAND DEV = 1.78s															
Ms=5.1 / 3, m _B =5.7 / 4															
MDJ	79.8	322	eP	04 02 25.5	0.4			KSH	2.3	87	P	10 29 37.5	2.9		
CN2	81.9	320	+P	04 02 35.0	-1.0						S	10 30 01.2	0.8		
			PMZ	m _B =5.8		4.0	0.40	SME M _L =5.0 1.0 9.10							
			eS	04 12 49.0	1.9			WMQ	11.9	63	-P	10 31 45.0	-2.1		
SNY	82.1	317	eP	04 02 37.3	0.3						LZ	Ms=4.0	10.0	0.55	
			iS	04 12 56.0	6.9			GTA	20.7	81	+iP	10 33 36.6	0.3		
			SMN			14.0	0.82	CD2	26.4	99	eP	10 34 33.2	1.3		
QZN	83.8	292	eP	04 02 45.0	-0.5			1987 3 16							
			eS	04 13 07.5	1.7			O=12 01 02.0 ± 0.07s							
TIA	84.1	310	eP	04 02 47.4	0.4			LAT=26.54 N ± 0.64km							
			eS	04 13 15.0	6.2			LONG=100.83 E ± 0.57km							
			SMN	m _B =5.8		11.0	0.50	DEPTH=10 km ± 0.44km							
			SME			11.0	0.59	STATIONS USED = 6, STAND DEV = 2.86s							
BJI	86.3	313	eP	04 02 58.0	-0.2			M _L = 3.4 / 3,							
			eS	04 13 28.0	-2.8			1987 3 16							
			SMN	m _B =5.7		11.0	0.60	O=12 21 37.3 ± 0.12s							
			SME			12.0	0.64	LAT=6.36 S ± 1.62km							
TIY	88.1	310	-P	04 03 07.6	0.7			LONG=147.84 E ± 3.07km							
			pP	04 03 17.0	1.5			DEPTH=23 km ± 0.04km							
			SKS	04 13 26.5	-3.5			STATIONS USED = 73, STAND DEV = 1.14s							
			S	04 13 42.0	-4.1			Ms=5.6 / 42, m _B =5.4 / 4							
								QZH	42.2	319	+P	12 29 32.0	1.7		
											S	12 35 52.0	3.9		
											LE	Ms=5.4	18.0	3.08	

LAT = 6.44 S	± 0.78km	DL2	51.2	334	-P	15 58 41.0	2.0		
LONG = 147.80 E	± 1.82km				sP	15 58 55.0	3.9		
DEPTH = 50 km	± 0.46km				S	16 06 00.0	6.8		
STATIONS USED = 28,	STAND DEV = 0.88s				LN	Ms = 6.3	17.0	7.47	
SSE	45.2 327 eP	15 36 12.5	0.3		LE		19.0	13.8	
XAN	54.5 320 P	15 37 26.2	2.4	TIA	51.2 328 eP	15 58 38.0	-1.3		
BJI	54.7 330 eP	15 37 24.0	-0.8		sP	15 58 51.0	-0.4		
GTA	63.6 320 eP	15 38 26.7	0.0		SMN	m _B = 5.6	11.0	0.70	
					SME		11.0	0.44	
1987 3 16					sS	16 06 03.5	-5.5		
O = 15 49 35.8	± 0.16s				LN	Ms = 6.2	17.0	10.3	
LAT = 6.38 S	± 2.60km				LE		17.0	5.25	
LONG = 147.78 E	± 3.71km				LZ	Ms = 6.1	17.0	9.83	
DEPTH = 28 km	± 0.39km			GYA	51.5 311 -P	15 58 44.0	2.2		
STATIONS USED = 95,	STAND DEV = 1.85s				pP	15 58 54.0	3.9		
Ms = 6.1 / 64,	m _B = 5.9 / 21				sP	15 58 58.0	4.2		
QZH	42.1 319 +iP	15 57 30.0	2.1		PP	16 00 42.0	3.2		
	PMZ	m _B = 5.8	8.0	1.25	LN	Ms = 5.8	16.0	2.50	
	pP	15 57 40.0	3.6		LE		16.0	4.10	
	S	16 03 46.0	0.9		SNY	52.8 337 +P	15 58 51.0	-0.5	
	sS	16 04 02.0	2.0		PMZ	m _B = 6.0	6.0	1.18	
	LE	Ms = 6.0	18.0	10.5	sP	15 59 04.0	0.4		
GZH	44.6 312 +P	15 57 53.5	5.6		S	16 06 14.0	-2.0		
	PcS	16 03 23.0	0.5		SMN		32.0	12.5	
	LN	Ms = 5.9	16.0	4.43	SME		26.0	6.34	
	LE		17.0	6.54	SS	16 09 58.0	4.3		
QZN	45.1 305 P	15 57 54.0	2.1		LN	Ms = 6.2	18.5	8.06	
	PP	15 59 42.0	4.3		LE		19.0	10.3	
	SME	m _B = 5.9	12.0	2.00	LZ	Ms = 6.3	19.0	18.4	
	LN	Ms = 6.1	17.0	4.50	MDJ	53.3 344 eP	15 58 55.0	-0.3	
	LE		20.0	11.5	eS	16 06 24.0	0.0		
SSE	45.1 327 P	15 57 51.3	-0.6		LZ	Ms = 6.0	16.0	6.70	
	PMZ	m _B = 5.8	6.0	0.84	KMI	53.8 307 +P	15 58 59.0	-0.3	
	S	16 04 29.0	0.9		sP	15 59 13.0	1.8		
	SS	16 07 46.0	3.5		eS	16 06 32.0	0.7		
	LN	Ms = 6.2	19.0	18.1	SS	16 10 10.0	0.0		
	LZ	Ms = 6.3	20.0	21.2	LZ	Ms = 6.2	20.0	13.2	
NJ2	47.1 326 +P	15 58 08.0	0.2		CN2	53.9 340 -P	15 59 00.0	0.7	
	sP	15 58 21.0	1.1		PMZ	m _B = 6.1	5.0	1.30	
	PP	16 00 01.0	3.3		pP	15 59 10.0	2.1		
	S	16 04 55.0	-1.8		eS	16 06 36.0	4.6		
	LN	Ms = 6.2	14.0	12.3	SMN		28.0	10.7	
	LZ	Ms = 6.3	21.0	20.4	sS	16 06 52.0	6.4		
WHN	48.7 321 eP	15 58 20.0	-0.2		LZ	Ms = 6.4	20.0	20.3	
	pP	15 58 28.0	-0.7		XAN	54.5 320 eP	15 59 01.7	-2.0	
	sP	15 58 34.0	1.6		eS	16 06 33.0	-6.4		
	S	16 05 26.0	6.8		LN	Ms = 6.4	5.0	7.79	
	SMN	m _B = 6.2	10.0	3.40	LE		16.0	4.76	
	SME		12.0	1.70	BJI	54.6 330 eP	15 59 03.0	-1.6	
	LE	Ms = 5.7	18.0	5.00	cpP	15 59 14.0	0.7		

LSA	82.5	302	+P	16 52 15.0	0.1		
WMQ	89.2	315	P	16 52 47.2	0.0		
1987 3 16							
O=	17 20 43.7				± 0.10s		
LAT=	53.44 N				± 3.30km		
LONG=	167.19 W				± 1.64km		
DEPTH=	9 km				± 0.25km		
STATIONS USED = 46, STAND DEV = 1.79s							
Ms = 5.2 / 6,							
CN2	44.0	286	cP	17 28 55.0	1.3		
SNY	46.3	285	cP	17 29 14.0	1.9		
BTO	54.8	292	cP	17 30 16.0	-0.9		
			cS	17 37 50.0	-6.6		
			LN		Ms = 5.3	17.0	1.10
			LE			18.0	0.80
			LZ		Ms = 5.4	18.0	1.70
SSE	55.0	276	cP	17 30 22.5	4.2		
			LZ		Ms = 5.2	24.0	1.53
TIY	55.4	288	cP	17 30 21.2	-0.3		
			cS	17 38 06.0	0.9		
			LN		Ms = 5.4	21.0	2.00
WHN	59.4	281	P	17 30 52.0	2.2		
XAN	60.0	288	cP	17 30 53.4	-0.6		
GTA	61.2	298	cP	17 30 59.4	-2.3		
WMQ	63.9	309	P	17 31 19.0	-0.9		
CD2	65.3	289	cP	17 31 27.7	-1.2		
GYA	67.0	284	P	17 31 39.4	-0.4		
QZN	70.8	276	cP	17 32 07.0	3.7		
LSA	73.2	297	cP	17 32 15.5	-2.4		

1987 3 16							
O=	21 00 23.1				± 0.06s		
LAT=	34.25 N				± 0.39km		
LONG=	103.35 E				± 0.49km		
DEPTH=	6 km				± 0.32km		
STATIONS USED = 6, STAND DEV = 2.41s							
M _L = 3.2 / 5,							
LZH	1.9	12	Pn	21 00 55.0	-1.3		
			Pg	21 00 56.5	0.2		
			Sg	21 01 22.5	0.5		
			SMN		M _L = 3.1	0.5	0.20
			SME			1.0	0.12
XAN	4.6	91	cPn	21 01 35.8	1.8		
			Pg	21 01 44.8	0.0		
			Sg	21 02 47.2	-0.9		
			SMN		M _L = 3.5	1.4	0.090
			SME			1.0	0.050

1987 3 16

O=	21 11 19.2				± 0.12s		
LAT=	0.58 N				± 1.95km		
LONG=	126.41 E				± 3.48km		
DEPTH=	29 km				± 0.08km		
STATIONS USED = 21, STAND DEV = 2.50s							
CD2	37.0	327	cP	21 18 27.7	-1.1		
BJI	40.4	348	P	21 18 56.0	-0.5		
MDJ	43.9	3	cP	21 19 25.5	-0.3		
LSA	44.3	314	cP	21 19 30.0	0.6		
WMQ	55.1	327	P	21 20 52.8	1.0		

1987 3 17							
O=	01 44 59.2				± 0.04s		
LAT=	43.88 N				± 0.83km		
LONG=	138.32 E				± 0.41km		
DEPTH=	271 km				± 0.40km		
STATIONS USED = 30, STAND DEV = 0.79s							
MDJ	6.3	280	cP	01 46 32.8	0.4		
CN2	9.3	274	+P	01 47 09.5	-0.3		
BJI	16.9	265	cP	01 48 39.5	-1.8		

1987 3 17							
O=	10 11 16.7				± 0.02s		
LAT=	37.99 N				± 0.15km		
LONG=	120.61 E				± 0.14km		
DEPTH=	14 km				± 0.01km		
STATIONS USED = 5, STAND DEV = 0.64s							
M _L = 3.2 / 8,							
DL2	1.2	41	iPg	10 11 38.2	0.0		
			Sg	10 11 53.4	-1.5		
			SMN		M _L = 3.3	0.3	0.27
			SME			0.3	0.73
TIA	3.3	239	cPg	10 12 14.6	-0.5		
			Sg	10 12 53.6	-6.7		
			SMN		M _L = 2.5	0.3	0.017
			SME			0.3	0.017

1987 3 17							
O=	15 12 00.2				± 0.16s		
LAT=	35.57 N				± 0.85km		
LONG=	81.00 E				± 1.66km		
DEPTH=	0 km				± 2.51km		
STATIONS USED = 10, STAND DEV = 2.99s							
M _L = 4.3 / 5,							
KSH	5.6	316	cPn	15 13 29.0	4.4		
			Sg	15 14 49.5	-4.9		
			SMN		M _L = 4.6	0.9	0.70
			SME			0.7	0.40
			SMZ			4.0	3.50

1987 3 17
 O=16 29 58.6 ± 0.10s
 LAT=37.57 N ± 0.93km
 LONG=114.54 E ± 0.90km
 DEPTH= 12 km ± 0.37km
 STATIONS USED = 12, STAND DEV = 1.85s
 M_L=3.2 / 17,

TIY	1.7	275	cPn	16 30 26.8	-1.5		
			iPg	16 30 27.8	-0.5		
			Sg	16 30 48.6	-2.6		
			SMN	M _L =3.3	0.6	0.35	
			SME		0.6	0.29	
TIA	2.5	123	cPg	16 30 41.6	-0.9		
			Sg	16 31 13.3	-3.1		
			SMN	M _L =3.1	0.3	0.11	
			SME		0.3	0.11	
			SMZ	M _L =3.4	0.3	0.13	
BJI	2.8	27	cPn	16 30 43.0	-0.3		
			Pg	16 30 49.5	1.9		
			cSn	16 31 18.5	-0.1		
			Sg	16 31 24.5	-1.1		
			SMN	M _L =2.6	0.5	0.030	
			SME		0.5	0.020	
HHC	4.0	326	cPn	16 31 01.1	0.8		
			Pg	16 31 12.8	3.5		
			Sg	16 32 03.0	-1.1		
			SMN	M _L =3.6	0.6	0.12	
			SME		0.6	0.13	
BTO	4.6	312	cPg	16 31 21.2	0.5		
			cSg	16 32 19.8	-4.0		
			SMN	M _L =3.1	0.8	0.020	
			SME		0.8	0.040	
			SMZ	M _L =3.1	0.8	0.020	
XAN	5.8	234	cP*	16 31 32.6	-2.1		

1987 3 17
 O=16 44 23.3 ± 0.11s
 LAT=37.60 N ± 1.14km
 LONG=114.52 E ± 0.99km
 DEPTH= 18 km ± 0.22km
 STATIONS USED = 12, STAND DEV = 3.58s
 M_L=3.3 / 18,

TIY	1.7	274	iPg	16 44 51.2	-1.7		
			Sg	16 45 12.5	-3.1		
			SMN	M _L =3.4	0.7	0.42	
			SME		0.6	0.33	
TIA	2.5	123	Pg	16 45 05.6	-2.1		
			Sg	16 45 37.3	-4.7		
			SMN	M _L =3.1	0.3	0.090	
			SME		0.3	0.12	

SMZ	M _L =3.4				
BJI	2.8	27	cPn	16 45 06.5	-0.6
			Pg	16 45 16.0	4.0
			Sn	16 45 42.5	0.7
			SMN	M _L =2.9	0.5 0.080
			SME		0.5 0.040
BTO	4.6	312	cPg	16 45 42.3	-2.6
			cSg	16 46 41.0	-6.7
			SMN	M _L =3.2	0.8 0.030
			SME		0.8 0.050
			SMZ	M _L =3.4	0.8 0.040
XAN	5.8	234	cPn	16 45 54.5	5.7
			Pg	16 46 08.0	2.7

1987 3 17
 O=21 31 01.5 ± 0.12s
 LAT= 9.31 S ± 1.67km
 LONG=123.71 E ± 3.16km
 DEPTH= 34 km ± 0.34km
 STATIONS USED = 40, STAND DEV = 1.78s
 M_s=4.8 / 1,

GYA	39.2	335	P	21 38 30.0	1.2
WHN	40.6	348	cP	21 38 41.5	1.2
CD2	44.3	335	cP	21 39 15.0	4.3
XAN	45.3	343	cP	21 39 17.4	-1.3
TIY	47.9	348	cP	21 39 36.0	-3.3
			LN	M _s =4.8	7.0 0.23
LZH	48.9	339	cP	21 39 46.5	-0.1
BJI	49.6	352	cP	21 39 50.5	-1.4
LSA	49.9	322	cP	21 39 53.5	-1.0
SNY	50.9	360	cP	21 40 01.2	-0.6
HHC	51.1	348	cP	21 40 01.2	-2.7
BTO	51.2	347	cP	21 40 09.2	4.6
GTA	53.3	337	P	21 40 20.3	0.2
MDJ	53.9	5	-P	21 40 24.3	-0.3
			pP	21 40 28.4	-5.9
WMQ	62.1	331	P	21 41 21.5	-0.8

1987 3 18
 O=00 22 48.3 ± 0.05s
 LAT= 2.11 N ± 0.80km
 LONG=126.53 E ± 1.35km
 DEPTH= 29 km ± 0.04km
 STATIONS USED = 100, STAND DEV = 0.76s
 M_s=5.5 / 44, m_B=6.0 / 28

QZN	23.5	317	+P	00 27 57.0	0.6
			pP	00 28 07.0	2.4
			PP	00 28 25.5	-2.3
			S	00 32 00.0	-3.9
			SMN	m _B =6.2	11.0 5.70

			SME		10.0	4.70			S	00 35 20.0	-2.4		
			LN	Ms = 5.5	19.0	8.64			LN		Ms = 5.4	10.0	2.30
			LE		19.0	5.45	DL2	36.9 354	+iP	00 29 57.0	0.3		
QZH	24.0	342	eP		00 28 00.0	-1.4			PMZ		m _B = 6.2	4.0	1.54
			S		00 32 12.0	-0.7			PP	00 31 18.0	-4.5		
			LN	Ms = 5.3		16.0	4.03		eS	00 35 34.0	-5.5		
			LE			16.0	2.37		LN		Ms = 5.5	14.0	3.85
GZH	24.5	330	P		00 28 05.6	-0.7			TIY	37.7 342	+iP	00 30 03.0	-0.8
			PMZ	m _B = 6.0		4.0	2.33		SS	00 38 32.5	5.6		
			pP		00 28 13.0	-1.5			LN		Ms = 5.9	24.0	11.2
			PP		00 28 35.0	-6.7			LE			30.0	9.56
			S		00 32 18.0	-3.4			LZ		Ms = 5.8	30.0	13.7
			sS		00 32 28.9	-6.6			BJI	38.9 347	+P	00 30 14.0	0.4
			LN	Ms = 5.4		34.0	13.7		SMN		m _B = 5.8	10.0	1.40
SSE	29.3	351	+iP		00 28 51.0	0.5			SME			8.0	0.85
			PMZ	m _B = 6.0		5.0	1.31		LN		Ms = 5.1	14.0	1.32
			sP		00 29 06.0	3.3			SNY	39.6 357	+iP	00 30 20.0	0.5
			iS		00 33 40.0	-0.6			PMZ		m _B = 6.3	4.0	2.26
			SMN	m _B = 5.7		12.0	2.33		iS	00 36 19.0	-2.0		
			eSS		00 35 16.0	4.7			SMN		m _B = 6.1	9.5	2.13
			ScP		00 35 36.0	1.1			SME			7.5	1.91
			PcS		00 35 41.0	2.8			SS	00 39 12.0	3.1		
			LN	Ms = 5.4		24.0	3.84		LN		Ms = 5.7	28.0	8.81
			LE			24.0	6.62		LE			25.0	5.19
			LZ	Ms = 5.3		22.0	5.65		LZ		Ms = 5.7	28.0	10.1
WHN	30.5	339	-P		00 29 02.5	0.6			LZH	39.8 331	+P	00 30 21.0	-0.2
			S		00 34 00.0	0.0			SMN		m _B = 5.8	8.0	1.46
			SMN	m _B = 5.7		9.0	1.60		LE		Ms = 5.7	22.0	7.83
			LE	Ms = 5.2		16.0	2.50	BTO	41.1 341	+iP	00 30 31.5	-0.6	
NJ2	30.7	347	+P		00 29 03.0	0.2			ePP	00 32 09.0	-1.0		
			S		00 34 02.0	0.4			S	00 36 41.0	-1.4		
			SMN	m _B = 5.9		11.0	2.70		LN		Ms = 5.6	21.0	4.00
			LZ	Ms = 5.5		23.0	7.80		LE			21.0	4.10
GYA	30.8	324	+P		00 29 04.0	-0.5			LZ		Ms = 5.5	20.0	4.60
			S		00 34 02.0	-2.4			CN2	41.5 359	+iP	00 30 35.0	-0.2
			LN	Ms = 5.5		15.0	3.30		PMZ		m _B = 6.0	5.0	1.20
			LE			15.0	3.20		pP	00 30 41.0	-2.7		
KMI	32.4	317	+P		00 29 19.0	0.5			PcP	00 32 33.0	0.6		
			LE	Ms = 5.2		15.0	2.61		eS	00 36 47.0	-2.3		
TIA	35.0	347	+P		00 29 40.8	-0.2			eSS	00 39 44.0	-4.8		
			S		00 35 08.0	-1.9			LZ		Ms = 5.6	24.0	6.40
			SMN	m _B = 6.1		11.0	3.40	MDJ	42.4 3	+iP	00 30 43.3	0.8	
			SME			8.0	1.12		PMZ		m _B = 6.4	4.0	2.20
			LN	Ms = 5.4		13.0	2.60		PP	00 32 24.9	1.0		
			LE			14.0	1.73		S	00 37 06.0	4.6		
XAN	35.8	335	+P		00 29 46.0	-1.3			LZ		Ms = 5.8	30.0	12.2
			S		00 35 19.0	-2.3			LSA	43.4 313	+P	00 30 50.2	-0.6
			LN	Ms = 5.6		20.0	5.43		pP	00 31 04.5	5.5		
			LE			15.0	2.80		S	00 37 16.0	0.7		
CD2	35.8	325	P		00 29 47.2	-0.7			SME		m _B = 6.2	9.0	3.89

GYA	22.6	262	+P	03 41 27.0	-0.2			
			PMZ	$m_B=6.7$	6.0	20.7		
			sP	03 41 42.0	-3.9			
			S	03 45 30.0	4.6			
			SMN	$m_B=6.9$	10.0	28.5		
			SME		10.0	13.8		
			LN	$M_s=6.0$	16.0	25.0		
			LE		16.0	16.0		
LZH	23.5	288	+iP	03 41 36.0	-0.1			
			PMZ	$m_B=6.8$	7.0	27.3		
			sP	03 41 50.0	-4.8			
			S	03 45 42.0	0.6			
			SME	$m_B=7.2$	9.0	55.6		
			LE	$M_s=6.0$	21.0	39.3		
QZN	23.6	242	+iP	03 41 36.5	0.0			
			PMZ	$m_B=6.1$	9.0	7.00		
			pP	03 41 50.5	1.1			
			PP	03 42 07.0	-2.5			
			S	03 45 39.5	-3.0			
			LN	$M_s=6.7$	14.0	89.9		
			LE		13.0	77.1		
CD2	24.0	275	+iP	03 41 39.8	-0.3			
			PMZ	$m_B=6.8$	4.0	18.8		
			SME	$m_B=7.3$	10.0	84.8		
			LN	$M_s=5.9$	20.0	25.5		
KMI	26.4	262	+P	03 42 02.0	-1.4			
			PMZ	$m_B=6.5$	10.0	11.6		
			pP	03 42 16.0	-0.1			
			LE	$M_s=6.1$	18.0	32.0		
LSA	34.9	277	+P	03 43 17.0	-1.5			
			S	03 48 50.0	6.8			
			sS	03 49 05.0	-2.2			
			LN	$M_s=6.7$	20.0	79.7		
			LE		19.0	14.3		
WMQ	36.4	302	+iP	03 43 30.0	-1.0			
			SME		38.0	45.6		
			SS	03 51 40.0	5.4			
			LE	$M_s=6.3$	17.0	28.7		
KSH	45.4	296	+iP	03 44 46.0	1.2			
			pP	03 44 57.0	-1.3			
			ScP	03 50 14.0	5.0			
			S	03 51 24.0	4.4			
			ScS	03 54 37.0	4.8			
			LE	$M_s=6.2$	18.0	17.6		

1987 3 18
 O = 03 58 12.3 ± 0.07s
 LAT = 31.95 N ± 1.25km
 LONG = 131.95 E ± 1.11km
 DEPTH = 50 km ± 0.46km

STATIONS USED = 32, STAND DEV = 1.61s

NJ2	11.1	274	-P	04 00 52.8	1.2
MDJ	12.8	352	cP	04 01 13.0	-0.9
CN2	12.9	338	cP	04 01 15.8	0.4
			pP	04 01 25.0	0.9
TIA	13.0	293	cP	04 01 18.3	1.4
BJI	15.1	307	cP	04 01 49.5	5.4
GYA	22.7	263	P	04 03 10.6	-0.6
CD2	24.1	275	cP	04 03 23.0	-1.2
WMQ	36.5	302	P	04 05 13.0	-1.9

1987 3 18
 O = 05 00 17.3 ± 0.07s
 LAT = 31.94 N ± 1.13km
 LONG = 131.98 E ± 1.08km
 DEPTH = 52 km ± 0.57km

STATIONS USED = 61, STAND DEV = 1.35s
 Ms = 4.1 / 5,

DL2	10.9	312	cP	05 02 53.0	-1.0
NJ2	11.1	274	+P	05 02 58.0	1.2
SNY	11.9	328	+iP	05 03 09.0	1.5
			LN	$M_s=4.3$	13.0 1.02
			LE		13.0 0.98
MDJ	12.8	352	cP	05 03 21.0	2.0
CN2	12.9	338	cP	05 03 21.2	0.7
			pP	05 03 29.8	0.3
TIA	13.0	293	cP	05 03 23.5	1.4
BJI	15.1	307	cP	05 03 49.5	0.2
			S	05 06 40.0	5.5
			LN	$M_s=4.4$	12.0 0.99
WHN	15.1	269	cP	05 03 51.0	1.3
HHC	18.7	304	cP	05 04 34.0	0.3
XAN	19.5	282	cP	05 04 41.4	-1.3
BTO	19.7	302	cP	05 04 44.0	-1.1
GYA	22.7	263	P	05 05 16.8	0.5
LZH	23.7	288	cP	05 05 25.0	-0.2
			PMZ		1.5 0.050
CD2	24.1	275	cP	05 05 28.8	-0.5
GTA	27.1	295	P	05 05 55.0	-2.5
WMQ	36.5	302	P	05 07 17.8	-2.2

1987 3 18
 O = 05 50 10.6 ± 0.10s
 LAT = 27.30 N ± 2.19km
 LONG = 129.64 E ± 1.99km
 DEPTH = 37 km ± 0.86km

STATIONS USED = 57, STAND DEV = 1.94s
 Ms = 4.5 / 18,

NJ2	10.5	299	+P	05 52 40.8	-1.1
			LE	$M_s=4.5$	11.0 2.40

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WHN	13.8	287	eP	05 53 30.0	4.2		
			eS	05 56 00.0	1.7		
			LN	Ms=4.4	10.0	1.00	
SNY	15.3	343	eP	05 53 46.8	0.9		
CN2	16.8	349	eP	05 54 04.0	-0.9		
BJI	16.9	322	eP	05 54 07.0	0.7		
TIY	17.8	310	eP	05 54 18.5	0.9		
			S	05 57 32.0	0.3		
			LN	Ms=4.8	12.5	1.34	
			LE		12.5	1.75	
			LZ	Ms=4.6	20.0	2.29	
XAN	19.0	296	eP	05 54 30.0	-2.5		
QZN	20.0	250	eP	05 54 44.1	1.4		
			eS	05 58 19.0	-1.2		
			LN	Ms=4.5	16.0	1.20	
HHC	20.1	317	eP	05 54 43.4	-1.0		
GYA	20.5	273	P	05 54 50.4	1.9		
BTO	20.9	314	eP	05 54 50.6	-2.3		
			eS	05 58 33.0	-6.4		
			LN	Ms=4.5	13.0	0.50	
			LE		13.0	0.70	
			LZ	Ms=4.7	13.0	1.20	
CD2	22.9	285	eP	05 55 10.2	-2.1		
LZH	23.6	298	eP	05 55 20.0	0.8		
			LE	Ms=4.8	12.5	1.33	
GTA	27.6	304	-iP	05 55 55.4	-1.2		
			LE	Ms=4.7	12.0	0.75	
LSA	33.8	283	-iP	05 56 50.4	-1.8		
WMQ	37.4	307	eP	05 57 21.0	-1.7		

1987 3 18							
O	=08 52 48.9						± 0.21s
LAT	=29.97 S						± 2.95km
LONG	=177.69 W						± 2.14km
DEPTH	= 32 km						± 0.61km
STATIONS USED = 45, STAND DEV = 0.96s							
Ms=5.3 / 7,							
SSE	84.0	311	P	09 05 16.0	-2.5		
			pP	09 05 33.5	5.7		
			LN	Ms=5.4	22.0	0.68	
			LE		24.0	0.90	
			LZ	Ms=5.4	22.0	1.19	
GZH	84.7	300	eP	09 05 22.5	0.9		
QZN	85.1	295	eP	09 05 25.4	1.8		
NJ2	86.2	310	eP	09 05 28.0	-1.1		
			LZ	Ms=5.2	22.0	0.70	
WHN	88.3	307	eP	09 05 38.0	-1.4		
MDJ	88.4	325	eP	09 05 40.0	0.0		
DL2	88.8	317	eP	09 05 42.0	0.1		
SNY	89.6	320	-P	09 05 45.6	-0.1		
TIA	89.9	313	eP	09 05 47.2	0.3		
CN2	90.0	323	+P	09 05 46.5	-0.8		
			pP	09 05 53.0	-3.7		
			LZ	Ms=5.3	20.0	0.70	
GYA	91.6	300	P	09 05 55.2	0.3		
BJI	92.8	315	eP	09 06 00.0	-0.5		
TIY	93.8	312	eP	09 06 04.8	-0.2		
XAN	94.1	307	eP	09 06 06.6	0.3		
KSH	120.2	301	ePKP	09 11 38.0	-0.2		

1987 3 18							
O	=08 02 19.8						± 0.09s
LAT	=26.52 N						± 1.77km
LONG	=142.47 E						± 1.66km
DEPTH	= 34 km						± 0.47km
STATIONS USED = 39, STAND DEV = 1.53s							
Ms=4.2 / 2,							
MDJ	20.8	333	eP	08 07 01.5	0.3		
SNY	21.8	319	-P	08 07 12.5	1.7		
CN2	22.1	326	eP	08 07 15.0	1.2		
			LZ	Ms=4.3	15.0	0.60	
TIA	23.6	300	eP	08 07 28.7	-0.4		
WHN	25.0	286	eP	08 07 43.6	1.3		
XAN	29.8	293	eP	08 08 25.5	-0.9		
GYA	32.0	278	P	08 08 45.2	-0.4		
CD2	34.1	287	eP	08 09 03.2	-0.7		
LZH	34.2	296	eP	08 09 03.0	-1.5		
GTA	37.7	301	P	08 09 39.0	4.6		
WMQ	47.1	306	eP	08 10 48.5	-2.5		

1987 3 18							
O	=09 14 06.0						± 0.09s
LAT	=37.55 N						± 0.89km
LONG	=114.56 E						± 0.68km
DEPTH	= 5 km						± 0.22km
STATIONS USED = 6, STAND DEV = 3.93s							
M _L =2.8 / 9,							
TIY	1.7	276	Pg	09 14 35.0	-1.0		
			Sg	09 14 57.0	-2.0		
			SMN	M _L =2.7	0.7	0.10	
			SME		0.6	0.080	
TIA	2.5	122	Pg	09 14 48.3	-1.2		
			Sn	09 15 15.6	-3.8		
			Sg	09 15 20.8	-2.2		
			SMN	M _L =2.5	0.3	0.030	
			SME		0.3	0.030	
			SMZ	M _L =2.8	0.3	0.040	

1987 3 18							
O	=13 12 10.2						± 0.07s

LAT = 6.62 S ± 0.62km
 LONG = 147.83 E ± 1.93km
 DEPTH = 21 km ± 0.16km
 STATIONS USED = 24, STAND DEV = 0.74s
 XAN 54.7 320 cP 13 21 39.4 -1.3
 BJI 54.8 330 cP 13 21 41.5 -0.3
 BTO 58.4 327 cP 13 22 07.0 -0.6
 GTA 63.7 320 P 13 22 43.0 -0.6
 WMQ 73.8 319 P 13 23 46.8 1.1

1987 3 18
 O = 14 06 12.7 ± 0.09s
 LAT = 26.03 N ± 1.17km
 LONG = 96.90 E ± 0.79km
 DEPTH = 14 km ± 0.36km
 STATIONS USED = 5, STAND DEV = 4.35s
 M_L = 3.6 / 3,
 LSA 6.3 307 cPn 14 07 48.4 2.8

1987 3 18
 O = 17 11 27.9 ± 0.49s
 LAT = 34.46 N ± 4.10km
 LONG = 80.84 E ± 1.30km
 DEPTH = 15 km
 STATIONS USED = 5, STAND DEV = 4.83s
 M_L = 4.1 / 4,
 KSH 6.3 323 cPn 17 13 02.8 1.6
 SMN M_L = 4.3 0.6 0.20
 SME 0.6 0.20
 SMZ 2.0 1.50

1987 3 18
 O = 20 59 56.7 ± 0.09s
 LAT = 24.79 N ± 0.24km
 LONG = 102.31 E ± 0.58km
 DEPTH = 9 km ± 0.92km
 STATIONS USED = 12, STAND DEV = 2.12s
 M_L = 3.5 / 5,
 KMI 0.5 50 Pg 21 00 07.0 1.0
 Sg 21 00 15.0 2.2
 SMN M_L = 3.3 1.0 1.24
 SME 1.0 2.04
 GYA 4.3 66 Pn 21 01 02.6 0.4
 CD2 6.2 12 cPn 21 01 30.2 1.1
 Pg 21 01 50.4 3.9
 SME M_L = 3.5 0.6 0.030

1987 3 18
 O = 21 29 22.3 ± 0.09s
 LAT = 5.77 S ± 1.35km

LONG = 146.34 E ± 2.34km
 DEPTH = 34 km ± 0.21km
 STATIONS USED = 51, STAND DEV = 1.01s
 QZN 43.6 305 cP 21 37 25.4 -0.1
 SSE 43.8 328 cP 21 37 28.5 1.0
 NJ2 45.8 327 cP 21 37 44.5 1.1
 WHN 47.4 322 P 21 37 57.2 1.9
 GYA 50.0 312 cP 21 38 18.0 1.6
 SNY 51.7 338 +P 21 38 28.9 -0.1
 MDJ 52.4 345 cP 21 38 32.3 -1.5
 CN2 52.8 341 cP 21 38 36.6 -0.7
 XAN 53.1 321 cP 21 38 39.2 -0.1
 BJI 53.4 331 cP 21 38 40.5 -0.9
 CD2 54.7 315 cP 21 38 50.6 -0.1
 HHC 56.3 329 cP 21 39 03.8 1.1
 BTO 56.9 327 -P 21 39 07.5 0.2
 LZH 57.6 320 cP 21 39 12.0 -0.1
 PMZ 1.5 0.030
 GTA 62.2 321 +P 21 39 43.0 -0.3
 LSA 63.6 307 +P 21 39 52.2 -0.9
 WMQ 72.2 320 P 21 40 46.5 0.1

1987 3 19
 O = 01 28 52.3 ± 0.23s
 LAT = 6.84 N ± 3.72km
 LONG = 76.46 W ± 4.71km
 DEPTH = 11 km ± 1.16km
 STATIONS USED = 60, STAND DEV = 1.91s
 M_s = 5.5 / 3,
 CN2 125.8 341 cPKP 01 47 56.0 0.5
 KSH 127.4 27 cPKP 01 48 02.0 3.4
 WMQ 127.6 14 PKP 01 47 59.3 0.3
 BJI 131.9 347 cPKP 01 48 06.0 -1.2
 HHC 132.0 352 cPKP 01 48 09.0 1.6
 BTO 132.4 353 cPKP 01 48 10.0 1.7
 GTA 133.9 4 cPKP 01 48 10.6 -0.4
 TIY, 134.9 350 cPKP 01 48 15.3 2.4
 LN M_s = 5.5 18.0 0.54
 LZ M_s = 5.5 21.0 0.56
 LZH 137.3 360 cPKP 01 48 19.0 1.6
 NJ2 138.7 340 cPKP 01 48 20.0 0.3
 LZ M_s = 5.3 20.0 0.40
 XAN 139.0 353 cPKP 01 48 17.4 -3.0
 WHN 141.4 345 PKP 01 48 22.5 -2.1
 CD2 142.5 360 cPKP 01 48 24.6 -1.9
 QZH 145.2 336 cPKP 01 48 29.0 -2.1
 GYA 146.8 355 PKP 01 48 36.0 2.0
 PP 01 52 04.3 2.2
 KMI 148.2 1 cPKP 01 48 35.0 -1.4
 GZH 148.8 342 cPKP 01 48 41.0 4.0

QZN 153.6 347 cPKP 01 48 42.1 -2.1

1987 3 19
 O=07 13 35.5 ± 0.11s
 LAT=24.10 N ± 1.81km
 LONG=122.19 E ± 1.55km
 DEPTH= 34 km ± 1.38km
 STATIONS USED = 50, STAND DEV= 2.24s
 Ms=4.3/ 21, ML=4.3/ 9,

QZH	3.4	285	P	07 14 25.0	-2.2		
			S	07 15 01.2	-5.2		
			LN			Ms=4.2	4.0 2.98
SSE	7.0	353	+P	07 15 18.5	-0.1		
			PMZ				0.8 0.070
			LN			Ms=3.8	12.0 1.04
			LZ			Ms=4.2	14.0 3.02
NJ2	8.4	340	+P	07 15 36.7	-1.8		
			S	07 17 09.6	-3.9		
			LN				2.5 1.80
			LZ			Ms=3.1	18.0 0.20
WHN	9.5	314	cP	07 15 58.5	5.9		
			LE			Ms=4.1	10.0 0.97
QZN	12.5	249	cP	07 16 31.0	-3.5		
GYA	14.2	283	P	07 16 56.6	-0.5		
XAN	15.2	314	cP	07 17 09.0	-1.0		
			LN				3.0 0.91
			LE				5.0 0.71
TIY	15.9	331	cP	07 17 21.8	2.9		
			LN			Ms=4.3	12.0 0.84
			LZ			Ms=4.3	18.0 1.20
BJI	16.7	344	P	07 17 32.0	3.6		
CD2	17.7	297	cP	07 17 42.3	1.2		
			LZ			Ms=4.7	15.0 2.20
BTO	19.4	331	cP	07 17 56.6	-4.8		
			LN			Ms=4.5	14.0 0.80
			LE				14.0 0.50
			LZ			Ms=4.4	14.0 0.80
LZH	19.8	311	cP	07 18 07.0	0.5		
			PMZ				1.5 0.050
CN2	19.8	7	cP	07 18 06.0	-0.4		
			cS	07 21 40.0	-3.0		
			LZ			Ms=4.4	18.0 0.90
MDJ	21.3	15	cP	07 18 25.0	2.9		
GTA	24.3	314	P	07 18 51.0	-0.3		
			LE			Ms=4.5	13.0 0.61

1987 3 19
 O=08 31 39.1 ± 0.15s
 LAT= 0.71 N ± 2.34km
 LONG=126.13 E ± 3.76km

DEPTH= 36 km ± 0.30km
 STATIONS USED = 46, STAND DEV= 2.26s

QZN	24.2	320	cP	08 36 56.4	2.6		
GZH	25.5	332	cP	08 37 06.0	0.2		
GYA	31.7	325	P	08 38 05.6	3.3		
CD2	36.8	327	cP	08 38 48.4	2.8		
XAN	36.9	336	cP	08 38 45.8	-0.6		
TIY	38.9	343	cP	08 39 03.6	0.0		
BJI	40.2	348	P	08 39 15.0	1.1		
SNY	41.0	357	cP	08 39 21.2	0.5		
MDJ	43.8	4	cP	08 39 43.6	-0.2		
GTA	45.4	331	cP	08 39 56.0	-0.6		
WMQ	54.9	327	P	08 41 09.0	0.2		

1987 3 19
 O=14 32 15.1 ± 0.06s
 LAT=23.61 N ± 1.35km
 LONG= 64.65 E ± 0.88km
 DEPTH= 10 km ± 0.11km
 STATIONS USED = 56, STAND DEV= 0.92s
 Ms=4.7/ 4,

KSH	18.5	29	P	14 36 34.0	0.4		
			S	14 40 02.0	5.7		
			LE			Ms=4.8	12.0 2.00
LSA	24.4	70	cP	14 37 36.8	1.0		
WMQ	27.7	38	+P	14 38 06.2	0.6		
			LZ			Ms=4.5	12.0 0.45
GTA	33.6	54	P	14 38 58.5	0.0		
			LE			Ms=4.6	12.0 0.43
KMI	34.7	80	cP	14 39 08.0	0.5		
CD2	35.4	69	cP	14 39 12.8	-0.7		
LZH	36.0	61	cP	14 39 19.0	0.4		
GYA	38.1	77	P	14 39 35.8	-0.3		
XAN	39.9	65	+P	14 39 51.2	-0.2		
TIY	43.0	59	cP	14 40 15.8	-1.1		
			LN			Ms=4.7	16.0 0.52
BJI	46.1	57	cP	14 40 42.5	0.7		
CN2	53.2	52	cP	14 41 36.0	-0.5		

1987 3 19
 O=17 14 40.8 ± 0.10s
 LAT=14.85 S ± 1.58km
 LONG=167.25 E ± 2.14km
 DEPTH=150 km ± 0.28km
 STATIONS USED = 78, STAND DEV= 1.17s
 mb=5.4/ 7

QZH	61.8	309	cP	17 24 46.2	-0.2		
SSE	63.6	316	cP	17 24 58.4	-0.1		
			PMZ				1.3 0.070
			pP	17 25 30.0	-3.5		

1987 3 19											
O = 21 27 49.4		± 0.07s				BJI		20.9 307			
LAT = 29.29 N		± 1.31km								ScS 21 42 10.0 1.9	
LONG = 138.02 E		± 1.27km								SMN m _B = 5.6 6.0 7.59	
DEPTH = 538 km		± 0.49km								eP 21 31 54.0 -1.2	
STATIONS USED = 93,		STAND DEV = 1.05s								eS 21 35 10.5 -2.7	
		m _B = 5.5 / 37								ScP 21 38 26.5 0.4	
SSE 14.7 281		cP 21 30 55.0 -0.7								ScS 21 42 08.0 -1.2	
		iS 21 33 25.0 -1.1								SMN m _B = 5.1 6.0 2.15	
DL2 16.6 310		P 21 31 14.0 -0.7				TIY 22.9 298		+P 21 32 12.6 -1.0			
		sP 21 33 15.0 -3.8						sP 21 34 36.0 -2.3			
		SMN m _B = 5.3 10.0 6.16						S 21 35 45.0 -0.1			
		SME 9.0 4.16						SMN m _B = 5.0 7.0 1.58			
MDJ 16.7 339		+iP 21 31 17.0 1.4						SME 7.0 0.49			
		PMZ m _B = 6.4 4.0 4.60						ScS 21 42 18.0 1.2			
		sP 21 33 16.0 -4.1				GZH 23.0 260		+P 21 32 14.0 -0.3			
		ScP 21 38 18.0 1.1						sP 21 34 36.0 -3.3			
		iS 21 34 07.0 4.6						S 21 35 46.0 -0.5			
		ScS 21 41 56.5 0.9						HHC 24.4 305		cP 21 32 28.3 0.6	
NJ2 16.7 284		+P 21 31 16.5 0.7								S 21 36 11.0 1.0	
		S 21 34 06.0 3.8								SMN m _B = 4.9 6.0 0.98	
		SMN m _B = 5.5 5.0 5.30						XAN 25.2 288		cP 21 32 33.8 -0.4	
		SME 4.0 2.60								S 21 36 20.0 -1.6	
		ScP 21 38 19.0 2.1								SMN m _B = 5.3 7.0 2.07	
SNY 17.1 321		+iP 21 31 21.0 1.2								SME 6.0 0.66	
		PMZ 3.0 8.49						BTO 25.5 304		+P 21 32 36.5 -0.3	
		sP 21 33 26.0 0.1								cPP 21 33 59.0 6.2	
		iS 21 34 10.5 0.5								S 21 36 25.0 -1.3	
		SMN m _B = 5.2 9.0 4.06								PcS 21 39 36.0 6.9	
		SME 8.5 3.81						QZN 27.6 255		-iP 21 32 56.4 0.9	
		ScS 21 41 58.0 1.1								sP 21 35 24.0 -1.0	
CN2 17.6 329		+iP 21 31 25.8 1.2								ScP 21 38 46.5 1.9	
		PMZ m _B = 6.4 4.0 4.70								S 21 37 02.0 2.4	
		S 21 34 20.0 2.2								SMN m _B = 5.1 6.0 0.70	
		SMN m _B = 5.4 6.0 5.70								SME 8.0 1.10	
		ScP 21 38 19.0 0.2						GYA 27.8 272		-P 21 32 55.6 -1.9	
QZH 17.8 261		-iP 21 31 25.5 -1.1								PMZ 1.4 0.64	
		S 21 34 20.0 -1.3								sP 21 35 25.0 -2.2	
		SMN m _B = 5.3 10.0 4.45								PcP 21 35 56.0 0.0	
		SME 10.0 6.35								S 21 37 02.0 -1.1	
		TIA 18.9 297		cP 21 31 37.2 0.7						SMN m _B = 5.8 6.0 4.50	
		PMZ 3.0 0.49								SME 6.0 2.00	
		sP 21 33 45.0 -3.6								ScP 21 38 48.6 3.3	
		S 21 34 40.5 1.5								ScS 21 42 39.0 1.0	
		ScP 21 38 22.8 1.4						LZH 29.4 292		cP 21 33 11.0 -0.6	
WHN 20.6 279		-P 21 31 53.0 0.7								PMZ 2.0 0.14	
		PMZ m _B = 6.1 4.0 1.73								P 21 33 13.0 0.0	
		S 21 35 08.0 0.8								PMZ 1.2 0.20	
		ScP 21 38 27.0 1.6								S 21 37 28.4 -2.6	
										SMN m _B = 5.7 6.0 3.40	
								KMI 31.6 271		-P 21 33 30.5 0.6	

			PMZ		2.0	0.89				SMN	$m_B = 6.6$	8.5	7.10
			pP	21 35 00.0	-3.0					sS	23 14 54.5	2.3	
			PP	21 35 03.0	0.6					SS	23 18 48.5	2.7	
			iS	21 38 01.5	-1.0			GZH	81.2 299	-iP	23 03 33.0	0.2	
			SMN	$m_B = 5.7$		5.0	2.35			PMZ	$m_B = 6.3$	7.0	4.27
			SME			5.0	1.26			pP	23 04 25.0	1.5	
GTA	32.9	298	+iP	21 33 40.5	-0.5					sP	23 04 48.0	2.1	
			iS	21 38 19.0	-3.8					PP	23 06 38.0	-4.3	
			ScP	21 39 03.2	1.2					S	23 13 26.5	3.9	
LSA	40.6	283	-iP	21 34 44.8	0.5					SMN	$m_B = 6.5$	10.0	4.60
			S	21 40 15.0	-0.3					SME		10.0	4.56
			SMN	$m_B = 5.7$		8.0	2.33			LN		31.0	8.66
KSH	51.3	299	+P	21 36 07.0	0.7			MDJ	81.4 324	-P	23 03 33.0	-1.0	
			ScP	21 40 19.0	4.0					PMZ	$m_B = 6.6$	6.0	6.80
			iS	21 42 51.0	5.2					pP	23 04 24.0	-0.7	
			SMN	$m_B = 6.0$		6.0	1.60			sP	23 04 46.0	-1.1	
										PP	23 06 40.0	-4.1	
										SKS	23 13 31.0	3.5	
										S	23 13 23.0	-1.9	
										SME	$m_B = 6.5$	9.0	6.90
										LZ		14.0	1.40
								QZN	82.4 293	-P	23 03 39.0	-0.1	
										PMZ	$m_B = 6.2$	7.5	3.20
										pP	23 04 33.0	3.1	
										sP	23 04 55.0	2.8	
										cSKS	23 13 34.0	-0.4	
										SME	$m_B = 6.0$	10.0	2.20
										LN		13.0	1.98
										LE		12.0	0.93
								DL2	82.9 316	-iP	23 03 41.0	-0.3	
										PMZ	$m_B = 6.3$	7.0	4.55
										pP	23 04 33.5	1.3	
										sP	23 04 59.0	4.5	
										PP	23 06 52.0	-3.3	
										iS	23 13 41.0	0.1	
										SMN	$m_B = 6.5$	7.0	3.69
										SME		8.0	4.12
								SNY	83.3 319	-iP	23 03 43.0	-0.3	
										PMZ	$m_B = 6.4$	6.5	5.08
										pP	23 04 34.0	-0.2	
										sP	23 04 57.0	0.5	
										iS	23 13 40.0	-4.9	
										SMN	$m_B = 6.4$	12.0	5.24
										SME		10.0	2.01
								CN2	83.3 322	-iP	23 03 42.5	-1.0	
										PMZ	$m_B = 6.5$	6.0	6.20
										pP	23 04 32.0	-2.3	
										sP	23 04 57.0	0.4	
										S	23 13 42.0	-1.5	
										SMN	$m_B = 6.5$	10.0	5.90

1987 3 19

O = 22 51 38.5 ± 0.12s

LAT = 20.37 S ± 1.98km

LONG = 176.09 W ± 2.05km

DEPTH = 213 km ± 0.35km

STATIONS USED = 95, STAND DEV = 0.99s

$m_B = 6.4 / 58$

QZH	77.8	302	-iP	23 03 16.0	1.3		
			PMZ	$m_B = 6.0$	7.0	2.05	
			pP	23 04 06.0	0.9		
			sP	23 04 30.0	2.5		
			PP	23 06 12.0	-2.2		
			pPP	23 06 58.0			
			iS	23 12 49.0	0.1		
			SS	23 17 51.0	-5.1		
			SMN		14.0	4.96	
			SME		14.0	3.31	
SSE	79.0	309	P	23 03 20.5	-0.4		
			PMZ		1.3	0.66	
			pP	23 04 10.0	-1.4		
			PP	23 06 22.0	-1.4		
			S	23 12 58.0	-1.4		
			SKS	23 13 12.0	1.9		
			ScS	23 13 20.0	1.0		
			sS	23 14 28.0	-1.1		
			eSS	23 18 09.0	-4.1		
			LZ		20.0	3.20	
NJ2	81.2	309	-iP	23 03 32.0	-0.6		
			PMZ	$m_B = 6.4$	7.0	5.40	
			pP	23 04 20.5	-2.8		
			sP	23 04 47.0	1.3		
			PP	23 06 39.0	-2.9		
			S	23 13 28.0	5.8		

GYA	18.8	316	P	02 02 44.8	4.9
KMI	20.9	307	cP	02 03 05.0	2.2
XAN	23.4	334	P	02 03 26.7	-0.9
CD2	23.7	320	cP	02 03 31.4	1.0
TIY	25.5	344	cP	02 03 50.6	2.8
			LN	Ms=4.5	11.0 0.38
			LE		13.0 0.42
BJI	27.0	352	cP	02 04 01.0	-0.4
LZH	27.5	329	cP	02 04 05.5	-0.6
GTA	32.1	328	P	02 04 48.4	1.4
LSA	32.2	305	cP	02 04 46.4	-1.5
WMQ	41.8	323	cP	02 06 10.0	1.5

1987 3 20

O=05 28 58.8 ± 0.05s
 LAT=36.39 N ± 1.13km
 LONG= 70.67 E ± 0.67km
 DEPTH=105 km ± 0.75km
 STATIONS USED = 25, STAND DEV= 1.12s

WMQ	15.0	55	P	05 32 26.0	-0.5
			eS	05 35 07.0	-3.2
			LN		1.0 0.040
LSA	18.4	105	+P	05 33 07.4	-1.4
GTA	23.2	74	P	05 33 58.2	1.2

1987 3 20

O=12 53 29.3 ± 0.11s
 LAT=23.47 S ± 2.68km
 LONG=174.54 W ± 1.83km
 DEPTH= 33 km ± 0.13km
 STATIONS USED = 29, STAND DEV= 1.17s

NJ2	84.2	308	cP	13 05 59.0	-0.7
MDJ	84.8	324	cP	13 06 03.0	0.5
QZN	85.0	293	cP	13 06 01.6	-1.8
CN2	86.6	321	cP	13 06 11.0	-0.4
WHN	86.8	305	cP	13 06 12.0	-0.2
GYA	90.9	298	P	13 06 33.0	1.1
TIY	91.6	311	P	13 06 36.4	1.0
XAN	92.5	306	cP	13 06 41.4	2.2

1987 3 20

O=13 03 02.2 ± 0.06s
 LAT= 7.44 N ± 1.08km
 LONG=123.93 E ± 1.76km
 DEPTH=609 km ± 0.19km
 STATIONS USED = 22, STAND DEV= 0.99s

CD2	30.0	324	cP	13 08 24.8	-0.7
BJI	33.2	349	cP	13 08 53.0	0.8
GTA	38.5	329	P	13 09 36.4	0.4
WMQ	48.1	325	P	13 10 51.0	0.4

1987 3 20

O=13 57 30.0 ± 0.08s
 LAT=18.87 N ± 1.88km
 LONG=120.89 E ± 1.71km
 DEPTH= 24 km ± 1.90km
 STATIONS USED = 43, STAND DEV= 1.92s

Ms=3.9 / 2, M_L=3.7 / 2,

QZH	6.4	341	cPn	13 59 01.0	-2.5
			Sn	14 00 12.3	-5.7
GZH	8.2	302	cP	13 59 28.0	-2.7
			cS	14 00 57.0	-6.5
QZN	10.5	273	P	13 59 58.8	-3.0
			cS	14 01 54.4	-5.0
			LN	Ms=3.9	16.0 0.80
WHN	13.1	334	cP	14 00 34.0	-2.9
GYA	15.1	302	P	14 01 05.4	0.9
XAN	18.5	327	cP	14 01 47.4	0.6
CD2	19.6	311	cP	14 02 00.3	0.6
TIY	20.2	340	-P	14 02 05.8	-0.3
			LE	Ms=4.0	13.0 0.28
BJI	21.5	350	cP	14 02 18.0	-1.4
LZH	22.8	322	cP	14 02 34.0	1.3
			PMZ		2.0 0.060
SNY	23.0	5	+P	14 02 33.8	-0.6
GTA	27.4	323	cP	14 03 15.2	-1.2

1987 3 20

O=17 12 24.8 ± 0.08s
 LAT=44.93 N ± 1.27km
 LONG= 92.44 E ± 0.94km
 DEPTH= 14 km ± 0.66km
 STATIONS USED = 13, STAND DEV= 2.67s

Ms=3.9 / 1, M_L=4.2 / 6,

WMQ	3.6	254	cPn	17 13 22.0	1.6
			Sn	17 14 05.0	0.7
			Sg	17 14 12.0	-4.9
			SMN	M _L =4.0	1.0 0.43
GTA	7.8	133	P	17 14 19.1	-1.5
			LN	Ms=3.9	6.5 0.39
			LE		7.0 0.37
GYA	21.7	143	P	17 17 18.6	0.9

1987 3 20

O=23 00 22.8 ± 0.07s
 LAT=38.34 N ± 0.94km
 LONG=114.32 E ± 0.86km
 DEPTH= 16 km ± 0.06km
 STATIONS USED = 52, STAND DEV= 2.08s
 Ms=3.9 / 9, M_L=4.2 / 18,

March, 1987



TIY	1.6	248	iPg	23 00 52.0	0.4			CD2	11.4	233	cP	23 03 14.0	5.2		
			Sg	23 01 12.8	-0.8			MDJ	13.0	56	-iP	23 03 31.5	0.8		
			SMN			4.0	14.4	GYA	13.5	211	P	23 03 36.8	0.2		
			SME			3.0	9.06				S	23 06 01.4	-5.2		
BJI	2.2	40	Pn	23 01 01.5	1.9			WMQ	20.8	294	cP	23 05 08.0	2.0		
			Pg	23 01 03.5	1.3						PMZ			1.0	0.020
			Sn	23 01 30.0	1.3			LSA	21.0	253	cP	23 05 09.0	0.0		
			Sg	23 01 34.0	1.2										
TIA	3.1	133	Pn	23 01 12.1	0.7										
			Pg	23 01 21.5	4.1										
			Sn	23 01 48.1	-1.8										
			Sg	23 01 59.4	-0.2										
			SMN		$M_L=3.8$	0.5	0.33								
			SME			0.5	0.31								
			SMZ		$M_L=4.1$	0.5	0.50								
			LN		$M_s=3.3$	8.5	0.63	KSH	8.8	340	P	04 45 10.0	-0.3		
			LE			6.0	0.44	WMQ	14.1	24	cP	04 46 19.5	-1.2		
HHC	3.3	321	Pn	23 01 18.0	3.7						LN			2.0	0.090
			Pg	23 01 25.0	4.1										
			Sn	23 01 56.0	1.1										
			Sg	23 02 06.4	0.5										
			SMN		$M_L=4.3$	0.8	0.82								
			SME			0.8	0.99								
BTO	4.0	305	Pg	23 01 34.0	-0.1										
			Sg	23 02 24.5	-4.3										
			LN			3.0	0.90								
			LE			3.0	0.70								
DL2	5.8	82	ePn	23 01 49.5	1.4			QZN	45.0	302	cF	07 22 08.7	-1.1		
			ePg	23 02 00.0	-4.4						cS	07 28 48.8	1.1		
			SMN		$M_L=4.0$	1.0	0.18	MDJ	51.3	342	cP	07 22 59.0	0.0		
			SME			0.8	0.090	XAN	53.5	318	cP	07 23 15.0	-0.7		
XAN	6.1	227	Pn	23 01 52.8	-0.4			GTA	62.6	318	P	07 24 19.2	-0.2		
			sPn	23 02 01.6	-2.2			WMQ	72.6	318	cP	07 25 22.5	-0.1		
			Pg	23 02 13.0	2.1										
			SMN		$M_L=4.5$	1.2	0.40								
			SME			1.2	0.30								
			LN		$M_s=4.1$	10.0	1.34								
			LE			10.0	1.19								
NJ2	7.3	148	cPn	23 02 10.0	0.8										
			Sn	23 03 30.4	-3.6										
			LZ		$M_s=3.8$	10.0	0.70								
WHN	7.8	180	cPn	23 02 18.0	2.1			MDJ	35.2	279	-P	10 48 22.0	-0.5		
			Sn	23 03 41.0	-5.1						pP	10 48 44.5	0.8		
			Sg	23 04 21.7	-4.8						sP	10 48 57.7	2.8		
			LN		$M_s=3.7$	12.0	0.63				PP	10 49 48.0	5.2		
SNY	7.9	61	+Pn	23 02 19.0	1.3						PcP	10 50 51.9	0.5		
LZH	8.7	258	cP	23 02 29.5	-1.4						iS	10 53 45.0	-3.5		
CN2	10.0	53	cP	23 02 48.0	-1.5						SME			13.0	4.00
GTA	11.4	280	cP	23 03 04.6	-3.5						PcS	10 54 41.0	4.0		
			LN		$M_s=4.0$	6.0	0.34				SS	10 56 03.0	-6.7		
											ScS	10 58 31.5	1.5		
											LZ			15.0	5.70

CN2	38.2	281	-iP	10 48 46.2	-1.1				SS	11 00 15.0	-3.1								
			PMZ		$m_B = 6.1$		5.0	1.80	LN				12.0	4.32					
			pP	10 49 08.0	-0.6					LE				12.0	0.76				
			PP	10 50 18.0	-0.4					LZ				12.0	2.02				
			PcP	10 51 00.0	-0.3					HHC	48.2	286	-iP	10 50 10.9	2.2				
			S	10 54 27.0	-5.6					PMZ			$m_B = 6.1$		4.0	1.10			
			SMN			$m_B = 6.2$		10.0	5.10	pP	10 50 30.0	-0.3							
			ScP	10 54 37.0	-1.1					PcP	10 51 35.0	0.8							
			sS	10 55 08.0	-2.6					ScP	10 55 21.0	2.4							
			eSS	10 57 12.0	-3.6					iS	10 57 03.2	2.9							
			ScS	10 58 44.0	-2.5					SMN			$m_B = 6.8$		10.0	9.97			
			LN					22.0	34.4	SME					10.0	7.19			
			SNY	40.4	279	+iP	10 49 06.7	0.8				ScS	10 59 49.0	0.4					
						PMZ		$m_B = 6.4$		5.0	3.35	SS	11 00 27.0	2.3					
pP	10 49 29.0	1.6								LN				15.0	8.58				
ScP	10 54 48.0	1.2								LE				15.0	4.52				
PcS	10 54 58.0	1.4								SSE	48.8	269	-iP	10 50 13.0	0.1				
iS	10 55 06.0	-1.3								PMZ					1.5	1.16			
SMN						$m_B = 6.5$		9.0	5.99	pP	10 50 35.0	0.2							
SME								10.0	7.03	PcP	10 51 37.0	0.8							
sS	10 55 44.0	-0.6								ScP	10 55 21.0	0.0							
ScS	10 59 00.0	0.4								iS	10 57 09.0	1.1							
LN								30.0	27.1	SMN					16.0	11.6			
LE								32.0	15.7	SME					16.0	24.0			
DL2	43.4	277				-iP	10 49 30.5	0.5				sS	10 57 49.0	2.8					
						PMZ				3.0	1.95	ScS	10 59 52.0	-0.3					
			PP	10 51 14.0	0.5					SS	11 00 36.0	1.9							
			S	10 55 47.0	-2.7					LE				20.0	4.04				
			SMN			$m_B = 6.5$		10.0	5.60	LZ				20.0	3.49				
			SME					10.0	6.00	BTO	49.3	287	-iP	10 50 17.0	0.1				
			sS	10 56 25.0	-3.2					PMZ			$m_B = 6.5$		5.0	2.80			
			ScS	10 59 17.0	-0.4					pP	10 50 40.0	1.3							
			LN					12.0	3.33	ePP	10 52 13.0	0.9							
			LE					12.0	3.43	iS	10 57 18.0	2.8							
			BJI	46.0	282	P	10 49 52.0	1.1				SMN			$m_B = 6.7$		9.0	7.80	
						pP	10 50 17.0	4.4				SME					9.0	6.30	
						PcP	10 51 27.0	0.9					sS	10 57 58.0	4.8				
						ScP	10 55 09.0	-0.1					SS	11 00 46.0	3.5				
eS	10 56 30.0	1.8								LN				11.0	3.00				
ScS	10 59 33.0	-0.9								LE				14.0	3.20				
TIA	47.8	277				eP	10 50 05.7	0.1				LZ				12.0	2.20		
						PMZ			$m_B = 6.4$		5.0	2.72	NJ2	49.6	272	-P	10 50 18.9	0.0	
						pP	10 50 30.0	2.7					PMZ					3.0	2.80
						PcP	10 51 33.0	0.2					pP	10 50 43.6	2.8				
						ScP	10 55 17.2	0.2					PcP	10 51 39.0	0.0				
						S	10 56 52.0	-1.5					ScP	10 55 25.0	0.8				
						SMN			$m_B = 6.8$		10.0	9.05	PcS	10 55 35.5	1.4				
						SME					10.0	8.23	iS	10 57 16.5	-2.3				
			sS	10 57 34.5	1.8					SMN			$m_B = 6.6$		5.5	4.90			
			ScS	10 59 45.4	-0.6					sS	10 57 57.0	0.0							

		ScS	10 59 57.5	0.0				sP	10 51 41.5	2.2		
		SS	11 00 42.5	-4.6				ePP	10 53 13.0	0.3		
		LZ			24.0	8.00		ScP	10 55 52.5	0.8		
TIY	49.7	282	-P	10 50 21.1	1.0			S	10 58 44.5	0.6		
		PMZ		$m_B = 6.5$	5.0	3.33		SMN		$m_B = 6.4$	12.0	7.26
		pP	10 50 43.0	1.1				ScS	11 00 42.5	0.8		
		PP	10 52 21.5	5.2				LN			30.0	6.33
		ScP	10 55 26.0	1.2				LE			30.0	5.56
		S	10 57 24.5	4.9			GTA	56.0	292	P	10 51 05.4	-1.4
		SMN		$m_B = 6.8$	9.0	8.80		pP	10 51 30.0	0.9		
		SME			8.0	6.56		ScP	10 55 50.8	-1.3		
		sS	10 58 04.0	5.0				S	10 58 45.0	0.0		
		ScS	10 59 59.0	0.6				sS	10 59 28.5	3.4		
		LN			30.0	21.7		ScS	11 00 41.5	-0.8		
		LE			31.0	9.48		LE			16.5	10.6
WHN	53.4	274	-iP	10 50 47.0	-0.6		GZH	59.4	269	-iP	10 51 31.0	0.7
		PMZ		$m_B = 6.9$	4.0	5.60		pP	10 51 54.5	1.5		
		pP	10 51 10.0	0.2				iS	10 59 34.0	3.6		
		ScP	10 55 42.0	1.4				SMN		$m_B = 6.7$	8.0	3.55
		S	10 58 08.0	-2.0				SME			10.0	10.3
		SMN		$m_B = 6.9$	9.0	7.76		sS	11 00 10.0	0.4		
		SME			7.0	8.78		LN			14.0	2.47
		sS	10 58 52.0	2.3				LE			13.0	3.07
		ScS	11 00 24.0	0.3			WMQ	59.5	303	-iP	10 51 31.0	-0.7
		LN			14.0	3.60		PMZ			13.0	2.28
XAN	54.3	281	-P	10 50 53.5	-0.8			pP	10 51 51.0	-3.3		
		PMZ		$m_B = 6.5$	4.0	2.35		PcP	10 52 16.5	-0.6		
		pP	10 51 18.0	1.6				ScP	10 56 08.0	0.2		
		sP	10 51 28.0	0.7				S	10 59 31.0	-0.6		
		PcP	10 51 51.6	-4.9				SMN			16.0	4.65
		ScP	10 55 44.6	0.1				ScS	11 01 09.5	1.1		
		S	10 58 22.5	0.5				SS	11 03 24.0	-5.7		
		SMN		$m_B = 6.3$	9.0	3.44		LN			2.0	0.090
		SME			8.0	1.63	CD2	59.6	282	+iP	10 51 30.4	-1.4
		sS	10 59 06.0	4.2				pP	10 51 55.1	0.8		
		ScS	11 00 29.0	-1.0				PP	10 53 45.1	-0.3		
QZH	54.8	266	-iP	10 50 58.0	0.1			iS	10 59 33.0	-0.1		
		PMZ		$m_B = 6.6$	4.0	2.94		sS	11 00 15.0	2.8		
		pP	10 51 19.0	-1.2				LE			15.0	4.88
		ScP	10 55 47.0	0.3				LZ			18.0	6.20
		S	10 58 25.0	-3.9			GYA	61.0	277	-P	10 51 41.0	-0.7
		iS	10 58 32.0	2.0				PMZ		$m_B = 6.7$	4.0	3.70
		sS	10 59 11.0	2.2				pP	10 52 06.0	1.7		
		ScS	11 00 36.0	2.3				sP	10 52 16.0	1.1		
		SMN		$m_B = 6.8$	12.0	7.95		PP	10 53 58.0	-0.3		
		SME			12.0	14.2		ScP	10 56 16.0	1.8		
		LN			10.0	1.35		PcS	10 56 27.0	2.9		
LZH	55.9	286	-iP	10 51 06.5	0.3			S	10 59 51.0	0.8		
		PMZ		$m_B = 6.4$	5.0	2.45		SMN		$m_B = 6.9$	8.0	9.00
		pP	10 51 31.5	3.0				SME			8.0	14.0

BJI	38.8	345	P	11 34 08.0	0.3
SNY	39.2	354	+iP	11 34 11.2	0.4
CN2	41.0	357	eP	11 34 25.0	-0.6
MDJ	41.7	1	+iP	11 34 32.0	0.4
LSA	44.5	311	P	11 34 53.8	-0.5
GTA	44.9	328	-P	11 34 57.0	-0.3
WMQ	54.6	324	P	11 36 10.0	-0.5
KSH	60.1	315	eP	11 36 49.0	0.4

1987 3 22

O=15 24 42.2 ± 0.08s
 LAT= 7.28 S ± 1.24km
 LONG=128.56 E ± 1.94km
 DEPTH=145 km ± 0.14km

STATIONS USED = 60, STAND DEV= 1.00s

QZN	32.0	325	eP	15 30 56.6	-0.6
GYA	39.7	328	P	15 32 03.4	1.1
WHN	40.0	341	-P	15 32 06.0	1.4
NJ2	40.2	347	-P	15 32 06.8	0.6
KMI	40.9	323	+P	15 32 13.0	1.1
CD2	44.8	329	eP	15 32 43.4	-0.2
XAN	45.1	337	P	15 32 41.1	-5.0
TIY	47.2	343	eP	15 33 02.2	-0.6

PMZ 0.8 0.030

BJI	48.5	347	P	15 33 12.0	-0.2
CN2	50.9	357	eP	15 33 30.0	-1.0
LSA	51.4	317	+P	15 33 34.8	-0.5
MDJ	51.7	1	eP	15 33 36.0	-0.6
GTA	53.5	332	+iP	15 33 50.9	0.2
WMQ	62.8	328	+iP	15 34 55.5	0.0
KSH	67.2	318	P	15 35 24.0	0.3

1987 3 22

O=17 35 15.1 ± 0.06s
 LAT=42.19 N ± 1.40km
 LONG=143.99 E ± 0.71km
 DEPTH= 47 km ± 0.99km

STATIONS USED = 21, STAND DEV= 0.98s

CN2	13.7	283	eP	17 38 28.0	-0.6
BJI	21.0	273	P	17 39 55.0	-2.5
GTA	33.3	280	P	17 41 51.2	0.3
LSA	43.9	271	eP	17 43 20.8	0.7

1987 3 22

O=17 45 03.8 ± 0.07s
 LAT=52.23 N ± 1.87km
 LONG=171.52 W ± 0.95km
 DEPTH= 32 km ± 0.05km

STATIONS USED = 91, STAND DEV= 0.71s

Ms=5.0/22,

MDJ	38.8	283	eP	17 52 28.0	0.0
CN2	41.8	284	+P	17 52 51.0	-1.2
			sP	17 53 03.0	-2.4
			LZ	Ms=5.1	20.0 1.50
SNY	44.0	283	+P	17 53 11.0	0.3
			eS	17 59 35.0	-5.7
			LN	Ms=5.1	22.0 1.24
			LE		24.0 1.07
			LZ	Ms=5.1	23.0 1.77
DL2	47.0	281	eP	17 53 35.0	0.7
BJI	49.6	286	eP	17 53 54.0	-0.1
			eS	18 01 00.0	1.0
			LN	Ms=4.9	24.0 0.80
			LE		24.0 0.60
			LZ	Ms=4.7	24.0 0.64
TIA	51.5	282	eP	17 54 08.6	-0.2
			S	18 01 22.0	-2.6
			LN	Ms=4.8	28.0 0.69
			LE		28.0 0.46
			LZ	Ms=4.8	28.0 0.85
HHC	51.7	290	+P	17 54 12.0	1.2
SSE	52.5	274	P	17 54 17.0	0.7
			PMZ		1.5 0.090
			pP	17 54 26.5	0.8
			eS	18 01 40.0	0.5
			LN	Ms=4.8	22.0 0.62
			LZ	Ms=4.8	22.0 0.60
BTO	52.8	290	+P	17 54 19.0	0.3
			esP	17 54 30.0	-1.8
			ePP	17 56 16.0	-2.7
			eS	18 01 41.0	-2.8
			LN	Ms=5.0	15.0 0.60
			LE		15.0 0.40
NJ2	53.3	277	+P	17 54 21.2	-0.8
			LZ	Ms=5.0	24.0 1.00
TIY	53.3	286	+iP	17 54 23.0	0.7
			S	18 01 50.0	0.9
			LN	Ms=5.2	20.0 1.24
			LE		18.0 0.63
			LZ	Ms=4.9	24.0 0.92
WHN	57.1	279	eP	17 54 49.2	-0.5
			eS	18 02 38.0	-2.8
XAN	57.9	285	P	17 54 54.9	-0.5
GTA	59.4	296	+P	17 55 04.9	-1.0
			LE	Ms=5.5	18.0 2.00
LZH	59.4	290	+iP	17 55 06.5	0.2
			PMZ		2.0 0.18
WMQ	62.6	307	P	17 55 27.5	-0.1
GZH	63.1	273	eP	17 55 33.2	2.3
CD2	63.2	286	eP	17 55 31.3	-0.2

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GYA	64.7	281	+P	17 55 41.0	-0.4
			pP	17 55 51.0	0.2
			S	18 04 21.0	4.3
KMI	68.0	283	+P	17 56 03.0	0.1
			sP	17 56 15.0	-1.1
			S	18 05 02.0	4.7
			LZ	Ms=5.2	30.0 1.40
QZN	68.3	273	eP	17 56 04.7	0.5
LSA	71.3	294	+P	17 56 23.4	0.1
KSH	71.5	311	eP	17 56 26.0	1.7

1987 3 23

O=00 01 06.5 ± 0.07s
 LAT=52.07 N ± 2.08km
 LONG=171.49 W ± 1.14km
 DEPTH= 32 km ± 0.23km
 STATIONS USED = 42, STAND DEV= 0.81s

BJI	49.6	286	eP	00 09 57.0	-0.3
XAN	57.9	285	P	00 10 58.4	-0.2
WMQ	62.7	307	P	00 11 31.0	-0.1
GYA	64.7	281	+P	00 11 44.8	0.3
LSA	71.4	294	-P	00 12 26.7	0.2

1987 3 23

O=01 05 49.5 ± 0.10s
 LAT= 2.29 N ± 2.18km
 LONG= 96.18 E ± 1.72km
 DEPTH= 33 km ± 0.63km
 STATIONS USED = 15, STAND DEV= 1.42s

GYA	26.1	22	P	01 11 23.8	1.6
LSA	27.7	351	P	01 11 37.0	-0.4
XAN	33.8	19	P	01 12 29.5	-1.1
GTA	37.1	5	P	01 12 59.0	-0.2
BJI	41.7	23	eP	01 13 38.5	1.0

1987 3 23

O=02 00 40.1 ± 0.17s
 LAT= 5.63 S ± 2.66km
 LONG=147.90 E ± 4.22km
 DEPTH= 57 km ± 0.83km
 STATIONS USED = 73, STAND DEV= 2.22s

Ms=4.9/12,

QZH	41.7	318	eP	02 08 29.0	3.9
			cS	02 14 44.0	6.9
GZH	44.2	311	P	02 08 46.5	0.7
SSE	44.6	327	eP	02 08 53.0	4.5
			PMZ		1.1 0.040
			PP	02 10 36.0	2.4
			cS	02 15 20.0	0.8
			sS	02 15 39.0	-4.3

			LN	Ms=4.9	20.0 0.90
			LZ	Ms=5.1	20.0 1.34
QZN	44.8	304	eP	02 08 50.4	0.0
			cS	02 15 23.0	0.5
			eSS	02 18 33.0	-3.1
NJ2	46.6	325	+P	02 09 09.0	4.4
			LN	Ms=4.8	20.0 0.70
WHN	48.2	320	eP	02 09 17.0	-0.4
			cS	02 16 14.0	2.7
TIA	50.6	328	eP	02 09 34.2	-1.9
			cS	02 16 46.5	1.5
			LN	Ms=4.9	13.0 0.51

GYA	51.1	311	P	02 09 44.2	4.4
SNY	52.2	337	eP	02 09 47.5	-0.2
			cS	02 17 04.0	-2.3
			LN	Ms=5.1	24.0 0.83
			LE		24.0 1.13
MDJ	52.7	344	eP	02 09 54.5	3.3
CN2	53.2	340	+P	02 10 00.0	4.6
			pP	02 10 06.0	-3.5
			LZ	Ms=4.8	20.0 0.60
KMI	53.5	307	eP	02 09 57.5	-0.1
			LZ	Ms=4.9	32.0 1.20

XAN	54.0	320	P	02 09 58.8	-2.2
BJI	54.0	330	eP	02 10 04.0	2.7
			cS	02 17 36.0	4.7
			LN	Ms=5.1	20.0 0.46
			LE		20.0 0.84
TIY	54.3	325	eP	02 10 03.5	0.0
			LN	Ms=5.2	13.0 0.32
			LE		20.0 1.08
CD2	55.7	314	eP	02 10 12.0	-1.3
BTO	57.7	326	eP	02 10 28.4	0.8
			cS	02 18 24.0	4.2
LZH	58.5	319	P	02 10 33.0	-0.7

			PMZ		1.5 0.20
GTA	63.0	320	P	02 11 02.7	-1.7
LSA	64.7	306	P	02 11 14.1	-1.7
WMQ	73.1	319	P	02 12 06.2	-0.7
			PMZ		1.5 0.040

1987 3 23

O=04 58 18.9 ± 0.10s
 LAT=31.88 N ± 1.55km
 LONG=132.04 E ± 1.65km
 DEPTH= 59 km ± 0.98km
 STATIONS USED = 77, STAND DEV= 1.96s

Ms=4.9/52,

m_B=5.5/5

SSE	9.3	268	P	05 00 31.5	-1.5
			iS	05 02 16.0	0.0



			LN		Ms = 5.0	16.0	8.88				LE		Ms = 4.8	15.0	2.40
			LE			20.0	9.02	BTO	19.7	302	cP	05 02 47.0		0.1	
DL2	11.0	312	eP	05 00 56.0	-0.3						PP	05 03 07.0		1.1	
			LN		Ms = 5.2	6.0	3.85				eS	05 06 23.0		2.2	
			LE			5.0	2.82				LN		Ms = 4.9	16.0	1.60
NJ2	11.2	274	+P	05 00 58.5	-0.4						LE			16.0	2.00
			S	05 03 05.0	2.9						LZ		Ms = 4.7	16.0	1.60
			LN		Ms = 4.8	12.0	4.30	GYA	22.8	263	P	05 03 16.8		-0.9	
			LZ		Ms = 4.6	17.0	4.10				LN		Ms = 5.0	14.0	1.00
SNY	12.0	328	+iP	05 01 09.0	-0.8						LE			14.0	2.00
			pP	05 01 18.5	-0.7			LZH	23.7	288	cP	05 03 26.0		-0.8	
			eS	05 03 25.5	3.4						PMZ			1.5	0.14
			LN		Ms = 4.8	18.0	4.70				S	05 07 38.0		4.8	
			LE			18.0	3.38				SME		m _B = 5.6	7.0	0.97
			LZ		Ms = 4.8	16.0	5.40				LN		Ms = 4.9	13.0	1.00
MDJ	12.9	352	-P	05 01 22.7	1.6						LE			13.0	1.58
CN2	13.0	338	-P	05 01 22.0	-0.8			QZN	23.7	243	cP	05 03 27.0		0.3	
			pP	05 01 29.5	-2.9						eS	05 07 35.0		1.0	
			eS	05 03 48.0	2.6						eSS	05 08 24.0		-1.2	
			LZ		Ms = 4.7	12.0	3.00				LN		Ms = 4.8	14.0	1.10
TIA	13.1	293	eP	05 01 24.4	0.0						LE			15.0	1.20
			PMZ		m _B = 5.5	6.0	0.52	CD2	24.1	275	cP	05 03 28.9		-1.9	
			sP	05 01 39.0	-2.9						eS	05 07 41.1		-0.2	
			eS	05 03 49.5	1.3						LE		Ms = 5.3	13.5	3.96
			LN		Ms = 5.0	11.0	2.75				LZ		Ms = 5.3	14.0	4.80
			LE			17.0	5.49	KMI	26.6	263	cP	05 03 54.5		0.6	
			LZ		Ms = 5.0	15.0	6.01				pP	05 04 06.0		-1.3	
QZH	13.7	243	eP	05 01 28.5	-3.6						LZ		Ms = 5.2	20.0	4.40
			LN		Ms = 4.8	16.0	2.73	GTA	27.1	295	P	05 03 57.4		-1.7	
			LE			16.0	3.20				pP	05 04 09.5		-3.1	
BJI	15.2	307	eP	05 01 53.5	1.9						eS	05 08 29.0		-2.2	
			ePP	05 02 02.0	-1.8						LE		Ms = 5.1	18.0	2.77
			SMN		m _B = 4.7	8.0	0.32				LZ		Ms = 5.3	17.0	4.08
			eSS	05 04 59.0	3.1			WMQ	36.6	302	cP	05 05 19.6		-1.9	
			LE		Ms = 4.5	22.0	2.40								
WHN	15.2	270	eP	05 01 56.0	4.4										
			pP	05 02 06.0	4.3										
			LN		Ms = 4.9	11.0	2.31								
			LE			14.0	2.96								
TIY	17.1	295	eP	05 02 17.6	1.7										
			LN		Ms = 5.0	13.0	1.11								
			LE			16.0	4.18								
			LZ		Ms = 5.0	18.0	4.63								
HHC	18.7	304	eP	05 02 35.0	-0.7			MDJ	74.9	327	cP	13 41 33.0		0.0	
			sP	05 02 50.0	-3.9			CN2	76.5	325	cP	13 41 42.0		-0.5	
			LN		Ms = 4.8	11.0	0.62				PMZ		m _B = 5.6	4.0	0.30
			LE			15.0	2.09	BJI	79.9	317	cP	13 42 01.0		0.2	
			LZ		Ms = 4.6	15.0	1.61	GYA	80.4	302	P	13 42 03.6		-0.1	
XAN	19.5	283	P	05 02 42.2	-2.2			TIY	81.1	314	cP	13 42 08.0		0.2	
			S	05 06 18.5	3.4										

1987 3 23

1987 3 23
 O = 13 29 53.0 ± 0.20s
 LAT = 17.33 S ± 3.71km
 LONG = 176.26 E ± 3.84km
 DEPTH = 33 km ± 0.31km
 STATIONS USED = 17, STAND DEV = 1.00s

m_B = 5.6 / 1

March, 1987



O = 16 32 34.5 ± 0.20s
 LAT = 34.27 N ± 1.46km
 LONG = 103.53 E ± 2.03km
 DEPTH = 12 km ± 0.75km
 STATIONS USED = 9, STAND DEV = 3.46s

$M_L = 3.7 / 4,$

LZH	1.8	8	cPn	16 33 06.5	0.0
			Pg	16 33 08.5	1.6
			Sg	16 33 32.5	0.5
			SMN	$M_L = 3.6$	1.0 0.89
			SME		1.0 0.22
XAN	4.5	91	Pn	16 33 42.7	0.0
			Pg	16 33 57.4	3.8
			Sn	16 34 37.3	0.6
			Sg	16 34 58.4	3.6
			SMN	$M_L = 3.2$	0.8 0.050
			SME		0.8 0.030
GTA	5.9	331	Pn	16 34 00.0	-2.9

1987 3 23

O = 17 09 01.2 ± 0.13s
 LAT = 0.09 N ± 1.66km
 LONG = 119.32 E ± 1.69km
 DEPTH = 64 km ± 1.47km
 STATIONS USED = 23, STAND DEV = 1.62s

CD2	34.0	336	eP	17 15 40.3	-1.3
LSA	39.8	320	P	17 16 31.0	0.1
BJI	39.9	356	P	17 16 36.0	5.4
GTA	43.0	338	P	17 16 56.6	-0.1
MDJ	45.3	10	cP	17 17 16.0	1.3
WMQ	51.9	331	+iP	17 18 06.0	0.2

1987 3 24

O = 03 49 33.6 ± 0.16s
 LAT = 11.37 N ± 1.82km
 LONG = 125.54 E ± 1.52km
 DEPTH = 69 km ± 0.30km
 STATIONS USED = 67, STAND DEV = 1.17s

$M_s = 4.5 / 16,$
 $m_B = 5.1 / 3$

GZH	16.5	317	cP	03 53 25.0	3.3
			LN	$M_s = 4.5$	13.0 1.13
			LE		11.0 0.54
QZN	16.9	299	-P	03 53 30.0	2.2
			PP	03 53 45.0	1.3
			SS	03 57 00.0	5.3
			LE	$M_s = 4.3$	16.0 1.00
SSE	20.0	349	-P	03 54 04.0	0.2
			PMZ		1.0 0.090
			cPP	03 54 22.0	-3.5
			LN	$M_s = 4.4$	20.0 1.20

			LZ	$M_s = 4.5$	20.0 1.46
NJ2	21.5	344	-P	03 54 19.8	1.3
WHN	21.7	333	P	03 54 21.5	0.6
			SME	$m_B = 5.0$	10.0 0.40
GYA	23.3	313	P	03 54 36.8	0.5
			sP	03 54 56.0	-4.4
KMI	25.6	305	cP	03 54 58.0	-0.3
TIA	25.9	344	cP	03 55 04.0	3.0
			LN	$M_s = 4.3$	13.0 0.36
XAN	27.2	329	P	03 55 11.7	-1.5
CD2	28.0	317	P	03 55 19.3	-1.4
			LZ	$M_s = 4.8$	24.0 2.07
TIY	28.7	338	cP	03 55 26.5	-0.7
			S	04 00 11.0	1.5
			LN	$M_s = 4.3$	14.0 0.37
			LZ	$M_s = 4.3$	34.0 0.86
BJI	29.7	345	cP	03 55 35.0	-0.9
SNY	30.4	357	+iP	03 55 41.5	-0.2
			S	04 00 39.0	3.5
			LN	$M_s = 4.6$	23.0 0.94
			LZ	$M_s = 4.5$	24.0 0.84
LZH	31.5	325	+iP	03 55 51.0	-0.5
			PMZ		1.5 0.070
HHC	31.8	340	+P	03 55 54.8	0.2
BTO	32.2	337	P	03 55 56.5	-1.0
CN2	32.3	360	cP	03 55 57.0	-1.6
			cS	04 01 11.0	4.5
			LZ	$M_s = 4.3$	20.0 0.40
MDJ	33.3	5	cP	03 56 07.2	-0.1
GTA	36.1	325	-iP	03 56 30.6	-0.5
			PcP	03 58 52.2	-3.3
			ScP	04 02 36.0	1.7
			LE	$M_s = 4.6$	28.0 0.91
			LZ	$M_s = 4.9$	22.0 1.36
WMQ	45.9	322	+P	03 57 52.0	0.3
KSH	51.9	312	cP	03 58 38.0	-0.3

1987 3 24

O = 07 44 28.8 ± 0.16s
 LAT = 5.39 S ± 1.20km
 LONG = 148.01 E ± 3.00km
 DEPTH = 59 km ± 0.17km
 STATIONS USED = 27, STAND DEV = 0.65s

QZN	44.7	304	cP	07 52 37.4	-1.2
GYA	51.0	310	P	07 53 28.6	0.8
XAN	53.9	320	P	07 53 47.3	-1.5
CD2	55.6	313	cP	07 54 00.9	-0.4
GTA	62.9	320	P	07 54 52.0	-0.1
LSA	64.7	306	P	07 55 04.0	0.0
WMQ	73.0	319	P	07 55 55.4	0.6

1987 3 24														
O=12 49 46.0			± 0.09s					SMN		m _B =5.6	9.0	1.61		
LAT=37.35 N			± 1.63km					SME			9.0	2.53		
LONG=138.09 E			± 1.80km					LN		M _s =5.4	10.0	2.89		
DEPTH=30 km			± 0.58km					LE			10.0	6.26		
STATIONS USED =101,			STAND DEV = 1.66s				TIY	20.3	279	+P	12 54 22.7	-0.1		
M _s =5.6/69,			m _B =5.9/25							PMZ		m _B =5.9	4.0 2.34	
MDJ	9.7	321	-P	12 52 10.0	3.4					pP	12 54 30.0	-0.8		
			LZ		M _s =5.3	12.0	18.8			PP	12 54 44.5	1.6		
CN2	11.6	308	+P	12 52 32.7	0.4					S	12 58 09.5	5.6		
			PMZ		m _B =6.3	4.0	2.70			sS	12 58 20.0	3.8		
			pP	12 52 38.0	-0.9					LN		M _s =5.5	11.0 3.14	
			eS	12 54 41.0	-0.5					LE			11.0 6.78	
			LN		M _s =5.5	16.0	27.6			LZ		M _s =5.6	19.0 15.2	
SNY	12.1	296	eP	12 52 39.0	0.2			QZH	20.7	239	+iP	12 54 25.0	-1.7	
			pP	12 52 45.5	0.0						PMZ		m _B =5.9	4.0 2.59
			S	12 54 58.0	5.1						S	12 58 10.0	-1.2	
			LN		M _s =5.4	10.0	10.4	WHN	20.8	258	+iP	12 54 28.0	0.4	
			LE			10.5	6.60				pP	12 54 34.0	-1.7	
			LZ		M _s =4.4	11.0	1.50				PP	12 54 50.0	0.5	
DL2	13.1	282	P	12 52 55.0	2.7						SME		m _B =5.9	10.0 5.00
			PMZ		m _B =5.8	4.0	0.66				LE		M _s =5.4	11.0 6.20
			S	12 55 15.0	-2.1			HHC	20.9	288	+iP	12 54 28.0	-0.3	
			LN		M _s =5.7	10.0	9.50				pP	12 54 33.0	-3.2	
			LE			10.0	18.4				sP	12 54 39.0	-1.3	
SSE	15.3	251	+P	12 53 24.0	2.3						S	12 58 18.0	4.3	
			PMZ		m _B =6.4	4.0	7.05				SMN		m _B =5.9	9.0 2.04
			pP	12 53 30.0	1.4						SME			8.0 3.66
			PP	12 53 38.4	4.6						LN		M _s =5.5	10.0 5.14
			S	12 56 14.0	3.7						LE			10.0 2.84
			sS	12 56 24.0	2.2			BTO	22.0	287	+P	12 54 39.0	-1.1	
			SS	12 56 34.0	5.8						PMZ		m _B =5.5	8.0 1.90
			PcP	12 58 25.0	-1.3						pP	12 54 46.0	-2.3	
			LN		M _s =5.5	12.0	13.0				PP	12 55 04.0	-1.5	
			LZ		M _s =5.3	18.0	13.2				S	12 58 32.0	-3.7	
NJ2	16.7	257	-P	12 53 41.5	2.3						SS	12 59 08.0	-6.9	
			LN		M _s =5.7	10.5	17.4				LN		M _s =5.6	11.0 4.90
			LZ		M _s =5.5	11.0	9.50				LE			11.0 6.90
TIA	16.8	272	+P	12 53 43.4	2.1						LZ		M _s =5.5	10.0 6.00
			PMZ		m _B =6.1	8.0	7.83	XAN	23.9	271	P	12 54 56.5	-1.7	
			esP	12 53 54.0	1.2						sP	12 55 06.0	-4.3	
			eS	12 56 48.0	1.4						S	12 59 09.0	0.3	
			SS	12 57 03.0	-3.4						sS	12 59 20.0	-3.2	
			SMN		m _B =5.9	11.0	4.50				LN		M _s =5.7	14.0 11.6
			SME			8.0	3.46				LE			15.0 5.20
			LN		M _s =5.7	11.0	15.7	GZH	25.6	243	+P	12 55 15.0	0.6	
			LE			13.0	5.25				SMN			14.0 8.78
BJI	17.3	286	+P	12 53 48.0	0.7						SME			14.0 7.72
			eS	12 57 02.0	4.6						LN		M _s =5.7	18.0 11.0

Station	Mag	Lat	Long	Type	Time	Depth	Ms	Ml	Time	Depth	Ms	Ml
LZH	27.4	278		+iP	12 55 30.0	-1.4						
				PMZ			2.5	0.47				
				PP	12 56 21.0	2.5						
				S	13 00 07.0	-0.2						
				SME			13.0	7.08				
				LN	Ms=5.7		10.0	2.04				
				LE			11.0	6.26				
GYA	28.7	257		+P	12 55 41.0	-1.9						
				pP	12 55 48.0	-3.3						
				PP	12 56 42.0	6.9						
				S	13 00 30.0	2.2						
				LN	Ms=5.8		16.0	10.0				
				LE			16.0	6.60				
CD2	29.0	267		cP	12 55 44.0	-1.9						
				pP	12 55 51.0	-3.4						
				S	13 00 28.0	-5.3						
				LN	Ms=5.8		11.0	8.05				
				LZ	Ms=5.8		11.0	8.64				
GTA	29.9	286		+P	12 55 52.0	-2.1						
				PP	12 56 51.5	0.2						
				PcP	12 58 57.0	1.2						
				S	13 00 48.0	0.4						
				SME			15.0	2.65				
				PcS	13 02 40.0	2.2						
				LN	Ms=5.7		14.0	5.91				
				LE			11.5	4.94				
QZN	30.7	241		eP	12 56 02.0	1.3						
				pP	12 56 08.5	-0.8						
				eS	13 01 05.0	4.5						
				sS	13 01 16.5	1.6						
				LN	Ms=5.7		14.0	6.00				
				LE			12.0	3.00				
KMI	32.4	258		+P	12 56 15.0	-1.0						
				pP	12 56 22.0	-2.4						
				LE	Ms=5.7		11.0	5.60				
				LZ	Ms=6.0		12.0	11.1				
WMQ	38.3	296		+P	12 57 05.1	-1.1						
				PMZ			2.5	0.30				
				pP	12 57 12.0	-2.9						
				S	13 03 00.0	2.4						
				SS	13 05 40.0	2.4						
				LN	Ms=5.9		15.0	8.92				
LSA	39.5	273		+P	12 57 16.0	-0.8						
				ipP	12 57 24.0	-1.1						
				sP	12 57 29.0	0.1						
				S	13 03 15.0	-1.1						
				sS	13 03 31.0	-0.5						
				LN	Ms=5.0		15.0	0.85				
				LE			15.0	0.74				

KSH 47.9 293 -P 12 58 25.0 1.3
 pP 12 58 32.0 -0.4
 eS 13 05 24.0 5.7
 LN Ms=6.0 11.0 6.30
 1987 3 24
 O = 13 22 24.5 ± 0.11s
 LAT = 37.41 N ± 2.02km
 LONG = 138.24 E ± 1.99km
 DEPTH = 43 km ± 0.69km
 STATIONS USED = 49, STAND DEV = 2.11s
 Ms = 4.3 / 2,
 MDJ 9.7 320 cP 13 24 42.0 -2.8
 CN2 11.6 307 cP 13 25 09.0 -1.8
 SSE 15.4 251 cP 13 26 05.6 4.5
 pP 13 26 11.0 1.6
 NJ2 16.8 257 cP 13 26 19.0 0.6
 TIA 17.0 272 +P 13 26 22.8 2.4
 BJI 17.4 285 cP 13 26 26.5 0.5
 TIY 20.4 279 P 13 27 00.3 -0.9
 LE Ms=4.4 13.0 0.69
 WHN 20.9 258 cP 13 27 03.0 -3.2
 HHC 20.9 288 cP 13 27 06.4 -0.1
 XAN 24.0 271 P 13 27 34.5 -2.0
 LZH 27.5 278 cP 13 28 06.5 -3.1
 GYA 28.8 257 P 13 28 18.4 -2.9
 CD2 29.1 267 cP 13 28 21.0 -3.2
 WMQ 38.4 296 P 13 29 43.0 -1.0
 1987 3 24
 O = 15 23 33.1 ± 0.82s
 LAT = 33.44 N ± 2.96km
 LONG = 121.31 E ± 7.28km
 DEPTH = 9 km
 STATIONS USED = 9, STAND DEV = 3.58s
 M_L = 3.5 / 12,
 SSE 2.3 182 cPn 15 24 07.5 -4.6
 Pg 15 24 12.5 -1.9
 Sg 15 24 49.5 3.1
 SMN M_L = 3.5 0.4 0.24
 SME 0.4 0.36
 NJ2 2.5 237 cPn 15 24 13.1 -1.1
 Pg 15 24 23.0 6.0
 SME M_L = 3.4 0.6 0.20
 TIA 4.4 310 cPg 15 24 54.4 3.2
 Sg 15 25 52.2 0.8
 SMN M_L = 3.9 1.0 0.18
 SME 1.2 0.20
 1987 3 24

O = 17 31 20.2 ± 0.06s
 LAT = 44.01 N ± 2.26km
 LONG = 151.28 E ± 1.54km
 DEPTH = 25 km ± 0.66km
 STATIONS USED = 52, STAND DEV = 1.28s

MDJ	15.5	280	+iP	17 34 58.5	-1.1
CN2	18.6	278	eP	17 35 36.0	-2.1
			esP	17 35 46.0	-2.6
			eS	17 38 57.0	-4.7
SNY	20.4	274	-P	17 35 57.6	-0.4
BJI	26.3	274	P	17 36 53.5	-2.2
NJ2	28.0	256	eP	17 37 12.5	0.7
TIY	29.8	271	eP	17 37 29.3	1.1
			S	17 42 19.0	-2.6
			sS	17 42 36.0	0.6
BTO	30.5	278	eP	17 37 34.2	0.3
WHN	32.0	258	eP	17 37 47.5	0.0
LZH	36.7	274	+iP	17 38 29.5	1.4
GTA	38.2	281	-P	17 38 41.0	0.8
CD2	39.4	267	eP	17 38 50.6	0.4
GYA	39.9	259	P	17 38 54.6	0.2
WMQ	44.8	293	P	17 39 35.0	0.9
LSA	49.2	274	+P	17 40 09.4	0.3

1987 3 24
 O = 21 38 10.4 ± 0.07s
 LAT = 22.09 N ± 1.36km
 LONG = 143.93 E ± 1.53km
 DEPTH = 124 km ± 0.23km
 STATIONS USED = 63, STAND DEV = 1.10s

$m_B = 5.1 / 1$					
SSE	22.2	299	+P	21 43 00.0	2.5
NJ2	24.4	299	+P	21 43 20.2	1.6
MDJ	25.4	336	eP	21 43 29.0	0.9
DL2	25.4	316	eP	21 43 28.0	-0.2
SNY	26.1	324	+iP	21 43 33.4	-1.0
CN2	26.5	329	-P	21 43 40.8	2.2
TIA	27.2	307	+P	21 43 44.4	-0.5
WHN	27.8	294	eP	21 43 46.5	-3.4
BJI	29.6	314	eP	21 44 04.0	-2.1
TIY	31.2	307	eP	21 44 20.5	-0.5
XAN	33.0	299	P	21 44 34.9	-0.8
HHC	33.1	312	-P	21 44 36.4	-0.6
BTO	34.1	311	eP	21 44 44.8	-0.5
GYA	34.2	285	P	21 44 46.6	0.3
CD2	36.8	292	eP	21 45 08.6	-0.2
LZH	37.4	301	P	21 45 14.0	0.1
			PMZ		
WMQ	50.9	309	+iP	21 47 02.1	0.9

1.0 0.060

1987 3 25
 O = 00 39 43.3 ± 0.12s
 LAT = 37.17 N ± 2.16km
 LONG = 138.22 E ± 1.95km
 DEPTH = 63 km ± 1.04km
 STATIONS USED = 41, STAND DEV = 2.40s

$M_s = 4.2 / 3, m_B = 5.0 / 1$					
MDJ	9.9	321	eP	00 42 06.5	1.1
CN2	11.8	308	eP	00 42 35.5	4.8
NJ2	16.7	258	+P	00 43 38.8	3.6
TIA	16.9	273	eP	00 43 40.2	2.3
			LN	$M_s = 4.4$	12.0 0.66
			LE		12.0 0.64
BJI	17.5	286	eP	00 43 44.0	-0.3
WHN	20.9	259	eP	00 44 23.5	1.0
BTO	22.2	288	eP	00 44 39.4	3.6
XAN	24.0	271	P	00 44 51.6	-1.7
LZH	27.5	278	eP	00 45 24.0	-2.6
GYA	28.7	257	P	00 45 36.4	-1.1

1987 3 25
 O = 05 02 50.6 ± 0.10s
 LAT = 51.69 N ± 3.09km
 LONG = 173.56 W ± 1.32km
 DEPTH = 32 km ± 0.12km
 STATIONS USED = 37, STAND DEV = 1.12s

SNY	42.9	282	-iP	05 10 49.8	1.3
BJI	48.5	285	eP	05 11 33.0	0.4
TIY	52.2	285	-P	05 12 02.2	1.0
XAN	56.8	284	P	05 12 34.0	-0.6
LZH	58.4	289	P	05 12 46.5	0.4
GTA	58.5	295	+P	05 12 45.5	-0.9
GYA	63.5	280	P	05 13 21.2	0.4
LSA	70.4	293	+P	05 14 05.0	0.6

1987 3 25
 O = 06 07 58.3 ± 0.10s
 LAT = 3.19 N ± 1.79km
 LONG = 96.23 E ± 1.30km
 DEPTH = 65 km ± 0.15km
 STATIONS USED = 46, STAND DEV = 1.14s

QZN	20.6	39	eP	06 12 35.2	0.4
GYA	25.2	22	P	06 13 20.8	0.8
LSA	26.8	350	+P	06 13 33.5	-1.6
CD2	28.5	14	eP	06 13 48.0	-1.8
XAN	32.9	20	P	06 14 28.0	-0.8
LZH	33.5	11	eP	06 14 33.5	-0.5
GTA	36.2	5	+P	06 14 56.4	-0.8
BTO	39.3	17	eP	06 15 25.3	2.5
HHC	40.0	18	eP	06 15 30.5	2.0

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KSH	40.5	336	cP	06 15 30.0	-3.1
BJI	40.9	24	cP	06 15 38.0	1.9
WMQ	41.1	351	P	06 15 39.0	0.7
CN2	48.0	28	cP	06 16 32.0	-1.2
			ScP	06 21 43.0	-4.3

1987 3 25

O=12 25 19.8 ± 0.11s
 LAT=40.65 N ± 1.23km
 LONG=122.65 E ± 0.91km
 DEPTH= 8 km ± 0.20km
 STATIONS USED = 10, STAND DEV= 2.98s

$M_L=3.1/10,$

SNY	1.4	31	iPn	12 25 42.8	-2.8
			Sg	12 26 01.0	-1.8
			SMN	$M_L=3.1$	0.3 0.28
			SME		0.3 0.25
DL2	1.9	205	Pg	12 25 54.4	0.9
			P11	12 25 56.2	1.0
			Sn	12 26 20.3	1.3
			SMN	$M_L=3.5$	0.5 0.38
			SME		0.5 0.46

1987 3 25

O=13 42 23.3 ± 0.08s
 LAT=40.77 N ± 2.34km
 LONG=142.09 E ± 1.47km
 DEPTH= 80 km ± 1.08km
 STATIONS USED = 25, STAND DEV= 1.97s

MDJ	10.0	297	cP	13 44 47.5	1.6
BJI	19.7	276	P	13 46 47.0	-2.3
WMQ	39.7	293	cP	13 49 50.5	0.3

1987 3 25

O=18 36 18.8 ± 0.10s
 LAT=29.05 N ± 0.85km
 LONG=101.12 E ± 0.92km
 DEPTH= 11 km ± 0.28km
 STATIONS USED = 15, STAND DEV= 2.45s

$M_L=3.4/7,$

CD2	2.9	50	cPn	18 37 08.6	2.6
			Pg	18 37 11.4	0.6
			Sg	18 37 48.4	-2.7
			SMN	$M_L=3.4$	0.8 0.16
			SME		1.0 0.16
KMI	4.2	159	cPn	18 37 24.5	1.5
			Pg	18 37 32.0	-0.5
			Sg	18 38 33.0	3.5
			SMN		2.0 0.20
			SME		2.0 0.20

GYA	5.5	116	Pn	18 37 42.0	0.1
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1987 3 25

O=22 14 54.4 ± 0.08s
 LAT= 2.29 N ± 0.87km
 LONG=126.55 E ± 1.32km
 DEPTH= 69 km ± 0.55km
 STATIONS USED = 27, STAND DEV= 1.15s

XAN	35.6	334	P	22 21 47.7	-0.1
BJI	38.7	347	cP	22 22 13.0	-0.9
SNY	39.4	357	cP	22 22 21.2	1.4
GTA	44.2	330	cP	22 22 58.4	-0.8
			PcP	22 24 43.2	0.8
WMQ	53.8	326	cP	22 24 12.5	-0.2

1987 3 25

O=22 58 21.2 ± 0.12s
 LAT=18.81 N ± 2.46km
 LONG=147.36 E ± 2.45km
 DEPTH= 39 km ± 0.37km
 STATIONS USED = 28, STAND DEV= 1.66s

BJI	34.2	315	cP	23 05 05.0	-0.1
HHC	37.7	313	cP	23 05 34.8	-0.2
BTO	38.6	312	P	23 05 42.8	-0.3
GTA	45.7	307	cP	23 06 40.4	-0.8
WMQ	55.4	311	P	23 07 54.5	-0.3

1987 3 26

O=01 05 16.1 ± 0.09s
 LAT=56.02 S ± 2.93km
 LONG= 27.57 W ± 3.77km
 DEPTH=107 km ± 0.70km
 STATIONS USED = 22, STAND DEV= 2.05s

GTA	141.9	93	cPKP	01 24 37.8	1.2
XAN	143.1	108	PKP	01 24 35.4	-3.0
SSE	146.8	126	cPKP	01 24 45.5	0.6
TIY	147.7	108	PKP	01 24 48.5	2.1
TIA	149.0	115	cPKP	01 24 51.7	3.3

1987 3 26

O=06 47 09.7 ± 0.24s
 LAT=21.49 S ± 3.64km
 LONG=173.68 W ± 3.16km
 DEPTH= 20 km ± 0.52km
 STATIONS USED = 64, STAND DEV= 1.20s

$M_s=5.2/6,$ $m_B=6.0/4$

SSE	81.4	308	cP	06 59 25.0	-2.8
			cSKS	07 09 35.0	-5.5
			LZ	$M_s=5.3$	22.0 0.89
NJ2	83.6	308	-P	06 59 40.0	0.9

MDJ	83.7	323	eP	06 59 40.5	1.1		
GZH	83.7	298	eP	06 59 39.1	-0.5		
			S	07 10 05.0	6.1		
CN2	85.6	321	+iP	06 59 48.4	-0.5		
			PMZ	$m_B = 6.1$	5.0	1.00	
			eS	07 10 16.0	-2.8		
			eSS	07 16 00.0	3.6		
			LZ	$M_s = 5.3$	20.0	0.70	
SNY	85.6	318	+iP	06 59 48.0	-0.9		
			S	07 10 20.0	2.8		
			SMN	$m_B = 6.0$	8.0	1.13	
WHN	86.3	305	eP	06 59 52.5	0.1		
TIA	86.9	311	eP	06 59 55.9	0.3		
			S	07 10 33.0	2.8		
			SMN	$m_B = 5.8$	7.0	0.44	
			SME		7.0	0.52	
			LE	$M_s = 5.1$	38.0	0.90	
BJI	89.5	314	eP	07 00 06.5	-1.1		
			eSKS	07 10 40.0	6.6		
			eS	07 11 00.0	4.7		
GYA	90.7	298	P	07 00 14.2	0.9		
TIY	91.0	310	eP	07 00 15.0	0.3		
			pP	07 00 23.0	1.1		
			S	07 11 07.0	-0.2		
			sS	07 11 19.5	-1.5		
			LZ	$M_s = 5.2$	26.0	0.76	
XAN	92.0	306	P	07 00 19.8	0.5		
			eSKS	07 10 55.0	6.9		
			eS	07 11 21.0	3.2		
			SMN	$m_B = 6.0$	8.0	0.61	
			SME		9.0	1.03	
HHC	93.0	313	P	07 00 24.4	0.5		
KMI	93.4	296	-P	07 00 28.0	1.9		
			eS	07 11 33.0	2.2		
BTO	93.9	312	eP	07 00 29.0	0.7		
LZH	96.6	306	eP	07 00 39.0	-1.6		
GTA	100.7	308	eP	07 00 58.5	-0.9		

1987 3 26
 O = 09 47 60.0 ± 0.07s
 LAT = 36.80 N ± 0.58km
 LONG = 111.54 E ± 0.73km
 DEPTH = 16 km ± 0.36km
 STATIONS USED = 10, STAND DEV = 2.88s

TIY	1.2	38	Pg	09 48 20.0	-0.7		
			P11	09 48 20.6	-2.0		
			Sg	09 48 36.0	-0.5		
			SMN	$M_L = 3.1$	0.6	0.37	
			SME		0.6	0.40	

XAN	3.5	219	cPn	09 48 57.0	2.9		
			Pg	09 49 04.4	2.8		
			Sg	09 49 49.0	-0.3		
			SMN	$M_L = 2.7$	0.6	0.020	
			SME		0.6	0.020	
BTO	4.0	343	cPg	09 49 10.2	-0.3		
			Sg	09 50 04.8	0.1		
HHC	4.0	0	cPg	09 49 14.0	2.3		
			Sg	09 50 02.0	-4.8		
			SMN	$M_L = 3.4$	0.6	0.070	
			SME		0.6	0.080	
GTA	9.6	289	P	09 50 18.5	-2.6		

1987 3 26
 O = 10 13 47.8 ± 0.11s
 LAT = 39.74 N ± 1.05km
 LONG = 118.46 E ± 0.93km
 DEPTH = 7 km ± 0.07km
 STATIONS USED = 10, STAND DEV = 2.60s
 $M_L = 3.1 / 12,$

BJI	1.8	280	Pg	10 14 20.0	0.7		
			Sg	10 14 44.5	0.9		
			SMN	$M_L = 3.5$	0.5	0.57	
			SME		0.5	0.31	
DL2	2.6	108	cPn	10 14 34.6	4.1		
			cSg	10 15 08.0	-1.1		
			SMN	$M_L = 2.8$	0.7	0.050	
			SME		0.7	0.040	
TIA	3.7	197	cPg	10 14 51.9	-1.0		
			cSn	10 15 25.8	-5.3		
			Sg	10 15 40.2	-2.9		
			SMN	$M_L = 2.8$	0.6	0.030	
			SME		0.6	0.020	

1987 3 26
 O = 11 56 53.5 ± 0.04s
 LAT = 41.88 N ± 1.50km
 LONG = 69.85 E ± 0.72km
 DEPTH = 17 km ± 0.25km
 STATIONS USED = 60, STAND DEV = 1.04s
 $M_s = 4.8 / 8, M_L = 5.1 / 2,$

KSH	5.3	115	cPn	11 58 14.4	2.5		
			PP	11 58 21.0	0.8		
			cSn	11 59 12.0	-2.0		
			LN		3.0	13.2	
WMQ	13.2	76	-P	12 00 04.7	0.8		
			LN		2.0	0.58	
GTA	22.8	86	P	12 01 57.2	0.0		
			eS	12 05 58.0	-3.4		
			LE	$M_s = 4.7$	13.0	1.25	

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Left Column						Right Column					
		LZ		Ms=4.9	13.0 1.62			LN		38.0 4.73	
LZH	26.9	91	cP	12 02 35.5	-1.0	NJ2	64.9	316	+iP	16 27 59.0	-0.3
XAN	31.6	91	cP	12 03 16.8	-1.1			PMZ		m _B =6.1	5.5 2.10
		LN		Ms=4.8	12.0 0.46			S		16 36 25.5	2.7
		LE			12.0 0.61			SMN		m _B =6.3	4.5 3.30
TIY	32.7	83	P	12 03 28.0	-0.1	QZN	65.2	299	+P	16 28 01.8	0.6
		S		12 08 39.5	-2.6			sP		16 29 07.0	0.9
		sS		12 08 53.0	-0.9			iS		16 36 32.0	4.3
		LZ		Ms=4.7	20.0 1.04			SMN		m _B =6.0	9.0 2.80
GYA	33.8	105	P	12 03 38.6	1.0			SME			8.0 0.90
BJI	34.7	77	cP	12 03 45.5	0.5			LN			17.0 2.40
WHN	37.3	93	cP	12 04 07.0	0.3			LE			19.0 2.90
NJ2	39.9	88	cP	12 04 29.0	0.4	WHN	67.2	312	+P	16 28 13.7	-0.3
		LZ		Ms=4.9	14.0 0.70			PMZ		m _B =6.3	5.0 3.00
CN2	40.2	68	cP	12 04 30.0	-0.9			PcP		16 28 40.0	0.2
SSE	42.1	88	P	12 04 47.0	0.2			pP		16 28 59.0	0.6
		LN		Ms=5.2	16.0 0.86			sP		16 29 19.0	-0.1
		LE			16.0 1.45			iS		16 36 52.0	0.0
MDJ	42.8	65	cP	12 04 52.4	0.2			SMN		m _B =5.8	10.0 1.80
								LE			14.0 1.40
1987 3 26						MDJ	67.3	332	+iP	16 28 14.8	-0.1
O=16 17 38.0 ± 0.09s								PMZ		m _B =6.2	5.0 2.50
LAT=13.67 S ± 1.36km								PcP		16 28 39.0	-1.4
LONG=167.20 E ± 1.79km								iS		16 36 55.0	1.3
DEPTH=192 km ± 0.28km								SMN		m _B =6.1	8.0 3.20
STATIONS USED = 99, STAND DEV = 0.83s								ScS		16 37 52.0	2.4
m _B = 6.1 / 56								sS		16 38 14.0	3.0
QZH	61.0	309	+iP	16 27 33.0	-0.7	DL2	67.4	323	+iP	16 28 14.0	-1.4
		PMZ		m _B =6.3	5.0 2.57			PMZ		m _B =6.1	6.0 2.04
		sP		16 28 39.0	0.6			pP		16 29 00.0	0.1
		iS		16 35 37.0	1.3			ePP		16 30 42.0	-5.7
		sS		16 36 58.0	6.3			S		16 36 54.0	0.5
SSE	62.7	316	-iP	16 27 44.5	-0.7	SNY	68.3	326	+iP	16 28 20.0	-0.8
		PMZ		m _B =6.1	5.0 1.75			PMZ		m _B =6.2	5.0 2.23
		pP		16 28 29.5	0.3			sP		16 29 21.0	-5.0
		PcP		16 28 22.0	0.7			iS		16 37 06.0	0.8
		sP		16 28 50.0	0.0			SMN			21.0 3.17
		ePP		16 30 06.0	-0.5			LN			22.0 1.61
		iS		16 35 58.0	0.7			LE			26.0 1.57
		SMN		m _B =5.8	8.0 1.67	TIA	68.5	318	+P	16 28 21.2	-1.0
		esS		16 37 12.0	-1.8			PMZ		m _B =6.2	5.0 2.11
		ScS		16 37 15.0	0.8			pP		16 29 07.0	0.3
		SS		16 40 03.0	-3.3			sP		16 29 25.0	-2.4
		LZ			20.0 1.46			PP		16 30 53.0	-4.7
GZH	64.1	304	+P	16 27 55.0	0.6			S		16 37 07.0	0.6
		PMZ		m _B =6.2	5.0 2.28			SMN		m _B =5.8	10.0 1.77
		iS		16 36 19.0	4.2			ScS		16 38 05.0	6.1
		SMN		m _B =6.1	8.0 2.93			sS		16 38 25.0	-0.3
		SME			8.0 1.16			LN			15.0 0.87
		sS		16 37 26.0	-5.6			LE			15.0 1.02

			pP	16 31 49.5	1.6							LZ	Ms = 5.8	22.0	2.50
			PP	16 35 08.0	-0.3					WIIN	85.7 305	cP	18 44 58.0	0.4	
			SKS	16 41 25.0	6.4							PMZ	m _B = 6.4	6.0	2.50
			S	16 42 17.0	5.3							pP	18 45 20.0	1.1	
			sS	16 43 41.0	5.0							SKS	18 55 16.0	4.5	
												LE	Ms = 5.7	20.0	2.10
1987	3	26								TIA	86.4 311	cP	18 45 00.0	-1.0	
O	=	18 32 25.5		± 0.18s								pP	18 45 23.0	0.8	
LAT	=	21.36 S		± 3.35km								S	18 55 31.0	3.6	
LONG	=	174.32 W		± 2.99km								SMN		14.0	0.59
DEPTH	=	82 km		± 0.43km								SME		14.0	1.44
STATIONS USED	=	73,	STAND DEV	=	1.29s							LN	Ms = 5.8	16.0	1.45
Ms	=	5.8 / 37,	m _B	=	6.1 / 13							LE		16.0	1.51
QZH	79.8	302	+P	18 44 28.0	0.9							LZ	Ms = 5.9	16.0	2.38
			pP	18 44 48.0	-0.1					BJI	88.9 314	cP	18 45 13.0	-0.1	
			eS	18 54 20.0	-2.4							pP	18 45 36.0	1.6	
			LN	Ms = 6.0	20.0	2.58						eS	18 55 48.0	-4.8	
			LE		20.0	3.14						SMN		20.0	1.11
SSE	80.9	308	cP	18 44 33.5	0.4							LE	Ms = 5.7	20.0	1.86
			PP	18 47 40.0	-0.1					TIY	90.4 311	P	18 45 21.2	1.0	
			S	18 54 34.0	1.4							pP	18 45 45.0	3.5	
			SKS	18 54 45.0	6.5							S	18 56 04.0	-0.7	
			SS	18 59 46.0	-4.6							SMN	m _B = 5.7	12.0	0.56
			LE	Ms = 5.7	20.0	2.31						SME		12.0	0.67
NJ2	83.1	308	+P	18 44 44.0	-0.4							SS	19 02 05.0	-5.3	
			LZ	Ms = 5.6	25.0	1.90						LN	Ms = 5.8	18.0	1.26
GZH	83.2	298	cP	18 44 45.0	0.3							LE		20.0	1.50
			eS	18 55 01.0	3.9							LZ	Ms = 5.8	27.0	3.10
			LE	Ms = 5.9	20.0	3.36				XAN	91.4 306	P	18 45 24.7	0.0	
MDJ	83.2	323	eP	18 44 45.0	-0.1							pP	18 45 45.5	-0.6	
			PMZ	m _B = 6.1	7.0	1.80						S	18 56 16.0	2.7	
			pP	18 45 07.0	0.7							LN	Ms = 5.5	12.0	0.70
			LE	Ms = 5.9	8.0	1.40				HHC	92.4 313	cP	18 45 29.6	0.1	
QZN	84.4	293	cP	18 44 48.0	-2.8							P	18 45 30.5	2.2	
			eS	18 55 08.0	-1.1					KMI	92.8 296	-P	18 45 32.5	1.1	
			LE	Ms = 5.7	19.0	1.80						pP	18 45 55.0	2.4	
DL2	84.7	315	P	18 44 53.0	0.3							eS	18 56 34.0	6.2	
			pP	18 45 16.0	2.1							LZ	Ms = 6.3	22.0	7.40
			LN	Ms = 5.7	18.0	1.76				BTO	93.4 312	P	18 45 34.0	0.2	
SNY	85.1	318	+iP	18 44 54.0	-0.5							pP	18 45 53.0	-2.2	
			PMZ	m _B = 6.1	10.0	2.16						ePP	18 49 22.0	2.0	
			pP	18 45 16.0	0.3							SKS	18 56 00.0	2.1	
			SMN		26.0	2.61						eS	18 56 34.0	1.5	
			SS	19 00 48.0	-4.7							LN	Ms = 5.9	18.0	1.00
			LN	Ms = 5.8	20.0	1.68						LE		18.0	2.20
			LE		20.0	1.72						LZ	Ms = 5.7	18.0	1.70
CN2	85.1	321	-P	18 44 54.5	0.0					CD2	94.2 301	cP	18 45 37.4	0.1	
			PMZ	m _B = 6.3	5.0	1.90						PMZ	m _B = 6.2	10.0	1.10
			pP	18 45 15.0	-0.8							eS	18 56 35.5	-3.6	
			S	18 55 18.0	3.2					LZH	96.0 306	cP	18 45 46.0	0.1	

	PMZ		2.5	0.12			
	SKS	18 56	15.0	2.7			
	eSS	19 03	34.0	4.2			
	LE		Ms=5.4	44.0	1.89		
GTA	100.2	308	eP	18 46	04.0	-0.8	
	LE		Ms=5.8	39.0	3.43		
	LZ		Ms=5.7	36.0	2.62		
KSH	118.2	304	ePKP	18 51	07.0	2.6	
	ePP	18 52	25.0	0.5			
	LN		Ms=6.5	30.0	12.0		

	LN		Ms=5.0				
	LE			11.0	2.70		
LZH	12.9	28	eP	21 12	25.0	-0.8	
QZN	13.9	112	eP	21 12	35.0	-3.0	
XAN	14.3	47	P	21 12	39.6	-4.0	
	PP			21 12	50.7	-3.9	
	LN		Ms=4.6	10.0	1.47		
GTA	14.8	11	eP	21 12	52.1	1.8	
	LE		Ms=4.6	19.0	2.44		
WHN	17.0	67	eP	21 13	21.0	3.1	
	sP			21 13	29.0	1.7	
	eS			21 16	25.0	0.0	
	LN		Ms=4.7	8.0	1.20		
TIY	18.8	43	eP	21 13	38.6	-2.1	
	LN		Ms=4.3	12.0	0.62		
BTO	19.4	33	eP	21 13	48.0	-0.3	
	eS			21 17	17.0	-4.3	
	LN		Ms=4.5	10.0	0.70		
	LE			10.0	0.40		
	LZ		Ms=4.5	10.0	0.70		
WMQ	20.1	342	P	21 13	55.9	-0.3	
NJ2	21.1	65	eP	21 14	06.0	0.4	
TIA	21.2	53	eP	21 14	07.4	0.8	
	LN		Ms=4.5	11.0	0.70		
	LE			11.0	0.29		
KSH	22.4	315	P	21 14	23.0	3.5	
	sP			21 14	32.0	2.9	
	LN		Ms=4.7	12.0	1.00		
BJI	22.5	43	eP	21 14	21.0	0.9	
SSE	22.8	69	eP	21 14	24.0	0.8	
	eS			21 18	26.0	-1.2	
	sS			21 18	38.0	0.3	
	LN		Ms=4.8	20.0	2.10		
CN2	30.4	44	eP	21 15	36.0	2.8	
MDJ	33.4	45	eP	21 16	00.5	0.8	

1987 3 26

O=18 56 20.3 ± 0.13s
 LAT= 5.27 S ± 1.83km
 LONG=133.94 E ± 2.47km
 DEPTH= 58 km ± 0.27km
 STATIONS USED = 47, STAND DEV = 1.39s
 Ms=5.2/ 7,

SSE	38.2	342	eP	19 03	37.0	0.9	
WHN	40.2	333	eP	19 03	55.0	1.6	
GYA	41.1	321	P	19 04	01.0	-0.1	
XAN	45.7	331	eP	19 04	37.4	-0.4	
TIY	47.2	337	eP	19 04	49.3	-0.5	
	LN		Ms=5.3	17.0	1.23		
	LE			16.0	1.12		
BJI	48.0	342	eP	19 04	55.0	-0.6	
CN2	49.4	352	eP	19 05	06.0	-1.0	
MDJ	49.8	356	eP	19 05	10.2	0.3	
LZH	49.9	328	eP	19 05	10.0	-0.6	
LSA	53.8	313	-P	19 05	39.8	-0.4	
GTA	54.5	328	+P	19 05	45.0	0.0	
	LN		Ms=5.2	17.0	1.18		
WMQ	64.2	324	P	19 06	52.2	0.4	

1987 3 26

O=21 09 19.7 ± 0.10s
 LAT=24.88 N ± 1.99km
 LONG= 96.28 E ± 1.26km
 DEPTH= 18 km ± 0.63km
 STATIONS USED = 62, STAND DEV = 2.05s
 Ms=4.6/ 19, M_L=4.3/ 2,

KMI	5.9	86	ePn	21 10	53.0	6.5	
			LN		Ms=4.9	8.0	10.3
LSA	6.6	318	Pn	21 11	01.2	4.1	
CD2	8.9	46	P	21 11	31.0	-0.1	
			LN		Ms=4.5	9.0	2.37
			LZ		Ms=4.3	11.0	1.97
GYA	9.5	78	P	21 11	38.4	-0.6	
			pP	21 11	43.4	-1.2	
			S	21 13	23.4	-2.6	

1987 3 27

O=11 35 48.6 ± 0.04s
 LAT=36.66 N ± 0.60km
 LONG= 70.91 E ± 0.55km
 DEPTH=237 km ± 0.34km
 STATIONS USED = 21, STAND DEV = 0.93s

KSH	4.9	54	-iP	11 37	04.5	1.1	
			iS	11 38	01.0	-0.4	
			LN			4.0	2.20
WMQ	14.7	56	-iP	11 39	07.0	0.2	
			S	11 41	48.5	5.3	
			PMZ			1.0	0.060
LSA	18.3	106	+P	11 39	48.7	0.7	

1987 3 27
 O=15 54 36.3 ± 0.14s
 LAT=21.56 N ± 1.49km
 LONG=121.11 E ± 1.98km
 DEPTH= 31 km ± 1.09km
 STATIONS USED = 37, STAND DEV = 2.09s
 Ms=3.7/ 2, M_L=3.9/ 10,

QZH	4.1	326	ePn	15 55 37.0	0.0		
			Sn	15 56 20.8	-4.5		
			SME			M _L =3.4	0.6 0.070
GZH	7.3	283	ePn	15 56 22.0	0.2		
			Sn	15 57 42.0	-4.1		
WHN	10.8	327	eP	15 57 11.5	-0.6		
QZN	10.9	259	eP	15 57 16.1	3.2		
			eS	15 59 20.2	5.7		
GYA	14.1	293	P	15 57 56.2	0.4		
TIA	15.0	347	P	15 58 09.2	1.2		
XAN	16.4	322	P	15 58 28.0	1.6		
TIY	17.8	337	P	15 58 45.4	2.4		
			LE			Ms=3.9	13.0 0.28
BJI	18.9	348	eP	15 58 56.5	-0.5		
HHC	20.9	339	eP	15 59 20.2	1.8		

1987 3 27
 O=17 10 50.8 ± 0.06s
 LAT=51.19 N ± 2.85km
 LONG=178.18 W ± 1.38km
 DEPTH= 35 km ± 0.58km
 STATIONS USED = 49, STAND DEV = 0.91s

MDJ	35.0	280	eP	17 17 41.5	-0.8		
SNY	40.2	280	+iP	17 18 26.8	0.9		
BJI	45.8	283	P	17 19 12.0	0.5		
TIA	47.6	278	P	17 19 25.7	0.2		
NJ2	49.2	272	eP	17 19 37.0	-1.1		
TIY	49.5	283	eP	17 19 41.8	1.1		
WHN	53.1	274	eP	17 20 07.0	-0.3		
XAN	54.1	281	P	17 20 14.4	-0.5		
LZH	55.8	287	+P	17 20 28.0	0.4		
			PMZ				1.5 0.050
WMQ	59.8	303	eP	17 20 54.6	-0.8		
GYA	60.7	277	P	17 21 01.6	-0.4		

1987 3 27
 O=20 01 55.9 ± 0.08s
 LAT=39.80 N ± 0.50km
 LONG= 75.25 E ± 0.11km
 DEPTH= 17 km ± 0.77km
 STATIONS USED = 5, STAND DEV = 2.63s
 M_L=4.0/ 2,

KSH	0.7	121	Pg	20 02 07.5	-0.6		
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Sg	20 02 16.5	-0.7		
SMN		M _L =3.6	0.2	2.30
SME			0.2	2.20

1987 3 27
 O=22 53 17.5 ± 0.10s
 LAT=31.81 N ± 1.62km
 LONG= 90.98 E ± 1.13km
 DEPTH= 32 km ± 0.04km
 STATIONS USED = 29, STAND DEV = 2.12s
 Ms=4.2/ 4,

GTA	10.4	41	P	22 55 46.9	-1.4		
			LN			Ms=3.8	10.0 0.43
WMQ	12.3	349	P	22 56 10.4	-2.5		
KSH	14.4	306	eP	22 56 44.0	3.0		
GYA	14.7	107	P	22 56 44.6	-0.6		
XAN	15.2	77	P	22 56 49.6	-2.5		
			LN			Ms=4.1	9.0 0.41
TIY	18.6	66	eP	22 57 31.2	-2.9		
			S	23 00 56.5	0.2		
			LN			Ms=4.3	12.0 0.56
WHN	20.0	87	eP	22 57 49.0	-1.7		
QZN	21.2	122	eP	22 58 01.0	-2.1		
BJI	21.9	61	eP	22 58 10.5	0.3		

1987 3 28
 O=04 42 08.8 ± 0.22s
 LAT=46.92 N ± 0.38km
 LONG= 83.06 E ± 1.58km
 DEPTH= 10 km ± 2.45km
 STATIONS USED = 5, STAND DEV = 1.77s
 M_L=3.2/ 5,

WMQ	4.5	132	ePn	04 43 18.5	0.8		
			Sn	04 44 11.3	-0.9		
			Sg	04 44 29.1	-1.1		
			SMN			M _L =3.1	1.0 0.030

1987 3 28
 O=05 04 09.8 ± 0.25s
 LAT=58.01 S ± 5.56km
 LONG= 25.23 W ± 6.93km
 DEPTH= 34 km ± 0.88km
 STATIONS USED = 40, STAND DEV = 3.07s

QZN	129.1	121	ePKP	05 23 17.4	1.7		
GYA	133.9	112	PKP	05 23 27.2	2.2		
XAN	141.2	108	PKP	05 23 33.4	-4.8		
NJ2	144.4	121	PKP	05 23 43.0	-0.5		
SSE	144.6	125	PKP	05 23 44.0	0.0		
TIY	145.9	108	PKP	05 23 47.5	1.3		
BTO	146.8	102	ePKP	05 23 50.0	2.2		

TIA	147.0	115	ePKP	05 23 48.5	0.4
HHC	147.8	103	ePKP	05 23 54.0	4.6
CN2	156.9	115	ePKP	05 24 02.0	-0.6
MDJ	159.5	120	ePKP	05 24 10.0	4.3

1987 3 28

O=06 33 04.6 ± 0.14s
 LAT=43.71 N ± 1.67km
 LONG=88.25 E ± 1.37km
 DEPTH=8 km ± 0.61km
 STATIONS USED = 8, STAND DEV = 4.03s
 $M_L = 3.7 / 7,$

WMQ	0.4	285	iPg	06 33 13.0	1.0
			Sg	06 33 18.0	0.4

1987 3 28

O=08 24 07.6 ± 0.05s
 LAT=29.20 N ± 0.37km
 LONG=104.77 F ± 0.49km
 DEPTH=19 km ± 0.19km
 STATIONS USED = 5, STAND DEV = 2.52s
 $M_L = 2.9 / 3,$

CD2	1.9	333	Pg	08 24 41.0	-0.7
			Sg	08 25 07.4	-0.5
			SMN	$M_L = 2.9$	0.4 0.080
			SME		0.6 0.14
GYA	3.2	148	Pn	08 24 56.6	-1.0
			Pg	08 25 08.0	3.8
			Sg	08 25 54.0	6.0
			SMN	$M_L = 3.3$	1.2 0.10

1987 3 28

O=08 48 49.5 ± 0.17s
 LAT=26.45 N ± 1.78km
 LONG=103.14 E ± 1.40km
 DEPTH=17 km ± 0.41km
 STATIONS USED = 44, STAND DEV = 2.93s
 $M_s = 4.0 / 9, M_L = 4.1 / 11,$

KMI	1.4	196	+Pn	08 49 13.5	-1.0
			Pg	08 49 15.0	1.2
			Sg	08 49 32.0	-0.6
GYA	3.2	89	Pn	08 49 41.0	2.0
			SMN	$M_L = 4.1$	1.2 0.74
			LN	$M_s = 4.4$	6.0 5.50
			LE		6.0 3.40
CD2	4.5	7	Pn	08 50 00.5	3.4
			Sn	08 50 52.8	2.0
			Sg	08 51 12.6	2.7
			SMN	$M_L = 4.1$	0.8 0.19
			SME		1.0 0.37

XAN	9.1	32	-P	08 51 01.2	-1.7
			pP	08 51 05.0	-3.5
			S	08 52 43.0	-2.2
			sS	08 52 50.0	-4.7
			LN	$M_s = 4.5$	6.0 0.97
			LE		5.0 1.05
QZN	9.6	139	eP	08 51 09.0	-1.6
			eS	08 52 59.0	-0.4
			LN	$M_s = 3.9$	8.0 0.50
WHN	10.7	65	eP	08 51 25.5	0.6
			eS	08 53 30.0	5.0
			LN	$M_s = 4.2$	5.0 0.54
TIY	13.7	33	eP	08 52 05.4	-0.5
			LN	$M_s = 4.0$	7.5 0.23
			LE		10.0 0.31
BTO	15.2	20	eP	08 52 27.0	1.2
			LN	$M_s = 4.0$	11.0 0.30
			LE		11.0 0.30
TIA	15.4	47	eP	08 52 27.6	-0.3
			LN	$M_s = 4.0$	11.0 0.35
BJI	17.4	35	P	08 52 53.0	0.0

1987 3 28

O=11 04 12.3 ± 0.09s
 LAT=30.55 N ± 1.56km
 LONG=131.61 E ± 1.61km
 DEPTH=60 km ± 1.30km
 STATIONS USED = 61, STAND DEV = 1.79s
 $M_s = 4.5 / 22,$

SSE	9.0	276	iP	11 06 21.0	-1.0
			PMZ		1.0 0.050
			pP	11 06 28.0	-0.2
			LN	$M_s = 4.6$	10.0 3.29
			LE		20.0 4.04
			LZ	$M_s = 4.5$	20.0 4.66
NJ2	11.0	281	+P	11 06 48.5	-1.3
			LE	$M_s = 4.5$	15.0 2.70
QZH	12.8	247	eP	11 07 17.3	3.5
			LN	$M_s = 4.1$	19.0 1.23
SNY	13.0	332	+P	11 07 16.0	-0.2
			LN	$M_s = 4.7$	17.0 2.80
			LE		14.0 1.69
			LZ	$M_s = 4.7$	16.0 3.52
TIA	13.4	299	eP	11 07 17.3	-3.8
			LN	$M_s = 4.4$	13.0 0.76
			LE		13.0 1.05
			LZ	$M_s = 4.6$	13.0 2.13
CN2	14.1	341	eP	11 07 31.0	0.2
			eS	11 10 04.0	-1.5
			LZ	$M_s = 4.8$	16.0 3.90

BJI	15.7	311	eP	11 07 55.0	3.0					LZ	Ms = 5.6						
			eS	11 10 44.0	0.2					TIA	13.2	299	eP	11 29 43.8	-1.4		
			LN	Ms = 4.5	12.0	0.66							cPP	11 29 56.8	1.0		
			LE		12.0	1.06							eSS	11 32 24.0	-2.4		
TIY	17.4	299	-P	11 08 14.5	1.7								LN	Ms = 5.4	14.0	3.32	
			LE	Ms = 4.3	14.0	0.73							LE		14.0	13.7	
			LZ	Ms = 4.2	18.0	0.88							LZ	Ms = 5.5	14.0	19.6	
HHC	19.2	308	eP	11 08 34.5	-0.1					CN2	14.0	342	+P	11 29 56.0	0.7		
XAN	19.5	286	+P	11 08 36.2	-1.3								PMZ	m _B = 6.1	5.0	1.60	
			eS	11 12 04.8	-3.6								sP	11 30 05.0	-4.9		
			LN	Ms = 4.9	14.0	2.36							eS	11 32 30.0	0.8		
BTO	20.2	306	eP	11 08 43.2	-1.7								LZ	Ms = 5.7	18.0	40.0	
			eS	11 12 17.0	-6.1					MDJ	14.0	354	eP	11 29 57.5	1.6		
			LN	Ms = 4.8	14.0	1.30							eS	11 32 36.0	5.6		
			LE		14.0	1.20							LZ	Ms = 4.9	9.0	3.10	
			LZ	Ms = 4.8	14.0	1.80				WHN	14.7	274	eP	11 30 08.0	2.6		
GYA	22.3	266	P	11 09 06.8	0.6								PMZ	m _B = 6.0	7.0	2.00	
LZH	23.8	291	-P	11 09 21.0	-0.1								SMN	m _B = 5.0	9.0	0.86	
CD2	23.9	278	P	11 09 22.4	0.3								LE	Ms = 5.5	14.0	14.5	
GTA	27.4	297	P	11 09 53.2	-1.6					BJI	15.6	311	eP	11 30 19.0	2.7		
WMQ	37.0	303	P	11 11 16.8	-1.5								PMZ		1.3	0.11	
													LN	Ms = 5.5	13.0	8.27	
													LE		13.0	9.27	
1987 3 28																	
O = 11 26 37.9				± 0.08s						TIY	17.2	299	-iP	11 30 39.0	1.7		
LAT = 30.65 N				± 1.37km									PMZ	m _B = 6.0	6.0	4.42	
LONG = 131.47 E				± 1.27km									pP	11 30 49.0	2.7		
DEPTH = 46 km				± 0.73km									eS	11 33 52.0	6.4		
STATIONS USED = 90,				STAND DEV = 1.56s									PcP	11 35 17.0	-1.8		
Ms = 5.5 / 62,				m _B = 5.7 / 16									LN	Ms = 5.4	18.0	7.65	
SSE	8.9	275	-P	11 28 44.5	-1.7								LE		17.0	11.2	
			PMZ	m _B = 5.7	10.0	2.24							LZ	Ms = 5.5	17.0	14.5	
			LN	Ms = 5.3	14.0	8.98				GZH	17.8	249	P	11 30 41.0	-3.5		
			LE		14.0	21.0							S	11 33 54.0	-4.0		
			LZ	Ms = 5.3	14.0	24.6							LN	Ms = 5.4	17.0	9.01	
NJ2	10.9	281	eP	11 29 13.0	-1.0								LE		20.0	9.45	
			LE	Ms = 5.5	15.0	29.0				HHC	19.1	308	+P	11 31 01.5	2.0		
			LZ	Ms = 5.5	16.0	28.9							PMZ	m _B = 5.7	8.0	2.93	
DL2	11.5	318	eP	11 29 22.0	-1.0								ScS	11 42 34.0	1.5		
			LN	Ms = 5.3	15.0	9.12							LN	Ms = 5.4	14.0	7.00	
			LE		13.0	14.1							LE		12.0	4.75	
QZH	12.7	247	P	11 29 40.0	1.0								LZ	Ms = 5.3	13.5	6.11	
			PMZ	m _B = 5.8	8.0	1.25				XAN	19.3	286	eP	11 31 01.0	-1.6		
			LN	Ms = 5.3	15.0	10.1							S	11 34 33.0	1.1		
			LE		14.0	9.36							LE	Ms = 5.9	14.0	27.4	
SNY	12.8	332	+iP	11 29 41.0	0.6					BTO	20.0	306	+P	11 31 10.0	0.0		
			PMZ	m _B = 6.0	7.5	2.02							ePP	11 31 36.0	6.7		
			S	11 32 02.9	1.2								eS	11 34 46.5	-1.1		
			SME	m _B = 5.0	9.0	1.01							SS	11 35 12.5	-3.4		
			LN	Ms = 5.5	14.0	19.5							LN	Ms = 5.8	15.0	16.5	
			LE		14.0	8.75							LE		14.0	9.30	



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GYA	22.2	265	LZ	Ms=5.7	14.0	15.6
			P	11 31 31.8	-0.1	
			sP	11 31 46.0	-1.9	
			PP	11 31 57.0	-1.2	
			S	11 35 28.0	0.9	
			LN	Ms=5.6	15.0	6.60
			LE			15.0 7.80
QZN	22.7	244	eP	11 31 35.5	-1.8	
			ePP	11 32 07.0	0.9	
			eS	11 35 42.0	3.9	
			LN	Ms=5.4	14.0	3.10
			LE			15.0 6.00
LZH	23.7	291	eP	11 31 47.5	1.0	
			PMZ			2.5 0.29
			sP	11 31 57.5	-5.0	
			eS	11 35 57.0	2.3	
			SME			13.0 2.22
			LN	Ms=5.8	13.0	6.56
			LE			13.0 10.4
CD2	23.8	278	P	11 31 45.8	-1.8	
			LN	Ms=5.7	18.0	16.4
			LZ	Ms=5.8	18.0	17.0
KMI	25.9	265	-P	11 32 09.5	1.1	
			eS	11 36 35.0	1.7	
			sS	11 36 50.0	-2.1	
			LE	Ms=5.6	15.0	7.60
			LZ	Ms=5.8	15.0	13.6
GTA	27.2	297	P	11 32 20.5	0.2	
			PP	11 33 05.0	-2.1	
WMQ	36.8	303	P	11 33 43.7	-0.2	
			LZ	Ms=5.8	16.0	7.35

1987 3 28

O=11 44 55.7 ± 0.10s

LAT=30.76 N ± 1.70km

LONG=131.65 E ± 2.06km

DEPTH=55 km ± 1.28km

STATIONS USED = 25, STAND DEV = 2.19s

MDJ	13.9	354	eP	11 48 11.5	-0.6	
BJI	15.6	311	eP	11 48 39.5	5.4	
XAN	19.5	286	+P	11 49 26.0	5.1	
BTO	20.1	305	eP	11 49 24.8	-2.9	
GYA	22.3	265	P	11 49 50.0	-0.4	
CD2	23.9	278	eP	11 50 05.8	-0.1	
GTA	27.3	297	P	11 50 36.8	-1.2	

1987 3 28

O=16 02 19.3 ± 0.13s

LAT=34.19 N ± 1.32km

LONG=103.26 E ± 1.59km

		DEPTH = 16 km ± 0.27km			
		STATIONS USED = 21, STAND DEV = 2.86s			
		Ms=3.6 / 1, ML=4.1 / 12,			
LZH	1.9	14	Pn	16 02 53.5	1.1
			Pg	16 02 55.5	1.7
			Sg	16 03 24.0	3.5
			SMN	ML=4.1	1.0 1.66
			SME		1.0 1.30
XAN	4.7	90	Pn	16 03 30.2	0.1
			Pg	16 03 42.0	-0.3
			Sn	16 04 24.4	-1.9
			Sg	16 04 42.0	-4.6
			SMN	ML=4.2	1.0 0.31
			SME		1.2 0.34
GTA	5.9	333	ePn	16 03 47.6	0.9
			LE	Ms=3.6	7.0 0.43
TIY	8.2	62	eP	16 04 20.4	-0.8
			S	16 05 57.6	3.2
			SMN	ML=4.7	1.2 0.040
			SME		1.2 0.30
GYA	8.3	158	eP	16 04 22.2	0.6
WHN	10.1	108	eP	16 04 42.6	-3.9

1987 3 28

O=20 35 04.3 ± 0.07s

LAT=21.73 N ± 0.60km

LONG=111.64 E ± 0.71km

DEPTH=3 km ± 0.31km

STATIONS USED = 5, STAND DEV = 3.11s

ML=3.1 / 3,

GZH	2.1	49	Pg	20 35 41.6	0.6
			iSn	20 36 06.0	-2.6
			SMN	ML=3.1	0.5 0.16
			SME		0.7 0.11
QZN	3.2	212	ePn	20 35 55.4	0.1
			Pg	20 36 05.4	5.2
			Sn	20 36 33.7	-2.0
			Sg	20 36 47.6	4.0
			SMN	ML=2.7	0.5 0.020
			SME		0.6 0.030

1987 3 28

O=23 27 36.2 ± 0.08s

LAT=30.51 N ± 1.43km

LONG=131.63 E ± 1.59km

DEPTH=47 km ± 0.49km

STATIONS USED = 28, STAND DEV = 1.75s

Ms=4.1 / 2,

CN2	14.2	341	eP	23 31 01.0	5.1
			sP	23 31 10.0	-0.6

LAT=51.56 N ± 3.54km
 LONG=173.25 W ± 1.35km
 DEPTH= 32 km ± 0.56km
 STATIONS USED = 33, STAND DEV= 1.61s

SNY	43.1	283	+P	01 25 22.6	3.9		
TIY	52.4	286	eP	01 26 32.0	0.7		
			S	01 33 49.0	-3.9		
XAN	57.0	285	eP	01 27 04.2	-0.4		
LZH	58.6	290	+P	01 27 16.0	-0.2		
GTA	58.7	295	+P	01 27 15.4	-1.1		
WMQ	62.1	306	P	01 27 38.5	-1.3		
CD2	62.3	286	eP	01 27 41.4	0.3		
LSA	70.6	293	+P	01 28 34.5	0.2		

1987 3 29
 O=01 30 55.2 ± 0.12s
 LAT=51.86 N ± 3.27km
 LONG=173.26 W ± 1.32km
 DEPTH= 32 km ± 0.04km
 STATIONS USED = 62, STAND DEV= 1.01s

Ms=4.7/ 3,

MDJ	37.9	282	eP	01 38 10.5	-0.8		
CN2	40.8	284	eP	01 38 34.0	-1.8		
			pP	01 38 46.0	1.0		
			LZ			0.6	0.90
SNY	43.1	282	+P	01 38 54.8	0.5		
BJI	48.6	285	eP	01 39 39.0	0.7		
TIA	50.5	281	eP	01 39 52.4	-0.3		
SSE	51.4	273	eP	01 40 02.0	2.2		
			pP	01 40 13.0	3.9		
			LZ			Ms=5.0	12.0 0.60
BTO	51.9	290	P	01 40 04.0	0.5		
NJ2	52.2	276	eP	01 40 08.0	2.3		
TIY	52.3	285	+P	01 40 07.5	0.8		
			eS	01 47 26.0	-3.2		
			sS	01 47 49.0	4.6		
			LN			Ms=4.7	12.0 0.28
WHN	56.0	278	eP	01 40 33.5	-0.3		
XAN	56.9	284	+iP	01 40 39.0	-1.2		
LZH	58.5	290	+iP	01 40 52.0	0.5		
			PMZ			1.5	0.090
GTA	58.5	295	+iP	01 40 50.8	-0.9		
WMQ	61.9	306	P	01 41 14.6	-0.1		
CD2	62.2	285	+iP	01 41 16.3	-0.3		
GYA	63.7	280	P	01 41 25.6	-0.8		
			pP	01 41 39.0	3.3		
QZN	67.2	272	eP	01 41 51.8	2.9		
LSA	70.5	293	+P	01 42 10.0	0.4		

1987 3 29

O=07 32 19.9 ± 0.05s
 LAT=40.65 N ± 0.46km
 LONG=122.89 E ± 0.41km
 DEPTH= 14 km ± 0.31km
 STATIONS USED = 8, STAND DEV= 1.38s

M_L=3.1/ 7,

SNY	1.3	24	Pg	07 32 41.4	-1.4		
			P11	07 32 42.0	-2.8		
			Sg	07 32 58.0	-2.5		
			SMN			M _L =2.8	0.4 0.17
			SME				0.4 0.15
DL2	2.0	210	Pn	07 32 54.0	0.4		
			Pg	07 32 55.2	0.1		
			Sg	07 33 20.0	-2.4		
			SMN			M _L =3.5	0.5 0.26
			SME				0.5 0.59
CN2	3.7	30	iPg	07 33 25.0	0.0		
			iSg	07 34 11.8	-3.5		
			SMN			M _L =3.2	0.6 0.070
			SME				0.6 0.050
MDJ	6.3	49	cPg	07 34 14.0	2.1		
			Sg	07 35 38.3	-0.1		
			SMN			M _L =3.6	1.0 0.040

1987 3 29
 O=09 17 34.6 ± 0.17s
 LAT=17.17 S ± 2.94km
 LONG=167.90 E ± 3.18km
 DEPTH= 22 km ± 0.45km
 STATIONS USED = 76, STAND DEV= 1.44s

Ms=5.3/ 25, m_B=5.7/ 9

QZH	63.7	310	eP	09 28 08.0	0.4		
			S	09 36 36.0	-2.5		
			SMN				16.0 0.95
			LN			Ms=5.1	40.0 1.61
SSE	65.7	317	eP	09 28 18.0	-2.4		
			S	09 37 00.0	-2.8		
			ScS	09 38 08.0	-2.2		
			LE			Ms=5.2	20.0 0.87
			LZ			Ms=5.3	18.0 1.15
GZH	66.7	305	eP	09 28 27.0	0.5		
			eS	09 37 11.0	-4.8		
QZN	67.5	300	eP	09 28 31.0	-0.6		
			pP	09 28 39.0	-0.1		
			ePP	09 31 03.5	2.4		
NJ2	67.8	316	+P	09 28 33.0	-1.0		
			LZ			Ms=5.3	21.0 1.10
WHN	70.0	312	eP	09 28 47.0	-0.5		
			pP	09 28 55.0	0.0		
			S	09 37 52.0	-2.6		

GYA	39.6	326	+P	15 06 44.0	0.2		
			pP	15 07 24.0	2.0		
			PcP	15 08 49.0	1.6		
KMI	40.9	321	+P	15 06 56.0	1.3		
TIA	43.9	345	+P	15 07 18.3	-0.7		
CD2	44.6	327	+iP	15 07 24.1	-0.7		
XAN	44.7	335	+iP	15 07 24.8	-0.7		
TIY	46.7	341	+P	15 07 40.5	-0.4		
			PMZ			0.9	0.060
BJI	47.8	346	P	15 07 49.0	-0.3		
			pP	15 08 26.0	-2.9		
SNY	48.2	354	+iP	15 07 50.2	-2.4		
LZH	48.7	332	+iP	15 07 57.0	0.2		
			PMZ			1.5	0.14
HHC	49.8	342	+P	15 08 06.0	0.9		
CN2	50.0	356	+iP	15 08 05.5	-0.8		
			pP	15 08 45.0	-1.1		
			PcP	15 09 23.5	0.2		
			ScP	15 13 02.2	2.2		
MDJ	50.6	360	+iP	15 08 11.2	0.0		
LSA	51.6	316	P	15 08 18.2	-0.8		
GTA	53.3	331	+iP	15 08 30.7	-0.4		
			pP	15 09 10.0	-1.2		
WMQ	62.7	327	+iP	15 09 37.0	0.2		

1987 3 29

O=18 01 35.9 ± 0.10s
 LAT=37.59 N ± 0.87km
 LONG=102.80 E ± 0.79km
 DEPTH= 2 km ± 0.77km
 STATIONS USED = 5, STAND DEV= 2.81s

M_L=2.6 / 4,

LZH	1.7	151	ePg	18 02 06.0	-0.5		
			Sg	18 02 29.0	-0.8		
			SMN	M _L =2.7	0.5	0.090	
			SME		0.5	0.070	
GTA	3.0	309	Pg	18 02 29.5	1.0		
			SMN	M _L =2.2	0.5	0.010	
			SME		0.5	0.010	

1987 3 29

O=20 28 31.0 ± 0.06s
 LAT=38.09 N ± 0.40km
 LONG= 95.39 E ± 0.65km
 DEPTH= 6 km ± 0.20km
 STATIONS USED = 5, STAND DEV= 3.25s

M_L=3.2 / 2,

GTA	3.7	68	Pg	20 29 37.4	0.8		
			Sg	20 30 22.0	-5.0		

1987 3 29

O=21 16 41.6 ± 0.11s
 LAT=48.03 N ± 5.00km
 LONG=155.94 E ± 2.82km
 DEPTH= 6 km ± 1.28km
 STATIONS USED = 59, STAND DEV= 2.06s
 M_s=4.4 / 4,

MDJ	18.5	269	eP	21 20 58.5	-1.8		
CN2	21.6	270	+P	21 21 30.0	-4.2		
			LZ	M _s =4.1	20.0	0.50	
SNY	23.6	267	-iP	21 21 54.8	0.3		
BJI	29.4	269	eP	21 22 51.0	2.6		
SSE	31.3	250	eP	21 23 04.5	-1.0		
			pP	21 23 15.0	4.6		
			S	21 28 07.0	-4.3		
			sS	21 28 20.0	-0.3		
			LZ	M _s =4.4	24.0	0.61	
HHC	32.1	274	+P	21 23 13.8	1.3		
NJ2	32.2	254	eP	21 23 18.5	5.5		
			LZ	M _s =4.3	14.0	0.30	
TIY	33.1	268	eP	21 23 19.3	-1.8		
			LN	M _s =4.5	17.0	0.46	
BTO	33.3	274	eP	21 23 22.5	0.0		
WHN	36.1	256	eP	21 23 48.0	1.3		
XAN	37.5	266	eP	21 23 59.2	0.4		
LZH	39.8	272	eP	21 24 17.5	0.0		
GTA	40.7	279	P	21 24 24.8	-0.1		
CD2	42.9	266	eP	21 24 40.2	-2.9		
GYA	43.9	259	P	21 24 48.6	-2.5		
WMQ	46.2	291	P	21 25 12.3	2.2		
LSA	52.1	274	P	21 25 55.0	-0.8		

1987 3 29

O=21 45 10.0 ± 0.13s
 LAT= 4.64 N ± 1.78km
 LONG=125.19 E ± 2.43km
 DEPTH= 42 km ± 0.11km
 STATIONS USED = 31, STAND DEV= 1.72s
 M_s=4.0 / 1,

QZH	21.2	343	eP	21 49 50.0	-4.0		
			LE	M _s =4.0	20.0	0.37	
GZH	21.6	329	eP	21 50 01.5	2.9		
GYA	28.0	323	eP	21 51 00.8	1.1		
XAN	32.9	335	eP	21 51 41.2	-1.9		
CD2	33.0	325	eP	21 51 43.5	-0.3		
BJI	36.2	348	eP	21 52 09.0	-1.8		
MDJ	40.0	5	eP	21 52 45.5	2.7		
LSA	40.7	312	eP	21 52 49.2	0.2		
GTA	41.5	330	eP	21 52 54.0	-1.7		
WMQ	51.1	326	eP	21 54 10.0	-1.1		

<p>1987 3 29 O=23 16 44.7 ± 0.12s LAT=27.14 N ± 1.13km LONG=100.08 E ± 1.17km DEPTH= 17 km ± 0.27km STATIONS USED = 73, STAND DEV = 1.94s Ms=4.5/24, ML=4.4/6,</p>					<p>TIA 17.1 54 cP 23 20 45.3 0.6 LN Ms=4.4 12.0 0.50 LE 12.0 0.60</p>							
KMI	3.1	129	Pn	23 17 36.5	2.5	BJI	18.5	42	cP	23 21 03.5	0.6	
			Pg	23 17 43.0	3.0				cS	23 24 24.0	-2.4	
			Sn	23 18 16.0	3.4	SSE	18.9	73	cP	23 21 07.0	0.3	
			Sg	23 18 25.0	2.2				pP	23 21 13.0	0.9	
			LZ	Ms=4.4	6.0	8.00			sP	23 21 19.5	3.6	
									LN	Ms=4.6	16.0 1.45	
CD2	4.9	40	Pn	23 18 03.0	4.1	WMQ	19.4	332	P	23 21 12.0	-1.2	
			Pg	23 18 16.8	4.7	KSH	23.5	308	cP	23 21 59.0	3.8	
			Sn	23 19 03.1	5.4	SNY	24.2	47	-iP	23 22 01.2	-0.4	
			Sg	23 19 26.0	6.2	CN2	26.4	44	cP	23 22 21.0	-1.3	
			SMN	ML=4.4	0.9	0.28	<p>1987 3 29 O=23 24 04.0 ± 0.08s LAT= 2.22 N ± 1.15km LONG=126.96 E ± 1.92km DEPTH= 68 km ± 0.09km STATIONS USED = 66, STAND DEV = 1.05s</p>					
			SME		1.2	0.77	QZN	23.7	316	cP	23 29 10.8	0.4
			LE	Ms=4.4	10.0	6.10	QZH	24.0	341	cP	23 29 19.6	6.1
			LZ	Ms=4.7	8.0	8.08	GZH	24.6	329	P	23 29 19.6	0.3
GYA	5.9	95	Pn	23 18 16.0	3.6	SSE	29.2	350	cP	23 30 01.0	-1.0	
			Sn	23 19 24.2	2.2	WHN	30.6	338	eP	23 30 14.5	0.4	
			Sg	23 19 56.0	5.6	GYA	31.0	323	P	23 30 17.4	-0.3	
			SMN	ML=4.4	1.2	0.33	KMI	32.6	316	cP	23 30 31.5	-0.5
			SME		1.2	0.29	TIA	35.0	346	cP	23 30 52.8	0.3
			LN	Ms=4.9	8.0	7.90	CD2	36.0	325	+iP	23 31 00.0	-0.8
			LE		8.0	5.30	TIY	37.8	341	cP	23 31 15.9	0.3
LSA	8.3	290	-P	23 18 47.0	-0.4	BJI	38.9	347	cP	23 31 25.5	0.5	
LZH	9.5	19	+P	23 19 06.5	2.5				pP	23 31 42.0	0.6	
			PMZ		1.0	0.050	SNY	39.5	356	+P	23 31 30.3	-0.1
			LE	Ms=4.6	7.0	2.24	LZH	39.9	330	+P	23 31 34.0	0.4
XAN	10.3	46	eP	23 19 12.6	-2.0	CN2	41.4	358	cP	23 31 45.0	-0.9	
			S	23 21 08.0	-2.0	MDJ	42.3	3	cP	23 31 52.5	-0.4	
			LN	Ms=4.6	6.0	1.05	GTA	44.5	330	+P	23 32 10.0	-1.1
			LE		7.0	1.43			PcP	23 33 54.0	0.9	
QZN	12.1	130	cP	23 19 41.4	2.0	WMQ	54.1	326	P	23 33 24.5	-0.1	
			eS	23 21 48.0	-6.8							
			LN	Ms=4.3	11.0	0.90	<p>1987 3 30 O=02 15 57.5 ± 0.08s LAT=30.39 N ± 2.61km LONG=131.82 E ± 1.89km DEPTH= 58 km ± 1.21km STATIONS USED = 30, STAND DEV = 2.30s Ms=4.2/2,</p>					
			LE		11.0	0.80	SSE	9.2	277	P	02 18 07.0	-2.9
GTA	12.2	359	cP	23 19 41.5	-0.2				PMZ		0.8 0.020	
			LE	Ms=4.4	16.0	2.01	BJI	16.0	311	cP	02 19 40.0	-0.3
WHN	13.0	71	cP	23 19 49.0	-2.3							
			LN	Ms=4.7	9.0	1.90						
TIY	14.8	42	cP	23 20 15.7	0.0							
			LN	Ms=4.4	7.5	0.68						
BTO	15.7	29	cP	23 20 26.9	-0.9							
HHC	16.6	32	-P	23 20 44.0	4.7							
			LN	Ms=4.4	10.0	0.48						
			LE		10.0	0.53						

TIY	17.6	300	eP	02 20 01.2	0.2		
			LN		Ms=4.0	20.0	0.42
			LE			20.0	0.42
XAN	19.7	287	eP	02 20 28.0	2.9		
BTO	20.4	306	eP	02 20 29.5	-3.2		
GYA	22.4	266	P	02 20 52.4	-0.8		
CD2	24.1	278	+iP	02 21 08.2	-1.2		
GTA	27.6	298	P	02 21 40.6	-1.7		

			PMZ				
CD2	69.0	312	+iP	03 24 47.5	-0.6		
GYA	72.7	308	+P	03 25 10.6	0.0		
KMI	74.8	311	+P	03 25 23.0	0.0		
			eS	03 34 55.0	-4.0		
			LZ		Ms=5.2	20.0	0.70

1987 3 30
 O=03 13 39.8 ± 0.07s
 LAT=74.63 N ± 1.39km
 LONG=130.63 W ± 1.18km
 DEPTH= 10 km ± 0.05km
 STATIONS USED = 91, STAND DEV= 0.92s
 Ms=5.1/ 12,

MDJ	50.0	293	+iP	03 22 37.5	0.2		
CN2	51.8	297	+P	03 22 49.0	-1.7		
			PMZ			3.0	0.30
			S	03 30 05.0	-5.7		
			LZ		Ms=5.0	18.0	0.90
SNY	54.1	297	+iP	03 23 06.8	-1.0		
BJI	57.5	303	+P	03 23 32.0	-0.4		
HHC	57.8	307	+P	03 23 35.6	1.4		
BTO	58.3	309	eP	03 23 38.1	0.0		
			ePP	03 25 46.0	-2.0		
			S	03 31 34.0	-3.9		
			LN		Ms=5.1	17.0	0.60
			LE			17.0	0.50
WMQ	59.1	328	+iP	03 23 43.9	0.3		
TIY	60.6	306	+P	03 23 53.4	-0.3		
			eS	03 32 03.0	-5.5		
			LN		Ms=5.1	20.0	0.69
			LE			20.0	0.42
GTA	61.5	317	+iP	03 24 03.0	3.3		
LZH	63.9	313	+iP	03 24 16.5	0.4		
			PMZ			1.5	0.14
NJ2	64.6	298	+P	03 24 18.8	-1.3		
			LZ		Ms=5.0	16.0	0.50
KSH	64.8	337	+iP	03 24 23.0	1.0		
			sP	03 24 30.0	-0.1		
			PP	03 26 47.0	1.4		
XAN	64.9	308	+iP	03 24 21.2	-1.0		
			LN		Ms=5.4	5.0	0.40
SSE	64.9	296	-iP	03 24 21.5	-0.9		
			PMZ			1.0	0.050
			sP	03 24 28.5	-2.2		
			LN		Ms=5.4	16.0	1.16
			LZ		Ms=5.2	16.0	0.86
WHN	67.0	302	+iP	03 24 35.2	-0.8		

1987 3 30
 O=09 11 05.4 ± 0.02s
 LAT=46.01 N ± 0.69km
 LONG=149.56 E ± 0.35km
 DEPTH=191 km ± 0.36km
 STATIONS USED = 13, STAND DEV= 0.54s

MDJ	14.1	272	eP	09 14 19.0	0.7		
XAN	33.0	263	+P	09 17 24.0	-0.7		
GTA	36.6	278	P	09 17 55.1	-0.6		

1987 3 30
 O=15 53 06.5 ± 0.08s
 LAT= 2.58 N ± 1.27km
 LONG=126.85 E ± 2.15km
 DEPTH= 71 km ± 0.11km
 STATIONS USED = 36, STAND DEV= 1.27s

GZH	24.2	328	eP	15 58 18.0	0.0		
KMI	32.3	316	eP	15 59 31.5	0.2		
TIY	37.4	341	eP	16 00 19.6	4.9		
BJI	38.5	347	P	16 00 24.5	0.4		
SNY	39.2	356	eP	16 00 30.0	0.5		
LZH	39.6	330	eP	16 00 32.0	-0.8		
MDJ	41.9	3	eP	16 00 52.2	0.0		
LSA	43.3	312	-P	16 01 03.9	0.1		
WMQ	53.7	325	P	16 02 24.3	0.1		

1987 3 30
 O=20 27 28.1 ± 0.27s
 LAT=20.75 S ± 7.72km
 LONG=174.10 W ± 2.73km
 DEPTH= 32 km ± 0.10km
 STATIONS USED = 43, STAND DEV= 1.01s
 Ms=4.9/ 2,

MDJ	82.9	323	eP	20 39 52.0	0.5		
QZN	84.3	293	eP	20 40 00.0	1.1		
			pP	20 40 10.0	1.6		
			eS	20 50 23.0	1.6		
CN2	84.8	321	-P	20 40 02.0	0.8		
			cpP	20 40 13.0	2.3		
			eS	20 50 28.0	2.0		
			LZ		Ms=4.9	18.0	0.30
WHN	85.6	305	eP	20 40 05.0	-0.1		
TIA	86.2	311	eP	20 40 04.5	-3.6		

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BJI	88.7	314	eP	20 40 20.0	-0.1		
TIY	90.2	311	eP	20 40 28.0	0.5		
			LN			$M_s = 4.8$	24.0 0.30
XAN	91.2	306	P	20 40 32.0	-0.2		
			eSKS	20 51 01.2	2.3		
KMI	92.7	296	-P	20 40 40.0	0.6		
			pP	20 40 52.0	3.3		
LZH	95.8	306	eP	20 40 53.0	-0.5		

			LN				
HHC	32.7	266	eP	01 24 54.5	0.4		
BTO	33.7	267	-P	01 25 03.0	-0.4		
SSE	33.8	244	eP	01 25 04.5	0.4		
TIY	34.1	261	-P	01 25 06.6	0.0		
			S	01 30 12.0	-6.0		
NJ2	34.4	248	+iP	01 25 08.6	-0.2		
WHN	38.1	251	eP	01 25 39.0	-0.7		
			PcP	01 27 50.0	-1.1		
XAN	38.7	260	-P	01 25 44.3	-0.8		
GTA	40.6	274	-iP	01 26 01.3	0.3		
			PcP	01 27 57.5	-1.7		
			SME			$m_B = 5.0$	6.0 0.22
			LE				8.0 0.30
CD2	44.0	261	-iP	01 26 27.0	-1.2		
GYA	45.6	254	P	01 26 39.6	-1.2		
KMI	48.9	257	-P	01 27 05.5	-1.1		
QZN	49.6	245	P	01 27 13.0	1.0		
LSA	52.4	271	-iP	01 27 32.2	-1.5		

1987 3 30
 O = 22 33 45.1 ± 0.09s
 LAT = 38.66 N ± 0.71km
 LONG = 116.07 E ± 0.96km
 DEPTH = 3 km ± 0.20km
 STATIONS USED = 9, STAND DEV = 3.13s

1987 3 31
 O = 06 55 50.7 ± 0.13s
 LAT = 37.17 N ± 1.05km
 LONG = 104.24 E ± 1.66km
 DEPTH = 5 km ± 0.01km
 STATIONS USED = 5, STAND DEV = 4.29s

						$M_L = 3.1 / 10,$	
BJI	1.4	3	Pg	22 34 06.0	-3.6		
			Sg	22 34 23.0	-5.5		
			SMN			$M_L = 3.3$	0.5 0.57
			SME				0.5 0.37
TIA	2.6	161	ePg	22 34 28.5	-2.3		
			Sg	22 35 10.1	4.1		
			SMN			$M_L = 2.9$	0.4 0.060
			SME				0.4 0.080
			SMZ			$M_L = 3.3$	0.4 0.11
TIY	3.0	253	ePn	22 34 36.6	2.4		
HHC	4.1	304	Pg	22 34 59.2	1.3		
			Sg	22 35 53.8	0.0		
			SMN			$M_L = 3.2$	0.8 0.040
			SME				0.8 0.060

						$M_L = 2.8 / 3,$	
LZH	1.1	196	ePg	06 56 07.5	-3.4		
			SMN			$M_L = 2.7$	0.2 0.16
GTA	4.1	304	Pg	06 57 05.0	1.1		
			SMN			$M_L = 2.8$	0.7 0.020
			SME				0.6 0.020

1987 3 31
 O = 01 18 36.3 ± 0.08s
 LAT = 53.10 N ± 2.26km
 LONG = 156.79 E ± 1.51km
 DEPTH = 177 km ± 0.30km
 STATIONS USED = 85, STAND DEV = 1.20s

1987 3 31
 O = 06 57 52.9 ± 0.15s
 LAT = 29.90 N ± 1.58km
 LONG = 102.80 E ± 1.35km
 DEPTH = 12 km ± 0.46km
 STATIONS USED = 13, STAND DEV = 4.09s

						$m_B = 5.3 / 4$	
MDJ	19.7	255	-P	01 22 55.4	1.2		
			PcP	01 27 04.0	-1.5		
			iS	01 26 16.0	-6.0		
			SME			$m_B = 5.5$	5.0 0.90
CN2	22.6	258	-iP	01 23 23.5	0.6		
			PMZ				3.0 0.70
			sP	01 24 18.0	-0.1		
			eS	01 27 07.5	-6.7		
SNY	24.9	257	-iP	01 23 45.1	0.5		
DL2	27.9	254	eP	01 24 13.0	0.7		
BJI	30.4	261	eP	01 24 34.0	-0.3		
TIA	32.4	255	eP	01 24 51.1	-0.5		

						$M_L = 3.6 / 9,$	
CD2	1.3	39	+iPn	06 58 17.2	-0.3		
			Sg	06 58 35.3	1.3		
			SMN			$M_L = 3.3$	0.4 0.57
			SME				0.4 0.47
XAN	6.6	50	ePn	06 59 28.0	-2.9		
			Pg	06 59 53.6	3.4		
			Sg	07 01 15.0	-6.0		
			SMN			$M_L = 4.1$	0.8 0.080
			SME				0.8 0.10

1987 3 31
 O=15 36 01.2 ± 0.09s
 LAT= 2.54 N ± 1.34km
 LONG=126.87 E ± 2.09km
 DEPTH= 88 km ± 0.13km
 STATIONS USED = 52, STAND DEV = 1.14s
 Ms=4.4 / 2,

QZN	23.4	316	eP	15 41 03.4	0.6		
WHN	30.3	338	eP	15 42 02.5	-3.8		
NJ2	30.3	346	+P	15 42 07.8	1.1		
			LZ	Ms=4.3	20.0	0.40	
GYA	30.7	323	P	15 42 09.0	-1.2		
KMI	32.3	316	eP	15 42 25.0	0.4		
TIA	34.7	346	eP	15 42 45.3	0.5		
XAN	35.5	334	P	15 42 50.4	-1.6		
CD2	35.7	325	eP	15 42 51.6	-1.6		
DL2	36.5	353	eP	15 43 01.4	1.3		
TIY	37.4	341	eP	15 43 08.4	0.5		
			eS	15 48 50.0	0.3		
			LZ	Ms=4.5	32.0	0.72	
BJI	38.6	347	eP	15 43 17.5	0.2		
SNY	39.2	356	eP	15 43 22.6	-0.1		
LZH	39.6	330	eP	15 43 26.0	0.0		
			PMZ		2.0	0.050	
HHC	40.6	342	eP	15 43 35.0	1.0		
BTO	40.8	340	eP	15 43 32.0	-4.2		
MDJ	42.0	3	+P	15 43 45.4	0.0		
WMQ	53.8	325	P	15 45 17.6	0.3		

1987 3 31
 O=21 07 34.7 ± 0.05s
 LAT=30.51 N ± 0.99km
 LONG=138.38 E ± 1.02km
 DEPTH=448 km ± 0.36km
 STATIONS USED = 76, STAND DEV = 0.91s
 m_B=4.8 / 2

SSE	14.8	277	eP	21 10 44.5	-0.7		
MDJ	15.7	336	+iP	21 10 54.8	0.3		
SNY	16.4	318	+P	21 11 02.8	1.1		
NJ2	16.8	280	+iP	21 11 05.3	0.1		
			ScP	21 18 21.1	1.9		
CN2	16.8	326	eP	21 11 06.0	0.7		
			esP	21 12 56.0	2.0		
			S	21 13 57.0	1.8		
			SMN	m _B =4.6	5.0	0.40	
			ScP	21 18 19.0	-0.2		
TIA	18.6	293	eP	21 11 24.3	0.6		
BJI	20.4	304	eP	21 11 40.0	-1.0		
WHN	20.7	276	P	21 11 45.0	1.5		
TIY	22.6	296	eP	21 12 02.0	0.5		

HHC	24.0	303	+P	21 12 14.8	0.5		
BTO	25.1	301	eP	21 12 24.0	0.1		
XAN	25.1	286	+P	21 12 24.0	-0.1		
GYA	28.1	270	-P	21 12 50.4	-0.4		
			S	21 17 00.6	-2.4		
QZN	28.2	253	P	21 12 53.0	1.3		
LZH	29.3	290	eP	21 13 00.5	-0.6		
			PMZ			1.5	0.070
CD2	29.7	280	-iP	21 13 04.0	-0.5		
KMI	31.9	269	-P	21 13 23.5	0.0		
GTA	32.6	296	-P	21 13 29.4	-0.3		
			PMZ			1.0	0.030
			S	21 18 10.4	-2.6		
LSA	40.6	281	+P	21 14 37.0	0.7		
WMQ	41.9	303	+P	21 14 46.8	0.7		
			PMZ			1.3	0.030
			PcP	21 16 32.1	0.3		
			ScP	21 19 37.6	-0.3		
			S	21 20 31.6	0.8		