



August, 1986

GYA	62.0	278	P	19 56 55.6	1.4
KMI	65.4	280	eP	19 57 15.5	-1.1
KSH	70.0	308	eP	19 57 46.0	0.5

1986 8 1

O=20 24 59.3 ± 0.18s  
 LAT=51.05 N ± 1.79km  
 LONG=176.09 W ± 1.38km  
 DEPTH= 44 km ± 1.69km  
 STATIONS USED = 54, STAND DEV = 1.18s

CN2	39.3	283	eP	20 32 25.2	-0.8
SNY	41.5	282	eP	20 32 43.4	-1.0
BJI	47.1	284	eP	20 33 29.5	0.1
TIA	48.9	279	eP	20 33 43.1	-0.3
HHC	49.4	288	P	20 33 48.2	0.7
SSE	49.7	271	eP	20 33 49.5	0.0
BTO	50.5	289	-iP	20 33 56.0	0.2
NJ2	50.5	274	eP	20 33 55.0	-0.9
TIY	50.8	284	P	20 33 58.5	0.2
			PMZ		1.1 0.050
			ScP	20 39 04.0	-0.7
			S	20 41 12.0	3.3
XAN	55.4	283	-P	20 34 31.2	-0.9
LZH	57.1	288	eP	20 34 44.0	-0.5
GTA	57.3	294	+P	20 34 44.0	-1.6
CD2	60.7	284	eP	20 35 09.2	-0.2
WMQ	60.9	305	P	20 35 10.0	-1.0
GYA	62.1	278	P	20 35 20.4	1.9
KMI	65.5	280	+P	20 35 40.5	-0.4

1986 8 1

O=21 05 38.5 ± 0.07s  
 LAT=51.33 N ± 3.29km  
 LONG=174.33 W ± 1.52km  
 DEPTH= 34 km ± 0.95km  
 STATIONS USED = 82, STAND DEV = 1.53s

Ms=5.2/15, mb=5.6/2

MDJ	37.3	282	eP	21 12 48.0	-1.9
			PP	21 14 15.0	-2.6
			eS	21 18 43.0	7.7
CN2	40.3	284	+P	21 13 14.0	-0.6
			eS	21 19 17.0	-3.0
			LN	Ms=5.3	19.0 2.70
SNY	42.5	282	+iP	21 13 34.1	1.1
			PMZ	mb=5.9	4.0 0.72
			S	21 19 50.0	-2.2
			LN	Ms=5.2	20.0 1.64
			LE		20.0 0.96
DL2	45.5	280	eP	21 13 58.0	1.3
BJI	48.1	285	eP	21 14 18.0	0.5

			eS	21 21 13.0	-0.2
			LN	Ms=5.2	20.0 1.65
TIA	49.9	280	eP	21 14 32.0	0.3
			eS	21 21 44.0	5.2
			LE	Ms=5.3	18.0 1.54
HHC	50.4	289	-P	21 14 37.4	2.3
SSE	50.8	273	eP	21 14 37.5	-0.7
			pP	21 14 46.0	-1.7
			eS	21 21 52.0	1.4
			sS	21 22 08.0	1.4
			LN	Ms=5.0	16.0 0.58
			LE		16.0 0.57
BTO	51.5	289	eP	21 14 44.0	0.8
			ePP	21 16 41.0	0.6
			eS	21 22 00.0	0.1
			LN	Ms=5.2	18.0 0.60
			LE		17.0 1.10
NJ2	51.6	275	+P	21 14 44.0	-0.3
TIY	51.8	285	+P	21 14 46.8	0.7
			PMZ		1.0 0.070
			S	21 22 02.0	-1.9
			LE	Ms=5.1	17.0 1.07
WHN	55.5	277	eP	21 15 13.0	0.3
XAN	56.4	284	+P	21 15 19.2	-0.4
LZH	58.1	289	eP	21 15 31.5	0.0
GTA	58.2	295	+iP	21 15 30.7	-1.5
			LE	Ms=5.1	16.0 0.83
GZH	61.4	272	eP	21 15 54.0	-0.1
WMQ	61.7	305	P	21 15 55.3	-1.0
			PMZ		1.5 0.050
			eS	21 24 10.0	-5.4
			LN	Ms=5.5	21.0 2.03
CD2	61.7	285	eP	21 15 56.6	0.2
GYA	63.1	279	P	21 16 05.6	-0.2
			S	21 24 38.0	6.3
KMI	66.5	281	eP	21 16 28.0	0.2
KSH	70.8	309	eP	21 16 56.0	1.7

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O=21 41 23.3 ± 0.18s  
 LAT=51.75 N ± 4.33km  
 LONG=174.39 W ± 2.05km  
 DEPTH= 32 km ± 0.09km  
 STATIONS USED = 29, STAND DEV = 1.46s

MDJ	37.2	282	eP	21 48 32.5	-1.5
CN2	40.2	283	eP	21 48 58.0	-0.6
SNY	42.4	282	-iP	21 49 18.0	0.9
BJI	48.0	285	eP	21 50 01.5	0.0
TIA	49.8	280	eP	21 50 15.4	-0.5
TIY	51.7	285	eP	21 50 30.2	0.1

XAN	56.3	284	-P	21 51 02.8	-0.9
LZH	57.9	289	eP	21 51 15.5	0.1
GTA	58.0	294	P	21 51 14.9	-0.9
CD2	61.6	285	eP	21 51 40.6	0.1
GYA	63.0	279	P	21 52 04.0	14.7
KSH	70.5	309	eP	21 52 36.0	-1.6

1986 8 1

O=21 48 40.0 ± 0.24s  
 LAT=51.37 N ± 4.10km  
 LONG=174.26 W ± 1.70km  
 DEPTH= 35 km ± 2.44km

STATIONS USED = 32, STAND DEV = 1.60s

CN2	40.3	284	eP	21 56 15.4	-0.9
SNY	42.6	282	eP	21 56 34.5	-0.2
BJI	48.1	285	eP	21 57 19.0	-0.1
TIA	50.0	280	eP	21 57 33.0	-0.3
SSE	50.8	273	eP	21 57 40.8	1.0
TIY	51.9	285	P	21 57 48.9	1.2
			PPMZ		0.8 0.030
XAN	56.4	284	eP	21 58 19.8	-1.4
GTA	58.2	295	P	21 58 31.5	-2.2
CD2	61.7	285	eP	21 58 57.4	-0.6
GYA	63.1	279	P	21 59 12.6	5.2
KMI	66.5	281	eP	21 59 30.5	1.1

1986 8 1

O=23 47 20.1 ± 0.06s  
 LAT= 4.71 S ± 1.54km  
 LONG=101.88 E ± 1.93km  
 DEPTH= 32 km ± 0.40km

STATIONS USED = 58, STAND DEV = 0.90s

Ms=4.8/ 5,

KMI	29.7	2	+P	23 53 26.5	0.9
			eS	23 58 17.0	-1.4
			LN		Ms=4.8 13.0 0.90
GYA	31.3	8	P	23 53 40.2	-0.1
CD2	35.5	3	eP	23 54 15.4	-0.6
WHN	37.0	18	eP	23 54 30.0	0.9
XAN	39.1	9	+iP	23 54 46.2	-0.4
LZH	40.6	2	-P	23 55 00.5	1.2
TIA	43.1	18	eP	23 55 19.5	-0.3
TIY	43.3	12	+P	23 55 21.9	0.5
			PMZ		1.0 0.030
			eS	24 01 44.4	-2.5
			LE		Ms=5.1 14.0 0.97
GTA	43.9	358	+iP	23 55 26.2	-0.2
			PcP	23 57 12.3	0.5
			LE		Ms=4.6 14.0 0.37
BTO	45.7	9	eP	23 55 40.8	0.3

HHC	46.2	10	+P	23 55 45.6	1.2
BJI	46.4	15	eP	23 55 46.0	-0.1
WMQ	50.0	347	+iP	23 56 14.0	0.2
			PMZ		1.8 0.19
			S	24 03 23.0	2.9
			SMN		2.0 0.020
KSH	50.0	334	eP	23 56 14.5	0.3
			eS	24 03 21.0	-1.2
CN2	52.8	21	+iP	23 56 33.4	-1.3
MDJ	55.0	24	eP	23 56 49.5	-2.0

1986 8 2

O=06 37 06.5 ± 0.13s  
 LAT=51.19 N ± 1.05km  
 LONG=175.97 W ± 0.99km  
 DEPTH= 47 km ± 1.18km

STATIONS USED = 16, STAND DEV = 1.49s

BJI	47.2	284	eP	06 45 36.5	-0.1
TIY	50.9	284	eP	06 46 05.4	-0.1
XAN	55.4	283	eP	06 46 37.0	-2.3
GTA	57.3	294	P	06 46 50.6	-2.0
GYA	62.1	278	eP	06 47 27.4	1.7

1986 8 2

O=11 18 51.8 ± 0.29s  
 LAT=18.18 S ± 1.76km  
 LONG=167.95 E ± 2.04km  
 DEPTH= 34 km ± 1.41km

STATIONS USED = 26, STAND DEV = 1.96s

MDJ	71.6	332	-P	11 30 12.9	0.5
SNY	72.4	327	eP	11 30 16.1	-1.2
GYA	74.2	305	eP	11 30 23.2	-4.7
BJI	75.3	321	eP	11 30 35.0	0.7
KMI	76.7	302	eP	11 30 43.5	1.3
BTO	79.4	319	eP	11 31 02.0	4.7
GTA	85.5	314	P	11 31 29.4	0.8

1986 8 2

O=12 42 11.7 ± 0.15s  
 LAT=28.23 S ± 5.30km  
 LONG=177.39 W ± 6.11km  
 DEPTH= 39 km ± 1.57km

STATIONS USED = 36, STAND DEV = 3.08s

Ms=5.3/ 7,

QZH	81.2	304	eP	12 54 27.0	1.4
			LE		Ms=5.3 22.0 0.90
SSE	83.1	311	P	12 54 28.0	-7.5
			LN		Ms=5.5 28.0 1.39
			LE		28.0 1.29
GZH	84.0	300	+P	12 54 41.0	0.8



TIY 51.6 285 -P 20 07 21.6 0.6  
GTA 58.0 294 P 20 08 05.2 -2.1

1986 8 2

O=20 35 36.9 ± 0.18s  
LAT=58.41 S ± 5.24km  
LONG= 15.18 W ± 5.88km  
DEPTH= 9 km ± 0.36km

STATIONS USED = 27, STAND DEV = 3.77s

GTA 135.2 86 eP 20 54 45.6 -11.6  
XAN 136.0 98 eP 20 54 51.4 -8.4  
DL2 146.2 106 eP 20 55 17.5 -0.4  
SNY 149.4 105 +P 20 55 27.5 4.4  
CN2 151.8 104 (P) 20 55 31.0 4.2

1986 8 3

O=01 33 19.9 ± 0.19s  
LAT=37.17 N ± 3.74km  
LONG= 37.08 E ± 2.64km  
DEPTH= 11 km ± 0.35km

STATIONS USED = 49, STAND DEV = 2.11s

KSH 30.4 74 eP 01 39 42.0 6.6  
WMQ 38.6 64 P 01 40 45.2 0.2  
GTA 48.4 67 eP 01 42 04.0 -0.7  
LZH 52.5 70 eP 01 42 38.5 2.2  
CD2 54.6 76 eP 01 42 54.0 2.7  
BTO 55.4 62 eP 01 42 57.0 0.1  
HHC 56.4 61 +P 01 43 05.3 1.2  
KMI 56.5 82 eP 01 43 03.0 -2.0  
XAN 57.2 70 eP 01 43 08.0 -2.0  
GYA 58.9 79 eP 01 43 20.6 -1.5  
BJI 59.9 61 eP 01 43 27.5 -1.3  
TIA 62.3 64 eP 01 43 42.3 -2.5  
WHN 62.9 71 eP 01 43 51.5 2.6  
CN2 64.4 53 eP 01 44 00.4 1.1  
NJ2 65.5 67 +P 01 44 05.0 -1.0  
SSE 67.7 67 eP 01 44 16.0 -4.0

1986 8 3

O=02 39 27.3 ± 0.08s  
LAT=51.44 N ± 1.90km  
LONG=174.19 W ± 0.81km  
DEPTH= 31 km ± 0.86km

STATIONS USED = 34, STAND DEV = 0.92s

MDJ 37.4 282 eP 02 46 39.0 -0.6  
CN2 40.4 284 eP 02 47 04.0 -0.2  
(S) 02 53 12.0 1.7  
SNY 42.6 282 -iP 02 47 23.4 0.8  
BJI 48.2 285 eP 02 48 08.0 1.0  
TIA 50.0 280 eP 02 48 21.0 -0.3

TIY 51.9 285 P 02 48 37.0 1.4  
S 02 56 01.5 7.4  
XAN 56.5 284 eP 02 49 08.8 -0.4  
LZH 58.1 289 eP 02 49 21.0 0.0  
GYA 63.2 279 P 02 49 56.4 1.1  
KSH 70.8 310 eP 02 50 21.0 -21.4

1986 8 3

O=13 29 09.4 ± 0.09s  
LAT=51.08 N ± 1.86km  
LONG=176.76 W ± 1.17km  
DEPTH= 37 km ± 0.99km

STATIONS USED = 94, STAND DEV = 0.96s

Ms=5.8 / 41, m<sub>B</sub>=6.0 / 26

MDJ 35.9 281 +P 13 36 07.3 -1.0  
sP 13 36 20.3 -2.3  
PP 13 37 32.0 2.4  
PcP 13 38 29.0 -5.6  
S 13 41 52.0 9.8  
SME 25.0 4.72  
LE Ms=5.3 30.0 4.70  
CN2 38.9 282 +iP 13 36 33.5 0.2  
PMZ m<sub>B</sub>=6.0 6.0 1.50  
pP 13 36 44.0 0.6  
PP 13 38 08.0 1.6  
PPMZ 8.0 1.10  
eS 13 42 29.0 0.3  
eSS 13 45 11.0 -0.8  
SNY 41.1 281 +iP 13 36 52.4 0.7  
PMZ m<sub>B</sub>=6.3 5.0 2.31  
pP 13 37 01.5 -0.3  
PP 13 38 26.5 -3.3  
PPMZ 18.0 1.18  
PcS 13 42 42.0 1.5  
S 13 43 05.7 4.7  
SMN m<sub>B</sub>=5.6 8.0 0.63  
SME 7.0 0.57  
sS 13 43 19.0 0.1  
LN Ms=5.8 20.0 6.19  
LE 22.0 4.74  
DL2 44.0 279 +P 13 37 15.3 -0.2  
eS 13 43 41.0 -3.6  
LN Ms=5.5 15.0 3.09  
BJI 46.7 284 +P 13 37 37.0 0.1  
ePP 13 39 28.0 1.9  
eS 13 44 28.0 4.8  
SMN m<sub>B</sub>=5.8 8.0 1.06  
SME 11.0 0.83  
esS 13 44 44.0 3.8  
eScS 13 47 28.0 2.9

			LN	Ms=5.4	8.0	1.06			sS	13 45 37.5	4.7	
			LE		11.0	0.83			LN	Ms=5.8	19.0	4.25
TIA	48.5	279	+P	13 37 51.4	0.5				LE		16.0	3.39
			PP	13 39 45.0	2.5		WHN	54.0	276	+P	13 38 31.5	-0.8
			S	13 44 51.0	3.6				PMZ		1.0	0.070
			SMN	m <sub>B</sub> =6.0	8.0	0.80			pP	13 38 40.0	-2.7	
			SME		8.0	1.37			S	13 46 05.0	2.2	
			LE	Ms=5.8	15.0	4.42			SME	m <sub>B</sub> =5.8	6.0	0.81
HHC	49.0	287	+iP	13 37 56.7	1.6				LN	Ms=5.8	20.0	4.83
			pP	13 38 07.0	1.9		XAN	55.0	283	+P	13 38 39.0	-0.9
			PP	13 39 51.0	3.1				sP	13 38 53.0	-1.4	
			S	13 44 59.5	4.7				PP	13 40 38.0	-5.5	
			SMN	m <sub>B</sub> =6.0	6.0	1.10			S	13 46 23.0	6.5	
			SME		7.0	1.00			ScS	13 48 22.0	0.5	
			LN	Ms=6.0	16.0	7.49			SS	13 50 08.0	8.3	
			LE		16.0	2.70			LN	Ms=6.0	16.0	4.57
SSE	49.3	271	+iP	13 37 57.5	0.4				LE		17.0	3.94
			PMZ	m <sub>B</sub> =6.4	4.0	1.86	QZH	55.2	267	+iP	13 38 41.5	0.1
			sP	13 38 12.0	0.5				pP	13 38 52.0	0.2	
			ePP	13 39 46.0	-4.6				iS	13 46 26.0	5.3	
			eS	13 44 56.0	-3.6				SME	m <sub>B</sub> =5.9	6.0	0.94
			SMN	m <sub>B</sub> =5.9	12.0	1.58			LN	Ms=5.5	18.0	2.56
			SME		12.0	1.46	LZH	56.7	288	+iP	13 38 53.5	1.1
			sS	13 45 11.0	-5.8				eS	13 46 43.0	2.0	
			ScS	13 47 44.0	2.0				sS	13 46 59.0	1.2	
			eSS	13 48 24.0	-2.2				LN	Ms=6.0	16.0	6.50
			LN	Ms=5.7	18.0	3.41	GTA	56.9	293	+iP	13 38 53.0	-0.6
			LE		18.0	3.05			pP	13 39 00.0	-3.7	
BTO	50.1	288	+iP	13 38 04.6	1.2				S	13 46 44.5	2.9	
			PMZ	m <sub>B</sub> =6.6	4.0	3.30			sS	13 46 59.0	-1.1	
			pP	13 38 14.0	0.5				SS	13 50 32.0	0.8	
			PP	13 40 02.5	3.9				LN	Ms=6.0	20.0	8.40
			S	13 45 17.0	7.2		GZH	59.9	270	+P	13 39 14.6	0.4
			SMN	m <sub>B</sub> =6.2	6.0	1.60			PMZ	m <sub>B</sub> =6.2	5.0	1.47
			SME		6.0	0.80			S	13 47 28.0	7.4	
			sS	13 45 32.5	4.4				LN	Ms=5.8	15.0	2.77
			eSS	13 48 45.0	5.2				LE		15.0	2.22
			LN	Ms=6.1	16.0	7.70	CD2	60.3	283	P	13 39 17.0	-0.3
			LE		17.0	6.70			LN	Ms=5.9	20.0	5.60
NJ2	50.1	274	+iP	13 38 03.4	0.0		WMQ	60.6	304	+iP	13 39 18.0	-1.3
			sP	13 38 17.0	-0.9				PMZ		1.8	0.13
			PP	13 40 01.0	2.2				PcP	13 40 02.5	0.2	
			S	13 45 14.0	3.9				PcS	13 44 05.0	1.6	
			SS	13 48 44.0	3.8				S	13 47 30.0	0.1	
			LE	Ms=5.4	17.0	2.10			LN	Ms=6.2	21.0	10.6
TIY	50.4	284	+iP	13 38 06.5	0.6		GYA	61.6	278	+P	13 39 26.0	-0.5
			PMZ		1.0	0.10			pP	13 39 38.0	1.3	
			pP	13 38 15.0	-1.0				PcP	13 40 07.0	0.5	
			PP	13 40 03.5	1.8				S	13 47 48.0	4.7	
			S	13 45 14.5	0.0				sS	13 48 04.0	2.1	

	LN		Ms = 6.0	18.0	4.20
	LE			18.0	4.30
KMI	65.0	280	+iP	13 39 49.0	0.0
	PMZ		m <sub>B</sub> = 6.1	5.0	1.30
	pP			13 39 57.0	-2.3
	PP			13 42 16.0	2.9
	s			13 48 31.0	5.2
	SMN		m <sub>B</sub> = 5.5	10.0	0.60
	sS			13 48 46.0	1.5
	SS			13 52 47.0	7.0
	LN		Ms = 5.9	16.0	4.20
KSH	69.7	308	+P	13 40 18.4	-0.1
	sP			13 40 33.0	-0.1
	PcP			13 40 41.0	0.9
	eS			13 49 24.0	0.0

1986 8 3  
 O = 13 44 55.0 ± 0.22s  
 LAT = 51.03 N ± 2.16km  
 LONG = 176.58 W ± 1.49km  
 DEPTH = 42 km ± 2.05km  
 STATIONS USED = 44, STAND DEV = 1.63s  
 Ms = 5.4 / 2,

MDJ	36.0	281	eP	13 51 53.5	-0.9
CN2	39.0	283	eP	13 52 19.4	0.1
SNY	41.2	281	eP	13 52 37.3	-0.5
BJI	46.8	284	eP	13 53 22.0	-0.9
TIY	50.5	284	eP	13 53 51.0	-0.9
	S			14 01 04.0	3.4
	LE		Ms = 5.7	13.0	3.26
XAN	55.1	283	eP	13 54 23.4	-2.4
GTA	57.0	293	P	13 54 37.8	-1.7
CD2	60.4	284	P	13 55 03.2	0.0
WMQ	60.7	304	P	13 55 02.2	-3.0
GYA	61.7	278	eP	13 55 12.0	-0.3
KSH	69.9	308	eP	13 56 08.0	3.7

1986 8 3  
 O = 20 08 19.7 ± 0.12s  
 LAT = 51.02 N ± 1.65km  
 LONG = 176.71 W ± 1.07km  
 DEPTH = 38 km ± 1.11km  
 STATIONS USED = 49, STAND DEV = 1.09s  
 Ms = 5.1 / 8,

MDJ	35.9	281	eP	20 15 19.0	0.1
			eS	20 21 00.0	6.0
			LE		
			Ms = 4.8	20.0	0.97
CN2	38.9	283	eP	20 15 44.4	0.5
SNY	41.1	281	+P	20 16 03.0	0.7
			S	20 22 14.5	2.7

	LN		Ms = 4.9	20.0	1.03
	LE			22.0	0.62
BJI	46.7	284	eP	20 16 48.0	0.5
	eS			20 23 37.0	3.0
TIA	48.5	279	eP	20 17 01.1	-0.3
HHC	49.1	287	+P	20 17 06.5	0.8
SSE	49.3	271	eP	20 17 04.0	-3.5
	eS			20 24 06.0	-4.3
BTO	50.1	288	P	20 17 15.2	1.2
	eS			20 24 23.0	1.0
	LN		Ms = 5.2	16.0	0.90
	LE			17.0	1.00
TIY	50.5	284	eP	20 17 17.0	0.5
	S			20 24 30.0	4.7
	LE		Ms = 5.1	15.0	0.95
XAN	55.0	283	eP	20 17 49.8	-0.6
LZH	56.7	288	+P	20 18 02.5	-0.5
GTA	56.9	293	+iP	20 18 03.2	-1.0
	LE		Ms = 5.0	15.0	0.61
CD2	60.3	283	eP	20 18 27.7	-0.2
GYA	61.7	278	P	20 18 37.0	0.1
KMI	65.1	280	+P	20 18 59.0	-0.5

1986 8 3  
 O = 21 36 21.4 ± 0.10s  
 LAT = 51.05 N ± 0.92km  
 LONG = 176.64 W ± 0.84km  
 DEPTH = 44 km ± 0.96km  
 STATIONS USED = 19, STAND DEV = 2.76s

TIY	50.5	284	eP	21 45 18.6	0.8
XAN	55.1	283	eP	21 45 50.0	-1.7
LZH	56.8	288	eP	21 46 04.5	0.3
GTA	56.9	293	P	21 46 04.4	-1.0
CD2	60.4	283	P	21 46 29.7	0.6

1986 8 3  
 O = 23 44 52.9 ± 0.06s  
 LAT = 8.21 S ± 1.03km  
 LONG = 161.82 E ± 0.85km  
 DEPTH = 73 km ± 0.80km  
 STATIONS USED = 45, STAND DEV = 0.87s

GZH	56.7	304	-P	23 54 32.5	0.6
NJ2	57.3	317	+P	23 54 36.3	0.1
MDJ	60.1	334	eP	23 54 55.0	-0.5
CN2	61.4	331	eP	23 55 03.8	-0.3
GYA	63.6	305	+P	23 55 19.8	0.4
BJI	63.9	322	eP	23 55 19.0	-1.8
XAN	65.4	313	P	23 55 29.7	-0.9
KMI	66.3	302	+P	23 55 38.0	1.0
CD2	67.8	308	+iP	23 55 46.6	0.5

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LZH	70.0	313	cP	23 56 00.5	0.8
GTA	74.3	315	+iP	23 56 26.2	0.9
WMQ	84.4	316	P	23 57 19.8	0.4

1986 8 4

O=06 24 48.6 ± 0.06s

LAT= 3.94 N ± 1.01km

LONG=125.82 E ± 1.96km

DEPTH= 33 km ± 0.10km

STATIONS USED = 17, STAND DEV= 1.42s

XAN	33.8	334	cP	06 31 29.2	-1.1
BJI	37.0	348	cP	06 31 58.0	0.9
SNY	37.8	357	cP	06 32 04.0	0.2
MDJ	40.6	4	cP	06 32 28.5	0.9

1986 8 4

O=09 54 01.2 ± 0.06s

LAT=11.84 S ± 0.89km

LONG=117.29 E ± 1.30km

DEPTH= 34 km ± 0.22km

STATIONS USED = 9, STAND DEV= 1.74s

GTA	53.5	343	P	10 03 20.7	-0.7
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1986 8 4

O=10 48 11.1 ± 0.08s

LAT=42.29 N ± 1.74km

LONG=144.56 E ± 1.38km

DEPTH= 32 km ± 0.41km

STATIONS USED = 66, STAND DEV= 1.31s

Ms=4.5/ 6,

MDJ	11.1	287	-P	10 50 53.0	1.8
			eS	10 53 00.0	4.3
SNY	15.6	275	-P	10 51 50.2	-0.1
DL2	17.7	267	eP	10 52 17.4	0.1
BJI	21.4	274	eP	10 52 56.0	-3.0
SSE	21.7	247	eP	10 53 01.0	-1.0
			pP	10 53 06.5	-4.1
			sP	10 53 17.6	2.9
			eS	10 56 55.0	-1.0
			esS	10 57 00.0	-9.7
			SS	10 57 32.0	-0.9
			LN	Ms=4.5	16.0 0.98
NJ2	22.8	252	+P	10 53 12.2	-0.4
HHC	24.6	278	P	10 53 32.0	1.4
TIY	24.9	270	e(P)	10 53 33.5	0.1
			S	10 57 54.0	2.4
			LE	Ms=4.5	11.0 0.49
BTO	25.8	278	cP	10 53 41.7	-0.3
WHN	26.8	254	cP	10 53 51.5	0.5
XAN	29.0	265	cP	10 54 10.6	-0.3

LZH	31.9	273	cP	10 54 37.0	0.3
GTA	33.7	280	P	10 54 51.0	-0.8
CD2	34.4	264	cP	10 54 58.0	0.3
GYA	34.7	255	-P	10 55 01.2	0.5
KMI	38.3	257	+P	10 55 32.0	0.6
WMQ	40.9	292	P	10 55 52.0	-0.4
			S	11 01 59.5	-1.2

1986 8 4

O=13 28 31.5 ± 0.14s

LAT=51.74 N ± 2.37km

LONG=159.41 E ± 1.85km

DEPTH= 34 km ± 0.15km

STATIONS USED = 37, STAND DEV= 0.94s

Ms=4.7/ 2,

MDJ	21.0	262	cP	13 33 12.6	-2.3
CN2	24.0	264	cP	13 33 47.0	2.8
SNY	26.2	262	-P	13 34 05.0	-0.4
TIY	35.6	266	eP	13 35 27.7	-0.3
			(S)	13 41 01.0	-0.1
			LE	Ms=4.8	11.0 0.55
XAN	40.1	264	cP	13 36 06.3	0.3
GTA	42.4	277	cP	13 36 24.7	0.0
CD2	45.4	265	(P)	13 36 49.2	-0.2
GYA	46.8	258	P	13 37 00.8	0.4
KMI	50.2	260	+P	13 37 27.0	0.3

1986 8 4

O=13 54 06.7 ± 0.12s

LAT= 2.20 S ± 1.75km

LONG=139.03 E ± 1.69km

DEPTH= 48 km ± 0.36km

STATIONS USED = 60, STAND DEV= 1.43s

Ms=4.6/ 4,

SSE	37.2	334	eP	14 01 15.0	-0.6
			pP	14 01 25.0	-2.6
			esS	14 07 16.0	-3.1
			LN	Ms=4.2	28.0 0.35
NJ2	39.1	332	-P	14 01 32.0	0.9
WHN	40.2	326	cP	14 01 41.5	1.2
GYA	42.3	315	P	14 01 59.4	1.5
TIA	43.3	334	cP	14 02 06.2	-0.1
			LN	Ms=4.6	24.0 0.57
KMI	44.4	310	+P	14 02 16.0	0.6
XAN	45.8	325	cP	14 02 25.8	-0.7
SNY	46.0	344	cP	14 02 27.8	0.1
			eS	14 09 17.0	8.5
TIY	46.7	331	cP	14 02 33.0	-0.5
			LE	Ms=4.7	12.0 0.36
BJI	47.0	336	cP	14 02 35.0	-0.2



CD2	47.0	317	eP	14 02 36.5	0.8	HHC	30.3	275	-P	22 40 48.8	0.6			
MDJ	47.4	351	eP	14 02 38.1	-0.3	TIY	31.1	269	P	22 40 55.9	0.4			
			eS	14 09 25.0	-2.7				PMZ			1.0	0.11	
CN2	47.4	347	eP	14 02 38.5	-0.1				pP	22 41 02.0	-2.0			
HHC	49.6	333	-P	14 02 56.6	0.6				PP	22 41 55.0	-2.8			
BTO	50.2	331	eP	14 03 00.0	-0.1				S	22 45 56.0	-1.3			
LZH	50.3	323	eP	14 03 01.0	0.0				LN	Ms=5.3	12.0	1.26		
GTA	54.9	323	+iP	14 03 35.4	0.2				LE		12.5	2.45		
1986 8 4														
O=22 34 36.7 ± 0.10s														
LAT=46.46 N ± 2.84km														
LONG=153.12 E ± 1.88km														
DEPTH= 31 km ± 0.49km														
STATIONS USED = 82, STAND DEV = 1.40s														
Ms=5.3 / 30, m <sub>B</sub> =5.4 / 9														
MDJ	16.6	272	eP	22 38 28.0	-0.7				BTO	31.5	275	cP	22 40 58.6	0.0
			eS	22 41 28.0	-3.2				cPP	22 42 00.0	-2.3			
			LN	Ms=4.7	26.0	3.62			LN	Ms=5.4	16.0	3.60		
CN2	19.7	272	eP	22 39 00.0	-6.2				LE		17.0	1.40		
SNY	21.6	268	+iP	22 39 26.0	-0.6			WHN	33.9	256	-P	22 41 19.5	0.5	
			PMZ	m <sub>B</sub> =5.3	10.0	1.28			pP	22 41 31.0	3.1			
			eS	22 43 17.0	-2.7				sP	22 41 37.5	5.9			
			sS	22 43 29.0	-4.1				S	22 46 44.0	4.3			
			LN	Ms=5.3	13.0	2.38			SME	m <sub>B</sub> =5.4	7.0	0.60		
			LE		15.0	4.65		QZH	34.9	244	eP	22 41 29.0	1.0	
DL2	24.2	263	+P	22 39 52.0	-0.2				eS	22 47 00.0	3.2			
			PMZ	m <sub>B</sub> =5.6	6.0	1.43			LE	Ms=4.9	16.0	1.22		
			pP	22 39 59.0	-1.7			XAN	35.5	266	eP	22 41 32.7	-0.4	
			PP	22 40 32.0	5.1				eS	22 47 07.0	1.0			
			S	22 44 10.0	4.6				LN	Ms=5.3	15.0	2.00		
			LN	Ms=5.0	12.0	1.34			LE		16.0	2.00		
			LE		12.0	1.35		LZH	37.9	272	+P	22 41 55.0	1.5	
BJI	27.5	270	eP	22 40 22.0	-0.6				pP	22 42 00.5	-1.7			
			eS	22 45 07.0	7.1				eS	22 47 43.0	-0.2			
			SME		18.0	1.63			LN	Ms=5.4	17.0	2.32		
			LN	Ms=5.2	15.0	1.98			LE		17.0	2.02		
			LE		15.0	2.66		GTA	39.0	279	+iP	22 42 03.0	0.2	
TIA	28.7	262	eP	22 40 33.7	0.3				PMZ	m <sub>B</sub> =5.4	9.0	0.60		
			S	22 45 24.0	5.7				PP	22 43 36.0	-0.2			
			SME	m <sub>B</sub> =5.4	10.0	1.00			PPMZ		10.0	0.35		
			LN	Ms=5.2	13.0	2.28			eS	22 47 59.5	-0.6			
SSE	29.0	249	eP	22 40 32.5	-3.8				eSS	22 50 37.0	-6.6			
			pP	22 40 40.0	-5.0				LE	Ms=5.3	13.0	1.84		
			S	22 45 18.0	-5.4			GZH	39.6	248	P	22 42 08.0	0.9	
			sS	22 45 38.0	-0.8				PP	22 43 46.0	3.8			
			LN	Ms=4.7	16.0	0.98			LN	Ms=5.2	16.0	1.94		
NJ2	29.9	253	+P	22 40 45.0	0.6			CD2	40.9	266	eP	22 42 18.5	0.5	
			S	22 45 40.0	2.0				S	22 48 35.0	8.6			
			LN	Ms=5.4	14.0	3.80			LN	Ms=5.4	15.0	2.72		
								GYA	41.7	258	+P	22 42 25.0	0.4	
									sP	22 42 32.0	-5.2			
									PcP	22 44 22.0	1.0			
									S	22 48 40.0	1.8			
									sS	22 48 49.0	-4.8			
									LN	Ms=5.5	18.0	2.30		
									LE		18.0	3.20		

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WMQ	45.0	292	P	22 42 51.8	-0.2		
			PMZ			1.5	0.040
			PcS	22 48 26.0	1.2		
			eS	22 49 30.0	1.4		
			ScS	22 52 50.0	6.5		
			LN	Ms=5.7	16.0	3.17	
			LE		16.0	3.43	
KMI	45.2	260	+P	22 42 54.0	0.6		
			PMZ	m <sub>B</sub> =5.6	8.0	0.70	
			S	22 49 32.0	2.4		
			LN	Ms=5.2	15.0	1.45	
KSH	54.8	293	P	22 44 07.7	0.9		
			PcP	22 45 09.0	1.0		
			PP	22 46 12.0	1.9		
			eS	22 51 50.0	5.6		
			LE	Ms=6.9	16.0	58.2	

1986 8 5

O=00 17 32.2 ± 0.07s  
 LAT=51.30 N ± 4.32km  
 LONG=176.27 W ± 1.39km  
 DEPTH= 31 km ± 0.71km  
 STATIONS USED = 28, STAND DEV= 1.11s

SNY	41.4	281	eP	00 25 17.8	0.4		
BJI	46.9	284	eP	00 26 02.0	-0.3		
TIA	48.7	279	eP	00 26 15.3	-1.2		
HHC	49.2	288	P	00 26 22.2	1.8		
BTO	50.3	288	eP	00 26 30.0	1.4		
XAN	55.2	283	eP	00 27 04.6	-0.6		
LZH	56.9	288	eP	00 27 17.0	-0.5		
GTA	57.1	293	eP	00 27 17.6	-0.9		
KMI	65.3	280	eP	00 28 13.5	-0.8		

1986 8 5

O=11 15 30.8 ± 0.04s  
 LAT=24.12 S ± 1.37km  
 LONG=177.14 W ± 1.10km  
 DEPTH= 33 km ± 0.35km  
 STATIONS USED = 21, STAND DEV= 0.99s

Ms=5.1/ 2,

CN2	85.6	322	eP	11 28 08.0	-0.2		
			eS	11 38 34.0	-3.2		
TIA	86.3	312	eP	11 28 11.2	-0.2		
TIY	90.3	312	eP	11 28 30.7	0.1		
			S	11 39 17.0	-1.9		
			LE	Ms=5.0	13.0	0.21	
XAN	90.9	307	eP	11 28 33.5	-0.2		
KMI	91.7	297	eP	11 28 38.5	1.2		

1986 8 5

O=14 21 17.5 ± 0.08s  
 LAT= 1.72 S ± 2.57km  
 LONG= 67.78 E ± 2.02km  
 DEPTH= 10 km ± 0.16km  
 STATIONS USED = 19, STAND DEV= 1.39s

KMI	43.1	49	+P	14 29 23.0	2.6		
GYA	46.8	51	P	14 29 49.2	-0.7		
GTA	50.4	32	eP	14 30 17.9	0.3		
XAN	52.5	44	eP	14 30 32.0	-1.7		
BJI	60.6	41	eP	14 31 31.5	0.0		
CN2	68.5	41	eP	14 32 22.0	-0.8		

1986 8 5

O=15 46 11.9 ± 0.15s  
 LAT=18.76 S ± 1.05km  
 LONG=179.18 W ± 1.73km  
 DEPTH=688 km ± 1.78km  
 STATIONS USED = 29, STAND DEV= 1.82s

MDJ	78.5	325	eP	15 57 07.0	0.2		
CN2	80.2	323	eP	15 57 16.0	-0.1		
BJI	83.9	316	eP	15 57 34.0	-0.2		
XAN	86.2	308	P	15 57 46.0	0.6		
KMI	87.6	297	eP	15 57 54.0	2.0		

1986 8 5

O=15 58 18.5 ± 0.15s  
 LAT= 1.73 S ± 3.70km  
 LONG= 67.62 E ± 3.34km  
 DEPTH= 10 km ± 0.47km  
 STATIONS USED = 46, STAND DEV= 2.48s

Ms=4.9/ 7,

KSH	41.7	10	eP	16 06 09.7	0.0		
KMI	43.2	50	eP	16 06 25.5	3.1		
GYA	47.0	51	eP	16 07 03.0	11.8		
CD2	47.3	44	eP	16 06 55.5	1.1		
WMQ	48.8	19	P	16 07 08.5	2.2		
			PMZ		2.0	0.10	
			S	16 14 12.0	4.7		
			LN	Ms=5.2	20.0	1.50	
GTA	50.5	32	eP	16 07 17.1	-2.2		
			eS	16 14 25.0	-7.3		
			SMN		15.0	0.23	
			LE	Ms=4.7	14.0	0.37	
XAN	52.6	44	eP	16 07 34.3	-1.2		
			eS	16 14 56.0	-5.8		
WHN	54.8	50	eP	16 07 52.5	0.8		
TIY	57.0	42	eP	16 08 08.1	0.4		
			S	16 15 56.0	-3.5		
			LE	Ms=4.9	13.0	0.42	
BTO	57.1	38	eP	16 08 09.5	1.1		



Ms=4.9 / 1,											
CN2	85.6	322	eP	19 29 48.0	-0.3						
1986 8 5											
O=20 59 24.3 ± 0.07s											
LAT=52.94 N ± 1.59km											
LONG=153.41 E ± 1.10km											
DEPTH=511 km ± 0.17km											
STATIONS USED = 77, STAND DEV = 0.80s											
m <sub>B</sub> =4.8 / 8											
MDJ	17.7	251	-iP	21 03 02.2	0.8						
			sP	21 05 09.0	4.3						
			S	21 06 01.0	4.8						
			SME	m <sub>B</sub> =4.8	10.0	2.42					
			ScP	21 10 00.4	1.5						
CN2	20.6	255	-P	21 03 27.8	-1.1						
			PMZ			3.0	0.40				
			esP	21 05 44.0	2.3						
			S	21 06 44.0	-1.1						
			SME	m <sub>B</sub> =4.5	4.0	0.40					
SNY	22.9	253	-iP	21 03 49.8	-0.1						
			sP	21 06 09.0	-0.1						
			PcP	21 07 22.0	-0.3						
			S	21 07 19.5	-3.2						
			SME	m <sub>B</sub> =4.8	4.0	0.64					
			LN			6.0	0.43				
			LE			6.0	0.39				
DL2	25.9	250	-iP	21 04 16.8	-0.4						
			S	21 08 09.0	-2.2						
BJI	28.4	258	eP	21 04 38.0	-0.5						
			ePP	21 06 03.5	3.4						
			ePcP	21 07 34.0	-0.9						
			eS	21 08 45.0	-4.9						
			eScP	21 10 26.5	-0.3						
TIA	30.4	251	eP	21 04 55.6	-0.3						
HHC	30.6	264	-P	21 04 57.6	-0.4						
BTO	31.7	265	+P	21 05 07.0	-0.3						
			S	21 09 38.0	-2.7						
SSE	32.0	240	eP	21 05 08.0	-1.5						
			sP	21 07 36.0	0.6						
			PcP	21 07 47.5	3.0						
			S	21 09 42.0	-3.0						
			ScP	21 10 38.0	-0.6						
			SS	21 12 28.0	-1.7						
TIY	32.1	258	eP	21 05 10.6	0.0						
			PMZ			1.0	0.060				
			PP	21 06 42.5	0.8						
			PPMZ			6.0	0.57				
			S	21 09 45.5	-1.3						
NJ2	32.5	244	-P	21 05 13.8	0.1						
			S								
			ScP								
			-iP								
			PMZ						1.0	0.13	
			PcP								
			sP								
			S								
			SMN	m <sub>B</sub> =4.9		6.0	0.36				
XAN	36.7	257	-P	21 05 48.1	-0.8						
			PMZ						1.0	0.060	
			PcP								
			S								
			ScP								
QZH	38.3	237	eP	21 06 02.0	0.0						
GTA	38.6	272	-iP	21 06 05.1	0.5						
			pP								
			PcP								
			ScP								
			S								
			SMN	m <sub>B</sub> =4.8		4.5	0.18				
			ScS								
CD2	42.0	258	+iP	21 06 32.0	0.3						
			PMZ						1.2	0.33	
			epP								
			PP								
			S								
			eScS								
WMQ	43.2	285	-iP	21 06 41.8	0.5						
			PMZ						1.5	0.26	
			pP								
			PcS								
			S								
			ScS								
GYA	43.6	251	-P	21 06 44.0	-0.5						
			pP								
			sP								
			S								
			ScS								
KSH	52.7	288	-iP	21 07 53.0	-0.4						
			pP								
			esP								
			eS								
1986 8 6											
O=04 03 55.1 ± 0.18s											
LAT=30.71 N ± 1.73km											
LONG=103.74 E ± 1.72km											
DEPTH= 7 km ± 0.39km											
STATIONS USED = 20, STAND DEV = 4.21s											
Ms=4.0 / 2, M <sub>L</sub> =4.1 / 9,											
CD2	0.2	3	+iPg	04 04 00.0							





	(S)	20 02 13.0	3.9						1986 8 7				
	eLG <sub>1</sub>	20 03 47.0	-4.4						O = 01 18 50.6	± 0.07s			
	LG <sub>2</sub>	20 04 16.0	-1.5						LAT = 39.68 N	± 0.71km			
	LN	Ms = 5.5	8.0	7.01					LONG = 106.56 E	± 0.54km			
	LE		11.0	4.85					DEPTH = 15 km	± 0.07km			
SSE	17.7	79	P	19 59 20.0	-0.6				STATIONS USED = 8,	STAND DEV = 2.73s			
			PMZ			3.0	1.14			M <sub>L</sub> = 3.1 / 7,			
			pP	19 59 26.0	0.6			BTO	2.8	70	Pn	01 19 35.4	-0.2
			eS	20 02 32.0	-3.6						Pg	01 19 41.0	0.8
			LG <sub>1</sub>	20 04 26.0	-1.6						Sn	01 20 12.8	1.9
			LG <sub>2</sub>	20 04 52.0	-3.6						Sg	01 20 20.0	1.4
			LE	Ms = 5.8	12.0	19.0					SMN	M <sub>L</sub> = 2.9	0.3 0.050
WMQ	17.9	328	-P	19 59 21.5	-2.2						SME		0.6 0.060
			PMZ			1.6	0.57	HHC	4.0	71	Pg	01 20 02.4	0.8
			pP	19 59 31.0	2.7						Sg	01 20 55.0	-1.1
			S	20 02 35.0	-5.2						SMN	M <sub>L</sub> = 3.5	0.4 0.10
			LG <sub>2</sub>	20 05 00.0	-3.2						SME		0.4 0.10
			LE	Ms = 5.5	10.0	7.55		LZH	4.2	212	cP*	01 20 05.5	5.0
DL2	19.7	55	P	19 59 44.0	-0.5						S*	01 20 57.0	4.8
			S	20 03 26.0	6.2						SMN	M <sub>L</sub> = 3.6	1.0 0.13
			LN	Ms = 5.5	5.0	2.70					SME		1.5 0.11
			LE		5.0	2.70		GTA	5.2	269	cPg	01 20 23.6	0.5
SNY	22.2	50	-P	20 00 11.4	0.1						S*	01 21 25.8	3.8
			sP	20 00 21.0	1.2						SMN	M <sub>L</sub> = 3.1	0.8 0.020
			S	20 04 14.0	3.6						SME		0.8 0.020
			SMN	m <sub>B</sub> = 5.6	9.5	1.61		XAN	5.9	161	cPn	01 20 19.2	0.7
			SME		7.5	1.26					Pg	01 20 38.2	2.8
			LN	Ms = 5.3	18.0	4.16					Sn	01 21 24.6	-3.7
			LE		15.0	3.60					Sg	01 21 53.4	-3.2
KSH	22.8	303	-P	20 00 18.8	1.5						SMN	M <sub>L</sub> = 2.9	1.0 0.010
			pP	20 00 23.0	0.4						SME		0.8 0.010
			eS	20 04 23.0	0.9								
			esS	20 04 30.0	-0.7								
			PcS	20 07 50.0	3.3								
			LN	Ms = 5.8	10.0	12.0			1986 8 7				
CN2	24.4	47	-P	20 00 32.4	0.2				O = 02 51 29.2	± 0.08s			
			PMZ	m <sub>B</sub> = 5.4	4.0	0.50			LAT = 17.99 S	± 1.79km			
			pP	20 00 36.0	-1.6				LONG = 178.35 W	± 0.92km			
			PP	20 01 05.5	-1.4				DEPTH = 602 km	± 1.37km			
			PPMZ			4.0	0.40		STATIONS USED = 54,	STAND DEV = 0.98s			
			eS	20 04 48.0	-0.8			SSE	75.8	310	P	03 02 16.2	-0.6
			esS	20 04 56.0	-1.7						PMZ		0.6 0.020
MDJ	27.4	48	eP	20 01 00.0	-0.6			NJ2	78.0	309	-P	03 02 29.0	0.4
			pP	20 01 04.5	-1.6			GZH	78.2	299	-P	03 02 30.6	1.0
			sP	20 01 07.0	-2.0			MDJ	78.3	325	-P	03 02 30.2	0.2
			eS	20 05 42.0	2.8			DL2	79.7	317	cP	03 02 37.5	0.1
			sS	20 05 49.0	0.6			CN2	80.1	322	-P	03 02 39.6	0.0
			SS	20 07 03.0	8.1			WHN	80.7	306	eP	03 02 43.0	0.4
			LN	Ms = 5.2	12.0	2.50		BJI	83.9	315	eP	03 02 58.5	0.0
								GYA	85.1	300	-P	03 03 05.4	0.6
								TIY	85.4	312	-P	03 03 06.4	0.5
								XAN	86.4	307	-P	03 03 11.0	0.4

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			S	03 13 03.0	7.9		
KMI	87.9	297	-P	03 03 19.0	0.9		
CD2	89.2	303	eP	03 03 24.6	0.8		
LZH	91.0	308	-P	03 03 33.0	0.7		
GTA	95.1	310	eP	03 03 50.6	-0.4		

1986 8 7

O=06 45 05.9 ± 0.13s  
 LAT=38.40 N ± 1.24km  
 LONG=120.10 E ± 1.18km  
 DEPTH= 8 km ± 0.55km  
 STATIONS USED = 12, STAND DEV = 4.28s

$M_L = 3.7 / 11,$

DL2	1.3	67	-Pg	06 45 26.6	-2.3		
			Sg	06 45 41.0	-5.8		
			SMN	$M_L = 3.7$	0.4	1.10	
			SME		0.4	1.11	
TIA	3.2	228	Pn	06 46 00.0	2.9		
			Pg	06 46 12.1	9.4		
			Sn	06 46 39.0	1.4		
			Sg	06 46 52.9	6.1		
			SMN	$M_L = 3.4$	0.4	0.14	
			SME		0.4	0.10	
SNY	4.3	37	+iPg	06 46 23.6	1.0		
			Sg	06 47 16.8	-5.2		
			SMN	$M_L = 3.9$	0.5	0.26	
			SME		0.5	0.14	
CN2	6.7	35	ePn	06 46 53.0	7.5		
			eSn	06 48 02.0	-2.9		
			eSg	06 48 31.0	-6.1		
			SMN	$M_L = 4.0$	1.0	0.060	
			SME		1.0	0.080	

1986 8 7

O=12 10 18.9 ± 0.16s  
 LAT=11.70 N ± 2.21km  
 LONG= 95.26 E ± 2.71km  
 DEPTH= 33 km ± 0.29km  
 STATIONS USED = 72, STAND DEV = 2.15s

$M_s = 4.9 / 31,$

KMI	15.1	27	-P	12 13 55.0	3.0		
			pP	12 14 02.0	3.0		
			PP	12 14 08.0	4.3		
			eS	12 16 45.0	5.8		
			sS	12 16 56.0	5.8		
			SS	12 17 02.0	6.1		
			LN	$M_s = 4.8$	14.0	3.30	
GYA	18.2	35	-P	12 14 32.0	1.1		
			PMZ		1.2	0.25	
			sP	12 14 43.0	0.0		

			S	12 17 56.8	7.7		
			ScP	12 22 30.0	-4.6		
			LN	$M_s = 5.0$	13.0	2.00	
			LE		13.0	2.60	
GZH	20.6	54	eP	12 14 58.8	0.7		
			LN	$M_s = 4.9$	11.0	1.47	
			LE		10.0	0.70	
CD2	20.7	21	eP	12 14 58.2	-0.6		
			S	12 18 41.0	-1.4		
			LE	$M_s = 4.9$	10.0	1.74	
LZH	25.5	16	-P	12 15 46.0	-0.3		
			eS	12 20 12.0	2.7		
			SMN		14.0	1.02	
			LN	$M_s = 4.7$	11.0	0.75	
XAN	25.5	27	P	12 15 44.7	-1.5		
			pP	12 15 53.0	-2.0		
			PP	12 16 24.6	-0.6		
			S	12 20 12.0	3.7		
			sS	12 20 21.0	-2.8		
			LN	$M_s = 5.0$	13.0	1.45	
			LE		13.0	1.45	
QZH	25.7	56	eP	12 15 46.0	-2.1		
			eS	12 20 06.5	-6.0		
			LN	$M_s = 4.7$	14.0	1.04	
WHN	25.8	40	+P	12 15 49.5	0.7		
			pP	12 15 59.0	1.3		
			eS	12 20 18.0	4.3		
			LN	$M_s = 4.7$	10.0	0.74	
GTA	27.9	8	-iP	12 16 07.8	-0.6		
			eS	12 20 51.0	2.6		
			LN	$M_s = 4.4$	22.0	0.75	
NJ2	29.7	43	+P	12 16 25.0	0.7		
			eS	12 21 16.0	-1.0		
			LN	$M_s = 5.1$	10.0	1.40	
TIY	30.1	28	eP	12 16 27.7	-0.5		
			S	12 21 15.0	-7.9		
			sS	12 21 32.0	-7.0		
			LN	$M_s = 5.1$	15.0	1.75	
			LE		14.0	0.81	
SSE	30.8	47	eP	12 16 34.0	0.2		
			eS	12 21 38.0	4.2		
			LN	$M_s = 5.0$	12.0	1.16	
			LE		12.0	0.58	
TIA	31.4	35	eP	12 16 39.1	-0.2		
			eS	12 21 44.0	0.4		
			LE	$M_s = 4.9$	14.0	1.18	
BTO	31.6	22	P	12 16 39.5	-1.7		
			pP	12 16 49.0	-1.1		
			ePP	12 17 44.0	-1.4		
			eS	12 21 44.0	-3.0		



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			LN	Ms=4.8	13.0	0.70
			LE		13.0	0.60
HHC	32.4	23	+P	12 16 48.2	0.0	
KSH	32.5	332	eP	12 17 01.0	12.4	
			sS	12 22 22.0	5.6	
WMQ	32.7	350	P	12 16 50.0	-0.6	
			sP	12 17 01.0	-2.6	
			eS	12 22 06.0	2.2	
			LE	Ms=4.6	28.0	1.05
BJI	33.7	30	eP	12 17 00.0	0.2	
			ePP	12 18 17.0	4.4	
			eS	12 22 26.0	5.7	
			LN	Ms=4.8	14.0	0.66
			LE		14.0	0.47
DL2	35.8	36	eP	12 17 18.5	0.8	
SNY	38.9	34	+P	12 17 43.4	0.0	
			pP	12 17 52.0	-0.7	
			eS	12 23 44.5	5.1	
			LE	Ms=4.7	12.0	0.43
CN2	41.2	34	-P	12 18 02.6	-0.2	
			pP	12 18 11.4	-0.7	
			ePP	12 19 39.4	-1.8	
			eS	12 24 15.0	0.5	
MDJ	44.0	35	eP	12 18 26.0	0.2	

			S	18 28 41.0	6.8	
			LN	Ms=4.4	14.0	0.40
			LE		14.0	0.40
BTO	24.2	67	eP	18 24 25.3	0.8	
			eS	18 28 39.0	1.0	
			LN	Ms=4.5	12.0	0.40
			LE		13.0	0.50
TIY	26.0	74	eP	18 24 41.8	-0.1	
			S	18 29 11.0	3.4	
			sS	18 29 27.0	3.8	
			LN	Ms=4.6	14.0	0.74
SSE	34.3	84	eP	18 25 54.5	-1.0	
			LN	Ms=4.5	10.0	0.26
CN2	35.7	61	eP	18 26 06.5	-1.4	

1986 8 7

O = 18 20 34.8 ± 0.08s  
 LAT = 34.56 N ± 1.46km  
 LONG = 80.37 E ± 1.48km  
 DEPTH = 33 km ± 0.14km  
 STATIONS USED = 12, STAND DEV = 2.21s

CD2	20.0	94	(P)	18 25 06.8	-1.0
XAN	23.6	83	P	18 25 43.5	-0.1
			S	18 30 01.0	9.5

1986 8 7

O = 18 19 09.7 ± 0.09s  
 LAT = 34.60 N ± 1.41km  
 LONG = 80.37 E ± 1.20km  
 DEPTH = 32 km ± 0.07km  
 STATIONS USED = 44, STAND DEV = 1.79s  
 Ms = 4.5 / 13,

KSH	6.0	325	-iP	18 20 45.4	7.0
			LG <sub>1</sub>	18 22 22.4	4.8
			LG <sub>2</sub>	18 22 32.4	5.3
			LE	Ms=5.3	6.0 18.0
WMQ	10.8	29	P	18 21 44.0	-1.6
			S	18 23 39.0	-7.1
			LG <sub>1</sub>	18 24 44.0	-5.3
			LE	Ms=4.5	9.0 1.82
GTA	16.2	67	eP	18 22 58.1	0.6
			LE	Ms=4.4	9.0 0.70
CD2	20.0	94	eP	18 23 43.5	0.8
			(S)	18 27 25.0	3.9
			LE	Ms=4.8	10.0 1.36
KMI	21.5	110	eP	18 23 58.5	-0.2
XAN	23.6	83	eP	18 24 18.7	0.3
			eS	18 28 30.0	2.8
			LN	Ms=4.6	10.0 0.65
GYA	24.0	103	P	18 24 25.4	2.5

1986 8 7

O = 22 32 50.7 ± 0.20s  
 LAT = 7.44 N ± 4.30km  
 LONG = 81.20 W ± 3.14km  
 DEPTH = 6 km ± 1.51km  
 STATIONS USED = 54, STAND DEV = 2.87s  
 Ms = 5.9 / 8,

WMQ	128.0	10	ePKP	22 52 00.0	0.9
KSH	128.8	23	ePKP	22 52 05.8	5.2
			eSKS	22 59 15.0	6.2
BJI	130.1	343	ePKP	22 52 02.5	-0.5
HHC	130.5	347	ePKP	22 52 05.0	1.0
BTO	131.1	349	ePKP	22 52 05.0	-0.1
			ePP	22 54 21.0	-4.3
			LN	Ms=5.9	18.0 1.30
			LE		18.0 0.60
TIA	133.3	340	ePKP	22 52 13.4	4.3
			ePP	22 54 41.5	2.9
TIY	133.3	345	ePKP	22 52 12.2	3.0
			PKS	22 55 46.5	
			LN	Ms=6.0	18.5 1.56
			LE		18.0 0.94
GTA	133.4	359	ePKP	22 52 10.3	0.9
			LE	Ms=5.5	18.0 0.58
SSE	136.1	332	ePKP	22 52 13.7	-0.5

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			PP	22 55 01.0	4.7		
			PKS	22 56 46.0			
			LN	Ms=6.0	22.0	1.85	
XAN	137.6	347	ePKP	22 52 19.0	1.8		
QZH	142.5	330	ePKP	22 52 26.0	0.3		
			LE	Ms=5.5	18.0	0.57	
GYA	145.4	348	PKP	22 52 30.4	-0.6		
GZH	146.5	335	ePKP	22 52 36.0	3.4		
KMI	147.4	353	ePKP	22 52 36.5	2.1		
			PKP <sub>2</sub>	22 52 41.0			

1986 8 7

O=23 12 10.1 ± 0.11s  
 LAT=51.84 N ± 0.32km  
 LONG=178.36 W ± 0.83km  
 DEPTH=107 km ± 1.10km

STATIONS USED = 25, STAND DEV = 2.47s

SNY	40.0	279	-P	23 19 37.4	1.3		
TIA	47.4	277	-P	23 20 36.1	0.3		
			LE		20.0	2.37	
SSE	48.3	269	eP	23 20 32.5	-10.3		
WHN	52.9	274	eP	23 21 18.0	0.1		
GYA	60.5	276	P	23 22 12.2	0.0		
KMI	63.9	278	-P	23 22 35.0	0.1		
KSH	68.5	307	eP	23 22 47.0	-15.7		

1986 8 8

O=03 08 55.8 ± 0.19s  
 LAT=14.91 S ± 1.82km  
 LONG=167.28 E ± 2.91km  
 DEPTH=159 km ± 1.03km

STATIONS USED = 38, STAND DEV = 1.54s

SSE	63.7	316	eP	03 19 13.0	0.2		
NJ2	65.8	316	eP	03 19 57.0	31.0		
WHN	68.1	312	eP	03 19 40.0	-0.9		
MDJ	68.4	332	eP	03 19 42.7	-0.5		
CN2	69.8	329	eP	03 19 49.8	-1.8		
GYA	71.8	305	P	03 20 04.2	0.4		
BJI	72.4	321	eP	03 20 00.5	-6.6		
TIY	73.4	317	P	03 20 13.0	0.0		
XAN	73.8	313	eP	03 20 15.0	-0.4		
KMI	74.4	302	+P	03 20 20.0	1.0		
CD2	76.1	308	eP	03 20 29.2	0.7		
GTA	82.8	314	P	03 21 05.0	0.5		

1986 8 8

O=08 31 23.9 ± 0.10s  
 LAT=27.52 N ± 3.50km  
 LONG= 57.85 E ± 1.40km  
 DEPTH= 23 km ± 1.43km

STATIONS USED = 34, STAND DEV = 1.72s

KSH	19.2	47	eP	08 35 48.7	-0.8		
			PP	08 36 04.0	-1.9		
			eS	08 39 22.0	2.2		
WMQ	29.0	48	+P	08 37 22.5	-2.2		
GTA	36.7	60	P	08 38 31.1	-0.4		
CD2	40.0	74	(P)	08 38 59.4	0.1		
GYA	43.3	80	eP	08 39 32.6	6.2		
XAN	44.0	68	eP	08 39 30.6	-1.4		
TIY	46.5	63	eP	08 39 51.5	-0.7		
WHN	49.1	72	eP	08 40 10.0	-1.9		
TIA	50.4	64	eP	08 40 22.8	0.5		
NJ2	52.5	69	eP	08 40 37.1	-1.2		

1986 8 8

O=10 35 33.6 ± 0.06s  
 LAT=37.32 N ± 0.45km  
 LONG=114.98 E ± 0.53km  
 DEPTH= 23 km ± 0.37km

STATIONS USED = 7, STAND DEV = 1.67s

				M <sub>L</sub> =3.3 / 4,			
TIA	2.0	122	Pg	10 36 10.4	0.3		
			Sg	10 36 36.9	-1.2		
			SMN	M <sub>L</sub> =3.1	0.3	0.17	
			SME		0.3	0.14	
TIY	2.1	282	+iPg	10 36 10.2	-0.1		
			Sg	10 36 36.4	-2.1		
			SMN	M <sub>L</sub> =3.3	0.4	0.20	
			SME		0.4	0.23	
HHC	4.4	324	ePg	10 36 52.0	0.2		
			Sg	10 37 45.5	-6.4		
			SMN	M <sub>L</sub> =3.6	1.0	0.12	
			SME		1.0	0.060	
BTO	5.1	312	(Pg)	10 37 02.2	-1.1		
			eSg	10 38 07.2	-5.2		
XAN	5.9	238	ePg	10 37 20.0	1.6		
			Sg	10 38 36.4	-2.8		

1986 8 8

O=16 18 57.1 ± 0.33s  
 LAT= 7.50 N ± 7.30km  
 LONG= 59.62 E ± 3.15km  
 DEPTH= 9 km ± 0.14km

STATIONS USED = 35, STAND DEV = 3.10s

Ms=4.9 / 3,

KSH	35.0	22	eP	16 25 51.7	-1.3		
			PP	16 27 06.0	-4.6		
			eS	16 31 18.0	-6.9		
WMQ	43.7	30	eP	16 27 04.0	-1.0		
KMI	44.7	62	eP	16 27 14.0	0.9		



GTA	48.0	42	eP	16 27 35.0	-4.4
GYA	48.5	61	P	16 27 43.6	1.0
			S	16 34 43.0	1.2
LZH	49.3	48	eP	16 27 54.0	4.5
XAN	52.5	53	eP	16 28 11.4	-1.8
			S	16 35 41.0	3.7
BTO	55.6	45	eP	16 28 35.0	-1.1
			eS	16 36 15.0	-5.6
			LN	Ms=4.9	15.0 0.40
			LE		15.0 0.30
TIY	56.3	49	eP	16 28 40.0	-1.5
			PP	16 30 48.0	0.4
			S	16 36 34.0	4.6
			SS	16 40 22.0	5.6
			LN	Ms=4.9	16.0 0.26
			LE		15.0 0.38
BJI	59.8	48	eP	16 29 05.0	-0.9
NJ2	60.1	57	eP	16 29 05.4	-2.1
			eS	16 37 16.0	-3.1
CN2	67.5	46	(P)	16 29 53.0	-3.1

1986 8 8

O=18 51 43.3 ± 0.10s  
 LAT=37.94 N ± 1.20km  
 LONG= 37.71 E ± 1.04km  
 DEPTH= 9 km ± 0.25km  
 STATIONS USED = 24, STAND DEV= 1.33s

WMQ	37.8	65	eP	18 59 04.0	2.0
GTA	47.6	68	eP	19 00 21.6	-0.8
LZH	51.8	70	eP	19 00 54.5	0.0
BTO	54.6	63	eP	19 01 11.3	-3.5
XAN	56.5	71	eP	19 01 27.0	-1.4
GYA	58.3	80	eP	19 01 41.2	-0.1

1986 8 8

O=19 24 35.4 ± 0.07s  
 LAT= 7.47 S ± 0.66km  
 LONG=128.27 E ± 0.89km  
 DEPTH=165 km ± 0.47km  
 STATIONS USED = 31, STAND DEV= 0.85s

GYA	39.7	329	eP	19 31 54.6	0.9
			ScP	19 37 31.0	2.4
CD2	44.8	330	eP	19 32 34.9	-0.1
XAN	45.2	337	P	19 32 36.7	-1.2
LZH	49.0	334	+P	19 33 08.5	0.4
GTA	53.6	333	P	19 33 41.6	-0.5
WMQ	62.9	328	P	19 34 46.5	-0.2
KSH	67.2	318	eP	19 35 33.0	19.4

1986 8 8

O=21 12 10.5 ± 0.14s  
 LAT=19.21 N ± 1.49km  
 LONG=121.19 E ± 1.73km  
 DEPTH= 25 km ± 0.69km  
 STATIONS USED = 31, STAND DEV= 2.39s

				Ms=3.9 / 4,	
QZH	6.2	338	ePn	21 13 40.8	0.1
			Sn	21 14 45.0	-7.7
			SMN	Ms=3.9	0.8 0.070
			SME		0.9 0.080
GZH	8.3	299	e(P)	21 14 08.5	-3.4
XAN	18.4	326	eP	21 16 26.6	1.1
TIY	20.0	339	eP	21 16 45.0	1.1
			S	21 20 26.0	4.6
BJI	21.2	349	eP	21 16 57.0	0.2
LZH	22.7	321	eP	21 17 13.5	1.5
HHC	23.1	341	P	21 17 18.0	2.3

1986 8 8

O=23 57 29.2 ± 0.07s  
 LAT=22.26 S ± 1.76km  
 LONG=170.13 E ± 1.44km  
 DEPTH= 36 km ± 0.70km  
 STATIONS USED = 27, STAND DEV= 1.42s

SSE	70.8	317	P	24 08 43.7	-1.1
			PMZ		1.3 0.030
			eS	24 17 50.0	-6.3
MDJ	76.2	331	eP	24 09 15.0	-1.1
TIA	76.7	318	-P	24 09 18.4	-1.0
GYA	78.2	305	P	24 09 27.4	-0.4
BJI	79.8	321	eP	24 09 35.5	-0.7
XAN	80.8	312	P	24 09 41.0	-0.4
LZH	85.4	312	eP	24 10 05.0	0.0

1986 8 9

O=00 53 12.1 ± 0.07s  
 LAT=14.11 N ± 0.98km  
 LONG=120.40 E ± 1.32km  
 DEPTH= 78 km ± 0.36km  
 STATIONS USED = 92, STAND DEV= 1.05s

				Ms=4.8 / 31,	
				ms=5.7 / 17	
QZH	10.9	351	+P	00 55 46.0	-1.4
			sP	00 56 09.0	-0.8
			S	00 57 48.0	-0.1
			LE	Ms=4.2	14.0 1.38
GZH	11.1	324	-iP	00 55 48.1	-2.5
			eS	00 57 50.0	-4.2
			SS	00 58 16.0	6.7
			LN	Ms=4.6	11.0 2.65
WHN	17.3	342	eP	00 57 11.0	1.2

			pP	00 57 24.0	-0.9							SS	01 02 49.5	-3.7				
			sP	00 57 31.0	-3.0							LN	Ms=5.1	15.0	3.43			
			eS	01 00 16.0	-1.8							TIY	24.5	345	+P	00 58 26.6	0.4	
			SMN	m <sub>B</sub> =5.9	6.0	2.50						PMZ				1.1	0.070	
			sS	01 00 38.0	-2.8							pP	00 58 40.5	-3.0				
			LN	Ms=4.6	12.0	1.33						sP	00 58 49.5	-3.7				
GYA	17.8	316	P	00 57 17.0	0.8							S	01 02 39.0	1.1				
			sP	00 57 41.0	0.8							LN	Ms=4.9	13.5	1.28			
			S	01 00 36.0	7.6							LE		14.0	0.89			
			SMN	m <sub>B</sub> =6.0	8.0	2.50					DL2	24.7	2	+P	00 58 28.5	0.8		
			SME		8.0	3.10						pP	00 58 41.0	-4.1				
			LN	Ms=4.7	12.0	1.20						PP	00 59 04.5	-2.6				
			LE		12.0	0.80						PPP	00 59 14.0					
NJ2	17.9	356	+P	00 57 18.0	0.3							S	01 02 43.0	2.3				
			PMZ	m <sub>B</sub> =5.5	6.0	1.40						LE	Ms=4.9	11.0	1.22			
			sP	00 57 41.0	-0.9						BJI	26.1	353	eP	00 58 41.0	0.4		
			S	01 00 40.0	8.6							eS	01 03 05.0	0.7				
			SMN	m <sub>B</sub> =5.5	7.0	1.10						SMN	m <sub>B</sub> =5.3	7.0	0.53			
			SME		8.0	0.60						SME		10.0	0.42			
			LN	Ms=4.9	11.0	2.10					LZH	26.4	329	-P	00 58 44.0	0.0		
KMI	19.9	306	-P	00 57 41.0	0.8							pP	00 59 04.0	2.6				
			PMZ		2.0	1.10						eS	01 03 08.0	-2.4				
			pP	00 57 58.0	2.5							LE	Ms=5.0	11.0	1.41			
			sP	00 58 05.0	-1.0						HHC	27.7	346	P	00 58 56.0	0.2		
			S	01 01 21.0	7.0						SNY	27.8	5	+iP	00 58 54.8	-1.0		
			SMN	m <sub>B</sub> =6.1	10.0	3.60						PMZ			1.0	0.44		
			SME		10.0	3.80						pP	00 59 14.8	1.3				
			SS	01 01 55.0	8.9							PP	00 59 47.0	-0.1				
			LE	Ms=4.8	15.0	1.90						eS	01 03 30.5	-0.8				
TIA	22.2	353	eP	00 58 03.7	0.4							LN	Ms=4.8	25.0	1.32			
			sP	00 58 28.0	-2.3							LE		34.0	2.07			
			S	01 02 01.0	3.8						BTO	27.9	343	eP	00 58 56.0	-1.4		
			SMN	m <sub>B</sub> <sup>c</sup> =5.7	9.0	0.80						eS	01 03 31.0	-3.0				
			SME		9.0	1.57						LN	Ms=4.8	12.0	0.60			
			sS	01 02 28.0	1.3							LE		12.0	0.70			
			LE	Ms=4.7	11.0	1.07					CN2	29.9	7	+P	00 59 13.6	-1.4		
XAN	22.4	334	-iP	00 58 05.4	0.1							esP	00 59 40.0	-2.7				
			pP	00 58 22.0	-0.3							eS	01 04 04.0	-1.6				
			PP	00 58 35.0	-0.5						GTA	31.0	328	P	00 59 24.6	-0.6		
			S	01 02 02.0	1.3							PcP	01 02 20.2	1.6				
			SMN	m <sub>B</sub> =6.2	8.0	2.88						S	01 04 22.0	-0.6				
			SME		8.0	3.88						ScS	01 09 50.8	2.1				
			sS	01 02 32.0	1.5							SME	m <sub>B</sub> =5.1	8.0	0.38			
			LG <sub>1</sub>	01 04 49.0	-6.7							LE	Ms=4.8	14.0	0.89			
			ScP	01 05 29.0	1.5						MDJ	31.4	13	+P	00 59 28.1	-0.1		
			ScS	01 09 12.0	0.5							S	01 04 30.0	1.8				
			LE	Ms=4.8	10.0	1.27						sS	01 05 00.0	-0.5				
CD2	22.7	320	+iP	00 58 08.7	0.9						WMQ	40.7	323	P	01 00 47.5	0.4		
			pP	00 58 25.5	0.5							PMZ			2.0	0.24		
			S	01 02 07.0	1.7							pP	01 01 08.0	2.5				

	PcP	01 02 51.5	4.2						
	ScP	01 06 30.5	2.2						
	S	01 06 48.0	-2.5						
	SME	$m_B = 5.7$	7.0	1.05					
	ScS	01 10 45.0	3.4						
	LN	$M_s = 5.2$	22.0	2.16					
KSH	46.4 312	-iP	01 01 32.8	-0.2					
		pP	01 01 52.8	1.1					
		iS	01 08 14.8	0.5					
		esS	01 08 52.8	6.1					
1986 8 9									
O = 06 37 23.3 $\pm 0.09s$									
LAT = 26.76 N $\pm 2.78km$									
LONG = 54.95 E $\pm 1.47km$									
DEPTH = 32 km $\pm 0.68km$									
STATIONS USED = 55, STAND DEV = 1.60s									
$M_s = 5.0 / 11,$									
KSH	21.6 49	eP	06 42 12.4	-0.7					
		PP	06 42 34.0	-3.3					
		eS	06 46 04.0	-2.2					
		LN	$M_s = 5.3$	9.0	3.18				
WMQ	31.4 49	eP	06 43 44.2	0.0					
		eS	06 48 52.0	3.1					
		LN	$M_s = 5.9$	28.0	24.8				
GTA	39.3 60	P	06 44 51.6	0.4					
		LN	$M_s = 4.6$	12.0	0.32				
CD2	42.7 73	eP	06 45 20.3	1.0					
		(S)	06 51 43.0	2.4					
		LN	$M_s = 5.0$	20.0	1.11				
KMI	42.8 81	eP	06 45 21.0	0.5					
		eS	06 51 46.0	3.4					
		eSS	06 54 50.0	2.6					
		LN	$M_s = 4.9$	15.0	0.70				
GYA	46.0 78	P	06 45 45.8	0.0					
		S	06 52 28.0	1.2					
XAN	46.7 67	+P	06 45 50.6	-0.6					
BTO	47.1 58	P	06 45 56.1	1.1					
HHC	48.3 58	P	06 46 05.2	1.0					
TIY	49.2 62	P	06 46 10.7	0.1					
		PMZ		1.4	0.070				
WHN	51.7 71	eP	06 46 30.0	-0.2					
TIA	53.1 63	eP	06 46 39.6	-0.5					
		PP	06 48 38.0	-2.8					
		LN	$M_s = 4.8$	27.0	0.69				
NJ2	55.2 68	-P	06 46 55.8	-0.1					
SSE	57.4 69	P	06 47 11.2	-0.1					
		esS	06 55 14.0	-5.9					
		LN	$M_s = 5.1$	20.0	0.96				
MDJ	61.1 52	eP	06 47 35.5	-2.0					
1986 8 9									
O = 15 42 58.6 $\pm 0.19s$									
LAT = 28.19 N $\pm 3.80km$									
LONG = 140.87 E $\pm 3.58km$									
DEPTH = 30 km $\pm 1.09km$									
STATIONS USED = 48, STAND DEV = 2.71s									
$M_s = 4.4 / 17,$									
$m_B = 5.6 / 16$									
SSE	17.4 284	+P	15 47 00.0	-0.4					
		PMZ	$m_B = 5.3$	6.0	0.90				
		pP	15 47 09.0	1.4					
		sP	15 47 12.0	-0.1					
		sS	15 50 24.0	1.6					
		SS	15 50 34.0	2.1					
		LN	$M_s = 4.3$	9.0	0.52				
MDJ	18.7 334	eP	15 47 16.5	-0.7					
DL2	19.2 309	eP	15 47 21.0	-2.4					
		PMZ	$m_B = 5.6$	5.0	1.45				
		sP	15 47 37.0	1.9					
		PP	15 47 46.0	5.9					
		eS	15 50 46.0	-7.4					
		LN	$M_s = 4.4$	12.0	0.67				
NJ2	19.4 287	+P	15 47 26.5	1.1					
		PMZ	$m_B = 5.8$	5.0	2.20				
		S	15 51 00.0	3.1					
		SMN	$m_B = 5.3$	9.0	1.10				
		sS	15 51 17.0	7.8					
		LN	$M_s = 4.8$	10.0	1.50				
SNY	19.6 319	-P	15 47 25.0	-2.3					
		esS	15 51 06.0	-6.7					
		LN	$M_s = 4.4$	11.0	0.43				
		LE		12.0	0.60				
QZH	20.2 266	+P	15 47 35.0	1.3					
		PMZ	$m_B = 5.4$	5.0	0.90				
		eS	15 51 05.0	-9.0					
		sS	15 51 20.0	-5.7					
		LN	$M_s = 4.3$	8.0	0.33				
TIA	21.6 298	eP	15 47 46.9	-1.3					
		PMZ	$m_B = 5.6$	5.0	1.48				
		S	15 51 32.5	-7.7					
		sS	15 51 50.0	-4.2					
		LE	$M_s = 4.6$	10.5	0.73				
WHN	23.2 282	-P	15 48 06.0	1.8					
		PMZ	$m_B = 5.8$	5.0	1.90				
		pP	15 48 16.0	3.3					
		PP	15 48 37.0	2.3					
		eS	15 52 13.0	2.6					
		SMN	$m_B = 5.6$	6.0	1.08				
		LN	$M_s = 4.7$	9.0	0.71				
BJI	23.5 307	eP	15 48 05.5	-1.8					



			sP	04 48 24.0	-2.6				PcP	04 50 20.5	1.5		
			PcP	04 50 09.0	-0.1				S	04 54 11.0	-0.3		
			eS	04 53 18.0	-6.2				SMN	$m_B=6.2$	7.0	2.85	
			SMN			13.0	5.52		SME		7.0	1.91	
			SME			6.0	2.52		ScS	04 58 12.4	4.1		
			sS	04 54 10.0	3.1				LN		12.5	1.79	
			LN			10.0	8.19		LE		13.0	2.73	
			LE			12.0	5.30	LZH	40.8	329			
CD2	37.0	323	-iP	04 47 51.8	0.2			+iP	04 48 24.5	1.2			
			pP	04 48 17.0	0.9			pP	04 48 51.0	3.1			
			sP	04 48 29.0	-0.2			sP	04 49 04.0	3.0			
			iS	04 53 30.0	1.1			PP	04 50 04.0	2.6			
			SMN	$m_B=6.4$		8.0	6.26	PcS	04 54 10.0	-1.5			
			sS	04 54 14.0	2.3			S	04 54 29.0	3.8			
			LN			8.0	4.81	sS	04 55 12.0	2.6			
			LE			10.0	9.26	LN			8.0	6.49	
DL2	37.3	351	+iP	04 47 53.6	0.1			LE			9.0	4.76	
			PMZ	$m_B=6.4$		6.0	4.23	HHC	41.6	341	+iP	04 48 30.0	0.7
			pP	04 48 19.0	0.9			PMZ	$m_B=6.9$		4.0	7.32	
			sP	04 48 32.0	0.8			pP	04 48 55.0	1.0			
			S	04 53 35.0	3.5			sP	04 49 09.0	2.0			
			LN			13.0	6.15	PP	04 50 09.0	-0.4			
			LE			13.0	5.44	S	04 54 34.0	-2.0			
TIY	38.5	339	+iP	04 48 03.5	-0.1			SMN	$m_B=6.6$		9.0	2.91	
			PMZ			1.4	1.46	SME			9.0	10.4	
			pP	04 48 30.5	2.3			sS	04 55 19.0	-1.3			
			sP	04 48 41.0	-0.3			SS	04 57 39.0	-1.7			
			PP	04 49 40.5	4.4			LN			12.0	3.85	
			PcP	04 50 15.0	0.5			LE			12.0	2.12	
			S	04 53 51.0	1.3			CN2	41.7	357	+P	04 48 29.0	-1.3
			SMN	$m_B=6.1$		9.0	2.50	PMZ	$m_B=6.3$		6.0	2.70	
			SME			6.0	2.08	pP	04 48 55.0	-0.2			
			sS	04 54 36.0	2.4			sP	04 49 07.0	-1.2			
			LN			11.0	5.79	PcP	04 50 25.0	0.1			
BJI	39.5	345	+P	04 48 12.0	0.2			PcS	04 54 11.5	-3.5			
			epP	04 48 38.0	1.4			eS	04 54 35.0	-4.2			
			esP	04 48 50.0	0.3			sS	04 55 20.0	-2.5			
			PcP	04 50 18.0	0.4			eSS	04 57 38.0	-5.4			
			eS	04 54 04.0	-1.8			MDJ	42.5	1	+iP	04 48 36.7	0.2
			SMN	$m_B=6.2$		10.0	4.62	PMZ	$m_B=6.5$		6.0	4.91	
			SME			10.0	1.49	pP	04 49 02.5	1.1			
			PcS	04 54 05.5	-0.6			sP	04 49 13.0	-1.4			
			esS	04 54 48.0	-0.9			PcP	04 50 27.6	0.2			
			eSS	04 56 52.0	-5.2			PPP	04 50 54.0				
			ScS	04 58 10.0	4.2			PcS	04 54 21.0	3.0			
SNY	39.9	354	+iP	04 48 15.0	-0.4			iS	04 54 51.0	0.9			
			PMZ	$m_B=6.6$		5.0	5.42	SMN	$m_B=6.4$		9.0	6.51	
			pP	04 48 41.5	1.3			sS	04 55 34.0	0.5			
			sP	04 48 52.0	-1.3			SS	04 57 59.0	1.9			
			PP	04 49 45.0	-7.1			GTA	45.4	329	+iP	04 49 00.6	0.0
								PMZ	$m_B=6.8$		5.0	6.66	

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	pP	04 49 29.0	3.5			
	sP	04 49 40.0	1.6			
	PcP	04 50 38.8	1.2			
	PP	04 50 49.0	0.3			
	ScP	04 54 19.4	0.8			
	PcS	04 54 31.4	1.3			
	S	04 55 28.5	-3.6			
	ScS	04 58 43.6	1.3			
	LE			10.0	2.00	
WMQ	55.1	325	cP	04 50 13.0	-0.9	
			sP	04 50 54.0	1.6	
			PcP	04 51 15.0	2.0	
			PP	04 52 21.0	1.7	
			PPMZ		4.0	3.42
			S	04 57 48.0	2.6	
			SMN	$m_B = 6.2$	7.0	2.52
			sS	04 58 34.0	2.3	
			LN		30.0	22.9
KSH	60.4	315	+iP	04 50 51.8	0.6	
			pP	04 51 20.8	3.4	
			cS	04 58 58.8	2.4	
			cScS	05 00 27.6	1.1	
			LE		13.0	5.10

1986 8 10

O=05 39 50.3 ± 0.10s  
 LAT=36.65 N ± 1.24km  
 LONG= 76.96 E ± 1.18km  
 DEPTH= 45 km ± 0.34km  
 STATIONS USED = 21, STAND DEV= 3.11s

$M_L = 4.3 / 7,$

KSH	2.9	345	+iPg	05 40 44.8	2.5		
			Sg	05 41 19.9	-2.3		
			SMN	$M_L = 4.3$	0.2	1.40	
			SME		0.2	1.00	
WMQ	10.9	46	+iP	05 42 26.0	-0.6		
			S	05 44 20.8	-6.1		
			SMN		0.8	0.050	
GTA	18.2	74	cP	05 44 01.7	0.0		

1986 8 10

O=05 42 07.6 ± 0.15s  
 LAT= 7.53 S ± 1.51km  
 LONG=154.91 E ± 1.59km  
 DEPTH= 33 km ± 0.45km  
 STATIONS USED = 46, STAND DEV= 1.21s  
 $M_s = 4.9 / 2,$

NJ2	52.3	321	+P	05 51 19.6	1.3		
WHN	54.3	316	cP	05 51 34.0	0.9		
TIA	56.1	323	cP	05 51 45.2	-1.6		

MDJ	56.7	339	cP	05 51 49.7	-1.1		
GYA	57.7	308	P	05 52 00.8	2.7		
TIY	60.0	322	cP	05 52 12.8	-0.8		
			S	06 00 19.5	-1.5		
			LN		$M_s = 4.8$	12.0	0.28
XAN	60.0	316	P	05 52 13.2	-0.9		
KMI	60.2	304	cP	05 52 16.5	0.7		
CD2	62.1	311	cP	05 52 28.0	-0.1		
BTO	63.2	323	cP	05 52 35.5	-0.2		
LZH	64.6	316	cP	05 52 45.5	0.6		
WMQ	79.2	317	P	05 54 12.0	0.4		
KSH	86.3	310	cP	05 54 52.4	4.2		

1986 8 10

O=08 50 38.8 ± 0.10s  
 LAT=40.69 N ± 1.63km  
 LONG=140.75 E ± 1.57km  
 DEPTH= 20 km ± 0.44km  
 STATIONS USED = 40, STAND DEV= 1.79s  
 $M_s = 4.4 / 8,$

MDJ	9.1	299	cP	08 52 50.0	-2.4		
SSE	18.5	245	cP	08 54 57.0	1.2		
			csS	08 58 35.0	6.9		
			LN		$M_s = 4.5$	14.0	1.17
BJI	18.7	276	cP	08 54 58.5	-0.3		
TIA	19.0	264	cP	08 55 01.4	-1.0		
			S	08 58 38.0	8.1		
			LE		$M_s = 4.4$	10.5	0.69
NJ2	19.6	251	+P	08 55 09.2	0.4		
			LN		$M_s = 4.7$	15.0	1.80
TIY	22.1	271	cP	08 55 30.8	-4.2		
			S	08 59 29.5	-2.6		
			LN		$M_s = 4.3$	11.5	0.40
			LE			12.0	0.24
BTO	23.3	280	cP	08 55 45.0	-1.5		
XAN	26.1	265	cP	08 56 10.2	-3.0		
GYA	31.5	254	P	08 57 01.8	-0.7		

1986 8 10

O=10 39 03.0 ± 0.17s  
 LAT=25.63 N ± 1.40km  
 LONG= 99.93 E ± 1.18km  
 DEPTH= 10 km ± 0.63km  
 STATIONS USED = 12, STAND DEV= 3.60s  
 $M_L = 3.8 / 4,$

KMI	2.6	101	cPn	10 39 47.0	1.4		
			Pg	10 39 50.5	1.7		
			Sg	10 40 25.0	0.7		
			LN			6.0	1.90
GYA	6.1	81	Pn	10 40 36.2	2.3		



CD2 6.2 32 (Pn) 10 40 38.9 3.2  
XAN 11.4 41 cP 10 41 43.8 -6.1

1986 8 10

O=14 13 52.3 ± 0.12s  
LAT=33.36 N ± 1.96km  
LONG=141.05 E ± 3.19km  
DEPTH= 67 km ± 1.24km

STATIONS USED = 28, STAND DEV = 2.48s

MDJ 14.3 325 cP 14 17 11.0 -2.2  
CN2 16.0 315 cP 14 17 41.0 6.0  
BTO 25.7 295 cP 14 19 19.2 0.6  
XAN 26.7 280 cP 14 19 26.0 -1.4  
GTA 33.5 292 cP 14 20 26.9 -1.2  
WMQ 42.3 300 P 14 21 42.6 0.8

1986 8 10

O=17 47 55.3 ± 0.15s  
LAT=38.51 N ± 2.06km  
LONG= 43.31 E ± 1.66km  
DEPTH= 41 km ± 0.91km

STATIONS USED = 40, STAND DEV = 1.97s

KSH 25.3 78 cP 17 53 21.2 0.6  
cPPP 17 54 12.0  
cS 17 57 44.0 2.3  
WMQ 33.5 66 +P 17 54 33.5 -0.2  
LZH 47.5 73 cP 17 56 28.5 -0.1  
CD2 49.5 80 cP 17 56 43.9 -0.5  
BTO 50.3 65 cP 17 56 51.2 0.2  
HHC 51.4 64 P 17 56 59.0 0.4  
XAN 52.1 73 P 17 57 03.0 -1.0  
TIY 53.2 68 cP 17 57 11.0 -1.2  
GYA 53.8 83 P 17 57 13.8 -3.3  
BJI 54.9 64 cP 17 57 23.0 -1.9  
WHN 57.8 75 cP 17 57 49.0 3.8

1986 8 10

O=21 13 18.9 ± 0.10s  
LAT= 3.56 S ± 1.67km  
LONG=131.40 E ± 2.77km  
DEPTH= 39 km ± 0.89km

STATIONS USED = 27, STAND DEV = 1.88s

GYA 38.3 323 P 21 20 37.8 0.3  
XAN 43.0 332 cP 21 21 16.0 -0.6  
CD2 43.2 324 cP 21 21 18.4 -0.3  
TIY 44.7 338 P 21 21 33.2 2.9  
BJI 45.6 344 cP 21 21 37.5 0.1  
LZH 47.1 329 cP 21 21 50.0 0.4  
GTA 51.7 329 +P 21 22 24.5 -0.5  
WMQ 61.3 325 -iP 21 23 34.5 0.8

KSH 66.5 316 cP 21 24 12.0 4.8

1986 8 11

O=00 52 47.6 ± 0.42s  
LAT=37.07 N ± 3.09km  
LONG=126.24 E ± 2.68km  
DEPTH= 25 km

STATIONS USED = 9, STAND DEV = 3.92s

$M_L = 4.3 / 8,$

DL2 4.1 298 Pg 00 54 01.0 1.3  
S 00 54 44.0 6.6  
SMN  $M_L = 4.3$  1.0 0.86  
SME 1.0 0.45  
SNY 5.2 337 cPn 00 54 01.0 -3.1  
Pg 00 54 18.4 -0.7  
Sg 00 55 22.8 -7.1  
SMN  $M_L = 4.4$  1.1 0.28  
SME 1.1 0.54  
CN2 6.7 355 cPg 00 54 49.2 2.2  
SMN  $M_L = 4.3$  1.0 0.10  
SME 1.0 0.20  
MDJ 8.0 18 cPg 00 55 12.5 4.3  
SMN  $M_L = 4.5$  1.2 0.14

1986 8 11

O=02 29 22.6 ± 0.10s  
LAT=27.29 N ± 0.90km  
LONG=101.34 E ± 1.05km  
DEPTH= 19 km ± 0.37km

STATIONS USED = 23, STAND DEV = 2.38s

$M_s = 4.2 / 3, M_L = 3.7 / 12,$

KMI 2.5 149 cPg 02 30 09.0 1.9  
Sg 02 30 42.0 1.0  
LN 6.0 2.00  
CD2 4.2 30 cPn 02 30 28.0 1.9  
Pg 02 30 34.6 -2.0  
Sg 02 31 30.3 -3.6  
SMN  $M_L = 4.3$  0.6 0.52  
SME 0.6 0.52  
LE  $M_s = 4.2$  7.0 3.15  
GYA 4.8 99 Pn 02 30 37.0 2.0  
Pg 02 30 56.2 8.3  
Sg 02 31 55.6 1.6  
SMN  $M_L = 4.0$  1.4 0.24  
SME 1.4 0.12  
LN  $M_s = 3.6$  8.0 0.54  
LE 8.0 0.57  
XAN 9.4 42 cP 02 31 38.0 -2.2  
LG<sub>1</sub> 02 34 10.0 -7.1  
LG<sub>2</sub> 02 34 22.0 -10.0

		LN	Ms=4.3	4.0	0.64			LE			
WHN	11.9	71	P	02 32 15.0	0.9	GZH	7.8	277	-iP	08 07 46.5	-1.9
								S	08 09 05.5	-9.7	
1986 8 11								LN		5.0	12.3
O=02 50 36.7 ± 0.05s								LE		4.0	5.97
LAT=18.33 S ± 1.09km						SSE	8.7	357	-P	08 08 01.2	0.0
LONG=168.16 E ± 1.22km								eS	08 09 39.0	0.6	
DEPTH= 22 km ± 0.17km								LG <sub>1</sub>	08 10 35.5	4.5	
STATIONS USED = 27, STAND DEV = 1.16s								LE		10.0	4.67
MDJ	71.8	332	+P	03 02 00.6	0.1	NJ2	10.0	346	-P	08 08 18.2	0.0
CN2	73.2	329	+P	03 02 07.2	-1.1			S	08 10 12.0	3.3	
BJI	75.6	321	eP	03 02 22.0	-0.4			LG <sub>1</sub>	08 11 04.0	-7.0	
XAN	76.7	313	eP	03 02 28.4	-0.6			LE		4.0	4.70
GTA	85.8	314	P	03 03 16.7	0.1	WHN	10.5	323	-iP	08 08 25.0	0.1
WMQ	95.8	314	-P	03 04 03.8	0.1			sP	08 08 57.0	-0.5	
1986 8 11								iS	08 10 14.5	-6.4	
O=06 31 12.0 ± 0.05s								LG <sub>1</sub>	08 11 25.0	-1.7	
LAT=15.00 N ± 0.75km								LN		8.0	6.36
LONG=147.18 E ± 1.53km								LE		4.0	6.58
DEPTH= 34 km ± 0.58km						GYA	14.3	290	P	08 09 14.6	-0.2
STATIONS USED = 16, STAND DEV = 0.97s								sP	08 09 49.0	-0.2	
XAN	39.3	306	eP	06 38 39.5	-0.7			S	08 11 44.0	-6.3	
GYA	39.4	293	P	06 38 42.0	1.1			LN		6.0	6.30
BTO	41.1	316	eP	06 38 55.6	0.4			LE		6.0	3.30
WMQ	57.8	313	-iP	06 41 03.5	0.4	TIA	14.4	345	eP	08 09 16.9	1.4
1986 8 11								esP	08 09 51.6	1.5	
O=06 58 04.5 ± 0.29s								eS	08 11 47.5	-4.9	
LAT=14.71 S ± 5.70km								SME	m <sub>B</sub> =4.9	7.0	0.42
LONG= 66.43 E ± 3.56km								LN		5.0	0.77
DEPTH= 10 km ± 0.49km								LE		6.0	4.67
STATIONS USED = 17, STAND DEV = 2.04s						XAN	16.2	319	eP	08 09 38.9	0.4
GYA	56.6	44	P	07 08 01.0	11.1			sP	08 10 15.0	1.1	
CD2	57.8	38	eP	07 07 58.4	-0.9			S	08 12 37.0	3.6	
WMQ	61.4	17	P	07 08 23.5	-0.5			SMN	m <sub>B</sub> =5.5	7.0	1.08
			(S)	07 16 47.0	3.3			SME		10.0	0.85
GTA	62.2	29	eP	07 08 28.4	-1.0			LG <sub>1</sub>	08 14 24.0	-1.9	
XAN	63.1	39	eP	07 08 32.0	-3.5			LN		6.0	3.78
TIY	67.7	38	eP	07 09 05.5	0.5			LE		6.0	2.47
1986 8 11						DL2	16.5	360	eP	08 09 44.5	2.4
O=08 05 56.4 ± 0.09s								sP	08 10 20.0	2.2	
LAT=22.33 N ± 1.36km								S	08 12 50.0	9.7	
LONG=121.74 E ± 1.40km								LE		11.0	1.83
DEPTH=126 km ± 0.71km						TIY	17.3	334	+P	08 09 53.0	1.3
STATIONS USED = 92, STAND DEV = 1.70s								PMZ		1.0	0.15
m <sub>B</sub> =5.6/14								SMN	m <sub>B</sub> =5.4	8.0	0.90
QZH	3.9	313	+iP	08 06 53.3	-2.4			SME		10.0	0.72
			sP	08 07 21.5	-3.0			LN		13.0	3.02
								LE		11.0	2.19
						KMI	17.6	283	-iP	08 09 56.0	0.4
								PMZ	m <sub>B</sub> =5.8	4.0	1.90



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			LN		Ms=4.7	13.0	1.43	WHN	12.1	330	cP	10 40 50.0	-1.6		
			LE			13.0	0.56				sP	10 41 02.0	-1.3		
CD2	19.2	307	cP	09 40 11.0	-1.1						eS	10 43 06.0	-0.5		
			eS	09 43 37.0	-7.0						LN		Ms=5.2	13.0	9.40
			LE		Ms=4.8	13.0	1.93				LE			13.0	6.90
BJI	20.4	348	cP	09 40 24.0	-0.7			GYA	14.8	298	P	10 41 27.8	-0.1		
			eS	09 44 12.0	3.4						pP	10 41 35.0	0.2		
			LN		Ms=4.4	18.0	0.86				PP	10 41 38.0	-1.6		
SNY	21.7	4	+P	09 40 38.4	-0.1						S	10 44 12.0	0.8		
			S	09 44 36.0	2.0						LN		Ms=5.1	14.0	3.80
			LN		Ms=4.7	16.0	1.23				LE			14.0	5.50
			LE			18.0	1.23	TIA	16.4	348	cP	10 41 49.0	0.8		
BTO	22.6	337	cP	09 40 48.4	0.6						esP	10 42 02.0	2.0		
			ePP	09 41 15.0	-0.3						cS	10 44 55.0	6.1		
			S	09 44 48.0	-2.9						LN		Ms=5.1	17.0	1.23
			LN		Ms=4.8	14.0	1.30				LE			16.0	5.93
			LE			14.0	0.70	XAN	17.7	324	cP	10 42 03.1	-0.8		
CN2	23.8	7	cP	09 40 59.6	0.1						pP	10 42 11.0	-0.2		
MDJ	25.3	14	cP	09 41 14.5	0.5						SMN		m <sub>B</sub> =5.6	9.0	1.24
			eS	09 45 40.0	1.4						SME			2.0	1.02
			LE		Ms=4.8	20.0	1.75				SS	10 45 46.0	7.0		
GTA	26.8	321	cP	09 41 27.5	0.2						LN		Ms=5.3	14.0	6.46
			eS	09 46 02.5	0.2						LE			14.0	2.70
			LN		Ms=4.5	14.0	0.60	KMI	17.8	290	+P	10 42 08.0	2.0		
WMQ	36.7	318	cP	09 42 51.0	-3.9						pP	10 42 14.0	0.8		
KSH	43.4	307	cP	09 43 50.0	-0.1						PP	10 42 22.0	1.8		
											eS	10 45 24.0	2.6		
											sS	10 45 35.0	2.3		
											LE		Ms=5.2	14.0	6.20
								DL2	18.7	1	cP	10 42 16.0	-0.6		
											eS	10 45 34.0	-6.8		
											LN		Ms=4.9	14.0	2.70
								CD2	19.1	308	-P	10 42 23.0	1.7		
											eS	10 45 51.0	1.5		
											LN		Ms=5.3	15.0	7.56
								TIY	19.1	338	+P	10 42 23.5	1.7		
											PMZ			1.2	0.10
											pP	10 42 33.0	3.8		
											S	10 45 58.0	8.3		
GZH	7.9	293	ePn	10 39 50.0	-2.2						SMN		m <sub>B</sub> =5.6	9.0	1.82
			iSn	10 41 14.4	-8.6						SME			8.0	0.93
			LN		Ms=5.0	16.0	7.28				LN		Ms=5.2	12.0	4.41
			LE			15.0	15.3	BJI	20.3	349	cP	10 42 33.0	-1.6		
SSE	10.9	360	cP	10 40 35.2	-0.3						eS	10 46 12.0	-4.0		
			LG <sub>2</sub>	10 44 05.0	7.0						esS	10 46 28.0	0.0		
			LN		Ms=4.7	14.0	3.15				LN		Ms=5.0	14.0	3.08
			LE			12.0	1.75				LE			14.0	0.75
NJ2	12.0	350	cP	10 40 54.5	3.4			SNY	21.7	5	+P	10 42 47.0	-1.8		
			S	10 43 06.0	1.0						S	10 46 36.0	-5.7		
			LN		Ms=5.0	15.0	8.50				LN		Ms=5.2	17.0	3.89

1986 8 11

O=10 37 58.5

± 0.11s

LAT=20.15 N

± 1.45km

LONG=121.28 E

± 1.86km

DEPTH=32 km

± 0.21km

STATIONS USED = 89, STAND DEV = 1.74s

Ms=5.1/40, M<sub>L</sub>=4.6/4, m<sub>B</sub>=5.3/6

QZH 5.4 333 ePn 10 39 16.3 -0.6

SMN M<sub>L</sub>=3.9 0.7 0.12

SME 0.5 0.12

LN Ms=4.7 15.0 13.0

LE 15.0 6.50

GZH 7.9 293 ePn 10 39 50.0 -2.2

iSn 10 41 14.4 -8.6

LN Ms=5.0 16.0 7.28

LE 15.0 15.3

SSE 10.9 360 cP 10 40 35.2 -0.3

LG<sub>2</sub> 10 44 05.0 7.0

LN Ms=4.7 14.0 3.15

LE 12.0 1.75

NJ2 12.0 350 cP 10 40 54.5 3.4

S 10 43 06.0 1.0

LN Ms=5.0 15.0 8.50

			LE		18.0	3.63			PMZ		1.0	0.020		
LZH	22.0	320	eP	10 42 53.0	0.4				csS	17 12 21.0	-1.7			
			eS	10 46 47.0	-2.2			WHN	30.9	338	eP	17 07 05.0	0.4	
			LN	Ms=5.2		12.0	3.20	NJ2	30.9	346	+P	17 07 05.8	0.9	
HHC	22.2	340	+P	10 42 56.4	2.0			TIA	35.3	346	eP	17 07 42.5	-0.1	
			pP	10 43 07.0	4.1			XAN	36.2	334	eP	17 07 49.6	-0.3	
			S	10 46 57.0	5.4			CD2	36.3	325	eP	17 07 50.6	-0.5	
			LN	Ms=5.3		12.0	4.12	TIY	38.1	341	-P	17 08 06.5	0.7	
			LE			12.0	0.48				PMZ		1.0	0.11
BTO	22.5	337	-P	10 42 58.5	1.1			BJI	39.2	347	eP	17 08 15.0	0.0	
			pP	10 43 08.0	2.1			LZH	40.3	330	-P	17 08 24.5	0.7	
			PP	10 43 28.0	3.0			HHC	41.2	342	-iP	17 08 32.8	1.1	
			S	10 47 00.0	2.9			BTO	41.5	340	eP	17 08 34.0	0.1	
			sS	10 47 14.0	2.1						cpP	17 09 05.0	4.2	
			LN	Ms=5.3		14.0	4.70				eS	17 14 42.0	1.6	
			LE			14.0	2.10	CN2	41.7	358	eP	17 08 34.2	-1.3	
CN2	23.8	7	+P	10 43 08.8	-1.1			MDJ	42.5	3	eP	17 08 42.5	0.1	
			PMZ			3.0	0.50	GTA	44.8	330	-iP	17 09 01.1	0.0	
			sP	10 43 18.0	-4.6			WMQ	54.4	326	-iP	17 10 14.2	-0.1	
			eS	10 47 20.0	-0.8			KSH	59.6	316	-P	17 10 53.0	2.3	
MDJ	25.4	14	P	10 43 23.9	-0.7						S	17 18 54.0	5.5	
			sP	10 43 37.0	-0.3									
			eS	10 47 44.0	-2.6									
			LN	Ms=5.2		20.0	4.59							
GTA	26.6	321	eP	10 43 35.0	-1.6									
			sP	10 43 47.0	-2.2									
			S	10 48 11.5	4.7									
			SMN			19.0	1.80							
			LN	Ms=5.1		15.0	2.49							
WMQ	36.6	318	+P	10 45 05.5	1.4									
			pP	10 45 15.3	2.3									
			PcP	10 47 25.8	-0.8									
			S	10 50 48.0	4.5									
			ScP	10 51 10.0	0.5									
			ScS	10 55 16.8	2.1									
			LN	Ms=5.6		16.0	5.07							
			LE			16.0	2.68							
KSH	43.2	307	eP	10 46 04.0	4.8									
			pP	10 46 13.0	4.7									
			ePP	10 47 51.0	9.2									
			S	10 52 32.0	9.0									
1986 8 11														
O=17 00 56.8 ± 0.10s														
LAT= 1.95 N ± 1.04km														
LONG=127.17 E ± 1.80km														
DEPTH=121 km ± 0.99km														
STATIONS USED = 69, STAND DEV= 1.04s														
GZH	24.9	329	+P	17 06 10.0	-0.4									
SSE	29.5	350	P	17 06 52.4	0.0									
1986 8 11														
O=18 19 57.8 ± 0.09s														
LAT=39.59 N ± 1.55km														
LONG= 75.15 E ± 0.39km														
DEPTH= 21 km ± 1.04km														
STATIONS USED = 9, STAND DEV= 2.67s														
M <sub>L</sub> =4.0 / 4,														
KSH	0.7	102	+iPg	18 20 11.4	1.2									
			Sg	18 20 26.0	6.6									
			SMN	M <sub>L</sub> =4.0	0.8	8.20								
			SME		0.7	4.90								
WMQ	10.3	62	eP	18 22 28.0	0.2									
			S	18 24 22.7	-0.5									
			LG <sub>1</sub>	18 25 12.0	-9.0									
			LG <sub>2</sub>	18 25 30.4	-6.9									
GTA	19.0	83	eP	18 24 21.2	-0.4									
1986 8 11														
O=19 58 41.1 ± 0.13s														
LAT=27.44 N ± 1.50km														
LONG=101.40 E ± 1.33km														
DEPTH= 24 km ± 0.08km														
STATIONS USED = 67, STAND DEV= 2.56s														
Ms=4.7 / 33, M <sub>L</sub> =4.5 / 5,														
KMI	2.6	152	ePn	19 59 25.0	2.5									
			Pg	19 59 32.0	4.8									
			S*	19 59 58.0	1.7									
			Sg	20 00 06.0	3.1									



LAT=37.24 N ± 1.33km  
 LONG=141.97 E ± 1.15km  
 DEPTH= 43 km ± 1.27km  
 STATIONS USED = 12, STAND DEV= 2.39s  
 GYA 31.7 260 eP 01 03 13.6 -0.2  
 GTA 32.9 287 eP 01 03 30.8 6.2

1986 8 12  
 O=00 59 28.4 ± 0.06s  
 LAT=24.06 S ± 1.33km  
 LONG=177.10 W ± 1.46km  
 DEPTH= 35 km ± 0.37km  
 STATIONS USED = 15, STAND DEV= 1.66s  
 CN2 85.6 322 eP 01 12 09.0 3.7  
 XAN 90.9 307 eP 01 12 32.5 1.6

1986 8 12  
 O=04 07 17.4 ± 0.17s  
 LAT= 6.08 N ± 3.49km  
 LONG= 82.60 W ± 2.65km  
 DEPTH= 8 km ± 1.23km  
 STATIONS USED = 32, STAND DEV= 2.92s  
 WMQ 129.6 9 PKP 04 26 38.5 11.3  
 KSH 130.6 22 ePKP 04 26 38.0 7.6  
 BJI 131.0 341 (PKP) 04 26 34.0 3.0  
 ePP 04 28 46.0 -4.8  
 GTA 134.7 357 ePKP 04 26 37.8 -0.4  
 PP 04 29 11.3 -2.9  
 XAN 138.6 345 ePKP 04 26 47.3 2.0  
 WHN 140.1 337 ePKP 04 26 53.0 5.0  
 CD2 142.7 351 ePKP 04 27 02.6 11.4  
 GYA 146.4 345 PKP 04 27 01.0 2.0  
 GZH 147.1 332 PKP 04 27 03.5 3.5  
 KMI 148.6 351 +PKP 04 27 15.0 13.9

1986 8 12  
 O=05 09 07.1 ± 0.11s  
 LAT= 0.04 N ± 2.23km  
 LONG=100.08 E ± 3.01km  
 DEPTH= 47 km ± 0.91km  
 STATIONS USED = 74, STAND DEV= 1.83s  
 Ms=5.8/32, m<sub>B</sub>=5.3/3  
 KMI 25.1 6 +P 05 14 30.0 0.7  
 GZH 26.3 28 P 05 14 41.0 0.6  
 cS 05 19 15.0 7.6  
 LN Ms=5.8 14.0 5.65  
 LE 14.0 10.3  
 GYA 27.0 13 P 05 14 48.4 1.1  
 pP 05 14 59.0 0.4  
 S 05 19 22.0 3.4

SMN m<sub>B</sub>=5.6 9.0 1.10  
 SME 9.0 1.20  
 ScP 05 21 40.0 -1.9  
 LN Ms=5.8 12.0 9.50  
 LE 12.0 4.10  
 QZH 30.6 35 eP 05 15 19.1 0.3  
 eS 05 20 22.0 6.2  
 sS 05 20 36.0 0.0  
 LE Ms=5.4 16.0 4.38  
 CD2 30.9 6 eP 05 15 22.0 0.1  
 (S) 05 20 20.0 -1.3  
 LE Ms=5.8 10.0 6.65  
 WHN 33.2 23 eP 05 15 41.0 -1.2  
 pP 05 15 54.0 0.0  
 cS 05 20 58.0 0.3  
 LE Ms=5.7 12.0 6.20  
 XAN 34.8 13 P 05 15 53.8 -2.2  
 S 05 21 21.0 -0.5  
 sS 05 21 37.0 -5.6  
 SS 05 23 34.0 -3.0  
 LN Ms=5.9 14.0 8.84  
 LE 14.0 2.03  
 LZH 36.0 5 eP 05 16 05.5 -0.9  
 eS 05 21 45.0 3.6  
 LN Ms=5.8 11.0 4.40  
 LE 10.0 3.20  
 GTA 39.2 360 +iP 05 16 31.8 -0.9  
 cS 05 22 29.5 0.1  
 LE Ms=5.7 13.0 5.21  
 TIY 39.2 16 P 05 16 33.0 0.3  
 PP 05 18 10.0 3.3  
 S 05 22 31.0 2.9  
 SS 05 25 22.0 7.0  
 LN Ms=5.8 12.0 4.75  
 LE 13.0 2.78  
 TIA 39.3 22 eP 05 16 31.4 -2.3  
 eS 05 22 33.5 2.3  
 SME m<sub>B</sub>=5.2 9.0 0.36  
 eScS 05 26 32.0 -3.0  
 LN Ms=5.8 12.0 1.11  
 LE 12.0 5.03  
 BTO 41.4 11 eP 05 16 49.0 -1.8  
 epP 05 17 07.0 4.4  
 ePP 05 18 30.0 0.7  
 S 05 23 00.0 -0.7  
 LN Ms=5.9 14.0 6.00  
 LE 12.0 2.30  
 HHC 41.9 13 P 05 16 57.6 2.1  
 PP 05 18 34.0 -1.7  
 cS 05 23 14.0 3.7

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			sS	05 23 30.0	-0.5				LN	Ms=5.6	8.0	11.2
			LN			Ms=5.9	12.0	5.31	LE		10.0	25.3
			LE				12.0	1.91	XAN	9.1	43	
BJI	42.4	18	eP	05 16 59.0	-0.4				eP	10 48 05.5		-1.1
			eS	05 23 22.0	4.7				S	10 49 43.0		-7.7
			LN			Ms=5.6	12.0	1.32	sS	10 49 50.0		-7.7
			LE				15.0	3.33	LG <sub>1</sub>	10 50 41.0		2.8
DL2	43.4	25	eP	05 17 09.0	1.4				LN	Ms=5.3	11.0	15.9
			S	05 23 36.0	5.0				LE		11.0	9.09
			LN			Ms=5.6	12.0	1.34	GZH	11.6	110	
			LE				14.0	2.73	-P	10 48 37.5		-2.7
WMQ	45.0	347	-P	05 17 19.5	-0.5				pP	10 48 42.5		-1.7
			pP	05 17 30.0	-2.0				S	10 50 43.6		-7.2
			FcP	05 18 56.5	-3.6				LG <sub>1</sub>	10 52 01.0		5.8
			S	05 23 59.0	5.8				LN	Ms=5.8	10.0	29.2
KSH	45.0	333	-P	05 17 20.6	0.3				LE		10.0	14.6
			pP	05 17 32.0	-0.2				WLN	11.7	72	
			PP	05 19 02.6	-3.4				eP	10 48 40.5		-0.7
			eS	05 23 56.0	1.2				sP	10 48 51.0		2.7
SNY	46.7	24	eP	05 17 31.2	-2.4				iS	10 50 55.0		1.9
CN2	49.1	24	eP	05 17 50.0	-2.4				LG <sub>1</sub>	10 52 04.0		6.4
			pP	05 18 01.5	-2.9				LN	Ms=5.5	8.0	11.8
			PP	05 19 47.5	2.0				LE		8.0	8.70
			eS	05 24 48.0	-4.8				GTA	12.0	354	
MDJ	51.5	27	eP	05 18 17.1	6.2				eP	10 48 45.0		-0.4
									LG <sub>1</sub>	10 52 13.0		6.1
									LN	Ms=5.4	9.5	9.81
									LE		8.5	4.88
									TIY	13.8	39	
									eP	10 49 09.0		-0.1
									S	10 51 36.5		-6.2
									SS	10 52 04.0		5.7
									LG <sub>1</sub>	10 53 09.0		6.3
									LN	Ms=5.5	8.0	4.97
									LE		10.0	9.74
									BTO	14.9	26	
									P	10 49 21.5		-2.2
									LG <sub>1</sub>	10 53 30.0		-7.7
									LG <sub>2</sub>	10 53 53.0		-8.2
									LN	Ms=5.2	11.0	3.40
									LE		11.0	6.10
									QZH	15.6	95	
									+P	10 49 30.7		-2.1
									eS	10 52 22.0		-4.4
									sS	10 52 32.0		-0.8
									LN	Ms=5.4	12.0	9.61
									HHC	15.7	29	
									eP	10 49 36.0		1.2
									pP	10 49 41.0		2.3
									S	10 52 37.0		7.9
									LN	Ms=5.3	9.0	5.96
									LE		9.0	2.02
									NJ2	15.8	69	
									+P	10 49 35.0		-0.3
									S	10 52 28.0		-2.3
									LE	Ms=5.3	9.0	6.10
									TIA	15.9	53	
									eP	10 49 35.3		-1.5
									PMZ	m <sub>B</sub> =5.4	5.0	0.95
									esP	10 49 44.0		-0.3

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O=10 45 50.8 ± 0.12s

LAT=27.48 N ± 1.34km

LONG=101.47 E ± 1.34km

DEPTH= 6 km ± 0.16km

STATIONS USED = 87, STAND DEV = 2.29s

Ms=5.4/38, M<sub>L</sub>=4.9/5, m<sub>B</sub>=5.4/8

KMI	2.6	154	-Pn	10 46 36.0	1.9							
			Sg	10 47 18.0	5.3							
			LN			6.0	55.1		QZH	15.6	95	
			LE			6.0	47.8		eS	10 52 22.0		-4.4
CD2	4.0	30	cPn	10 46 57.8	5.4				sS	10 52 32.0		-0.8
			Sn	10 47 47.0	5.9				LN	Ms=5.4	12.0	9.61
			LE			Ms=5.8	5.0	93.6	HHC	15.7	29	
GYA	4.7	101	+Pn	10 47 06.6	3.3				eP	10 49 36.0		1.2
			Pg	10 47 23.0	8.4				pP	10 49 41.0		2.3
			Sn	10 48 03.0	2.4				S	10 52 37.0		7.9
			Sg	10 48 25.6	6.1				LN	Ms=5.3	9.0	5.96
			LN			Ms=5.5	8.0	47.2	LE		9.0	2.02
			LE				8.0	27.3	NJ2	15.8	69	
LZH	8.8	13	eP	10 48 04.0	2.0				+P	10 49 35.0		-0.3
			eS	10 49 45.0	2.2				S	10 52 28.0		-2.3
			LG <sub>1</sub>	10 50 22.0	-5.6				LE	Ms=5.3	9.0	6.10
			LG <sub>2</sub>	10 50 38.0	-3.5				TIA	15.9	53	
									eP	10 49 35.3		-1.5
									PMZ	m <sub>B</sub> =5.4	5.0	0.95
									esP	10 49 44.0		-0.3



	eS	10 52 34.5	0.9		GTA	44.5	329	cP	16 17 46.0	-1.7		
	SMN	$m_B = 5.4$	5.0	0.31								
	SME		6.0	1.52								
BJI	17.5	40	cP	10 49 57.0	0.1							
	eS	10 53 10.0	-0.3									
	LN	$M_s = 5.5$	14.0	10.6								
	LE		14.0	8.46								
WMQ	19.7	329	-P	10 50 23.0	-1.3							
	PP	10 50 43.8	1.8									
	eS	10 53 58.0	-3.6									
DL2	20.3	51	cP	10 50 32.0	1.5							
	pP	10 50 38.5	3.4									
	S	10 54 18.5	5.6									
	LN	$M_s = 5.1$	10.0	1.97								
	LE		12.0	2.71								
SNY	23.1	46	+P	10 50 58.2	0.0							
	PMZ	$m_B = 5.6$	5.0	1.20								
	sP	10 51 09.0	3.2									
	S	10 55 07.0	2.5									
	SMN	$m_B = 5.4$	8.5	0.98								
	SME		7.0	0.84								
	LN	$M_s = 5.4$	19.0	6.95								
	LE		21.0	3.75								
KSH	24.3	306	+iP	10 51 12.8	2.3							
	sP	10 51 23.0	5.1									
	eS	10 55 30.0	2.8									
	sS	10 55 41.0	6.3									
	LE	$M_s = 5.6$	14.0	9.60								
CN2	25.3	44	+P	10 51 21.4	1.8							
	eS	10 55 49.0	5.8									
	sS	10 56 00.0	9.0									
MDJ	28.2	45	cP	10 51 48.5	1.4							
	eS	10 56 33.0	0.9									
	LN	$M_s = 5.3$	20.0	4.81								
1986 8 12												
	O=16 09 37.2		$\pm 0.15s$									
	LAT= 2.54 N		$\pm 1.81km$									
	LONG=127.48 E		$\pm 3.31km$									
	DEPTH= 33 km		$\pm 0.78km$									
	STATIONS USED = 34,		STAND DEV= 2.72s									
QZH	23.9	340	cP	16 14 47.4	-1.2							
GZH	24.6	327	cP	16 14 54.5	-1.2							
WHN	30.5	337	cP	16 15 53.1	3.4							
XAN	35.8	333	cP	16 16 32.1	-3.7							
TIY	37.6	340	cP	16 16 56.8	5.6							
BJI	38.7	346	cP	16 17 00.0	-0.1							
SNY	39.3	355	cP	16 17 06.0	1.3							
HHC	40.7	341	cP	16 17 10.0	-7.2							
MDJ	41.9	2	cP	16 17 27.0	0.2							
1986 8 13												
	O=00 29 01.8		$\pm 0.15s$									
	LAT=27.40 N		$\pm 1.45km$									
	LONG=101.36 E		$\pm 1.37km$									
	DEPTH= 37 km		$\pm 0.20km$									
	STATIONS USED = 21,		STAND DEV= 3.33s									
	$M_s = 4.1 / 3,$		$M_L = 3.9 / 11,$									
KMI	2.6	151	cPn	00 29 44.0	2.3							
			Sn	00 30 17.0	4.1							
			SME								6.0	2.00
CD2	4.1	30	cPn	00 30 05.5	3.5							
			Pg	00 30 19.1	5.1							
			Sg	00 31 06.2	-3.7							
			SMN	$M_L = 4.3$	1.0	0.59						
			SME		1.0	0.64						
			LE	$M_s = 4.1$	7.0	2.74						
GYA	4.8	100	Pn	00 30 18.0	5.6							
			Pg	00 30 33.0	5.8							
			Sn	00 31 11.0	2.6							
			Sg	00 31 32.6	-0.8							
			SMN	$M_L = 3.9$	1.2	0.16						
			SME		1.2	0.13						
			LN	$M_s = 3.6$	8.0	0.70						
			LE		8.0	0.40						
XAN	9.3	43	cP	00 31 14.7	-1.6							
			S	00 32 54.0	-6.1							
			LG <sub>1</sub>	00 33 54.0	0.8							
			LN	$M_s = 4.2$	5.0	0.64						
WHN	11.8	72	cP	00 31 51.0	0.3							
			cS	00 33 55.5	-6.5							
1986 8 13												
	O=02 31 59.1		$\pm 0.21s$									
	LAT=27.35 N		$\pm 1.80km$									
	LONG=101.50 E		$\pm 1.94km$									
	DEPTH= 27 km		$\pm 0.36km$									
	STATIONS USED = 49,		STAND DEV= 2.67s									
	$M_s = 4.2 / 17,$		$M_L = 4.2 / 9,$									
KMI	2.5	153	P*	02 32 43.0	2.8							
			Sn	02 33 14.0	4.7							
			Sg	02 33 17.0	-0.2							
			LN								6.0	6.70
CD2	4.1	29	cPn	02 33 03.7	3.7							
			Pg	02 33 14.5	3.6							
			Sn	02 33 53.0	4.6							
			Sg	02 34 03.5	-3.0							
			LN	$M_s = 4.5$	7.0	7.54						
GYA	4.7	100	Pn	02 33 11.6	2.8							



LAT= 7.69 N	± 2.05km			
LONG= 74.74 W	± 2.32km			
DEPTH= 60 km	± 1.22km			
STATIONS USED = 49, STAND DEV = 1.77s				
SNY	128.0	343	ePKP	15 46 22.6 0.8
HHC	131.4	354	ePKP	15 46 31.0 2.5
BJI	131.5	349	ePKP	15 46 29.0 0.5
GTA	132.9	6	PKP	15 46 32.5 1.1
XAN	138.4	355	ePKP	15 46 42.6 1.2
NJ2	138.4	343	+PKP	15 46 40.5 -0.9
SSE	138.5	339	PKP	15 46 42.5 0.9
WHN	141.0	347	ePKP	15 46 47.5 1.4
CD2	141.6	2	ePKP	15 46 49.0 1.8
GYA	146.0	358	-PKP	15 46 57.0 2.1
KMI	147.3	4	ePKP	15 46 59.0 1.8
GZH	148.4	346	+iPKP	15 47 04.5 5.8
1986 8 13				
O=19 46 31.5	± 0.08s			
LAT=42.08 N	± 0.83km			
LONG= 84.63 E	± 0.59km			
DEPTH= 36 km	± 0.16km			
STATIONS USED = 10, STAND DEV = 2.88s				
				$M_L = 3.4 / 8,$
WMQ	2.8	51	+iPn	19 47 17.6 2.7
			Pg	19 47 21.6 -0.4
			Sg	19 47 56.8 -4.4
			SMN	$M_L = 3.5$ 1.0 0.19
1986 8 14				
O=07 08 10.5	± 0.05s			
LAT=42.41 N	± 0.87km			
LONG=143.09 E	± 0.61km			
DEPTH= 101 km	± 0.36km			
STATIONS USED = 19, STAND DEV = 0.96s				
MDJ	10.0	287	eP	07 10 35.0 1.6
BJI	20.4	272	eP	07 12 40.0 -1.1
WMQ	39.8	292	P	07 15 36.3 0.4
1986 8 14				
O=14 28 51.6	± 0.17s			
LAT=51.58 N	± 2.67km			
LONG=175.14 W	± 1.53km			
DEPTH= 39 km	± 1.57km			
STATIONS USED = 30, STAND DEV = 1.58s				
SNY	42.0	282	-P	14 36 41.8 0.7
DL2	44.9	279	P	14 37 05.0 0.1
BJI	47.6	284	eP	14 37 26.0 0.3
TIA	49.4	280	eP	14 37 40.1 0.1
SSE	50.3	272	eP	14 37 45.8 -1.0

			PMZ		
NJ2	51.1	274	+P	14 37 52.3	-0.6
XAN	55.9	283	P	14 38 27.3	-0.9
GYA	62.6	279	P	14 39 14.3	-0.4
1986 8 14					
O=19 39 13.0	± 0.11s				
LAT= 1.89 N	± 1.69km				
LONG=126.54 E	± 1.93km				
DEPTH= 33 km	± 0.16km				
STATIONS USED = 98, STAND DEV = 1.36s					
					$M_s = 7.1 / 31,$
					$m_B = 7.0 / 18$
QZH	24.2	342	-iP	19 44 27.0	-0.5
			PMZ	$m_B = 6.7$	11.0 35.2
			sP	19 44 43.0	2.6
			iS	19 48 40.0	-0.8
			SME		22.0 238
GZH	24.7	330	-iP	19 44 32.4	0.2
			iS	19 48 46.0	-3.1
			LN	$M_s = 6.8$	11.0 69.6
			LE		9.0 62.8
SSE	29.5	351	-iP	19 45 16.0	-0.5
			pP	19 45 26.0	0.4
			PP	19 46 12.0	-0.2
			S	19 50 07.0	0.1
WHN	30.7	339	-P	19 45 27.0	-0.8
NJ2	30.9	347	-iP	19 45 29.0	0.2
			PMZ	$m_B = 6.9$	12.0 23.0
			S	19 50 29.0	0.4
GYA	31.0	324	-P	19 45 29.0	-1.2
			PMZ	$m_B = 6.6$	7.0 8.10
			sP	19 45 46.0	2.8
			S	19 50 27.0	-3.9
			SMN		13.0 50.7
			SME		13.0 30.6
			sS	19 50 43.0	-4.0
			ScP	19 52 04.0	-0.1
			LN	$M_s = 7.2$	18.0 228
			LE		18.0 179
KMI	32.6	317	-iP	19 45 44.0	0.0
			PMZ	$m_B = 6.8$	8.0 12.1
			pP	19 45 56.0	3.2
			PP	19 46 50.0	-2.4
			S	19 50 51.0	-4.3
			LE	$M_s = 7.1$	18.0 245
TIA	35.2	347	-P	19 46 05.8	-1.1
			PMZ	$m_B = 6.9$	12.0 22.7
			PP	19 47 29.0	2.9
			PPMZ		12.0 16.0
			S	19 51 35.0	-1.9



			PMZ		1.0	0.030
BJI	39.0	347	eP	20 19 19.5	0.4	
SNY	39.7	356	+iP	20 19 25.6	0.6	
MDJ	42.5	3	eP	20 19 47.0	-1.0	
GTA	44.5	330	eP	20 20 01.1	-3.2	

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O=20 48 07.6 ± 0.22s  
 LAT=32.28 S ± 4.01km  
 LONG=178.60 W ± 4.77km  
 DEPTH= 31 km ± 0.97km

STATIONS USED = 22, STAND DEV = 3.57s

WHN	89.1	307	eP	21 01 00.0	-1.8
MDJ	89.9	326	eP	21 01 04.0	-1.6
TIA	90.9	313	eP	21 01 12.1	1.8
SNY	90.9	321	eP	21 01 19.3	8.8
CN2	91.3	323	eP	21 01 12.5	0.1
GYA	92.0	300	P	21 01 18.0	2.2
BJI	93.9	316	eP	21 01 15.0	-9.1
XAN	94.8	307	eP	21 01 34.4	5.9

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O=21 02 56.1 ± 0.07s  
 LAT= 2.01 N ± 0.94km  
 LONG=126.85 E ± 1.57km  
 DEPTH= 32 km ± 0.26km

STATIONS USED = 20, STAND DEV = 1.34s

XAN	36.0	334	eP	21 09 55.0	-1.6
BJI	39.1	347	eP	21 10 22.5	0.2
SNY	39.7	356	eP	21 10 29.0	1.1
MDJ	42.5	3	eP	21 10 51.8	1.2

1986 8 14

O=21 05 20.6 ± 0.13s  
 LAT= 1.85 N ± 2.38km  
 LONG=126.76 E ± 3.70km  
 DEPTH= 33 km ± 0.11km

STATIONS USED = 30, STAND DEV = 1.99s

GZH	24.8	329	eP	21 10 43.0	1.8
GYA	31.2	323	P	21 11 39.0	-0.2
KMI	32.7	317	-P	21 11 53.5	0.4
XAN	36.1	334	eP	21 12 20.0	-1.8
CD2	36.2	325	eP	21 12 08.3	-13.5
TIY	38.0	341	eP	21 12 38.3	0.2
BJI	39.2	347	eP	21 12 48.0	0.3
SNY	39.9	356	-P	21 12 54.6	1.2
LZH	40.1	331	eP	21 12 54.5	-1.1
MDJ	42.7	3	+P	21 13 17.3	1.1
WMQ	54.3	326	P	21 14 45.6	-0.8
KSH	59.4	316	eP	21 15 29.2	6.5

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O=21 08 03.7 ± 0.20s  
 LAT= 2.10 N ± 3.92km  
 LONG=126.48 E ± 5.14km  
 DEPTH= 30 km ± 0.41km

STATIONS USED = 35, STAND DEV = 2.60s

GZH	24.4	330	eP	21 13 22.0	0.7
GYA	30.8	324	P	21 14 19.8	0.2
KMI	32.4	317	+P	21 14 33.5	0.0
XAN	35.8	335	eP	21 15 00.5	-1.9
CD2	35.8	325	eP	21 15 02.3	-0.6
DL2	36.9	354	eP	21 15 12.5	0.5
TIY	37.7	342	eP	21 15 27.5	8.5
BJI	38.9	347	eP	21 15 28.5	-0.3
SNY	39.6	357	+P	21 15 35.0	0.2
LZH	39.8	331	eP	21 15 33.5	-2.8
MDJ	42.4	3	eP	21 15 57.5	-0.4
GTA	44.4	330	P	21 16 13.1	-0.7
WMQ	53.9	326	P	21 17 26.0	-1.3
KSH	59.0	316	eP	21 18 04.5	0.8

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O=21 16 14.1 ± 0.15s  
 LAT= 1.91 N ± 2.57km  
 LONG=126.57 E ± 4.19km  
 DEPTH= 32 km ± 0.16km

STATIONS USED = 59, STAND DEV = 2.02s

QZH	24.2	342	eP	21 21 37.0	8.4
			S	21 25 51.0	9.8
GZH	24.7	330	eP	21 21 33.0	-0.4
WHN	30.7	339	eP	21 22 27.5	-1.4
NJ2	30.9	347	+P	21 22 30.5	0.6
GYA	31.0	324	P	21 22 31.3	-0.1
KMI	32.6	317	-P	21 22 45.5	0.3
TIA	35.2	347	eP	21 23 07.5	-0.5
XAN	36.0	335	eP	21 23 12.8	-1.5
CD2	36.0	325	eP	21 23 14.0	-0.7
DL2	37.1	354	+P	21 23 25.0	1.3
TIY	37.9	342	eP	21 23 30.3	-0.5
BJI	39.1	347	eP	21 23 40.0	-0.5
SNY	39.8	357	+P	21 23 46.9	0.4
LZH	40.0	331	eP	21 23 48.0	0.0
HHC	41.1	343	P	21 23 57.3	0.4
BTO	41.3	341	eP	21 23 53.0	-6.0
CN2	41.7	359	eP	21 24 02.0	-0.1
MDJ	42.6	3	+P	21 24 20.0	11.2
WMQ	54.1	326	+iP	21 25 38.3	-0.6
KSH	59.2	316	eP	21 26 15.9	0.8

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 O=21 20 39.1 ± 0.09s  
 LAT= 2.04 N ± 1.54km  
 LONG=126.73 E ± 3.01km  
 DEPTH= 33 km ± 0.06km  
 STATIONS USED = 46, STAND DEV= 1.63s

QZN	23.6	317	P	21 25 50.0	1.5
GZH	24.6	329	eP	21 25 57.6	-0.5
GYA	31.0	323	P	21 26 57.8	1.5
XAN	35.9	334	eP	21 27 37.8	-1.0
CD2	36.0	325	eP	21 27 39.0	-0.6
TIY	37.9	341	eP	21 27 55.6	0.5
BJI	39.0	347	eP	21 28 05.0	0.3
SNY	39.7	356	+P	21 28 11.3	0.9
CN2	41.6	359	eP	21 28 27.0	0.9
MDJ	42.5	3	-P	21 28 34.5	1.3
GTA	44.5	330	P	21 28 49.6	-0.6
WMQ	54.1	326	eP	21 30 03.5	-0.2

1986 8 14  
 O=21 54 02.0 ± 0.20s  
 LAT=11.05 N ± 2.69km  
 LONG=126.28 E ± 3.79km  
 DEPTH= 38 km ± 0.87km  
 STATIONS USED = 38, STAND DEV= 2.12s

SSE	20.5	347	eP	21 58 37.8	-1.8
			pP	21 58 50.8	1.9
NJ2	22.0	343	eP	21 58 49.6	-5.2
WHN	22.3	332	eP	21 58 57.5	-0.7
GYA	24.0	312	P	21 59 16.4	1.6
XAN	27.8	328	P	21 59 48.5	-2.1
CD2	28.7	317	eP	22 00 02.3	3.7
BJI	30.2	344	eP	22 00 12.0	0.3
SNY	30.7	356	+P	22 00 17.6	1.3
LZH	32.1	324	eP	22 00 27.5	-1.4
CN2	32.6	359	eP	22 00 37.0	4.1
MDJ	33.6	4	eP	22 00 41.0	0.0
GTA	36.7	325	+iP	22 01 08.4	0.1
WMQ	46.6	322	P	22 02 29.3	0.3

1986 8 14  
 O=22 41 05.1 ± 0.08s  
 LAT= 1.96 N ± 1.23km  
 LONG=126.67 E ± 1.39km  
 DEPTH= 31 km ± 0.21km  
 STATIONS USED = 46, STAND DEV= 1.86s

GZH	24.7	329	eP	22 46 25.0	0.4
GYA	31.0	323	P	22 47 22.6	-0.1
TIA	35.2	347	eP	22 47 58.5	-0.3
XAN	36.0	334	P	22 48 04.3	-1.1

CD2	36.0	325	eP	22 48 04.9	-1.1
DL2	37.1	353	P	22 48 16.0	1.5
TIY	37.9	341	eP	22 48 21.6	-0.1
BJI	39.1	347	eP	22 48 31.5	0.1
SNY	39.8	356	-iP	22 48 38.3	1.1
HHC	41.0	342	eP	22 48 48.0	0.1
BTO	41.3	341	eP	22 48 50.0	0.0
MDJ	42.5	3	eP	22 49 01.0	0.9
GTA	44.6	330	+iP	22 49 15.9	-0.8
WMQ	54.1	326	P	22 50 29.6	-0.5

1986 8 14  
 O=22 55 06.7 ± 0.08s  
 LAT= 2.10 N ± 1.35km  
 LONG=126.99 E ± 1.92km  
 DEPTH= 33 km ± 0.13km  
 STATIONS USED = 92, STAND DEV= 1.01s  
 Ms=5.6 / 26, m<sub>B</sub>=6.0 / 16

QZH	24.1	341	+P	23 00 21.0	0.3
			S	23 04 34.0	1.2
			SMN	m <sub>B</sub> =5.8	10.0 2.63
			LN	Ms=5.6	22.0 14.7
GZH	24.7	329	eP	23 00 25.5	-0.9
			PMZ	m <sub>B</sub> =6.1	4.0 2.77
			sP	23 00 49.0	9.6
			S	23 04 39.0	-4.0
			SMN	m <sub>B</sub> =6.2	12.0 6.66
			SME		6.0 2.79
			LN	Ms=5.6	19.0 10.1
			LE		14.0 2.36
SSE	29.4	350	-P	23 01 09.8	0.7
			PMZ		1.0 0.050
			pP	23 01 20.0	1.8
			ePP	23 02 08.0	3.7
			S	23 05 59.0	0.4
			SMN	m <sub>B</sub> =6.0	10.0 2.71
			SME		10.0 2.60
			sS	23 06 13.0	-1.6
			LN	Ms=5.4	11.0 2.38
			LE		10.0 1.47
WHN	30.7	338	eP	23 01 21.5	0.3
NJ2	30.8	346	+P	23 01 22.0	0.4
			sP	23 01 37.0	2.3
			S	23 06 22.0	1.2
			SMN	m <sub>B</sub> =6.1	11.0 4.10
			SME		9.0 1.50
GYA	31.1	323	P	23 01 26.0	1.2
			S	23 06 30.0	3.8
			sS	23 06 52.0	9.7
			LN	Ms=5.7	18.0 2.80



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LZH	40.2	331	eP	24 01 00.5	1.0				S	00 54 55.0	0.8		
MDJ	42.7	3	eP	24 01 20.0	0.4				SMN	$m_B=5.5$	10.0	0.80	
GTA	44.8	330	eP	24 01 35.5	-1.4				sS	00 55 39.0	1.7		
WMQ	54.4	326	eP	24 02 49.0	-1.3				ScS	00 58 44.0	0.5		
1986 8 15													
O=00 41 19.6				± 0.09s									
LAT= 8.65 S				± 1.48km									
LONG=124.19 E				± 1.88km									
DEPTH=107 km				± 0.03km									
STATIONS USED = 86,				STAND DEV = 1.29s									
$m_B=5.5/14$													
GZH	33.3	342	+iP	00 47 50.0	0.8								
			PMZ	$m_B=5.9$	4.0	0.82							
			pP	00 48 14.3	1.4								
			S	00 53 01.0	0.9								
QZH	33.8	351	eP	00 47 48.0	-6.0								
			S	00 53 05.0	-3.6								
			sS	00 53 45.5	-5.3								
			LN		12.0	0.47							
GYA	38.8	334	+P	00 48 37.0	0.8								
			pP	00 49 02.0	1.8								
			sP	00 49 17.0	4.1								
			PP	00 50 12.0	2.1								
			ScP	00 54 24.3	2.2								
			S	00 54 27.0	2.1								
			ScS	00 58 34.0	2.0								
			LE		18.0	0.70							
KMI	39.5	329	+P	00 48 44.0	1.8								
			PMZ	$m_B=5.7$	5.0	0.70							
			pP	00 49 09.0	2.8								
			sP	00 49 23.5	4.6								
			PP	00 50 22.0	4.2								
			PcP	00 50 44.0	-3.5								
			S	00 54 38.0	2.3								
SSE	39.6	356	+P	00 48 43.0	0.4								
			PMZ		0.8	0.020							
			pP	00 49 06.0	-0.8								
			ScP	00 54 28.0	2.8								
			PcS	00 54 30.0	-6.4								
			eS	00 54 40.0	2.3								
WHN	40.1	347	P	00 48 47.0	0.5								
			pP	00 49 12.0	1.2								
			PcS	00 54 40.0	1.8								
			eS	00 54 48.0	3.2								
			sS	00 55 32.0	5.0								
			LN		14.0	0.89							
NJ2	40.8	353	+P	00 48 53.0	0.8								
			pP	00 49 18.5	2.0								
			PP	00 50 37.0	6.6								
CD2	43.9	334	+P	00 49 18.0	-0.1								
			pP	00 49 44.0	1.6								
			sP	00 49 58.0	2.9								
			S	00 55 38.0	-2.3								
			ScS	00 59 02.0	-0.7								
XAN	44.9	342	P	00 49 24.9	-0.5								
			PMZ		1.0	0.15							
			pP	00 49 49.0	-0.7								
			sP	00 50 04.0	1.6								
			S	00 55 49.0	-4.5								
			sS	00 56 33.0	-4.3								
			ScS	00 59 08.0	-0.5								
			LE		16.0	0.96							
TIA	45.1	352	eP	00 49 26.4	-1.0								
			pP	00 49 51.0	-0.8								
			S	00 55 53.0	-4.1								
			SME	$m_B=5.6$	8.0	0.72							
			sS	00 56 40.0	-1.0								
			LE		14.5	0.78							
DL2	47.4	357	eP	00 49 44.0	-1.1								
			S	00 56 26.0	-3.2								
			ScS	00 59 23.0	-1.7								
TIY	47.4	347	+P	00 49 44.9	-0.7								
			PMZ		1.0	0.030							
			pP	00 50 10.0	-0.1								
			PP	00 51 35.0	-2.6								
			S	00 56 29.0	-0.8								
			ScS	00 59 27.0	2.0								
			SS	00 59 48.5	-4.5								
			LE		11.0	0.33							
LZH	48.4	338	+iP	00 49 55.0	1.3								
			pP	00 50 20.0	1.8								
			sP	00 50 29.0	-1.7								
			PP	00 51 48.0	1.0								
			eS	00 56 43.0	-2.7								
BJI	49.0	352	eP	00 49 56.5	-1.3								
			epP	00 50 22.0	-0.6								
			eS	00 56 50.0	-3.1								
			eScS	00 59 36.0	0.6								
SNY	50.2	359	+iP	00 50 05.8	-1.4								
			epP	00 50 32.5	0.4								
			eS	00 57 05.5	-4.6								
			LE		24.0	1.15							
HHC	50.6	348	+iP	00 50 10.0	-0.2								
BTO	50.7	346	P	00 50 10.0	-1.1								
			pP	00 50 35.0	-0.8								



			sP	00 50 49.0	0.7		
			S	00 57 15.0	-0.8		
CN2	52.2	1	+P	00 50 21.4	-0.8		
			pP	00 50 46.0	-1.2		
			ScP	00 55 18.0	0.9		
			eS	00 57 36.0	-1.4		
			ScS	00 59 58.0	0.7		
GTA	52.9	336	+iP	00 50 27.4	-0.1		
			pP	00 50 52.6	0.3		
			eS	00 57 45.0	-2.0		
			SMN	$m_B = 5.2$	8.0	0.25	
			LE		12.0	0.28	
MDJ	53.2	5	+P	00 50 29.8	0.0		
			pP	00 50 54.0	-0.9		
			sP	00 51 07.0	-0.3		
			S	00 57 49.0	-1.2		
			SME	$m_B = 5.9$	6.0	0.97	
WMQ	61.8	331	+iP	00 51 29.9	-0.3		
			PMZ		1.5	0.16	
			pP	00 51 56.0	0.2		
			PcP	00 52 11.0	1.9		
			S	00 59 43.6	1.2		
			sS	01 00 35.0	6.6		
KSH	65.4	321	+iP	00 51 55.3	1.3		
			pP	00 52 22.3	2.4		
			sP	00 52 32.3	0.3		
			iS	01 00 32.3	3.3		
			esS	01 01 22.3	8.5		
			ScS	01 01 35.3	0.8		

1986 8 15

O=01 17 12.0 ± 0.07s

LAT= 2.23 N ± 0.71km

LONG=126.74 E ± 1.44km

DEPTH= 34 km ± 0.13km

STATIONS USED = 25, STAND DEV= 0.83s

KMI	32.5	317	eP	01 23 42.0	0.1
XAN	35.8	334	eP	01 24 08.8	-1.3
BJI	38.8	347	eP	01 24 36.0	0.1
SNY	39.5	356	eP	01 24 41.3	-0.3
LZH	39.8	331	eP	01 24 45.0	0.9
MDJ	42.3	3	eP	01 25 05.0	0.6

1986 8 15

O=01 20 52.2 ± 0.06s

LAT= 2.22 N ± 0.83km

LONG=127.30 E ± 1.25km

DEPTH= 32 km ± 0.23km

STATIONS USED = 11, STAND DEV= 3.75s

XAN	36.0	334	eP	01 27 50.4	-2.3
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BJI	39.0	346	eP	01 28 18.0	0.6
SNY	39.6	356	eP	01 28 22.0	-0.4

1986 8 15

O=06 35 07.5 ± 0.09s

LAT= 2.15 N ± 1.57km

LONG=127.06 E ± 1.90km

DEPTH= 34 km ± 0.14km

STATIONS USED = 44, STAND DEV= 0.97s

GZH	24.7	329	eP	06 40 27.0	-0.1
WHN	30.7	338	eP	06 41 37.3	16.0
GYA	31.1	323	P	06 41 26.6	1.0
KMI	32.7	316	eP	06 41 42.0	2.1
TIA	35.1	346	eP	06 42 00.0	-0.2
CD2	36.1	325	eP	06 42 07.8	-0.9
DL2	36.9	353	eP	06 42 16.0	0.6
TIY	37.9	341	eP	06 42 24.5	1.1
BJI	39.0	347	eP	06 42 30.0	-2.7
SNY	39.6	356	eP	06 42 38.0	0.0
LZH	40.0	330	eP	06 42 41.5	0.0
MDJ	42.3	3	eP	06 43 00.6	0.1
GTA	44.6	330	P	06 43 18.6	-0.4
WMQ	54.2	326	eP	06 44 33.0	0.3

1986 8 15

O=07 13 13.5 ± 0.10s

LAT= 1.91 N ± 5.09km

LONG=127.07 E ± 4.16km

DEPTH= 49 km ± 2.95km

STATIONS USED = 47, STAND DEV= 1.99s

GZH	24.9	329	eP	07 18 32.0	-1.6
SSE	29.6	350	eP	07 19 16.0	-0.1
WHN	30.9	338	eP	07 19 35.8	7.6
NJ2	31.0	346	eP	07 19 29.0	0.4
GYA	31.3	323	eP	07 19 33.0	1.3
KMI	32.9	317	eP	07 19 45.5	-0.4
XAN	36.2	334	P	07 20 11.3	-2.4
CD2	36.3	325	eP	07 20 12.3	-2.5
BJI	39.2	347	eP	07 20 39.0	0.0
SNY	39.9	356	eP	07 20 43.8	-0.5
LZH	40.2	330	eP	07 20 47.5	-0.2
HHC	41.2	342	eP	07 20 57.0	1.3
BTO	41.5	340	eP	07 20 58.6	0.6
CN2	41.7	358	eP	07 21 00.0	0.2
MDJ	42.6	3	eP	07 21 07.0	0.2
GTA	44.8	330	P	07 21 23.8	-1.3
WMQ	54.4	326	eP	07 22 38.3	-0.2
KSH	59.5	316	eP	07 23 27.0	12.9

1986 8 15





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KMI	32.5	317	+P	16 26 48.0	0.4		
TIA	35.2	347	eP	16 27 12.4	1.4		
			eS	16 32 46.0	4.0		
			LE	Ms=5.0	17.0	1.63	
XAN	35.9	335	eP	16 27 15.0	-2.0		
			S	16 32 56.0	4.1		
CD2	36.0	326	eP	16 27 16.1	-1.2		
DL2	37.1	354	eP	16 27 31.5	4.6		
			LE	Ms=4.9	14.0	0.89	
BJI	39.1	348	eP	16 27 43.0	-0.5		
			eS	16 33 44.0	2.7		
SNY	39.9	357	-P	16 27 50.0	0.3		
			eS	16 33 46.0	-6.5		
			LE	Ms=4.7	29.0	1.13	
LZH	40.0	331	eP	16 27 51.0	0.3		
HHC	41.1	343	eP	16 28 03.0	3.2		
BTO	41.3	341	eP	16 28 04.0	2.1		
CN2	41.8	359	eP	16 28 10.0	4.6		
MDJ	42.7	3	eP	16 28 12.0	-0.8		
GTA	44.5	330	eP	16 28 27.3	-0.9		
			PP	16 30 11.8	-1.3		
			eS	16 35 00.0	-1.6		
			LE	Ms=4.7	17.0	0.55	
WMQ	54.1	326	P	16 29 42.0	0.5		
KSH	59.1	316	eP	16 30 17.0	-0.5		

1986 8 15

O=17 53 11.0 ± 0.16s  
 LAT=48.57 N ± 1.71km  
 LONG=126.60 E ± 1.28km  
 DEPTH= 34 km ± 0.08km  
 STATIONS USED = 36, STAND DEV = 2.15s  
 Ms=4.4/10, M<sub>L</sub>=4.7/4,

MDJ	4.5	151	+iPn	17 54 16.6	-0.1		
			Pg	17 54 32.0	2.0		
			Sn	17 55 09.0	0.0		
			Sg	17 55 30.0	-1.2		
			LE	Ms=4.7	6.0	8.14	
SNY	7.1	199	ePn	17 54 52.8	0.2		
			Pg	17 55 23.3	7.3		
			Sg	17 56 53.4	0.5		
			SMN	M <sub>L</sub> =5.1	1.0	0.75	
			SME		0.8	0.72	
			LN	Ms=4.4	7.0	1.44	
			LE		9.0	1.97	
BJI	11.3	225	eP	17 55 52.0	-1.8		
			LN	Ms=4.3	10.0	0.83	
			LE		9.0	0.81	
BTO	14.2	242	eP	17 56 32.0	-0.6		
			LN	Ms=4.6	9.0	1.20	

			LE			10.0	1.00
TIY	15.0	229	e(P)	17 56 43.8	1.7		
			LN	Ms=4.9	9.0	1.59	
			LE		8.0	1.47	
XAN	19.6	229	eP	17 57 39.0	-0.6		
			LG <sub>1</sub>	18 03 37.0	10.0		
			LG <sub>2</sub>	18 03 57.0	-1.1		
			LN	Ms=4.7	11.0	0.78	
			LE		10.0	0.85	
LZH	20.9	242	eP	17 57 54.0	1.1		
GTA	21.2	254	-iP	17 57 57.1	0.2		
			LN	Ms=4.3	9.0	0.32	
CD2	24.7	233	eP	17 58 32.8	1.7		

1986 8 15

O=19 44 32.9 ± 0.13s  
 LAT=39.54 N ± 1.44km  
 LONG=118.68 E ± 1.12km  
 DEPTH= 1 km ± 0.08km  
 STATIONS USED = 21, STAND DEV = 3.34s

M<sub>L</sub>=4.0/17,

BJI	2.0	285	ePg	19 45 07.0	-1.1		
			eSg	19 45 31.0	-4.4		
			SMN	M <sub>L</sub> =4.4	0.5	2.87	
			SME		0.5	2.76	
DL2	2.4	105	Pg	19 45 17.5	2.6		
			SMN	M <sub>L</sub> =3.6	0.7	0.45	
			SME		0.7	0.29	
TIA	3.5	201	ePn	19 45 31.6	2.3		
			Pg	19 45 40.8	5.2		
			Sg	19 46 29.8	5.7		
			SMN	M <sub>L</sub> =4.2	0.5	1.22	
			SME		0.5	0.18	
SNY	4.4	57	ePn	19 45 37.8	-2.7		
			Sg	19 46 53.3	3.6		
			SMN	M <sub>L</sub> =4.0	1.0	0.33	
			SME		1.0	0.20	
TIY	5.2	251	ePn	19 45 52.4	0.0		
			Pg	19 45 56.0	-9.1		
			Sg	19 47 11.3	-5.2		
			SMN	M <sub>L</sub> =4.0	0.7	0.14	
			SME		0.8	0.15	
HHC	5.6	286	Pg	19 46 14.0	1.9		
			eSg	19 47 26.0	-2.4		
			SMN	M <sub>L</sub> =3.9	0.8	0.11	
			SME		0.8	0.12	
CN2	6.6	48	ePn	19 46 12.8	1.3		
			Pg	19 46 35.6	5.9		
			eSn	19 47 25.0	-4.9		
			Sg	19 47 55.3	-4.8		

			SMN	$M_L=4.3$	1.0	0.20	BTO	14.2	242	+iP	20 23 58.4	0.1		
			SME		1.0	0.10				LG <sub>1</sub>	20 27 59.0	-3.7		
BTO	6.7	282	eP*	19 46 25.4	-0.3					LG <sub>2</sub>	20 28 20.0	-5.2		
			Pg	19 46 33.3	1.6					LN	$M_s=5.5$		8.0	9.00
			Sn	19 47 40.3	7.6					LE			9.0	6.00
			Sg	19 47 57.4	-6.3		TIY	14.9	229	P	20 24 09.0	1.1		
			SMN	$M_L=3.7$	0.5	0.050				PP	20 24 19.5	-0.2		
			SME		0.5	0.030				S	20 26 53.0	0.2		
GTA	14.6	275	eP	19 48 11.1	8.4					LG <sub>1</sub>	20 28 31.5	5.6		
										LN	$M_s=5.7$		10.0	14.5
										LE			10.0	12.5
							NJ2	17.5	202	eP	20 24 41.6	1.1		
										S	20 27 58.0	5.8		
										LN	$M_s=5.5$		9.0	7.40
							SSE	17.9	195	eP	20 24 47.8	1.9		
										PP	20 25 05.0	4.7		
										eS	20 28 12.0	9.5		
										LN	$M_s=5.4$		12.0	4.74
										LE			12.0	6.13
							XAN	19.6	229	eP	20 25 05.6	0.0		
										eS	20 28 42.0	2.1		
										LG <sub>1</sub>	20 30 50.0	-1.8		
										LG <sub>2</sub>	20 31 26.0	3.1		
										LN	$M_s=5.6$		12.0	7.14
										LE			11.0	7.27
							WHN	20.3	212	eP	20 25 13.5	0.6		
										eS	20 28 59.0	4.7		
										LE	$M_s=5.5$		11.0	8.02
							LZH	20.8	242	eP	20 25 19.5	0.7		
										S	20 29 14.0	10.0		
										LG <sub>1</sub>	20 31 34.0	3.4		
										LG <sub>2</sub>	20 32 05.0	1.4		
										LN	$M_s=5.2$		12.0	0.70
										LE			10.0	3.20
							GTA	21.2	254	-iP	20 25 32.4	10.3		
										PMZ			2.5	0.42
										S	20 29 19.0	7.6		
										SME	$m_B=5.1$		9.0	0.68
										LG <sub>1</sub>	20 31 52.0	9.3		
										LN	$M_s=5.2$		8.5	2.52
							QZH	24.4	198	eP	20 25 54.0	-0.2		
										eS	20 30 18.0	8.3		
										LN	$M_s=5.5$		14.0	2.42
										LE			14.0	7.29
							CD2	24.7	233	eP	20 25 58.5	1.3		
										S	20 30 17.0	3.0		
							GYA	27.0	222	+P	20 26 19.6	1.2		
										S	20 30 56.0	4.6		
										LN	$M_s=5.3$		12.0	2.50
										LE			12.0	2.50

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WMQ	27.1	275	P	20 26 20.0	0.6		
			LG <sub>1</sub>	20 34 38.0	-9.6		
			LN			Ms=5.6	10.0 4.78
KMI	30.0	227	+P	20 26 45.0	-0.2		
			eS	20 31 45.0	4.7		
			LN			Ms=6.3	13.0 32.5
KSH	36.9	275	eP	20 27 47.0	1.9		
			LN			Ms=5.6	11.0 3.10

1986 8 15

O=23 34 58.3 ± 0.08s  
 LAT=23.21 S ± 1.11km  
 LONG=179.15 E ± 0.58km  
 DEPTH=562 km ± 1.15km  
 STATIONS USED = 43, STAND DEV = 0.78s

NJ2	79.6	311	+P	23 46 09.6	0.2		
MDJ	81.3	327	+P	23 46 18.0	0.1		
WHN	82.0	308	+P	23 46 21.0	-0.4		
CN2	82.9	324	-P	23 46 25.3	-0.8		
TIA	83.2	314	eP	23 46 27.5	-0.2		
BJI	86.0	317	eP	23 46 42.0	0.7		
TIY	87.1	313	iP	23 46 47.8	1.0		
XAN	87.7	309	eP	23 46 49.4	0.0		
CD2	90.0	304	eP	23 47 01.3	1.0		
LZH	92.3	308	eP	23 47 12.0	1.1		

1986 8 16

O=00 11 44.2 ± 0.12s  
 LAT=40.09 N ± 1.50km  
 LONG= 77.66 E ± 1.23km  
 DEPTH= 33 km ± 0.17km  
 STATIONS USED = 44, STAND DEV = 1.96s  
 Ms=4.2 / 3, M<sub>L</sub>=4.7 / 7,

KSH	1.4	244	+iPg	00 12 11.1	0.8		
			iSg	00 12 33.6	3.4		
			SME			M <sub>L</sub> =4.4	0.7 5.20
WMQ	8.4	60	P	00 13 46.0	-0.1		
			S	00 15 17.0	-3.0		
			SME			M <sub>L</sub> =5.1	1.0 0.41
GTA	17.1	85	eP	00 15 38.8	-3.2		
			LE			Ms=4.2	8.0 0.40
CD2	23.1	105	eP	00 16 50.0	1.8		
BTO	24.6	78	eP	00 17 05.0	1.9		
XAN	25.6	94	+P	00 17 13.0	0.6		
KMI	25.8	118	+P	00 17 15.5	1.4		
TIY	27.1	84	c(P)	00 17 28.8	2.7		
			LE			Ms=3.9	11.0 0.11
GYA	27.7	111	P	00 17 32.4	0.8		
WHN	31.2	96	eP	00 18 04.0	0.7		

1986 8 16

O=06 08 10.8 ± 0.03s  
 LAT= 1.89 N ± 0.52km  
 LONG=126.57 E ± 0.80km  
 DEPTH= 32 km ± 0.02km  
 STATIONS USED = 16, STAND DEV = 0.47s

XAN	36.0	335	eP	06 15 10.6	-0.5		
BJI	39.1	347	eP	06 15 37.0	-0.3		
WMQ	54.1	326	eP	06 17 35.4	-0.3		

1986 8 16

O=14 40 16.6 ± 0.07s  
 LAT= 1.85 N ± 1.19km  
 LONG=126.41 E ± 2.07km  
 DEPTH= 33 km ± 0.03km  
 STATIONS USED = 55, STAND DEV = 1.01s

GZH	24.6	330	eP	14 45 36.0	0.4		
SSE	29.5	351	eP	14 46 21.0	0.6		
KMI	32.5	317	eP	14 46 47.5	0.4		
TIA	35.3	347	eP	14 47 09.6	-1.0		
XAN	36.0	335	eP	14 47 15.8	-0.8		
CD2	36.0	326	eP	14 47 16.0	-0.9		
DL2	37.1	354	P	14 47 27.0	0.5		
TIY	37.9	342	eP	14 47 33.4	0.1		
BJI	39.1	348	eP	14 47 43.5	0.4		
SNY	39.9	357	eP	14 47 48.6	-0.8		
CN2	41.8	359	eP	14 48 07.4	2.3		
MDJ	42.7	3	eP	14 48 12.3	-0.2		
GTA	44.5	330	P	14 48 27.0	-0.7		
WMQ	54.1	326	+iP	14 49 41.4	0.3		
KSH	59.1	316	eP	14 50 19.0	1.9		

1986 8 16

O=17 19 22.3 ± 0.12s  
 LAT= 1.84 N ± 2.11km  
 LONG=126.45 E ± 2.38km  
 DEPTH= 33 km ± 0.15km  
 STATIONS USED = 92, STAND DEV = 1.29s  
 Ms=6.0 / 41, m<sub>B</sub>=6.0 / 21

QZH	24.2	342	-P	17 24 35.0	-2.0		
			PMZ			m <sub>B</sub> =5.9	5.0 2.52
			sP	17 24 53.0	3.0		
			S	17 28 48.0	-1.8		
			SMN			m <sub>B</sub> =6.0	8.0 2.71
			SME				8.0 2.87
			LN			Ms=6.0	20.0 23.1
			LE				20.0 17.5
GZH	24.7	330	-P	17 24 42.0	0.5		
			PMZ			m <sub>B</sub> =6.3	5.0 5.67
			LN			Ms=5.7	18.0 11.2

			LE		16.0	8.32			S	17 32 14.0	-1.5		
SSE	29.5	351	-P	17 25 27.0	0.8				LN	Ms=5.8	16.0	3.80	
			PMZ	m <sub>B</sub> =5.5	8.0	0.71			LE		18.0	8.10	
			sP	17 25 41.0	1.6		TIY	38.0	342	-P	17 26 38.6	-0.5	
			ePP	17 26 20.0	-2.0				PMZ	m <sub>B</sub> =6.0	7.0	1.69	
			PcP	17 28 32.0	1.4				sP	17 26 56.5	4.2		
			eS	17 30 12.0	-5.6				PP	17 28 09.5	0.7		
			ScP	17 32 06.0	-2.5				PPMZ		18.0	18.4	
			PcS	17 32 14.0	1.6				S	17 32 27.5	-0.2		
			LE	Ms=5.8	36.0	26.0			SME		20.0	1.67	
WHN	30.8	339	eP	17 25 37.0	-0.3				sS	17 32 40.0	-4.1		
			sP	17 25 53.0	2.6				LN	Ms=6.0	21.0	14.3	
			PP	17 26 39.0	0.8				LE		19.0	5.90	
			S	17 30 34.5	-1.9		BJI	39.2	347	eP	17 26 48.0	-1.0	
			sS	17 30 54.0	1.4				sP	17 27 06.0	3.7		
			LN	Ms=6.1	18.0	16.5			cS	17 32 44.0	-2.8		
			LE		23.0	24.7			SMN	m <sub>B</sub> =5.9	8.0	1.06	
NJ2	30.9	347	-P	17 25 37.0	-1.4				SME		7.0	1.14	
			sP	17 25 53.5	2.0				csS	17 33 05.0	2.7		
			S	17 30 38.0	-0.4				LN	Ms=5.5	14.0	3.00	
			LN	Ms=5.8	15.0	10.3	SNY	39.9	357	-iP	17 26 55.0	-0.1	
GYA	31.0	324	P	17 25 38.6	-0.8				PMZ	m <sub>B</sub> =6.5	5.0	4.39	
			sP	17 25 57.0	4.6				pP	17 27 08.0	3.6		
			PP	17 26 47.0	5.8				PP	17 28 27.5	-3.6		
			S	17 30 39.0	-1.0				iS	17 33 00.0	2.1		
			sS	17 30 56.0	-0.2				SMN	m <sub>B</sub> =6.2	8.0	1.69	
			LN	Ms=6.0	18.0	16.9			SME		9.0	3.25	
			LE		18.0	10.7			sS	17 33 19.0	5.6		
KMI	32.5	317	eP	17 25 52.5	-0.6				SS	17 35 57.0	9.1		
			PP	17 27 02.0	0.6				LN	Ms=6.0	23.0	14.6	
			S	17 31 08.0	3.8				LE		24.0	4.84	
			sS	17 31 22.0	1.6			LZH	40.0	331	P	17 26 54.5	-1.7
			LE	Ms=6.0	20.0	20.5			S	17 32 54.0	-4.5		
TIA	35.3	347	eP	17 26 14.9	-1.5				LN	Ms=6.3	19.0	21.4	
			PMZ	m <sub>B</sub> =6.1	6.0	2.12			LE		19.0	11.7	
			sP	17 26 32.5	2.9			HHC	41.1	343	-P	17 27 04.0	-1.3
			S	17 31 43.0	-3.6				PMZ	m <sub>B</sub> =6.1	6.0	2.07	
			SMN	m <sub>B</sub> =5.9	11.0	2.80			sP	17 27 21.0	2.5		
XAN	36.0	335	-P	17 26 21.3	-1.2				PP	17 28 41.0	-2.2		
			sP	17 26 39.5	3.9				S	17 33 08.0	-7.0		
			PP	17 27 44.0	-0.1				LN	Ms=5.9	18.0	9.01	
			S	17 31 54.5	-3.0				LE		16.0	3.42	
			sS	17 32 14.0	0.2			BTO	41.4	341	P	17 27 08.0	0.7
			ScS	17 36 37.0	2.2				ePP	17 28 48.0	2.1		
			LN	Ms=6.0	16.0	9.52			S	17 33 20.0	1.3		
			LE		18.0	10.6			LN	Ms=6.0	20.0	11.5	
CD2	36.0	326	P	17 26 22.0	-0.8				LE		18.0	6.30	
			S	17 31 53.0	-5.0			CN2	41.8	359	-P	17 27 10.0	-0.8
DL2	37.2	354	P	17 26 32.0	-0.3				PMZ	m <sub>B</sub> =6.0	6.0	1.60	
			pP	17 26 44.0	2.5				sP	17 27 27.0	2.8		







1986 8 16  
 O = 22 39 21.3 ± 0.10s  
 LAT = 1.81 N ± 1.71km  
 LONG = 126.46 E ± 3.57km  
 DEPTH = 32 km ± 0.09km

STATIONS USED = 52, STAND DEV = 1.71s

GZH	24.7	330	cP	22 44 40.0	-1.0
GYA	31.0	324	P	22 45 38.6	-0.2
KMI	32.6	317	cP	22 45 53.0	0.5
XAN	36.0	335	cP	22 46 20.0	-1.9
CD2	36.0	326	cP	22 46 20.8	-1.4
DL2	37.2	354	P	22 46 32.4	0.7
BJI	39.2	347	cP	22 46 48.0	-0.4
SNY	39.9	357	+iP	22 46 54.5	0.0
LZH	40.0	331	cP	22 46 56.0	0.4
HHC	41.1	343	P	22 47 05.4	0.7
BTO	41.4	341	cP	22 47 05.8	-1.0
CN2	41.8	359	cP	22 47 18.4	8.2
MDJ	42.7	3	cP	22 47 17.5	-0.1
GTA	44.6	330	P	22 47 32.3	-0.7
WMQ	54.1	326	cP	22 48 45.5	-0.8

1986 8 16  
 O = 22 44 47.8 ± 0.17s  
 LAT = 22.75 N ± 2.86km  
 LONG = 94.04 E ± 2.01km  
 DEPTH = 75 km ± 2.69km  
 STATIONS USED = 19, STAND DEV = 3.08s

$M_L = 5.1 / 1,$

KMI	8.3	72	+P	22 46 52.0	4.1
			eS	22 48 21.5	0.5
GYA	12.1	70	P	22 47 40.6	1.9
XAN	17.2	46	cP	22 48 45.0	-0.2
WHN	19.7	63	cP	22 49 13.5	-0.5
SSE	25.5	65	+P	22 50 11.5	0.1
			PMZ		0.6 0.010

1986 8 16  
 O = 23 25 44.9 ± 0.13s  
 LAT = 8.40 S ± 1.52km  
 LONG = 121.85 E ± 2.48km  
 DEPTH = 129 km ± 0.83km  
 STATIONS USED = 31, STAND DEV = 1.80s

GYA	37.7	337	P	23 32 51.0	1.3
KMI	38.2	331	cP	23 33 11.5	18.2
CD2	42.8	337	cP	23 33 31.8	0.1
XAN	43.9	344	cP	23 33 41.4	0.1
BJI	48.5	354	(P)	23 34 11.0	-5.9
GTA	51.8	338	cP	23 34 42.0	-0.1

MDJ	53.2	7	cP	23 34 51.5	-1.3
WMQ	60.5	332	cP	23 35 43.0	-1.3
			pP	23 36 22.5	8.0
			PcP	23 36 28.3	1.7
			S	23 43 45.5	-1.3
			SMN		2.0 0.040

1986 8 17  
 O = 01 07 02.4 ± 0.21s  
 LAT = 24.70 N ± 2.26km  
 LONG = 122.65 E ± 2.14km  
 DEPTH = 16 km ± 1.04km  
 STATIONS USED = 11, STAND DEV = 3.71s

$M_L = 3.6 / 3,$

QZH	3.7	275	cPn	01 08 00.0	0.6
			Sn	01 08 40.0	-4.6
			SMN	$M_L = 3.5$	1.0 0.18
			SME		1.0 0.080
SSE	6.5	349	Pn	01 08 39.0	1.0
			LG <sub>2</sub>	01 10 38.6	1.5
GZH	8.7	261	c(P)	01 09 08.5	-1.9
CN2	19.2	6	cP	01 11 30.0	1.4

1986 8 17  
 O = 04 33 13.5 ± 0.16s  
 LAT = 2.13 N ± 2.30km  
 LONG = 127.09 E ± 3.79km  
 DEPTH = 33 km ± 0.12km  
 STATIONS USED = 30, STAND DEV = 2.51s

GZH	24.7	328	cP	04 38 34.5	1.0
XAN	36.0	334	cP	04 40 13.3	-0.5
BJI	39.0	347	P	04 40 40.5	1.5
SNY	39.6	356	-P	04 40 45.8	1.5
LZH	40.1	330	cP	04 40 50.0	2.1
MDJ	42.4	3	cP	04 40 58.0	-8.7
WMQ	54.2	326	cP	04 42 41.0	2.0

1986 8 17  
 O = 10 26 36.4 ± 0.09s  
 LAT = 1.83 N ± 1.13km  
 LONG = 126.55 E ± 2.01km  
 DEPTH = 33 km ± 0.14km  
 STATIONS USED = 81, STAND DEV = 1.11s

$M_s = 4.7 / 4,$

QZH	24.2	342	cP	10 31 52.0	0.5
GZH	24.7	330	+P	10 31 56.5	0.3
SSE	29.5	351	-P	10 32 41.0	0.5
			PMZ		1.0 0.020
			esS	10 37 50.0	2.8
			SS	10 39 10.0	4.4

		LN	Ms=4.7	20.0	1.20	GTA	32.3	291	cP	11 00 51.3	-1.0		
WHN	30.8	339	cP	10 32 50.0	-1.8								
NJ2	30.9	347	+P	10 32 52.8	0.0								
GYA	31.1	324	P	10 32 54.0	-0.1								
KMI	32.6	317	-P	10 33 07.0	-0.9								
TIA	35.3	347	cP	10 33 30.3	-0.5								
XAN	36.0	335	cP	10 33 35.6	-1.5								
CD2	36.1	326	cP	10 33 36.8	-0.6								
DL2	37.2	354	P	10 33 48.0	1.4								
TIY	38.0	342	+P	10 33 53.3	-0.3								
			S	10 39 45.5	3.0								
BJI	39.2	347	+P	10 34 03.5	0.2								
SNY	39.9	357	-P	10 34 09.8	0.4								
			S	10 40 15.0	3.6								
			LN	Ms=4.7	20.0	0.36							
			LE		20.0	0.60							
LZH	40.0	331	-iP	10 34 11.0	0.2								
HHC	41.1	343	+P	10 34 20.6	0.9								
BTO	41.4	341	cP	10 34 22.0	0.2								
CN2	41.8	359	+P	10 34 25.8	0.8								
MDJ	42.7	3	-P	10 34 33.0	0.7								
GTA	44.6	330	-iP	10 34 47.3	-0.9								
			PcP	10 36 31.4	1.1								
			eScS	10 44 44.5	4.4								
			LN	Ms=4.7	21.0	0.55							
WMQ	54.2	326	+P	10 36 01.0	-0.5								
KSH	59.2	316	cP	10 36 37.9	0.3								
			PP	10 38 47.9	-1.6								
			eS	10 44 43.9	1.8								
<p>1986 8 17</p> <p>O = 10 54 34.0 ± 0.08s</p> <p>LAT = 34.10 N ± 1.71km</p> <p>LONG = 139.77 E ± 1.63km</p> <p>DEPTH = 136 km ± 1.33km</p> <p>STATIONS USED = 56, STAND DEV = 1.72s</p>													
MDJ	13.1	326	cP	10 57 36.0	-0.3								
SNY	14.9	306	+iP	10 58 02.4	3.3								
SSE	15.9	264	+P	10 58 13.6	1.5								
			PMZ			0.7	0.010						
			sP	10 58 49.0	-0.7								
NJ2	17.7	269	cP	10 58 32.5	-0.3								
BJI	19.7	294	(P)	10 58 55.0	-0.2								
WHN	21.8	268	cP	10 59 16.0	0.3								
TIY	22.4	287	cP	10 59 22.6	0.5								
			S	11 03 09.0	-4.7								
HHC	23.3	295	cP	10 59 32.5	1.5								
BTO	24.5	294	cP	10 59 36.0	-5.9								
XAN	25.5	279	-P	10 59 50.8	-1.0								
GYA	29.5	264	P	11 00 26.4	-1.5								
<p>1986 8 17</p> <p>O = 11 37 13.5 ± 0.23s</p> <p>LAT = 14.19 S ± 3.85km</p> <p>LONG = 75.66 W ± 2.21km</p> <p>DEPTH = 42 km ± 2.13km</p> <p>STATIONS USED = 32, STAND DEV = 2.59s</p>													
MDJ	142.8	330	cPKP	11 56 40.0	-3.5								
KSH	144.6	39	PKP	11 56 45.3	-1.4								
			cPP	12 00 03.3	-2.5								
CN2	145.4	333	cPKP	11 56 46.0	-2.0								
WMQ	147.2	23	PKP	11 56 53.5	2.3								
SNY	147.8	332	cPKP	11 56 54.4	2.4								
GTA	154.6	8	PKP	11 57 02.8	0.6								
TIA	155.3	335	cPKP	11 57 03.8	0.8								
XAN	159.8	349	cPKP	11 57 10.4	1.6								
			PP	12 01 27.5	-3.7								
<p>1986 8 17</p> <p>O = 15 27 40.7 ± 0.07s</p> <p>LAT = 2.27 N ± 1.51km</p> <p>LONG = 126.82 E ± 1.84km</p> <p>DEPTH = 31 km ± 0.27km</p> <p>STATIONS USED = 88, STAND DEV = 1.07s</p> <p>Ms = 6.1 / 38, m<sub>B</sub> = 6.2 / 17</p>													
QZH	23.9	341	+P	15 32 52.0	-0.9								
			PMZ			m <sub>B</sub> = 6.2	4.0	4.05					
			PP	15 33 20.0	-6.4								
			S	15 37 02.0	-1.6								
			SMN			m <sub>B</sub> = 6.3	5.0	4.69					
			LN			Ms = 6.1	18.0	33.7					
			LE				12.0	11.0					
SSE	29.2	350	+P	15 33 41.0	-0.7								
			PMZ				1.5	0.36					
			pP	15 33 50.0	-0.4								
			PcP	15 36 50.0	1.5								
			S	15 38 28.0	-2.0								
			sS	15 38 40.0	-5.4								
			eSS	15 40 02.0	1.2								
			PcS	15 40 32.0	2.0								
			eScS	15 44 18.0	-1.1								
			LN			Ms = 6.0	18.0	19.1					
WHN	30.5	338	-P	15 33 54.5	0.9								
			PMZ			m <sub>B</sub> = 6.0	6.0	1.57					
			S	15 38 58.5	7.3								
			SMN			m <sub>B</sub> = 6.1	12.0	5.52					
			LN			Ms = 6.3	20.0	46.8					
NJ2	30.6	347	-P	15 33 55.0	0.9								
			S	15 38 53.0	0.9								

			SMN	$m_B=6.4$	12.0	10.2			cS	15 41 02.0	1.3			
			LN	$M_s=6.2$	10.0	16.2			IE	$M_s=5.9$	20.0	12.5		
GYA	30.9	323	+P	15 33 57.0	-0.1			SNY	39.5	356	+iP	15 35 10.0	-0.5	
			PP	15 34 57.0	-1.2						PMZ	$m_B=6.4$	4.0	2.58
			S	15 39 02.0	5.0						pP	15 35 18.0	-1.4	
			ScS	15 44 31.0	3.7						S	15 41 06.0	-3.9	
			LN	$M_s=6.2$	18.0	25.5					SMN		20.0	14.2
			LE		18.0	19.7					SME		18.0	8.79
KMI	32.5	316	+P	15 34 11.5	0.2						LN	$M_s=6.2$	22.0	23.3
			PMZ	$m_B=6.0$	4.0	1.10					LE		20.0	6.80
			pP	15 34 22.0	2.2			LZH	39.8	330	+iP	15 35 14.0	0.7	
			S	15 39 18.0	-4.3			HHC	40.8	342	+P	15 35 21.6	0.0	
			sS	15 39 34.0	-3.8						S	15 41 34.0	4.5	
			SS	15 41 12.0	-7.2						SMN	$m_B=5.8$	8.0	1.43
TIA	34.9	346	cP	15 34 31.8	-0.5						LN	$M_s=6.2$	18.0	19.8
			PMZ	$m_B=6.1$	5.0	1.62					LE		11.0	2.84
			S	15 40 02.0	1.6			BTO	41.1	340	-P	15 35 23.5	-0.3	
			SMN	$m_B=6.1$	11.0	1.22					PP	15 37 00.0	-1.6	
			SME		11.0	3.60					S	15 41 33.5	0.0	
			sS	15 40 21.0	5.1						LN	$M_s=6.5$	26.0	45.2
			LN	$M_s=5.8$	19.0	2.65					LE		23.0	25.1
			LE		15.0	8.85		CN2	41.4	358	+iP	15 35 25.0	-1.1	
XAN	35.8	334	+P	15 34 38.0	-1.3						PMZ	$m_B=6.1$	6.0	1.80
			PcP	15 37 07.5	1.0						PP	15 37 04.0	-0.8	
			S	15 40 11.0	-2.0						PcP	15 37 27.4	3.4	
			SMN		16.0	9.24					ScP	15 41 13.0	2.7	
			SME		12.0	2.32					eS	15 41 38.0	-0.9	
			ScS	15 44 59.0	6.4						SME		16.0	5.60
			LN	$M_s=6.0$	16.0	12.0					SS	15 44 36.0	-2.2	
			LE		15.0	7.68		MDJ	42.2	3	+P	15 35 32.9	-0.3	
CD2	35.9	325	cP	15 34 38.8	-1.5						S	15 41 57.0	6.3	
			S	15 40 15.0	0.2						LN	$M_s=6.2$	24.0	24.0
DL2	36.8	353	+iP	15 34 47.0	-0.8			GTA	44.4	330	+iP	15 35 50.3	-0.6	
			pP	15 34 58.0	1.4						PP	15 37 35.3	-0.2	
			S	15 40 30.0	1.4						S	15 42 19.0	-3.1	
			SS	15 43 05.0	8.0						SME	$m_B=5.8$	9.0	1.22
			LN	$M_s=6.3$	20.0	24.2					LN	$M_s=6.4$	21.0	33.5
			LE		15.0	17.8		WMQ	54.0	326	-iP	15 37 03.0	-1.6	
TIY	37.7	341	+P	15 34 55.4	0.0						S	15 44 36.0	0.2	
			PMZ		1.0	0.060					LN	$M_s=6.5$	40.0	55.1
			sP	15 35 09.9	1.9			KSH	59.1	316	P	15 37 42.6	1.2	
			S	15 40 42.0	-0.3						PP	15 39 52.6	-0.4	
			SMN		22.0	10.1					cS	15 45 48.6	3.3	
			SME		23.0	5.55					LE	$M_s=6.6$	22.0	29.5
			SS	15 43 21.0	3.4									
			ScS	15 45 03.0	-0.2									
			LN	$M_s=6.4$	26.0	51.1								
			LE		22.0	7.16								
BJI	38.8	347	+P	15 35 05.0	0.1									
			csP	15 35 18.0	0.3									

1986 8 17

O = 15 31 18.3 ± 0.10s  
 LAT = 2.12 N ± 1.47km  
 LONG = 127.07 E ± 2.41km  
 DEPTH = 33 km ± 0.01km

STATIONS USED = 39, STAND DEV = 1.60s  
 $M_s = 6.1 / 11$ ,  $m_B = 6.4 / 2$

GZH	24.7	329	P	15 36 38.9	0.6
			S	15 40 56.0	1.0
			LN	$M_s = 6.1$	19.0 34.0
			LE		15.0 9.80
NJ2	30.8	346	+P	15 37 33.0	-0.2
XAN	36.0	334	P	15 38 16.3	-2.4
DL2	36.9	353	P	15 38 28.0	1.4
TIY	37.9	341	+iP	15 38 35.5	0.9
			S	15 44 26.0	3.2
			LN	$M_s = 6.3$	21.5 33.7
BJI	39.0	347	P	15 38 44.0	0.1
			S	15 44 40.0	0.1
			LN	$M_s = 6.2$	10.0 11.0
SNY	39.7	356	-iP	15 38 49.8	0.6
MDJ	42.4	3	+P	15 39 12.5	0.8
WMQ	54.2	326	P	15 40 40.8	-3.0
			S	15 48 15.0	-1.5
			LN	$M_s = 6.4$	32.0 35.0

GYA	31.0	323	P	15 58 25.6	-0.8
KMI	32.6	316	-P	15 58 41.0	0.3
XAN	35.9	334	eP	15 59 07.0	-1.5
CD2	36.0	325	eP	15 59 07.8	-1.8
DL2	36.9	353	P	15 59 16.8	0.2
TIY	37.8	341	eP	15 59 24.6	0.1
BJI	38.9	347	eP	15 59 33.5	-0.3
SNY	39.6	356	+P	15 59 39.0	-0.2
LZH	39.9	330	eP	15 59 42.0	-0.5
HHC	40.9	342	+P	15 59 51.6	1.0
BTO	41.2	340	eP	15 59 52.0	-0.8
CN2	41.4	358	-P	15 59 55.0	0.2
MDJ	42.3	3	eP	16 00 01.9	0.1
GTA	44.5	330	eP	16 00 18.5	-1.5
WMQ	54.1	326	P	16 01 32.8	-0.9
KSH	59.3	316	eP	16 02 10.6	0.1

1986 8 17

O = 15 44 26.4 ± 0.07s  
 LAT = 2.24 N ± 1.06km  
 LONG = 127.11 E ± 2.42km  
 DEPTH = 34 km ± 0.35km

STATIONS USED = 25, STAND DEV = 1.41s

XAN	35.9	334	eP	15 51 24.8	-1.1
CD2	36.1	325	P	15 51 26.6	-0.6
TIY	37.8	341	P	15 51 42.8	1.1
BJI	38.9	347	P	15 51 51.5	0.5
SNY	39.5	356	eP	15 51 52.8	-3.4
CN2	41.4	358	eP	15 52 08.8	-2.9
MDJ	42.3	3	eP	15 52 19.5	0.9
GTA	44.6	330	eP	15 52 26.4	-10.4
WMQ	54.2	325	eP	15 53 52.0	0.7

1986 8 17

O = 15 52 09.1 ± 0.11s  
 LAT = 2.21 N ± 1.76km  
 LONG = 126.98 E ± 2.60km  
 DEPTH = 33 km ± 0.09km

STATIONS USED = 82, STAND DEV = 1.91s

QZH	24.0	341	eP	15 57 26.0	3.9
GZH	24.6	329	P	15 57 28.0	0.1
SSE	29.3	350	-P	15 58 12.5	1.9
			PMZ		1.5 0.090
			pP	15 58 20.0	0.3
WHN	30.6	338	eP	15 58 22.0	-0.7
NJ2	30.7	346	+P	15 58 24.0	0.9

1986 8 17

O = 16 09 26.5 ± 0.08s  
 LAT = 2.30 N ± 1.02km  
 LONG = 127.00 E ± 1.90km  
 DEPTH = 32 km ± 0.03km

STATIONS USED = 44, STAND DEV = 0.99s

GZH	24.5	328	eP	16 14 44.5	-0.2
NJ2	30.6	346	+P	16 15 42.3	2.6
XAN	35.8	334	eP	16 16 23.8	-1.4
CD2	36.0	325	eP	16 16 26.0	-0.5
DL2	36.8	353	eP	16 16 33.5	0.3
TIY	37.7	341	eP	16 16 41.8	0.6
BJI	38.8	347	eP	16 16 50.0	-0.5
SNY	39.5	356	-P	16 16 56.3	0.5
LZH	39.9	330	eP	16 17 00.5	1.2
MDJ	42.2	3	eP	16 17 19.0	0.6
GTA	44.5	330	eP	16 17 36.8	-0.1
WMQ	54.0	325	P	16 18 50.8	0.1

1986 8 17

O = 16 14 50.9 ± 0.06s  
 LAT = 2.24 N ± 0.84km  
 LONG = 126.91 E ± 1.87km  
 DEPTH = 33 km ± 0.11km

STATIONS USED = 41, STAND DEV = 1.03s

GZH	24.5	329	eP	16 20 10.5	1.3
NJ2	30.6	346	eP	16 21 05.0	0.5
GYA	30.9	323	P	16 21 08.0	0.3
KMI	32.6	316	eP	16 21 22.5	0.5
TIA	35.0	346	eP	16 21 42.4	-0.3
XAN	35.8	334	eP	16 21 48.6	-1.2
CD2	36.0	325	P	16 21 50.0	-0.9
DL2	36.8	353	eP	16 22 00.0	2.0

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TIY	37.7	341	cP	16 22 06.3	0.5
BJI	38.9	347	P	16 22 15.5	0.2
SNY	39.5	356	+P	16 22 21.0	0.3
MDJ	42.3	3	cP	16 22 43.5	0.1
GTA	44.5	330	P	16 23 01.0	-0.4

1986 8 17

O=16 21 00.7 ± 0.13s  
 LAT= 2.27 N ± 1.75km  
 LONG=126.97 E ± 2.36km  
 DEPTH= 33 km ± 0.11km  
 STATIONS USED = 79, STAND DEV= 1.36s

QZH	23.9	341	cP	16 26 15.5	2.4
GZH	24.5	329	+P	16 26 18.0	-0.9
SSE	29.2	350	-P	16 27 03.0	1.4
			PMZ		1.5 0.070
			pP	16 27 14.0	3.3
			sP	16 27 19.0	4.3
WHN	30.6	338	cP	16 27 11.5	-2.3
NJ2	30.6	346	-P	16 27 15.6	1.5
GYA	31.0	323	P	16 27 18.3	0.7
KMI	32.6	316	-P	16 27 33.0	1.1
TIA	35.0	346	cP	16 27 52.6	0.3
XAN	35.8	334	cP	16 27 56.8	-2.7
CD2	36.0	325	P	16 28 00.0	-0.7
TIY	37.7	341	cP	16 28 15.3	-0.2
BJI	38.8	347	+P	16 28 25.0	0.1
SNY	39.5	356	+P	16 28 30.3	0.0
LZH	39.9	330	cP	16 28 34.0	0.4
BTO	41.1	340	cP	16 28 44.0	0.1
CN2	41.4	358	cP	16 28 46.0	0.2
MDJ	42.2	3	cP	16 28 53.0	0.1
GTA	44.5	330	-iP	16 29 10.6	-0.6
WMQ	54.0	326	P	16 30 25.3	0.4
			PMZ		1.5 0.060
			eS	16 37 57.0	-0.8
			PS	16 38 10.8	
KSH	59.2	316	cP	16 31 02.6	0.8

1986 8 17

O=16 58 48.4 ± 0.10s  
 LAT= 2.33 N ± 1.37km  
 LONG=126.98 E ± 3.27km  
 DEPTH= 33 km ± 0.28km  
 STATIONS USED = 32, STAND DEV= 1.82s

GZH	24.5	328	c(P)	17 04 06.0	-0.2
XAN	35.8	334	cP	17 05 45.4	-1.4
TIY	37.7	341	cP	17 06 06.0	3.2
BJI	38.8	347	cP	17 06 12.5	0.4
SNY	39.4	356	-P	17 06 18.1	0.6

MDJ	42.2	3	cP	17 06 40.5	0.4
GTA	44.4	330	cP	17 06 57.6	-0.9
WMQ	54.0	325	P	17 08 12.0	-0.3

1986 8 17

O=17 40 14.6 ± 0.06s  
 LAT=24.00 S ± 1.29km  
 LONG=177.05 W ± 1.49km  
 DEPTH= 36 km ± 0.36km  
 STATIONS USED = 15, STAND DEV= 1.73s

CN2	85.6	322	cP	17 52 55.0	3.5
TIY	90.3	312	cP	17 53 14.8	0.9

1986 8 17

O=18 25 20.6 ± 0.11s  
 LAT= 2.23 N ± 1.67km  
 LONG=126.73 E ± 2.87km  
 DEPTH= 32 km ± 0.13km  
 STATIONS USED = 43, STAND DEV= 1.45s

GZH	24.5	329	cP	18 30 38.3	0.2
NJ2	30.6	347	cP	18 31 35.0	1.0
GYA	30.8	323	P	18 31 55.6	19.7
KMI	32.4	317	-P	18 31 51.0	0.3
XAN	35.8	334	cP	18 32 17.3	-1.6
CD2	35.9	325	cP	18 32 18.9	-0.9
DL2	36.8	353	cP	18 32 43.0	15.9
TIY	37.7	341	cP	18 32 48.0	13.5
BJI	38.8	347	cP	18 32 44.5	-0.2
SNY	39.5	356	cP	18 32 50.0	-0.4
LZH	39.8	331	cP	18 32 53.0	0.1
HHC	40.8	342	cP	18 33 02.0	0.7
BTO	41.1	341	cP	18 33 05.4	1.9
CN2	41.4	359	cP	18 33 06.0	-0.1
MDJ	42.3	3	cP	18 33 12.5	-0.8
WMQ	54.0	326	P	18 34 43.5	-0.7
KSH	59.1	316	cP	18 35 20.0	-0.8

1986 8 17

O=18 34 28.4 ± 0.11s  
 LAT= 2.32 N ± 1.72km  
 LONG=126.92 E ± 3.17km  
 DEPTH= 33 km ± 0.09km  
 STATIONS USED = 65, STAND DEV= 1.71s

QZH	23.9	341	cP	18 39 46.8	6.6
GZH	24.5	329	cP	18 39 46.0	-0.1
SSE	29.1	350	-P	18 40 31.5	2.6
			S	18 45 20.0	3.2
			LN	Ms=4.7	20.0 0.90
			LE		20.0 0.87

WHN	30.5	338	eP	18 40 39.5	-1.5
NJ2	30.5	346	eP	18 40 42.8	1.4
GYA	30.9	323	P	18 40 45.0	0.3
KMI	32.5	316	+P	18 40 59.0	-0.1
TIA	34.9	346	eP	18 41 19.1	-0.5
XAN	35.8	334	eP	18 41 25.0	-1.7
CD2	35.9	325	eP	18 41 26.6	-1.3
DL2	36.7	353	eP	18 41 37.0	2.1
TIY	37.7	341	eP	18 41 42.8	0.0
			(S)	18 47 29.5	-1.0
			LN	Ms=4.9	32.0 1.79
BJI	38.8	347	eP	18 41 52.0	-0.1
SNY	39.4	356	-P	18 41 57.4	-0.2
LZH	39.8	330	eP	18 42 00.5	-0.3
HHC	40.8	342	eP	18 42 08.4	-0.5
BTO	41.1	340	eP	18 42 12.3	1.2
CN2	41.3	358	eP	18 42 14.5	1.3
MDJ	42.2	3	eP	18 42 20.5	0.3
GTA	44.4	330	eP	18 42 36.8	-1.6
WMQ	54.0	326	P	18 43 51.0	-1.2

1986 8 17

O=19 28 40.2 ± 0.14s  
 LAT= 2.34 N ± 1.88km  
 LONG=126.87 E ± 4.02km  
 DEPTH= 33 km ± 0.16km

STATIONS USED = 54, STAND DEV= 1.99s

GZH	24.4	329	eP	19 33 58.0	0.6
SSE	29.1	350	eP	19 34 40.5	0.2
			sP	19 34 53.5	0.0
NJ2	30.5	347	eP	19 34 50.0	-2.8
GYA	30.9	323	P	19 35 14.0	18.6
			PcP	19 37 53.0	1.1
KMI	32.5	316	eP	19 35 02.0	-8.3
TIA	34.9	346	eP	19 35 30.3	-0.7
XAN	35.7	334	eP	19 35 36.8	-1.3
CD2	35.9	325	P	19 35 38.4	-0.8
TIY	37.6	341	eP	19 35 56.0	1.8
			(S)	19 41 37.5	-4.1
BJI	38.8	347	eP	19 36 04.0	0.4
SNY	39.4	356	+P	19 36 09.3	0.2
LZH	39.8	330	eP	19 36 12.0	-0.2
HHC	40.8	342	eP	19 36 21.0	0.7
BTO	41.0	340	eP	19 36 27.6	5.1
CN2	41.3	358	eP	19 36 25.0	0.3
MDJ	42.2	3	eP	19 36 32.0	0.2
GTA	44.4	330	eP	19 36 49.3	-0.4
WMQ	53.9	326	eP	19 38 04.0	0.5
KSH	59.1	316	eP	19 38 45.6	5.2

1986 8 17

O=21 14 33.0 ± 0.26s  
 LAT=14.13 S ± 2.53km  
 LONG=167.17 E ± 2.69km  
 DEPTH=180 km ± 3.44km

STATIONS USED = 29, STAND DEV= 3.43s

MDJ	67.7	332	eP	21 25 14.7	1.1
TIA	68.8	318	eP	21 25 20.1	-0.4
CN2	69.1	329	+P	21 25 23.5	1.5
BJI	71.7	321	eP	21 25 38.0	0.0
TIY	72.8	317	P	21 25 45.0	0.8
XAN	73.2	312	+P	21 25 47.6	0.8
KMI	73.9	302	eP	21 25 42.5	-8.5
CD2	75.6	307	eP	21 26 01.8	1.5
BTO	75.9	319	eP	21 26 04.0	1.7
LZH	77.8	312	eP	21 26 15.0	1.9

1986 8 17

O=21 20 43.2 ± 0.16s  
 LAT=14.43 N ± 1.78km  
 LONG=123.98 E ± 2.15km  
 DEPTH= 48 km ± 1.51km

STATIONS USED = 33, STAND DEV= 2.81s

WHN	18.3	333	eP	21 24 55.0	-0.6
GYA	20.1	309	+P	21 25 16.0	-0.3
			pP	21 25 26.4	-0.5
TIA	22.5	345	eP	21 25 20.1	-19.9
KMI	22.6	301	eP	21 25 42.5	1.2
XAN	23.8	328	+P	21 25 47.6	-5.3
CD2	24.8	315	eP	21 26 01.8	-0.4
LZH	28.1	324	eP	21 26 15.0	-17.6
WMQ	42.6	321	P	21 28 37.8	1.0

1986 8 17

O=23 47 25.7 ± 0.14s  
 LAT=23.96 N ± 1.46km  
 LONG=103.24 E ± 1.43km  
 DEPTH= 33 km ± 0.04km

STATIONS USED = 28, STAND DEV= 3.05s

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

KMI	1.2	339	-Pn	23 47 46.0	-1.5
			Pg	23 47 48.0	-0.2
			Sn	23 48 06.0	1.9
			LN		4.0 19.7
			LE		4.0 20.0
GYA	4.0	51	+Pn	23 48 27.6	2.6
			Pg	23 48 42.4	6.3
			Sn	23 49 18.8	6.9
			Sg	23 49 39.8	9.2
			SMN	ML=4.4	1.2 0.90









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KSH	66.2	307	cP	18 07 42.0	1.4		
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O	=23 16 03.9			± 0.28s			
LAT	=44.45 N			± 3.30km			
LONG	=149.58 E			± 2.76km			
DEPTH	= 31 km			± 0.63km			
STATIONS USED = 29, STAND DEV = 1.60s							
SNY	19.1	271	cP	23 20 26.6	-0.8		
BJI	25.0	272	cP	23 21 26.0	-0.9		
TIA	25.9	263	cP	23 21 35.3	-0.4		
NJ2	27.0	253	cP	23 21 46.3	1.4		
TIY	28.6	269	P	23 22 04.5	4.4		
XAN	32.9	266	cP	23 22 37.3	-0.3		
GTA	36.9	280	+iP	23 23 12.8	0.6		
CD2	38.2	265	cP	23 23 24.5	1.4		
GYA	38.8	257	P	23 23 27.3	-0.7		
WMQ	43.5	292	P	23 24 06.8	0.3		
1986 8 19							
O	=00 27 35.1			± 0.09s			
LAT	= 8.33 N			± 1.51km			
LONG	=126.55 E			± 2.05km			
DEPTH	= 32 km			± 0.27km			
STATIONS USED = 84, STAND DEV = 1.18s							
Ms=4.9/ 21, m <sub>B</sub> =5.3/ 3							
QZH	18.2	336	+P	00 31 50.0	3.1		
			LN	Ms=4.6	24.0	2.69	
GZH	19.4	321	-P	00 32 03.0	1.7		
			eS	00 35 36.0	3.1		
			SS	00 36 03.0	4.2		
			LN	Ms=5.1	22.0	6.17	
			LE		21.0	2.42	
SSE	23.2	348	+P	00 32 41.0	0.7		
			PMZ		1.0	0.10	
			sP	00 32 56.0	2.9		
			PP	00 33 16.0	5.2		
			S	00 36 48.0	2.6		
			LN	Ms=4.4	12.0	0.53	
NJ2	24.7	344	+iP	00 32 55.0	0.5		
			S	00 37 13.0	2.2		
			SME	m <sub>B</sub> =5.3	8.0	0.70	
WHN	24.9	334	cP	00 32 56.0	-0.5		
			cS	00 37 23.0	8.0		
			LE	Ms=5.0	21.0	3.13	
GYA	26.1	316	P	00 33 07.4	-0.9		
			S	00 37 34.0	-0.7		
			LN	Ms=4.9	16.0	0.80	
			LE		16.0	1.40	
KMI	28.2	309	+P	00 33 28.0	0.6		

				pP	00 33 36.0	0.0	
				PP	00 34 20.0	2.5	
				S	00 38 14.0	5.7	
				sS	00 38 28.0	3.9	
				SS	00 39 37.0	4.7	
TIA	29.0	344	cP	00 33 33.6	-1.3		
XAN	30.3	330	+P	00 33 44.4	-1.7		
			eS	00 38 41.0	-2.1		
			LE	Ms=4.7	14.0	0.69	
DL2	30.8	352	cP	00 33 51.0	0.9		
CD2	30.9	320	cP	00 33 50.8	-1.0		
			eS	00 38 50.0	-3.1		
			LE	Ms=5.1	25.0	3.30	
TIY	31.9	339	cP	00 33 59.3	-1.2		
			S	00 39 06.0	-1.5		
			LN	Ms=4.9	18.0	1.45	
BJI	32.9	345	cP	00 34 08.0	-1.0		
			PcP	00 36 53.0	0.5		
			ScP	00 40 33.0	0.1		
			eS	00 39 20.0	-3.8		
			SME	m <sub>B</sub> =5.2	6.0	0.29	
SNY	33.5	356	+iP	00 34 14.3	0.5		
			S	00 39 30.0	-1.6		
			sS	00 39 46.0	-1.5		
			LN	Ms=5.0	22.0	1.56	
			LE		20.0	0.84	
LZH	34.5	327	+iP	00 34 22.5	-0.6		
CN2	35.3	359	+P	00 34 30.8	0.9		
			PP	00 35 53.0	3.5		
			PcP	00 37 00.0	0.5		
			eS	00 40 02.0	0.4		
			ScP	00 40 41.0	-0.4		
MDJ	36.2	4	+iP	00 34 39.0	1.4		
			PP	00 36 00.0	-0.3		
			S	00 40 18.0	3.5		
			LN	Ms=4.8	30.0	1.55	
GTA	39.1	326	+iP	00 35 01.6	-0.3		
			PcP	00 37 11.4	0.4		
			ScS	00 45 12.4	6.7		
			LE	Ms=4.9	16.0	0.93	
WMQ	48.9	323	P	00 36 21.0	0.3		
			LN	Ms=5.1	42.0	2.82	
KSH	54.7	313	P	00 37 03.4	-0.9		
			eS	00 44 38.4	-2.8		
			LE	Ms=5.6	17.0	3.00	

1986 8 19							
O	=02 24 27.7			± 0.17s			
LAT	=26.22 N			± 3.02km			
LONG	=128.93 E			± 2.15km			

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DEPTH = 38 km ± 0.61km  
 STATIONS USED = 57, STAND DEV = 2.36s  
 Ms = 4.6 / 18,

SSE	8.4	307	+P	02 26 27.6	-1.8		
			PMZ			1.0	0.030
			cS	02 28 04.6	1.4		
			sS	02 28 20.0	5.5		
			LN	Ms = 4.5		11.0	1.90
			LE			11.0	2.63
QZH	9.4	264	cP	02 26 42.1	-2.0		
NJ2	10.5	306	-P	02 26 58.0	-1.7		
			LN	Ms = 4.9		11.0	5.10
WHN	13.5	292	cP	02 27 47.5	7.7		
			LE	Ms = 4.5		10.0	1.25
TIA	14.2	317	cP	02 27 55.0	6.8		
			LE	Ms = 4.7		12.0	2.22
SNY	16.2	346	-P	02 28 14.4	0.2		
BJI	17.4	326	cP	02 28 30.0	0.4		
			(S)	02 31 42.0	1.8		
			LN	Ms = 4.6		14.0	1.41
CN2	17.8	352	cP	02 28 33.0	-1.1		
			cS	02 31 48.0	-0.4		
TIY	18.1	313	cP	02 28 38.3	0.5		
			cS	02 31 55.0	0.0		
			LN	Ms = 4.7		11.0	1.26
			LE			11.0	0.82
MDJ	18.4	2	cP	02 28 39.3	-2.2		
XAN	19.0	299	cP	02 28 47.6	-1.2		
			cLG <sub>2</sub>	02 34 46.0	-7.3		
			LN	Ms = 4.6		12.0	0.90
			LE			12.0	0.51
GYA	20.0	276	P	02 29 00.3	0.5		
			S	02 32 36.0	-0.5		
			LE	Ms = 4.8		12.0	1.50
HHC	20.5	320	cP	02 29 03.3	-2.2		
BTO	21.3	317	cP	02 29 11.9	-1.5		
			cS	02 33 00.0	-2.7		
			LN	Ms = 4.6		12.0	0.70
			LE			12.0	0.60
CD2	22.6	288	cP	02 29 24.3	-2.1		
			cS	02 33 25.0	-1.7		
LZH	23.6	301	P	02 29 36.0	-0.1		
			LN	Ms = 4.7		10.0	0.88
GTA	27.6	306	+iP	02 30 12.3	-2.3		
			pP	02 30 21.6	-2.6		
			LN	Ms = 4.6		12.0	0.61
WMQ	37.6	309	P	02 31 40.0	-1.2		

1986 8 19  
 O = 04 38 15.5 ± 0.15s

LAT = 28.19 N ± 3.21km  
 LONG = 140.70 E ± 2.57km  
 DEPTH = 35 km ± 0.72km  
 STATIONS USED = 26, STAND DEV = 2.50s  
 Ms = 4.5 / 3, m<sub>B</sub> = 5.6 / 4

SSE	17.2	284	+P	04 42 16.0	1.0		
			cS	04 45 18.0	-5.9		
			PcP	04 47 04.0	6.0		
NJ2	19.3	287	+P	04 42 40.0	-0.3		
CN2	19.8	326	cP	04 42 58.0	12.2		
TIA	21.5	298	cP	04 43 02.0	-1.2		
			LE	Ms = 4.6		10.0	0.75
WHN	23.1	282	P	04 43 24.0	4.8		
			PMZ	m <sub>B</sub> = 5.5		5.0	0.95
			PP	04 43 53.0	3.8		
			S	04 47 32.0	8.9		
			SMN	m <sub>B</sub> = 5.7		6.0	1.26
			LN	Ms = 4.5		10.0	0.55
BJI	23.4	307	(P)	04 43 20.5	-2.0		
TIY	25.5	299	cP	04 43 44.3	1.8		
			pP	04 43 52.5	0.9		
			sS	04 48 30.0	9.8		
			LN	Ms = 4.2		12.0	0.28
XAN	27.8	290	cP	04 44 02.3	-1.2		
GYA	30.2	275	P	04 44 25.8	0.1		
GTA	35.5	299	cP	04 45 10.3	-1.2		
WMQ	44.9	305	cP	04 46 27.5	-1.4		
KSH	53.9	300	cP	04 47 45.0	6.6		

1986 8 19  
 O = 10 22 11.6 ± 0.09s  
 LAT = 37.42 N ± 1.39km  
 LONG = 71.62 E ± 0.93km  
 DEPTH = 47 km ± 0.51km  
 STATIONS USED = 10, STAND DEV = 3.30s

M<sub>L</sub> = 4.0 / 2,

KSH	4.0	58	Pg	10 23 21.8	-0.8		
			Sg	10 24 09.3	-7.8		
			SMN	M <sub>L</sub> = 4.1		0.5	0.40
			SME			0.4	0.40
GTA	22.2	76	P	10 27 06.8	1.4		

1986 8 19  
 O = 12 52 40.7 ± 0.08s  
 LAT = 4.14 S ± 1.01km  
 LONG = 129.44 E ± 1.54km  
 DEPTH = 35 km ± 0.30km  
 STATIONS USED = 56, STAND DEV = 0.85s

NJ2	37.4	345	+P	12 59 52.0	-0.3		
WHN	37.4	338	cP	12 59 51.0	-1.4		

August, 1986

GYA	37.6	325	-P	12 59 54.8	0.7
KMI	39.0	320	-P	13 00 07.5	1.6
CD2	42.6	327	cP	13 00 35.5	-0.3
XAN	42.6	335	-P	13 00 35.3	-0.6
TIY	44.5	341	cP	13 00 51.0	-0.4
BJI	45.6	346	cP	13 00 59.0	-1.0
LZH	46.6	331	P	13 01 08.5	0.3
CN2	47.8	356	cP	13 01 18.0	0.4
BTO	47.9	340	cP	13 01 17.8	-0.7
MDJ	48.5	0	cP	13 01 23.8	0.9
GTA	51.2	331	cP	13 01 43.3	-0.3
WMQ	60.7	326	-iP	13 02 51.3	-0.5
KSH	65.5	317	cP	13 03 23.8	0.2
			PP	13 05 48.8	-0.4
			cS	13 12 01.0	-4.0

1986 8 19

O = 22 41 36.3 ± 0.11s  
 LAT = 12.62 N ± 1.53km  
 LONG = 124.59 E ± 1.99km  
 DEPTH = 101 km ± 0.46km  
 STATIONS USED = 70, STAND DEV = 1.98s

$m_B = 5.5 / 7$

QZH	13.5	336	cP	22 44 44.0	-0.9	6.0	0.49
			cS	22 47 18.0	5.0		
			SME				
GZH	14.9	316	eP	22 45 07.5	4.3	32.0	1.94
			LN				
SSE	18.6	351	P	22 45 49.0	0.2	20.0	3.00
			PP	22 46 06.0	-2.6		
			S	22 49 16.0	6.3		
			SMN				
			sS	22 49 28.0	-5.4		
NJ2	20.0	346	+P	22 46 01.0	-2.8	10.0	1.30
			S	22 49 40.0	2.0		
			SMN				
WHN	20.2	334	cP	22 46 04.0	-1.3	16.0	1.21
			pP	22 46 24.0	-0.7		
			cS	22 49 44.0	2.4		
			SME				
GYA	21.8	312	P	22 46 21.0	-0.2	9.0	0.96
			SS	22 50 55.0	0.4		
KMI	24.1	304	-P	22 46 44.0	0.2		
			sP	22 47 17.0	-0.6		
			cS	22 50 50.0	-1.6		
TIA	24.4	345	P	22 46 47.8	0.8		
			cpP	22 47 09.0	0.5		
			SME				
XAN	25.7	329	-iP	22 46 57.8	-0.8		
			S	22 51 15.0	-1.6		

CD2	26.5	317	cP	22 47 05.6	-0.6				
			cS	22 51 30.0	-1.1				
TIY	27.2	339	cP	22 47 11.0	-2.3				
			cS	22 51 45.0	1.4				
			sS	22 52 24.0	2.1				
			LE			31.0	0.79		
BJI	28.3	346	cP	22 47 22.0	-0.7				
SNY	29.1	358	+iP	22 47 30.3	0.4				
LZH	29.9	325	-iP	22 47 37.5	0.1				
			LN					10.0	0.88
HHC	30.4	340	cP	22 47 41.3	0.2				
BTO	30.7	338	cP	22 47 44.0	0.1				
			S	22 52 47.0	9.9				
			LN					10.0	0.30
			LE			11.0	0.30		
MDJ	32.2	7	cP	22 47 58.0	1.1				
			cS	22 53 00.0	-1.4				
GTA	34.5	325	P	22 48 17.0	-0.3				
			PcP	22 50 49.5	-0.2				
			ScP	22 54 25.4	1.2				
			cS	22 53 37.0	-1.2				
			ScS	22 58 26.0	0.1				
			LN					19.5	0.42
WMQ	44.4	322	P	22 49 38.5	-0.3				
KSH	50.4	311	cP	22 50 16.0	-10.2				

1986 8 19

O = 22 45 46.7 ± 0.27s  
 LAT = 5.97 S ± 1.94km  
 LONG = 154.23 E ± 2.00km  
 DEPTH = 62 km ± 2.25km  
 STATIONS USED = 38, STAND DEV = 1.47s

QZH	46.3	313	-P	22 54 08.9	0.2
WHN	52.7	316	cP	22 54 58.0	0.5
TIA	54.5	323	cP	22 55 10.0	-0.9
GYA	56.2	307	P	22 55 23.6	0.0
XAN	58.4	316	-P	22 55 37.4	-1.7
KMI	58.8	304	-P	22 55 42.5	0.6
LZH	63.1	316	P	22 56 10.0	-0.6
GTA	67.5	317	P	22 56 38.1	-0.8
KSH	84.8	310	cP	22 58 31.4	16.1

1986 8 20

O = 05 25 17.5 ± 0.24s  
 LAT = 40.04 N ± 1.89km  
 LONG = 77.76 E ± 1.19km  
 DEPTH = 31 km ± 1.06km  
 STATIONS USED = 30, STAND DEV = 1.81s

KSH	1.5	247	+iPg	05 25 43.8	-0.8
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	pP	07 14 55.3	1.3					O = 10 09 31.9	± 0.14s				
	sP	07 15 04.0	0.8					LAT = 17.08 S	± 2.69km				
	PcP	07 15 41.0	9.7					LONG = 173.37 W	± 2.07km				
	PP	07 16 40.0	-1.3					DEPTH = 31 km	± 0.18km				
	S	07 22 08.0	-6.4					STATIONS USED = 47,	STAND DEV = 1.43s				
	LN	Ms = 5.7	15.0	2.80	MDJ	80.4	323	cP	10 21 45.0	2.4			
	LE		16.0	1.43	CN2	82.4	320	cP	10 21 54.6	1.4			
KMI	56.1	305	-P	07 14 36.5	0.9			SNY	82.5	318	+P	10 21 54.6	0.7
	pP	07 14 57.0	2.3					TIA	84.3	310	cP	10 22 03.4	0.4
	S	07 22 18.0	2.4					BJI	86.6	314	cP	10 22 14.5	0.0
	LN	Ms = 5.9	16.0	5.60	TIY	88.4	310	cP	10 22 24.0	1.2			
CD2	58.0	311	eP	07 14 47.8	-1.0				sP	10 22 45.0	9.1		
	pP	07 15 08.0	-0.1						SKS	10 32 49.5	3.6		
	S	07 22 43.4	2.9						S	10 33 04.0	1.3		
	LE	Ms = 6.0	13.0	4.70	GYA	88.9	298	-P	10 22 26.6	1.3			
HHC	58.6	325	P	07 14 52.5	-0.7			XAN	89.6	306	+P	10 22 29.8	0.9
	pP	07 15 12.0	-0.5					BTO	91.2	312	cP	10 22 38.8	2.6
	S	07 22 43.0	-5.7					KMI	91.8	296	+P	10 22 40.0	0.9
	SMN	m <sub>B</sub> = 6.4	9.0	2.47	LZH	94.2	306	P	10 22 50.0	-0.2			
	SME		9.0	4.04	GTA	98.2	309	P	10 23 08.4	0.0			
	LN	Ms = 5.9	14.0	2.00									
	LE		15.0	3.42									
BTO	59.3	324	P	07 14 58.0	-0.3			1986 8 20					
	pP	07 15 17.0	-0.6					O = 18 15 38.3	± 0.12s				
	ePP	07 17 12.0	0.9					LAT = 2.10 N	± 1.96km				
	S	07 23 02.0	3.9					LONG = 126.55 E	± 3.01km				
	sS	07 23 35.0	2.1					DEPTH = 33 km	± 0.47km				
	SS	07 27 00.0	4.3					STATIONS USED = 75,	STAND DEV = 1.84s				
	LN	Ms = 5.9	20.0	3.60	QZH	24.0	342	cP	18 20 50.3	-0.6			
	LE		20.0	4.40				LN	Ms = 4.8	32.0	3.67		
LZH	60.6	317	P	07 15 07.0	0.1			GZH	24.5	330	P	18 20 56.0	0.2
	pP	07 15 26.0	-0.3					SSE	29.3	351	P	18 21 40.1	0.1
	S	07 23 16.0	1.8						PMZ		1.2	0.030	
	LN	Ms = 5.7	13.0	1.99					sP	18 21 53.5	0.3		
	LE		12.0	1.00					ePP	18 22 34.0	-1.0		
GTA	65.1	318	eP	07 15 36.4	0.0				S	18 26 30.0	0.9		
	ipP	07 15 55.5	-0.5						PcS	18 28 30.0	2.4		
	S	07 24 12.5	2.5						LN	Ms = 4.9	28.0	2.09	
	PS	07 24 39.0							LE		28.0	1.61	
	SS	07 28 28.0	2.6					WHN	30.6	339	cP	18 21 51.6	0.2
	LN	Ms = 5.7	16.0	2.51	NJ2	30.7	347	+P	18 21 53.0	0.7			
WMQ	75.1	318	P	07 16 36.5	-1.1			GYA	30.8	324	P	18 21 45.4	-8.7
	PMZ	m <sub>B</sub> = 6.4	5.0	3.48	KMI	32.4	317	cP	18 21 59.0	-9.0			
	S	07 26 16.3	8.9					TIA	35.0	347	cP	18 22 30.0	-0.5
	SME	m <sub>B</sub> = 6.3	9.0	2.55	XAN	35.8	335	P	18 22 36.4	-0.5			
KSH	82.2	311	eP	07 17 15.9	-0.1			DL2	36.9	354	P	18 22 47.4	1.2
	eS	07 27 26.9	3.0					TIY	37.7	342	cP	18 22 53.4	0.1
	csS	07 27 58.9	0.3						S	18 28 43.5	3.0		
									LN	Ms = 5.0	18.0	1.45	
								BJI	38.9	347	cP	18 23 03.0	-0.1

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SNY	39.6	357	-iP	18 23 10.0	1.0		
			S	18 29 10.0	0.7		
			LN		Ms=4.9	30.0	1.33
			LE			30.0	0.94
LZH	39.8	331	-iP	18 23 11.0	0.3		
HHC	40.9	343	-P	18 23 19.5	0.0		
BTO	41.1	341	eP	18 23 21.0	-0.6		
CN2	41.5	359	eP	18 23 24.0	-0.7		
MDJ	42.4	3	+P	18 23 33.0	1.0		
GTA	44.4	330	+P	18 23 47.1	-1.1		
			PP	18 25 33.0	0.0		
			S	18 30 17.5	-1.9		
			LN		Ms=4.8	27.0	0.90
WMQ	54.0	326	P	18 25 00.5	-1.3		
			PMZ			1.0	0.070
			pP	18 25 08.5	-2.7		
			PcP	18 26 06.5	0.5		
			ScP	18 30 00.0	0.2		
			S	18 32 34.5	1.8		
			PS	18 32 43.5			
			ScS	18 34 45.0	0.8		
KSH	59.0	316	eP	18 25 38.3	0.1		
			sP	18 25 52.3	0.9		
			PP	18 27 49.3	-0.3		
			eS	18 33 39.3	-2.2		

1986 8 20

O=21 15 46.6 ± 0.14s  
 LAT= 1.99 S ± 2.63km  
 LONG= 87.14 E ± 2.45km  
 DEPTH= 9 km ± 0.38km  
 STATIONS USED = 44, STAND DEV = 2.21s

GYA	34.0	32	P	21 22 32.8	-0.5		
CD2	36.3	25	P	21 22 52.9	-0.4		
LZH	41.0	21	-P	21 23 30.5	-1.5		
XAN	41.3	28	-P	21 23 32.8	-1.7		
WHN	41.5	37	eP	21 23 37.0	1.1		
GTA	42.8	14	P	21 23 46.3	-0.9		
WMQ	45.6	1	P	21 24 09.5	-0.1		
TIA	47.2	33	eP	21 24 30.0	8.1		
BTO	47.3	24	+iP	21 24 22.0	-0.6		
BJI	49.6	29	eP	21 24 40.0	-0.4		
SNY	54.7	33	+P	21 25 26.5	7.6		

1986 8 20

O=21 23 52.1 ± 0.15s  
 LAT=34.54 N ± 1.86km  
 LONG= 91.75 E ± 1.61km  
 DEPTH= 15 km ± 0.03km  
 STATIONS USED = 81, STAND DEV = 2.23s

						Ms=6.4 / 40,	m <sub>B</sub> =6.0 / 11
GTA	8.1	51	-iP	21 25 51.8	-0.4		
			S	21 27 27.0	3.3		
			LE		Ms=5.8	14.0	93.1
WMQ	9.8	342	P	21 26 14.5	-1.3		
			S	21 28 05.0	-1.1		
			LE		Ms=6.7	10.0	379
LZH	10.0	78	P	21 26 18.5	-0.4		
			PMZ		m <sub>B</sub> =6.0	4.0	1.90
			S	21 28 07.0	-4.5		
			LG <sub>1</sub>	21 29 04.0	-2.4		
			LG <sub>2</sub>	21 29 25.0	2.8		
CD2	10.7	106	eP	21 26 30.3	1.4		
			S	21 28 32.8	3.2		
			LN		Ms=6.7	9.0	281
KMI	13.4	132	+iP	21 27 01.0	-3.6		
			pP	21 27 07.0	-2.3		
			sP	21 27 10.0	-3.0		
			S	21 29 34.0	0.6		
			LE		Ms=6.3	9.0	86.0
KSH	13.5	296	+iP	21 27 05.4	-1.0		
			pP	21 27 11.4	0.1		
			eS	21 29 37.4	-0.2		
			LE		Ms=6.3	8.0	70.6
XAN	14.2	87	-P	21 27 15.0	-0.4		
			PP	21 27 27.3	1.0		
			S	21 30 00.0	6.7		
			SS	21 30 16.0	6.4		
			LG <sub>1</sub>	21 31 28.0	9.5		
			LE		Ms=5.2	12.0	7.30
GYA	15.2	118	+P	21 27 26.0	-1.9		
			sP	21 27 35.0	-1.6		
			S	21 30 11.0	-4.8		
			LN		Ms=6.4	12.0	79.2
			LE			12.0	63.6
BTO	15.7	62	P	21 27 32.3	-2.4		
			PMZ		m <sub>B</sub> =5.5	6.0	1.30
			pP	21 27 38.0	-1.7		
			sP	21 27 42.0	-1.5		
			S	21 30 25.0	-3.1		
			LG <sub>1</sub>	21 31 59.0	-5.9		
			LG <sub>2</sub>	21 32 22.0	-7.7		
			LN		Ms=6.2	12.0	37.8
			LE			12.0	47.4
HHC	16.9	62	+P	21 27 49.0	-1.0		
			pP	21 27 54.0	-1.1		
			sP	21 27 59.0	0.2		
			S	21 31 00.0	4.1		
			SMN		m <sub>B</sub> =6.2	9.0	9.16
			SME			8.0	7.14



			LN	Ms = 6.2	10.0	19.9			SME		14.0	21.3	
			LE		10.0	46.3			LN	Ms = 6.4	8.0	16.9	
TIY	17.0	73	cP	21 27 47.8	-3.7				LE		14.0	42.5	
			S	21 30 58.0	-0.7			MDJ	30.6	59	-P	21 30 08.8	0.5
			SMN			22.0	8.90		cS		21 35 17.0	8.0	
			SME			15.0	4.53		LE	Ms = 6.6	16.0	74.6	
			LN	Ms = 6.6	18.0	188							
WHN	19.5	96	P	21 28 21.0	-0.3					1986 8 20			
			PMZ	m <sub>B</sub> = 5.8	6.0	2.50			O = 22 01 36.0		± 0.06s		
			sP	21 28 29.0	-1.3				LAT = 31.51 N		± 1.18km		
			S	21 31 59.0	4.9				LONG = 140.68 E		± 1.51km		
			SMN	m <sub>B</sub> = 6.3	11.0	18.5			DEPTH = 107 km		± 0.80km		
			LN	Ms = 7.0	20.0	509			STATIONS USED = 41,		STAND DEV = 1.19s		
BJI	20.2	67	cP	21 28 30.5	1.3			MDJ	15.7	330	+P	22 05 12.0	-0.8
			PMZ			3.0	4.49	SSE	16.7	274	P	22 05 27.0	2.3
			SMN			13.0	27.2	SNY	17.1	312	-P	22 05 31.5	1.2
			LN	Ms = 6.4	12.0	59.2		CN2	17.2	320	+P	22 05 30.8	-0.1
TIA	20.7	78	cP	21 28 34.8	-0.4			NJ2	18.6	277	-P	22 05 48.4	1.1
			esP	21 28 47.5	3.1			TIA	20.1	290	cP	22 06 04.3	0.5
			S	21 32 28.5	7.6			BJI	21.6	300	cP	22 06 17.0	-1.6
			SMN			16.0	17.3	TIY	24.0	293	cP	22 06 42.4	9.1
			SME			8.0	5.37	XAN	26.8	284	+P	22 07 07.3	-0.9
			LN	Ms = 6.5	8.0	8.36		GYA	30.1	269	cP	22 07 37.4	-0.8
			LE			10.0	66.4	GTA	34.0	295	cP	22 08 10.8	-1.2
GZH	22.0	115	-P	21 28 49.5	1.1					1986 8 20			
			iS	21 32 56.0	9.7				O = 22 32 04.8		± 0.13s		
			LN	Ms = 6.7	15.0	107			LAT = 34.47 N		± 1.62km		
			LE			14.0	73.0		LONG = 91.70 E		± 1.45km		
NJ2	22.8	89	-P	21 28 56.4	0.8				DEPTH = 33 km		± 0.03km		
			S	21 33 00.0	1.3				STATIONS USED = 61,		STAND DEV = 2.30s		
			SMN			14.0	24.2		Ms = 5.3 / 4,				
			LN	Ms = 6.5	20.0	101		GTA	8.2	50	P	22 34 03.4	-0.6
DL2	24.3	71	-P	21 29 12.0	1.7			WMQ	9.8	343	P	22 34 26.5	-0.9
			iS	21 33 34.0	8.0						S	22 36 15.0	-2.6
			sS	21 33 43.0	7.1						LE		1.5 0.20
			LN	Ms = 6.5	12.0	14.1		LZH	10.1	77	P	22 34 29.0	-1.4
			LE			16.0	69.2				LG <sub>2</sub>	22 37 39.0	2.2
SSE	24.9	90	-P	21 29 17.5	0.9						LN	Ms = 5.1	11.0 9.15
			sP	21 29 28.0	2.2			CD2	10.8	106	cP	22 34 39.8	-0.1
			ePP	21 29 52.5	-0.6			KMI	13.4	131	cP	22 35 13.0	-2.0
			eS	21 33 47.0	10.0			KSH	13.5	296	cP	22 35 14.0	-3.1
			sS	21 33 47.0	0.0			XAN	14.3	87	-P	22 35 24.4	-2.2
			SS	21 34 35.0	0.6			GYA	15.2	118	-P	22 35 36.6	-2.0
			PcS	21 36 30.0	-1.3						S	22 38 29.0	3.5
			LN	Ms = 6.6	11.0	9.27		BTO	15.8	62	cP	22 35 43.5	-2.8
			LE			11.0	60.3	TIY	17.1	73	-iP	22 36 05.0	2.2
SNY	25.9	64	+P	21 29 26.3	0.1						PMZ		1.0 0.080
			pP	21 29 34.5	2.3						S	22 39 16.5	6.9
			S	21 33 53.5	0.4						LE	Ms = 4.5	16.0 1.58
			SMN	m <sub>B</sub> = 6.6	7.5	6.78							

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WHN	19.5	95	eP	22 36 31.5	-0.6
BJI	20.2	67	eP	22 36 41.0	0.9
TIA	20.8	78	eP	22 36 46.8	0.7
GZH	22.1	115	-iP	22 37 02.3	3.6
NJ2	22.8	88	-iP	22 37 07.8	1.6
SSE	25.0	89	P	22 37 28.5	1.3
SNY	26.0	64	-iP	22 37 39.3	2.3
CN2	27.6	60	eP	22 37 51.0	-0.8

1986 8 20

O=23 36 14.1 ± 0.18s  
 LAT=34.44 N ± 2.41km  
 LONG= 91.74 E ± 2.31km  
 DEPTH= 14 km ± 0.67km  
 STATIONS USED = 43, STAND DEV = 2.34s

Ms=4.6 / 5,

GTA	8.1	50	P	23 38 14.8	-0.4
WMQ	9.9	343	P	23 38 37.0	-2.1
			LE		2.0 0.29
CD2	10.7	106	eP	23 38 48.5	-2.1
KMI	13.3	131	eP	23 39 28.5	2.7
KSH	13.6	296	eP	23 39 25.0	-4.0
XAN	14.2	87	eP	23 39 35.3	-2.3
GYA	15.1	118	P	23 39 47.3	-2.1
BTO	15.7	62	eP	23 39 57.0	-0.5
			eS	23 42 50.0	-2.2
			LN	Ms=4.6	11.0 0.90
			LE		11.0 1.00
TIY	17.0	73	iP	23 40 16.4	2.4
			LG <sub>1</sub>	23 45 16.5	7.1
			LE	Ms=4.5	16.0 1.58
WHN	19.5	95	eP	23 40 41.5	-1.8
BJI	20.2	67	eP	23 40 51.5	-0.2
TIA	20.8	78	eP	23 40 56.3	-1.3
NJ2	22.8	88	eP	23 41 18.0	0.3
SSE	24.9	89	P	23 41 39.0	0.3
			S	23 45 56.0	-2.5
			LE	Ms=4.9	9.0 1.18
SNY	26.0	64	-P	23 41 52.4	3.7
CN2	27.6	60	eP	23 42 04.0	0.5

1986 8 21

O=01 34 17.4 ± 0.06s  
 LAT=36.56 N ± 1.15km  
 LONG= 71.11 E ± 1.07km  
 DEPTH=235 km ± 0.47km  
 STATIONS USED = 78, STAND DEV = 1.04s

M<sub>L</sub>=5.7 / 2, m<sub>B</sub>=5.1 / 4

KSH	4.8	52	-iP	01 35 31.5	0.2
			S	01 36 28.5	0.4

			LE						
GTA	22.8	74	-iP	01 39 02.4	1.4				
			pP	01 39 43.0	5.2				
			sP	01 40 11.0	-0.9				
			S	01 42 52.0	3.4				
			SME			14.0	1.39		
LZH	26.3	81	-P	01 39 34.5	0.5				
			pP	01 40 23.0	4.1				
			S	01 43 47.0	-0.1				
			sS	01 45 05.0	-3.1				
CD2	27.6	92	+iP	01 39 46.3	0.3				
			PMZ			1.1	0.19		
KMI	29.3	104	-P	01 40 00.0	-1.1				
			S	01 44 39.0	3.8				
BTO	30.5	70	+iP	01 40 11.5	0.1				
			pP	01 41 02.0	4.2				
			eS	01 44 55.0	0.1				
XAN	30.8	83	-iP	01 40 13.4	-0.7				
			PMZ			1.0	0.12		
			pP	01 41 08.5	7.8				
			PP	01 41 27.0	1.6				
			PcP	01 43 03.5	-1.1				
			eS	01 44 58.0	-1.9				
			ScP	01 46 22.3	-1.2				
HHC	31.7	70	+P	01 40 21.6	0.2				
			PP	01 41 35.0	-0.5				
			iS	01 45 17.0	4.2				
			SME			m <sub>B</sub> =5.3	4.0	0.70	
GYA	31.8	98	-P	01 40 22.3	-0.2				
			PMZ			1.4	0.10		
			sP	01 41 35.0	-1.1				
			PcP	01 43 07.0	-0.2				
			S	01 45 14.6	1.0				
			ScP	01 46 25.3	-1.4				
			PcS	01 46 50.0	-0.3				
TIY	32.8	75	-iP	01 40 31.0	0.0				
			PP	01 41 45.5	-3.8				
			PPMZ			5.0	0.92		
			S	01 45 31.0	2.0				
			SME			m <sub>B</sub> =5.0	7.0	0.64	
			LN			9.0	0.22		
			LE			8.0	0.39		
BJI	35.3	70	eP	01 40 52.0	0.1				
			sP	01 42 10.0	3.8				
			PcP	01 43 16.0	-1.0				
			ScP	01 46 37.0	-1.8				
			eS	01 46 06.0	-2.0				
			ScS	01 50 43.0	0.6				
WHN	36.3	87	P	01 41 01.0	0.3				
			ScP	01 46 41.5	-1.1				

TIA	36.8	76	-P	01 41 05.0	0.3		
GZH	38.7	98	+iP	01 41 21.5	0.6		
NJ2	39.4	82	+iP	01 41 27.0	0.7		
			iScP	01 46 53.4	-0.8		
			S	01 47 10.0	0.6		
			SME			13.0	0.40
SNY	40.5	66	-P	01 41 34.6	-0.7		
			PcP	01 43 32.0	-1.2		
			S	01 47 21.0	-4.7		
			SME			20.0	0.60
CN2	41.5	63	-P	01 41 43.0	-0.7		
			epP	01 42 34.0	1.5		
SSE	41.6	82	+P	01 41 45.0	0.7		
			PMZ			1.0	0.050
			pP	01 42 35.8	2.7		
			S	01 47 44.0	2.2		
			SMN			16.0	0.95
			esS	01 49 15.0	6.6		
MDJ	44.3	61	cP	01 42 07.1	0.9		

1986 8 21

O=06 37 08.1 ± 0.05s

LAT=53.92 N ± 1.45km

LONG=160.38 E ± 0.86km

DEPTH= 32 km ± 0.09km

STATIONS USED = 39, STAND DEV= 0.82s

MDJ	22.0	258	cP	06 42 01.3	-0.1		
CN2	24.9	260	cP	06 42 29.0	-0.6		
			(S)	06 46 48.0	-0.2		
SNY	27.2	259	-P	06 42 50.8	-0.2		
XAN	41.0	262	P	06 44 49.0	-0.9		
LZH	42.5	269	cP	06 45 02.5	-0.5		
GTA	42.7	276	+P	06 45 04.6	0.3		
GYA	47.8	257	P	06 45 45.3	-0.1		

1986 8 21

O=12 40 11.2 ± 0.16s

LAT= 0.04 N ± 1.35km

LONG=124.04 E ± 1.80km

DEPTH=118 km ± 1.58km

STATIONS USED = 31, STAND DEV= 2.05s

CD2	36.2	330	cP	12 47 04.6	-0.5		
XAN	36.7	339	cP	12 47 07.3	-1.4		
TIY	39.0	345	c(P)	12 47 28.0	-0.1		
			S	12 53 21.5	4.5		
			LN			11.0	0.25
BJI	40.5	351	cP	12 47 38.5	-1.5		
LZH	40.5	334	cP	12 47 41.0	0.5		
GTA	45.0	333	P	12 48 16.3	-1.0		

1986 8 21

O=17 01 27.0 ± 0.11s

LAT= 8.92 S ± 3.55km

LONG=109.82 W ± 2.64km

DEPTH= 14 km ± 0.86km

STATIONS USED = 10, STAND DEV= 2.81s

GTA	139.7	324	cPKP	17 20 51.8	-4.1		
KMI	145.1	302	cPKP	17 21 06.0	0.6		

1986 8 21

O=17 38 10.3 ± 0.08s

LAT= 1.86 N ± 1.09km

LONG=126.67 E ± 2.00km

DEPTH= 32 km ± 0.25km

STATIONS USED = 28, STAND DEV= 1.60s

KMI	32.7	317	cP	17 44 42.0	-0.5		
XAN	36.1	335	P	17 45 10.0	-1.3		
BJI	39.2	347	cP	17 45 36.5	-0.9		
SNY	39.9	356	cP	17 45 45.0	1.8		
LZH	40.1	331	cP	17 45 44.0	-1.1		
MDJ	42.7	3	cP	17 46 10.0	3.9		
GTA	44.7	330	P	17 46 21.4	-1.1		

1986 8 21

O=17 55 29.5 ± 0.07s

LAT= 1.59 N ± 1.20km

LONG=127.66 E ± 1.18km

DEPTH= 51 km ± 0.87km

STATIONS USED = 36, STAND DEV= 1.06s

KMI	33.5	316	cP	18 02 06.0	-1.3		
XAN	36.7	334	P	18 02 34.0	-0.2		
TIY	38.6	340	cP	18 02 50.0	0.3		
			S	18 08 47.5	6.9		
BJI	39.7	346	cP	18 02 57.0	-1.6		
SNY	40.2	355	cP	18 03 04.6	1.4		
LZH	40.8	330	cP	18 03 09.0	0.7		
HHC	41.7	342	+P	18 03 16.4	0.8		
BTO	42.0	340	cP	18 03 19.0	1.1		
MDJ	42.9	2	cP	18 03 24.6	-0.5		
GTA	45.4	329	P	18 03 45.0	-0.5		
KSH	60.2	316	cP	18 05 38.0	2.8		

1986 8 21

O=19 11 13.9 ± 0.23s

LAT=37.19 N ± 2.49km

LONG= 80.17 E ± 0.68km

DEPTH= 0 km ± 0.13km

STATIONS USED = 6, STAND DEV= 2.56s

$M_L=4.1/4,$

KSH	4.0	306	-Pn	19 12 17.8	1.1		
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	Sg	19 13 18.3	-0.6		
	SMN	$M_L=4.3$	0.6	0.60	
	SME		0.8	0.80	
WMQ 8.8 39	cP	19 13 27.0	2.1		
	S	19 15 02.6	-2.6		
	SMN	$M_L=4.1$	1.0	0.050	
	SME		0.8	0.030	

	Sg	02 04 36.0	2.9		
	SMN	$M_L=3.9$	0.8	0.66	
SNY 3.4 265	+iPg	02 04 06.8	-2.8		
	Sg	02 04 48.3	-7.4		
	SMN	$M_L=4.0$	0.6	0.49	
	SME		0.6	0.48	
GTA 21.5 272	P	02 07 59.8	-0.7		

1986 8 21

O=19 51 38.3 ± 0.21s  
 LAT=17.60 S ± 1.94km  
 LONG=168.59 E ± 1.94km  
 DEPTH= 39 km ± 2.00km

STATIONS USED = 20, STAND DEV = 2.08s

MDJ 71.4 332	cP	20 02 55.0	-2.0
CN2 72.7 329	-P	20 03 05.0	0.0
GYA 74.4 305	P	20 03 18.8	4.1
XAN 76.5 313	cP	20 03 25.4	-1.7
KMI 76.9 302	cP	20 03 33.5	4.3
LZH 81.2 312	cP	20 03 52.0	-0.5
GTA 85.6 314	P	20 04 13.9	-0.8

1986 8 21

O=23 48 56.1 ± 0.04s  
 LAT= 2.56 N ± 1.39km  
 LONG=127.90 E ± 1.73km  
 DEPTH= 44 km ± 0.96km

STATIONS USED = 14, STAND DEV = 1.13s

GZH 24.8 327	cP	23 54 16.0	0.2
XAN 36.0 333	P	23 55 54.0	-1.2
BJI 38.8 346	cP	23 56 17.0	-1.7
LZH 40.1 329	-P	23 56 30.0	0.3
GTA 44.7 329	P	23 57 06.8	-0.5

1986 8 22

O=02 03 10.0 ± 0.18s  
 LAT=42.21 N ± 1.98km  
 LONG=128.07 E ± 1.23km  
 DEPTH= 20 km ± 2.74km

STATIONS USED = 11, STAND DEV = 3.71s

$M_L=4.0/6,$

CN2 2.5 310	+Pn	02 03 47.5	-2.5		
	Pg	02 03 52.6	-1.5		
	Sn	02 04 15.8	-5.8		
	Sg	02 04 23.6	-4.7		
	SMN	$M_L=4.1$	0.4	1.10	
	SME		0.4	1.20	
MDJ 2.6 24	Pn	02 03 54.0	1.9		
	Pg	02 04 01.3	4.5		
	Sn	02 04 27.8	2.4		

1986 8 22

O=12 25 52.0 ± 0.12s  
 LAT= 1.75 N ± 1.62km  
 LONG=126.89 E ± 2.85km  
 DEPTH= 34 km ± 0.54km

STATIONS USED = 45, STAND DEV = 1.64s

WHN 31.0 339	cP	12 32 09.0	0.0
GYA 31.3 323	P	12 32 12.0	0.1
TIA 35.5 346	cP	12 32 47.3	-0.3
XAN 36.2 334	P	12 32 52.6	-1.7
TIY 38.2 341	cP	12 33 11.0	0.4
BJI 39.3 347	-P	12 33 21.0	0.9
SNY 40.0 356	-P	12 33 26.8	1.1
LZH 40.3 331	cP	12 33 28.0	-0.2
HHC 41.3 342	cP	12 33 37.0	0.4
CN2 41.9 358	cP	12 33 41.0	-0.2
MDJ 42.7 3	-P	12 33 49.5	1.2
GTA 44.9 330	P	12 34 04.9	-0.7

1986 8 22

O=13 39 33.5 ± 0.12s  
 LAT=34.52 N ± 1.59km  
 LONG= 91.77 E ± 1.26km  
 DEPTH= 10 km ± 0.09km

STATIONS USED = 58, STAND DEV = 2.54s

$M_s=5.2/29,$   $m_B=5.3/5$

GTA 8.1 50	P	13 41 34.4	0.3		
	cS	13 43 05.0	-1.4		
	LN	$M_s=4.9$	10.0	7.03	
LZH 10.0 78	cP	13 41 59.0	-1.6		
	LG <sub>1</sub>	13 44 45.0	-2.3		
	LN	$M_s=5.3$	11.0	16.6	
CD2 10.7 106	cP	13 42 13.3	2.8		
	(S)	13 44 17.5	5.9		
	LE	$M_s=5.5$	7.0	12.7	
KMI 13.3 132	cP	13 42 36.5	-9.6		
	LN	$M_s=5.2$	11.0	7.30	
KSH 13.6 296	cP	13 42 51.5	2.7		
XAN 14.2 87	P	13 42 54.6	-2.5		
	cLG <sub>1</sub>	13 46 55.0	-4.2		
	cLG <sub>2</sub>	13 47 16.0	-5.7		
	LN	$M_s=5.3$	11.0	1.61	



			LE		10.0	8.47
GYA	15.1	118	P	13 43 07.4	-2.1	
			S	13 45 56.4	-0.9	
			LN	Ms=5.2	10.0	4.80
			LE		10.0	3.60
BTO	15.7	62	cP	13 43 15.0	-1.6	
			cLG <sub>1</sub>	13 47 48.0	2.0	
			LG <sub>2</sub>	13 48 11.0	0.1	
			LN	Ms=5.0	10.0	2.60
			LE		10.0	2.30
HHC	16.9	62	P	13 43 35.0	3.1	
			SMN	m <sub>B</sub> =4.7	10.0	0.45
			SS	13 46 54.0	-4.3	
			LE	Ms=5.0	10.0	2.72
TIY	17.0	73	-P	13 43 35.5	2.2	
			PMZ		1.2	0.080
			LG <sub>2</sub>	13 48 49.0	-5.2	
			LN	Ms=5.3	13.0	7.14
WHN	19.4	95	cP	13 44 01.5	-1.6	
			S	13 47 44.0	8.1	
			LN	Ms=5.6	10.0	8.60
BJI	20.2	67	P	13 44 11.0	-0.1	
			SMN	m <sub>B</sub> =4.9	9.0	0.59
			LN	Ms=5.1	11.0	3.27
TIA	20.7	78	cP	13 44 16.6	-0.5	
			LN	Ms=5.4	10.0	0.040
			LE		10.0	4.74
GZH	22.0	115	cP	13 44 31.1	0.9	
			cS	13 48 37.0	8.8	
			LN	Ms=5.3	9.0	1.96
			LE		10.0	3.00
NJ2	22.7	89	cP	13 44 35.0	-2.4	
			cS	13 48 41.0	-0.6	
SSE	24.9	90	cP	13 45 00.8	2.3	
			cS	13 49 21.0	1.8	
			sS	13 49 36.0	8.0	
			LN	Ms=5.1	11.0	2.00
QZH	25.1	105	cP	13 44 58.0	-2.3	
			S	13 49 23.0	1.4	
			SME	m <sub>B</sub> =5.4	12.0	1.45
			LE	Ms=5.4	12.0	4.45
SNY	25.9	64	cP	13 45 08.0	-0.2	
			cS	13 49 42.0	5.7	
			LN	Ms=5.3	11.0	2.11
			LE		13.0	2.72

DEPTH = 34 km ± 0.93km  
STATIONS USED = 39, STAND DEV = 1.37s

GZH	24.8	330	cP	20 17 48.5	0.4
GYA	31.1	324	cP	20 18 45.4	-0.7
KMI	32.7	317	cP	20 19 00.0	0.1
XAN	36.1	335	P	20 19 29.4	0.6
CD2	36.1	325	(P)	20 19 31.0	1.7
TIY	38.0	342	cP	20 19 44.6	-0.6
BJI	39.2	347	cP	20 19 55.0	0.1
SNY	39.9	356	cP	20 20 01.4	0.6
LZH	40.1	331	cP	20 20 02.0	-0.6
BTO	41.4	341	cP	20 20 13.0	-0.5
CN2	41.8	359	cP	20 20 19.0	2.6
MDJ	42.7	3	-P	20 20 24.0	0.4
GTA	44.7	330	cP	20 20 38.5	-1.5

1986 8 22  
O = 23 32 56.6 ± 0.08s  
LAT = 36.43 N ± 1.23km  
LONG = 70.71 E ± 0.97km  
DEPTH = 147 km ± 0.46km  
STATIONS USED = 27, STAND DEV = 1.58s  
M<sub>L</sub> = 4.6 / 3,

KSH	5.1	52	+iP	23 34 13.8	0.7
			S	23 35 14.8	3.2
			SME	M <sub>L</sub> = 5.2	0.5 2.80
GTA	23.1	74	P	23 37 52.4	1.7
XAN	31.2	83	cP	23 39 03.6	-0.7
GYA	32.1	98	P	23 39 13.0	0.7

1986 8 23  
O = 00 15 06.7 ± 0.24s  
LAT = 34.22 N ± 1.87km  
LONG = 91.95 E ± 2.24km  
DEPTH = 33 km ± 0.10km  
STATIONS USED = 18, STAND DEV = 2.13s  
Ms = 4.5 / 4,

GTA	8.2	48	P	00 17 05.4	-0.5
			cS	00 18 33.3	-4.8
			LN	Ms=4.0	10.5 1.11
LZH	9.9	76	cP	00 17 28.0	-2.3
			LN	Ms=4.5	11.0 2.50
XAN	14.1	86	cP	00 18 24.0	-2.0
			LE	Ms=4.8	11.0 2.55
GYA	14.9	117	P	00 18 34.6	-1.9
TIY	16.9	72	P	00 19 06.8	3.7
			S	00 22 18.5	9.9
BJI	20.1	66	cP	00 19 40.0	-1.0
			LN	Ms=4.4	10.0 0.56

1986 8 22  
O = 20 12 27.8 ± 0.10s  
LAT = 1.83 N ± 1.13km  
LONG = 126.66 E ± 1.99km

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1986 8 23  
 O=11 25 57.3 ± 0.06s  
 LAT=22.57 S ± 1.25km  
 LONG=170.85 E ± 1.17km  
 DEPTH= 42 km ± 0.57km  
 STATIONS USED = 22, STAND DEV= 1.26s

TIA	77.4	318	cP	11 37 49.9	-0.7
CN2	78.1	328	+P	11 37 53.0	-1.2
GYA	78.9	305	P	11 38 00.4	1.2
BJI	80.5	321	cP	11 38 06.0	-1.2
TIY	81.3	317	cP	11 38 12.0	0.3
KMI	81.3	302	+P	11 38 12.5	0.6
XAN	81.5	312	cP	11 38 11.8	-0.7
GTA	90.5	313	cP	11 38 57.0	-0.1

1986 8 23  
 O=11 55 11.1 ± 0.14s  
 LAT=53.70 N ± 5.16km  
 LONG=166.00 W ± 2.55km  
 DEPTH= 30 km ± 0.98km  
 STATIONS USED = 45, STAND DEV= 1.45s

MDJ	41.7	285	cP	12 02 58.0	-1.6
CN2	44.6	286	-P	12 03 22.5	-0.4
SNY	46.9	285	+iP	12 03 42.6	1.4
BJI	52.3	288	cP	12 04 22.5	-0.1
SSE	55.7	277	+P	12 04 47.8	0.5
		PMZ		1.2	0.090
TIY	56.0	289	cP	12 04 50.6	0.7
NJ2	56.4	280	-P	12 04 51.5	-0.7
WHN	60.1	282	P	12 05 18.0	-0.4
XAN	60.6	288	cP	12 05 21.3	-0.9
GTA	61.7	299	-iP	12 05 28.8	-0.4
GYA	67.6	284	+P	12 06 08.0	0.2
KMI	70.9	286	+P	12 06 28.0	-0.1

1986 8 23  
 O=16 13 55.6 ± 0.15s  
 LAT= 6.81 S ± 1.25km  
 LONG=154.94 E ± 1.08km  
 DEPTH= 40 km ± 1.37km  
 STATIONS USED = 15, STAND DEV= 1.91s

GYA	57.3	307	cP	16 23 43.0	0.5
XAN	59.5	316	cP	16 24 02.0	4.0
KMI	59.9	304	cP	16 24 00.0	-0.5
CD2	61.7	310	cP	16 24 12.0	-0.4
GTA	68.6	317	cP	16 24 56.5	-0.7

1986 8 23  
 O=17 11 46.7 ± 0.06s  
 LAT=31.76 N ± 1.67km

LONG= 41.06 W ± 1.04km  
 DEPTH= 9 km ± 0.08km  
 STATIONS USED = 12, STAND DEV= 1.48s

1986 8 23  
 O=18 27 35.6 ± 0.18s  
 LAT= 1.89 N ± 2.28km  
 LONG=126.53 E ± 3.62km  
 DEPTH= 30 km ± 0.82km  
 STATIONS USED = 33, STAND DEV= 3.00s

GYA	31.0	324	cP	18 33 52.4	-0.7
KMI	32.6	317	cP	18 34 05.0	-1.9
XAN	36.0	335	cP	18 34 34.0	-2.0
CD2	36.0	326	cP	18 34 35.3	-1.2
BJI	39.1	347	cP	18 35 02.5	0.2
SNY	39.8	357	cP	18 35 10.4	2.0
LZH	40.0	331	cP	18 35 00.3	-9.5
MDJ	42.6	3	cP	18 35 40.0	8.6
GTA	44.6	330	P	18 35 46.5	-0.7
WMQ	54.1	326	P	18 37 01.5	0.9

1986 8 23  
 O=19 53 49.4 ± 0.06s  
 LAT= 2.31 N ± 0.83km  
 LONG=127.26 E ± 1.33km  
 DEPTH= 35 km ± 0.30km  
 STATIONS USED = 19, STAND DEV= 1.25s

XAN	35.9	334	cP	20 00 45.4	-3.4
BJI	38.9	346	cP	20 01 14.0	0.4
SNY	39.5	356	cP	20 01 18.8	0.2
MDJ	42.2	2	cP	20 01 42.0	1.1
GTA	44.6	329	P	20 01 59.4	-1.1

1986 8 23  
 O=23 47 49.8 ± 0.35s  
 LAT=34.74 S ± 4.41km  
 LONG=179.40 E ± 5.25km  
 DEPTH= 26 km ± 1.23km  
 STATIONS USED = 59, STAND DEV= 3.24s  
 Ms=6.3 / 30, m<sub>B</sub>=6.1 / 10

QZH	82.7	307	-P	24 00 16.5	2.9
			sP	24 00 29.0	3.8
			S	24 10 36.0	8.7
			LN	Ms=6.2	10.0 3.50
GZH	85.0	302	cP	24 00 23.5	-1.8
			S	24 10 56.0	5.7
			LN	Ms=6.2	14.0 2.95
			LE		16.0 3.29
SSE	85.4	313	+P	24 00 29.0	2.0
			pP	24 00 38.0	2.8

	ePP	24 03 49.0	3.3						eSKS	24 11 27.0	-1.7		
	SKS	24 10 50.0	4.1						eS	24 11 54.0	-5.4		
	S	24 10 59.0	5.3						PS	24 13 12.0			
	sS	24 11 12.0	3.0						SS	24 18 05.0	-6.9		
	LN	Ms=6.5	33.0	9.02	KMI	93.9	298		cP	24 01 08.0	0.7		
	LE		33.0	19.9					PMZ	m <sub>B</sub> =5.9	9.0	0.50	
NJ2	87.5	312	eP	24 00 34.0	-3.2				sP	24 01 23.0	4.2		
			LN	Ms=6.7	19.0	17.8			SKS	24 11 39.0	1.7		
WHN	89.3	309	eP	24 00 48.0	2.2				S	24 12 20.0	8.9		
			SKS	24 11 16.0	5.2				SME	m <sub>B</sub> =6.2	11.0	1.90	
			S	24 11 40.0	9.6				LE	Ms=6.2	20.0	5.50	
			SMN	m <sub>B</sub> =6.1	12.0	2.18	BJI	94.5	317	cP	24 01 12.0	1.9	
			LE	Ms=6.1	40.0	8.96			eS	24 12 23.0	4.6		
DL2	90.7	319	P	24 00 54.0	1.4				LN	Ms=6.5	22.0	7.50	
			SKS	24 11 21.0	1.6				LE		22.0	8.30	
			S	24 11 49.0	5.6			XAN	95.0	308	cP	24 01 13.6	1.1
			LN	Ms=6.3	18.0	4.43			sP	24 01 28.0	3.9		
			LE		18.0	5.39			PP	24 05 09.0	6.1		
MDJ	91.0	327	eP	24 00 55.0	1.0				SKS	24 11 48.0	4.3		
			SKS	24 11 22.0	0.8				S	24 12 26.0	5.0		
			S	24 11 45.0	-1.1				SMN		13.0	2.62	
			PS	24 13 03.0					SME		11.0	1.59	
TIA	91.4	314	eP	24 00 51.4	-4.3				PS	24 13 50.0			
			esP	24 01 12.8	5.4				SS	24 18 47.0	-3.6		
			eSKS	24 11 22.5	-0.8				LN	Ms=6.4	19.0	4.67	
			eS	24 11 54.0	2.9				LE		25.0	7.17	
			PS	24 13 42.0				TIY	95.2	313	cP	24 01 16.3	3.1
			SS	24 17 55.0	-3.4				SKS	24 11 41.5	-3.0		
			LN	Ms=6.5	23.0	4.70			S	24 12 28.0	5.8		
			LE		22.0	12.6			SMN		13.5	1.86	
SNY	91.8	322	-P	24 01 02.0	4.4				LN	Ms=6.4	27.0	5.80	
			PP	24 04 40.0	2.1				LE		25.0	8.42	
			SKS	24 11 26.0	0.4			CD2	96.6	303	cP	24 01 20.0	0.5
			S	24 11 52.0	-1.0				(S)	24 12 43.0	6.9		
			SMN		20.0	5.77	HHC	97.7	315	cP	24 01 30.0	5.3	
			LN	Ms=6.4	36.0	14.1			PP	24 05 28.0	3.6		
			LE		36.0	8.55			SKS	24 11 52.0	-6.3		
GYA	91.8	301	P	24 01 00.3	2.3				S	24 12 46.0	2.3		
			pP	24 01 11.0	4.8				sS	24 13 00.0	0.7		
			PP	24 04 40.0	1.5				PS	24 14 17.0			
			SKS	24 11 30.0	4.0				LN	Ms=6.4	20.0	6.81	
			S	24 12 00.0	6.4				LE		20.0	3.91	
			SS	24 18 06.0	0.8			BTO	98.4	314	cP	24 01 33.0	4.9
			LN	Ms=6.3	20.0	4.70			sP	24 01 46.0	6.4		
			LE		20.0	5.50			eSKS	24 12 07.0	4.8		
CN2	92.3	324	-P	24 00 57.0	-3.0				S	24 12 59.0	9.0		
			PMZ	m <sub>B</sub> =6.4	7.0	1.50			LN	Ms=6.4	15.0	4.30	
			sP	24 01 11.5	-0.2				LE		15.0	4.00	
			PP	24 04 37.0	-5.4			LZH	99.6	307	cP	24 01 38.0	4.7
			PPMZ	m <sub>B</sub> =6.7	8.0	2.30			PP	24 05 36.0	-2.3		

	cS	24 13 10.0	8.4		
	LE	Ms = 6.3	14.0	4.00	
GTA	104.1 308	cP	24 01 55.4	2.0	
	LE	Ms = 5.8	13.0	1.30	

1986 8 24

O = 00 27 14.8 ± 0.11s  
 LAT = 41.14 N ± 2.02km  
 LONG = 91.34 E ± 1.07km  
 DEPTH = 2 km ± 0.08km  
 STATIONS USED = 20, STAND DEV = 2.71s

M<sub>L</sub> = 4.6 / 5,

GTA	6.7 102	Pn	00 28 53.9	-0.8	
		Pg	00 29 11.4	-1.8	
		Sn	00 30 12.8	-1.1	
		Sg	00 30 38.6	-6.4	
		SMN	M <sub>L</sub> = 4.6	1.0	0.27
		SME		1.0	0.29
KSH	11.9 267	cP	00 30 07.1	-1.1	
XAN	15.6 111	cP	00 31 04.6	6.6	
TIY	16.7 95	cP	00 31 14.8	3.6	
		(S)	00 34 22.5	6.0	
GYA	19.4 134	cP	00 31 43.0	-1.7	
CN2	25.2 73	(P)	00 32 59.0	15.9	

1986 8 24

O = 02 34 59.7 ± 0.14s  
 LAT = 36.24 N ± 2.66km  
 LONG = 138.57 E ± 2.52km  
 DEPTH = 36 km ± 1.30km  
 STATIONS USED = 40, STAND DEV = 2.71s  
 Ms = 4.2 / 2,

MDJ	10.8 324	cP	02 37 35.5	0.3	
CN2	12.6 311	cP	02 37 59.0	-0.1	
SNY	12.9 300	cP	02 38 04.0	0.3	
SSE	15.4 255	cP	02 38 35.0	-0.6	
		sP	02 38 43.0	-5.0	
TIA	17.3 276	cP	02 39 01.6	1.2	
BJI	18.0 289	cP	02 39 10.0	0.8	
TIY	20.9 282	cP	02 39 42.5	0.6	
		S	02 43 31.0	3.5	
		LN	Ms = 4.3	12.0	0.42
		LE		14.0	0.32
HHC	21.6 291	cP	02 39 56.6	7.9	
BTO	22.7 290	cP	02 39 55.8	-4.4	
XAN	24.3 274	-P	02 40 14.4	-1.0	
GZH	25.5 246	P	02 40 26.5	0.2	
GYA	28.8 259	cP	02 40 55.4	-1.9	
GTA	30.6 288	P	02 41 10.9	-2.4	
KMI	32.6 260	cP	02 41 29.0	-1.5	

1986 8 24

O = 10 44 59.9 ± 0.11s  
 LAT = 24.07 S ± 2.68km  
 LONG = 177.01 W ± 2.52km  
 DEPTH = 36 km ± 1.22km  
 STATIONS USED = 24, STAND DEV = 2.29s

CN2	85.7 322	cP	10 57 35.0	-2.1	
		cS	11 08 07.0	1.2	
TIA	86.3 312	cP	10 57 39.8	-0.6	
TIY	90.3 312	cP	10 57 59.0	-0.5	
		PP	11 01 29.5	-5.3	
		S	11 08 53.0	5.3	
XAN	91.0 307	cP	10 58 02.6	-0.1	
BTO	93.4 313	cP	10 58 13.0	-0.7	

1986 8 24

O = 13 03 35.5 ± 0.15s  
 LAT = 27.18 S ± 3.85km  
 LONG = 176.28 W ± 2.93km  
 DEPTH = 33 km ± 1.70km  
 STATIONS USED = 48, STAND DEV = 1.55s

SSE	83.2 310	+P	13 16 00.3	-0.3	
		PMZ			1.0 0.030
NJ2	85.3 310	-P	13 16 12.3	0.9	
MDJ	86.9 325	-P	13 16 19.3	0.3	
WHN	87.7 306	cP	13 16 23.5	0.8	
SNY	88.3 320	cP	13 16 24.4	-1.5	
CN2	88.5 322	cP	13 16 26.0	-0.9	
TIA	88.9 312	cP	13 16 28.8	0.0	
GYA	91.3 299	P	13 16 40.4	0.3	
BJI	91.7 315	cP	13 16 42.0	0.1	
XAN	93.4 307	P	13 16 50.0	0.3	
KMI	93.7 296	+P	13 16 52.0	0.6	
CD2	95.7 302	cP	13 17 01.1	1.1	
GTA	102.4 308	cP	13 17 31.0	0.6	

1986 8 24

O = 17 29 25.6 ± 0.51s  
 LAT = 4.71 S ± 1.44km  
 LONG = 128.55 E ± 2.60km  
 DEPTH = 21 km ± 3.81km  
 STATIONS USED = 21, STAND DEV = 2.15s

GYA	37.5 327	+P	17 36 41.4	0.8	
		pP	17 36 52.0	4.2	
XAN	42.8 336	P	17 37 23.4	-0.5	
BJI	46.0 347	cP	17 37 49.0	-0.5	
LZH	46.7 332	cP	17 37 55.0	-0.6	
CN2	48.4 357	cP	17 38 04.5	-3.9	
GTA	51.3 331	cP	17 38 30.0	-0.9	



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1986 8 24  
 O = 17 37 44.3 ± 0.10s  
 LAT = 35.85 N ± 1.40km  
 LONG = 72.96 E ± 1.23km  
 DEPTH = 43 km ± 0.44km  
 STATIONS USED = 59, STAND DEV = 1.95s  
 Ms = 4.5 / 7, ML = 4.6 / 2,

KSH	4.3	33	-iP	17 38 55.1	5.6		
			LE		Ms=4.1	8.0	3.00
GTA	21.5	72	+P	17 42 32.3	0.2		
			LE		Ms=4.4	10.0	0.53
LZH	24.9	80	eP	17 43 06.5	0.9		
CD2	26.1	92	eP	17 43 17.0	0.5		
KMI	27.7	104	eP	17 43 31.0	-0.1		
BTO	29.3	69	eP	17 43 46.3	0.5		
			eS	17 48 34.0	-0.9		
			LN		Ms=4.5	12.0	0.30
			LE			12.0	0.30
XAN	29.4	83	P	17 43 45.6	-0.8		
			S	17 48 32.0	-3.2		
GYA	30.2	99	P	17 43 52.4	-1.0		
HHC	30.5	69	e(P)	17 43 56.8	0.7		
TIY	31.5	75	eP	17 44 05.4	0.5		
			S	17 49 11.0	3.1		
			ScP	17 50 41.0	6.6		
			LN		Ms=4.6	11.0	0.31
			LE			11.0	0.33
BJI	34.1	70	eP	17 44 27.0	-0.1		
WHN	34.8	87	eP	17 44 33.5	-0.2		
NJ2	38.0	82	eP	17 45 01.4	1.2		

1986 8 24  
 O = 19 31 11.4 ± 0.23s  
 LAT = 11.10 N ± 2.28km  
 LONG = 142.38 E ± 2.10km  
 DEPTH = 85 km ± 1.18km  
 STATIONS USED = 40, STAND DEV = 2.37s

CN2	35.7	339	eP	19 38 02.0	-2.1		
GYA	36.9	299	P	19 38 14.4	-0.1		
BJI	37.0	326	(P)	19 38 16.5	1.7		
TIY	37.7	320	e(P)	19 38 23.3	2.4		
XAN	38.1	312	eP	19 38 22.3	-2.0		
CD2	40.8	305	(P)	19 38 49.1	2.6		
BTO	40.9	322	eP	19 38 50.0	2.3		
GTA	47.1	314	eP	19 39 35.6	-1.5		

1986 8 24  
 O = 23 46 50.9 ± 0.16s  
 LAT = 2.09 N ± 1.69km

LONG = 126.92 E ± 2.23km  
 DEPTH = 35 km ± 0.97km  
 STATIONS USED = 74, STAND DEV = 2.06s  
 Ms = 4.9 / 12,

QZH	24.1	341	P	23 52 19.5	15.4		
			LN		Ms=5.0	36.0	6.15
GZH	24.7	329	eP	23 52 10.0	-0.2		
			eS	23 56 24.0	-3.0		
			LN		Ms=4.6	30.0	1.76
SSE	29.4	350	eP	23 52 56.4	3.3		
			epP	23 53 05.0	2.4		
			sP	23 53 12.0	5.2		
			S	23 57 46.0	3.7		
			PcS	23 59 44.0	3.8		
			LN		Ms=4.9	7.0	0.64
WHN	30.7	338	eP	23 53 02.0	-3.1		
			LE		Ms=4.8	32.0	2.03
NJ2	30.8	347	-P	23 53 11.0	5.4		
GYA	31.1	323	P	23 53 08.0	-0.5		
			PcP	23 56 05.6	2.7		
TIA	35.1	346	eP	23 53 43.1	-0.6		
			eS	23 59 08.0	-5.7		
			LN		Ms=4.6	25.0	0.84
XAN	36.0	334	P	23 53 48.6	-2.1		
			PcP	23 56 18.0	1.4		
			S	23 59 22.0	-3.3		
CD2	36.1	325	eP	23 53 50.0	-1.7		
DL2	37.0	353	P	23 54 00.8	1.7		
TIY	37.9	341	iP	23 54 06.3	-0.5		
			LN		Ms=5.0	25.0	1.94
BJI	39.0	347	eP	23 54 15.5	-0.7		
			eS	24 00 09.0	-3.9		
SNY	39.7	356	-P	23 54 22.8	1.1		
LZH	40.0	330	eP	23 54 23.0	-1.7		
HHC	41.0	342	eP	23 54 35.0	2.1		
BTO	41.3	340	eP	23 54 34.3	-0.8		
CN2	41.6	358	eP	23 54 27.0	-10.3		
MDJ	42.4	3	eP	23 54 44.5	0.2		
			S	24 00 52.6	-9.9		
			LE		Ms=4.9	30.0	1.57
GTA	44.6	330	P	23 55 01.0	-1.2		
			LN		Ms=5.1	19.0	1.55

1986 8 25  
 O = 00 13 39.7 ± 0.13s  
 LAT = 2.11 N ± 1.55km  
 LONG = 126.86 E ± 3.08km  
 DEPTH = 34 km ± 0.46km  
 STATIONS USED = 35, STAND DEV = 2.11s

GZH	24.6	329	eP	00 19 03.0	4.4		
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GYA	31.0	323	P	00 19 56.6	-0.4
KMI	32.6	317	cP	00 20 10.0	-1.1
XAN	35.9	334	cP	00 20 36.4	-2.8
TIY	37.8	341	c(P)	00 20 54.5	-0.8
BJI	39.0	347	cP	00 21 04.0	-0.8
SNY	39.6	356	cP	00 21 10.8	0.4
LZH	40.0	330	cP	00 21 11.5	-1.7
MDJ	42.4	3	+P	00 21 34.4	1.3
GTA	44.5	330	P	00 21 48.8	-1.9

1986 8 25

O=00 19 08.7 ± 0.07s  
 LAT= 2.01 N ± 1.18km  
 LONG=126.79 E ± 2.87km  
 DEPTH= 33 km ± 0.07km  
 STATIONS USED = 26, STAND DEV= 1.34s

GZH	24.7	329	cP	00 24 28.0	-0.1
XAN	36.0	334	P	00 26 07.4	-1.4
DL2	37.0	353	cP	00 26 21.0	3.5
BJI	39.1	347	cP	00 26 34.5	0.0
SNY	39.7	356	cP	00 26 40.6	0.4
MDJ	42.5	3	+P	00 27 04.0	1.0
GTA	44.6	330	cP	00 27 19.8	-0.3

1986 8 25

O=00 56 29.8 ± 0.16s  
 LAT=34.44 N ± 1.76km  
 LONG= 91.76 E ± 1.69km  
 DEPTH= 34 km ± 0.07km  
 STATIONS USED = 25, STAND DEV= 3.11s

Ms=4.3 / 7,

GTA	8.1	50	cP	00 58 28.0	-0.6
			LN	Ms=3.9	17.0 1.38
LZH	10.0	77	cP	00 58 55.0	0.3
			LN	Ms=4.5	10.0 2.24
XAN	14.2	87	cP	00 59 46.0	-4.8
			cLG <sub>2</sub>	01 04 13.0	-5.4
			LE	Ms=4.3	10.0 0.85
GYA	15.1	118	P	01 00 01.0	-1.7
TIY	17.0	73	c(P)	01 00 30.4	3.2
			LN	Ms=4.4	14.0 1.11

1986 8 25

O=11 33 30.4 ± 0.10s  
 LAT=19.57 S ± 1.14km  
 LONG=175.12 W ± 0.68km  
 DEPTH= 77 km ± 0.69km  
 STATIONS USED = 23, STAND DEV= 2.54s

CN2	83.3	321	cP	11 45 50.0	-0.7
SNY	83.3	319	cP	11 45 51.0	0.2

BJI	87.2	314	cP	11 46 10.0	0.0
TIY	88.7	311	c(P)	11 46 18.3	0.8
XAN	89.7	306	P	11 46 23.5	1.1

1986 8 25

O=15 40 31.2 ± 0.13s  
 LAT=16.60 S ± 2.13km  
 LONG=172.79 W ± 2.56km  
 DEPTH= 30 km ± 0.24km  
 STATIONS USED = 36, STAND DEV= 1.59s

CN2	82.4	320	cP	15 52 52.0	-0.7
SNY	82.5	318	+iP	15 52 54.0	0.5
BJI	86.7	313	cP	15 53 15.0	0.6
			cSKS	16 03 35.0	-0.2
			cS	16 03 50.0	1.3
			SMN		13.0 0.75
			SME		12.0 0.53
TIY	88.5	310	-P	15 53 24.5	1.6
XAN	89.8	306	-P	15 53 30.3	1.1
KMI	92.1	295	+P	15 53 41.5	1.6
GTA	98.4	309	P	15 54 09.3	0.7

1986 8 25

O=18 09 01.5 ± 0.05s  
 LAT=32.54 N ± 0.58km  
 LONG=121.81 E ± 0.60km  
 DEPTH= 20 km ± 0.77km  
 STATIONS USED = 14, STAND DEV= 2.62s

M<sub>L</sub>=3.6 / 12,

SSE	1.5	200	Pn	18 09 29.5	1.1
			Pg	18 09 31.5	2.7
			Sg	18 09 48.3	-1.7
			SMN	M <sub>L</sub> =3.5	0.5 0.060
			SME		0.6 1.10
NJ2	2.6	260	-iPg	18 09 45.5	-1.2
			Sg	18 10 18.3	-3.4
			SMN	M <sub>L</sub> =4.1	0.6 1.00
			SME		0.6 1.00
TIA	5.3	315	Pn	18 10 21.0	0.4
			Pg	18 10 39.0	3.3
			Sg	18 11 40.8	-7.8
			SMN	M <sub>L</sub> =3.4	0.4 0.030
			SME		0.4 0.040
WHN	6.7	255	Pg	18 11 00.0	0.5
			Sn	18 12 00.5	3.7
			SMN	M <sub>L</sub> =3.7	1.0 0.040
			SME		0.7 0.040

1986 8 25

O=18 20 09.3 ± 0.18s

LAT=28.41 N ± 2.53km  
 LONG=140.64 E ± 2.44km  
 DEPTH= 23 km ± 0.22km  
 STATIONS USED = 46, STAND DEV = 2.19s  
 Ms=4.7/10, m<sub>B</sub>=5.5/8

MDJ	18.4	334	-P	18 24 20.0	-5.2
DL2	18.9	308	P	18 24 32.0	0.4
			PMZ	m <sub>B</sub> =5.5	8.0 1.82
			sP	18 24 44.0	2.1
			S	18 28 04.0	5.9
			sS	18 28 17.0	8.0
NJ2	19.2	286	+P	18 24 35.0	0.8
SNY	19.3	318	eP	18 24 35.3	-0.3
			pP	18 24 44.0	2.0
			S	18 28 12.0	6.0
			SME	m <sub>B</sub> =5.5	8.0 1.57
			LN	Ms=4.8	11.0 0.99
			LE		9.0 1.08
CN2	19.6	326	+P	18 24 40.0	0.8
			eS	18 28 14.0	0.0
TIA	21.3	297	eP	18 24 53.0	-4.0
			SME	m <sub>B</sub> =5.3	8.0 0.95
			LE	Ms=4.8	10.0 1.37
WHN	23.0	282	eP	18 25 14.5	0.9
BJI	23.2	306	eP	18 25 14.0	-2.2
			PMZ	m <sub>B</sub> =5.3	4.0 0.55
			eS	18 29 20.0	-3.1
			LN	Ms=4.6	11.0 0.74
TIY	25.3	299	-P	18 25 36.0	-0.4
			S	18 30 06.0	8.1
			SMN	m <sub>B</sub> =5.2	7.0 0.060
			SME		8.0 0.59
			LN	Ms=4.7	13.0 0.48
			LE		10.0 0.62
XAN	27.6	290	eP	18 25 55.8	-1.9
GYA	30.2	274	eP	18 26 19.5	-1.0
LZH	31.9	293	eP	18 26 35.0	-0.9
GTA	35.3	299	-P	18 27 03.8	-1.8
			PP	18 28 17.5	-7.2
KSH	53.7	300	P	18 29 34.0	1.3
			ePP	18 31 35.0	0.9
			eS	18 37 03.0	-1.5

1986 8 25  
 O=20 00 16.2 ± 0.09s  
 LAT=48.42 N ± 1.00km  
 LONG=126.25 E ± 0.87km  
 DEPTH= 8 km ± 0.31km  
 STATIONS USED = 9, STAND DEV = 2.97s  
 M<sub>L</sub>=3.6/7,

MDJ	4.4	148	ePn	20 01 25.0	0.7
			Pg	20 01 41.0	6.2
			Sg	20 02 38.5	2.9
			SME	M <sub>L</sub> =3.5	0.6 0.070
CN2	4.7	187	ePn	20 01 30.5	3.3
			eSn	20 02 26.0	2.5
			Sg	20 02 50.5	8.4
			SMN	M <sub>L</sub> =3.6	1.0 0.090
			SME		1.0 0.090
SNY	6.9	197	ePg	20 02 13.5	-3.9
			Sg	20 04 01.0	9.9
			SMN	M <sub>L</sub> =4.0	1.4 0.070
			SME		1.4 0.080

1986 8 26  
 O=06 44 40.6 ± 0.11s  
 LAT=56.10 S ± 3.17km  
 LONG= 27.82 W ± 4.41km  
 DEPTH=152 km ± 0.55km  
 STATIONS USED = 18, STAND DEV = 3.01s

XAN	143.2	108	eP	07 03 54.5	-3.0
TIY	147.8	108	P	07 04 07.8	2.3
BJI	151.5	109	eP	07 04 17.0	5.9

1986 8 26  
 O=07 13 56.2 ± 0.07s  
 LAT=24.85 N ± 1.06km  
 LONG=123.31 E ± 0.86km  
 DEPTH=112 km ± 0.71km  
 STATIONS USED = 24, STAND DEV = 1.18s

				M <sub>L</sub> =3.5/3,	
SSE	6.5	344	+iP	07 15 30.0	-0.9
NJ2	8.2	332	+P	07 15 52.8	-1.0
			LE		0.8 0.030
WHN	9.8	308	P	07 16 15.0	0.0
TIY	15.8	327	P	07 17 35.5	1.3
BJI	16.3	340	eP	07 17 40.0	0.1
CD2	18.3	294	eP	07 18 03.0	-1.2
CN2	19.0	5	eP	07 18 12.0	0.2
BTO	19.2	328	eP	07 18 16.0	1.4

1986 8 26  
 O=09 42 59.4 ± 0.09s  
 LAT=37.78 N ± 1.20km  
 LONG=101.63 E ± 1.03km  
 DEPTH= 8 km ± 0.08km  
 STATIONS USED = 92, STAND DEV = 2.02s

				M <sub>B</sub> =6.4/22	
GTA	2.2	319	+iPn	09 43 39.0	2.8
			Pg	09 43 39.5	2.0

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			Sg	09 44 07.5	0.4				sS	09 48 23.0	-8.9			
			LN			7.8	137		LG <sub>1</sub>	09 49 31.0	-5.9			
			LE			9.5	518		LG <sub>2</sub>	09 49 51.0	-6.0			
LZH	2.5	133	+iPn	09 43 44.0	3.8				LE	Ms=6.6		8.0	135	
			Pg	09 43 47.5	4.9			WHN	12.8	121	eP	09 46 03.5	-0.7	
			Sg	09 44 20.0	3.8						pP	09 46 08.0	-0.3	
XAN	7.0	120	Pn	09 44 43.8	1.3						S	09 48 20.0	-7.2	
			Pg	09 45 09.0	6.2						LE	Ms=6.2	12.0	97.0
			Sg	09 46 39.0	0.5			NJ2	15.2	107	+P	09 46 36.0	-0.8	
			SME	ms=6.4		7.0	46.9				S	09 49 20.0	-6.1	
CD2	7.1	165	+iPn	09 44 47.8	4.1						LE	Ms=7.0	11.0	407
			Sg	09 46 47.0	5.9			DL2	15.7	80	-iP	09 46 44.0	0.8	
			LE	Ms=6.5		6.0	259				PMZ	ms=6.4	4.0	6.61
BTO	7.1	64	+iPn	09 44 45.0	1.0						pP	09 46 50.0	2.5	
			Sn	09 46 03.0	-4.1						S	09 49 38.0	0.2	
			LG <sub>1</sub>	09 46 42.0	-0.2						SMN	ms=6.5	9.0	14.4
			LN	Ms=6.0		8.0	72.4				SME		6.0	19.6
			LE			8.0	61.7				LN	Ms=6.4	10.0	38.0
HHC	8.3	65	Pn	09 45 02.3	2.0						LE		12.0	74.4
			Pg	09 45 32.0	6.4			SNY	17.3	70	-iP	09 47 03.5	0.0	
			Sg	09 47 15.0	-3.9						PMZ		3.0	2.94
TIY	8.6	87	Pn	09 45 04.3	0.2						sP	09 47 12.0	0.7	
			Sn	09 46 43.8	0.4						S	09 50 17.0	2.3	
			Sg	09 47 24.8	-2.7						SMN	ms=6.5	7.0	13.1
BJI	11.6	74	P	09 45 46.0	-1.9						SME		6.5	14.6
			LG <sub>1</sub>	09 49 08.0	5.7						LN	Ms=6.3	9.0	31.7
			LN	Ms=6.6		10.0	114				LE		8.0	34.6
			LE			10.0	198	SSE	17.4	107	eP	09 47 04.8	-0.1	
GYA	12.1	158	+P	09 45 54.0	-1.0						PMZ	ms=6.2	4.0	4.28
			PMZ			3.0	3.30				pP	09 47 08.0	-1.2	
			sP	09 46 02.0	-0.3						sP	09 47 14.0	1.3	
			S	09 48 04.0	-6.4						PP	09 47 18.5	-0.5	
			SME	ms=5.8		6.0	4.60				eS	09 50 16.0	-1.8	
			LN	Ms=6.4		8.0	76.4				sS	09 50 24.0	-0.8	
			LE			8.0	74.4				PcP	09 51 45.0	-1.5	
WMQ	12.2	304	eP	09 45 54.5	-1.7						LN	Ms=6.9	10.0	141
			S	09 48 08.0	-4.5						LE		12.0	187
			LG <sub>2</sub>	09 49 30.5	-9.9			GZH	17.8	142	-P	09 47 07.5	-1.5	
			LN	Ms=6.5		10.0	163				pP	09 47 12.5	-0.8	
TIA	12.5	93	eP	09 45 57.8	-2.8						iS	09 50 25.0	-0.2	
			esP	09 46 07.0	-1.0						S	09 50 32.0	7.4	
			S	09 48 16.0	-4.6						LG <sub>1</sub>	09 52 17.0	-0.5	
			LG <sub>1</sub>	09 49 30.0	-1.6						LN	Ms=6.5	10.0	49.4
			LG <sub>2</sub>	09 49 57.0	5.6						LE		10.0	74.5
			LN	Ms=6.3		14.0	140	CN2	19.0	64	-iP	09 47 33.0	9.0	
KMI	12.7	175	+P	09 46 02.0	-1.1						PMZ	ms=6.4	4.0	7.00
			PMZ	ms=6.2		5.0	2.60				pP	09 47 28.0	-0.2	
			sP	09 46 10.0	-0.3						eS	09 50 47.0	-5.7	
			PP	09 46 12.0	-0.6						SMN	ms=6.6	7.0	18.0
			S	09 48 16.0	-8.7						SME		7.0	15.0

			LN		$M_s = 6.7$	8.0	102			Pg	10 30 39.8	1.5		
QZH	19.3	127	-iP	09 47 29.0	1.5					Sg	10 31 08.0	-0.9		
			PMZ		$m_B = 6.6$	4.5	11.3			SME		$M_L = 5.0$	1.2	11.1
			PP	09 47 48.0	3.8					LE			7.0	24.2
			S	09 50 58.0	-1.0			LZH	2.4	133	+iPn	10 30 42.5	4.0	
			SMN		$m_B = 6.5$	8.0	14.4			Pg	10 30 44.5	3.6		
			SME			7.0	11.1			Sg	10 31 15.5	2.1		
			LG <sub>1</sub>	09 53 05.0	-0.3					SMN			2.0	22.7
			LG <sub>2</sub>	09 53 31.0	-4.8			XAN	6.9	120	Pn	10 31 42.3	1.4	
			LN		$M_s = 6.6$	8.0	44.6			Pg	10 32 08.5	7.4		
			LE			8.0	62.3			Sg	10 33 38.0	2.1		
KSH	20.1	283	+iP	09 47 37.5	0.7					SMN		$M_L = 5.0$	1.2	0.95
			SME		$m_B = 6.7$	9.0	33.2			SME			1.0	0.37
			LE		$M_s = 6.3$	12.0	49.2			LN		$M_s = 4.9$	8.0	6.17
MDJ	22.1	63	-P	09 47 57.5	0.8					LE			4.0	2.12
			pP	09 48 03.0	1.4			BTO	7.1	64	P	10 31 47.0	1.5	
			PP	09 48 22.0	0.2					S	10 33 08.0	1.6		
			S	09 51 55.0	0.5					LG <sub>1</sub>	10 33 40.0	-1.3		
			SME			15.0	22.5			LG <sub>2</sub>	10 33 51.0	-1.5		
			sS	09 52 02.0	-1.2					LN		$M_s = 4.5$	8.0	2.00
			LE		$M_s = 6.4$	10.0	45.7			LE			10.0	3.20
								HHC	8.3	65	Pn	10 32 02.0	2.6	
										Pg	10 32 32.0	7.1		
										Sn	10 33 30.0	-5.3		
										Sg	10 34 18.0	0.0		
										SME		$M_L = 5.3$	0.8	0.69
								TIY	8.5	87	ePn	10 32 04.0	1.2	
										Sn	10 33 33.5	-8.0		
										Sg	10 34 25.0	-0.7		
										SMN		$M_L = 5.6$	1.0	1.36
										SME			1.2	1.37
								BJI	11.5	74	cP	10 32 47.0	0.2	
										LG <sub>1</sub>	10 35 54.0	-7.0		
										LN		$M_s = 4.7$	10.0	2.67
								GYA	12.0	158	+P	10 32 52.0	-1.3	
										S	10 35 04.0	-3.7		
										LN		$M_s = 5.0$	8.0	2.10
										LE			8.0	3.60
								WMQ	12.2	304	cP	10 32 54.0	-2.4	
										LG <sub>1</sub>	10 36 22.0	-0.8		
										LN			1.4	0.21
								TIA	12.4	92	cP	10 32 56.8	-2.4	
										LN		$M_s = 4.7$	10.0	0.62
										LE			10.0	2.62
								KMI	12.6	176	-P	10 33 00.0	-1.5	
								WHN	12.7	121	cP	10 33 02.5	0.0	
								NJ2	15.2	107	+P	10 33 36.5	1.3	
								DL2	15.7	80	cP	10 33 43.5	1.4	
								SNY	17.3	69	cP	10 34 02.8	0.3	
								CN2	19.0	64	+P	10 34 23.8	0.7	

1986 8 26

O = 09 55 35.0 ± 0.09s

LAT = 37.75 N ± 0.76km

LONG = 101.75 E ± 0.86km

DEPTH = 13 km ± 0.23km

STATIONS USED = 5, STAND DEV = 4.53s

$M_L = 3.7 / 3,$

GTA	2.2	318	Pn	09 56 12.0	-0.5		
			Pg	09 56 13.0	-1.7		
			Sg	09 56 42.0	-3.5		
			LE			7.0	8.92
LZH	2.4	134	cPn	09 56 17.0	3.0		
			Pg	09 56 18.5	1.8		
			Sn	09 56 50.0	5.5		
			Sg	09 56 51.3	2.3		
TIY	8.5	87	Pg	09 58 01.8	-2.9		
			S*	09 59 44.0	4.7		
			SMN		$M_L = 4.6$	1.0	0.13
			SME			1.0	0.13

1986 8 26

O = 10 29 58.8 ± 0.09s

LAT = 37.72 N ± 1.18km

LONG = 101.69 E ± 1.02km

DEPTH = 10 km ± 0.14km

STATIONS USED = 64, STAND DEV = 2.49s

$M_s = 4.8 / 10, M_L = 5.0 / 11,$

GTA	2.2	320	+Pn	10 30 38.5	2.0		
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KSH	20.2	283	eP	10 34 38.5	1.9
MDJ	22.0	63	eP	10 34 56.8	1.1

1986 8 26

O=12 07 48.0 ± 0.10s  
 LAT=37.79 N ± 1.23km  
 LONG=101.63 E ± 1.00km  
 DEPTH= 6 km ± 0.47km  
 STATIONS USED = 10, STAND DEV = 2.55s

M<sub>L</sub>=4.0 / 7,

GTA	2.2	319	iPn	12 08 26.0	1.0		
			Pg	12 08 27.0	0.8		
			Sg	12 08 55.8	0.1		
			SMN	M <sub>L</sub> =4.0	1.0	0.99	
			SME		0.8	1.11	
LZH	2.5	133	ePn	12 08 31.0	1.9		
			Pg	12 08 33.0	1.6		
			Sn	12 09 03.0	1.8		
			Sg	12 09 04.5	-0.4		
			SMN		2.0	1.25	
			SME		1.5	0.89	
XAN	7.0	120	ePg	12 09 56.5	4.7		
			Sg	12 11 28.0	0.8		
			SMN	M <sub>L</sub> =3.3	1.0	0.020	
			SME		1.4	0.010	
TIY	8.6	87	ePn	12 09 52.5	-0.4		
			Sn	12 11 28.3	-4.1		
			Sg	12 12 14.0	-2.2		
			SMN	M <sub>L</sub> =4.2	1.1	0.060	
			SME		1.1	0.050	

1986 8 26

O=12 53 35.5 ± 0.15s  
 LAT=37.72 N ± 1.32km  
 LONG=101.43 E ± 1.17km  
 DEPTH= 15 km ± 0.72km  
 STATIONS USED = 10, STAND DEV = 3.90s

M<sub>L</sub>=4.1 / 7,

LZH	2.5	129	ePn	12 54 18.5	1.8		
			Pg	12 54 20.5	0.3		
			Sg	12 54 54.0	-0.8		
			SMN	M <sub>L</sub> =4.1	1.0	1.14	
			SME		1.5	0.81	
XAN	7.1	119	ePn	12 55 20.5	1.1		
TIY	8.7	87	Pg	12 56 12.0	2.3		
			SMN	M <sub>L</sub> =4.2	0.8	0.050	
			SME		1.0	0.050	

1986 8 26

O=12 56 27.3 ± 0.10s

LAT=37.71 N ± 1.08km  
 LONG=101.85 E ± 0.91km  
 DEPTH= 4 km ± 0.29km  
 STATIONS USED = 8, STAND DEV = 3.20s

M<sub>L</sub>=3.8 / 5,

LZH	2.3	135	Pn	12 57 07.2	1.1		
			Pg	12 57 09.6	2.2		
			Sg	12 57 42.2	3.7		
			SMN	M <sub>L</sub> =3.6	1.0	0.53	
			SME		1.0	0.34	
GTA	2.3	317	iPn	12 57 02.8	-4.1		
			Pg	12 57 03.8	-4.7		
			Sg	12 57 33.8	-6.6		
			SMN	M <sub>L</sub> =3.8	0.5	0.60	
			SME		0.6	0.65	
WMQ	12.3	304	eP	12 59 28.5	1.4		

1986 8 26

O=13 11 25.3 ± 0.08s  
 LAT=37.77 N ± 1.01km  
 LONG=101.66 E ± 0.95km  
 DEPTH= 23 km ± 0.05km  
 STATIONS USED = 56, STAND DEV = 2.18s

M<sub>s</sub>=4.7 / 9, M<sub>L</sub>=4.9 / 12,

GTA	2.2	319	+iPn	13 12 03.5	2.5		
			Pg	13 12 04.5	0.4		
			Sg	13 12 33.0	-1.1		
			SMN	M <sub>L</sub> =5.0	0.8	8.64	
			SME		0.8	10.8	
			LN		7.0	9.81	
			LE		7.0	13.8	
LZH	2.4	133	Pn	13 12 07.5	3.1		
			Pg	13 12 10.0	1.7		
			Sn	13 12 39.0	4.1		
			Sg	13 12 42.5	0.8		
			SMN	M <sub>L</sub> =4.3	0.5	1.59	
XAN	7.0	120	ePn	13 13 07.0	0.3		
			Pg	13 13 31.8	3.4		
			Sg	13 14 59.5	-4.3		
			SMN	M <sub>L</sub> =4.6	1.0	0.32	
			SME		1.0	0.19	
			LN	M <sub>s</sub> =4.7	7.0	3.73	
			LE		7.0	2.45	
CD2	7.1	165	ePn	13 13 13.5	5.6		
BTO	7.1	64	ePn	13 13 11.0	2.7		
			Sn	13 14 31.0	0.9		
			LG <sub>1</sub>	13 14 59.0	-8.8		
			LG <sub>2</sub>	13 15 10.0	-9.0		
			LN	M <sub>s</sub> =4.3	9.0	1.40	
			LE		9.0	1.60	



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KMI	24.0	110	eP	16 08 39.0	0.4
XAN	25.5	85	eP	16 08 50.0	-2.9
GYA	26.3	103	P	16 09 05.3	4.2

1986 8 26

O=17 16 55.0 ± 0.11s  
 LAT=36.12 N ± 1.09km  
 LONG= 78.04 E ± 0.87km  
 DEPTH= 56 km ± 1.35km  
 STATIONS USED = 11, STAND DEV = 3.26s

$M_L = 4.6 / 4,$

GYA	26.2	103	P	17 22 28.8	1.9
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1986 8 26

O=18 10 49.3 ± 0.05s  
 LAT=36.64 N ± 0.84km  
 LONG= 70.99 E ± 0.69km  
 DEPTH=231 km ± 0.32km  
 STATIONS USED = 28, STAND DEV = 1.09s

$M_L = 4.7 / 2,$

KSH	4.8	53	eP	18 12 04.8	1.3
			S	18 12 52.8	-7.7
WMQ	14.6	55	P	18 14 07.0	-0.2
			PMZ		1.0 0.090
			S	18 16 50.0	6.8
			SMN		1.8 0.090
XAN	30.9	83	eP	18 16 46.8	-0.3
GYA	31.9	98	P	18 16 56.0	0.4

1986 8 26

O=21 52 25.2 ± 0.14s  
 LAT=15.26 S ± 1.95km  
 LONG=173.34 W ± 1.74km  
 DEPTH= 16 km ± 0.54km  
 STATIONS USED = 46, STAND DEV = 1.22s

$M_s = 5.8 / 7,$   $m_B = 6.3 / 12$

MDJ	79.0	322	eP	22 04 29.5	-1.2
			SKS	22 14 33.0	-6.3
CN2	81.0	320	+iP	22 04 40.0	-1.8
			PMZ	$m_B = 6.3$	8.0 2.40
			S	22 14 41.0	-6.8
			SMN	$m_B = 6.3$	12.0 3.00
DL2	81.1	314	P	22 04 42.0	-0.3
			PMZ	$m_B = 6.4$	5.0 1.88
			S	22 14 56.0	7.1
			SMN	$m_B = 6.7$	9.0 3.92
			SME		8.0 3.80
SNY	81.2	318	+iP	22 04 42.5	-0.3
			PMZ	$m_B = 6.3$	6.5 2.22
			S	22 14 50.0	0.2

SMN	$m_B = 6.6$	8.5	2.87
SME		9.0	1.62
LN	$M_s = 5.7$	24.0	1.75
LE		22.0	1.66

TIA	83.2	310	eP	22 04 53.5	0.6
			S	22 15 08.0	-1.7

SMN	$m_B = 6.2$	12.0	1.39
SME		12.0	1.85
LN	$M_s = 5.6$	22.0	0.95
LE		22.0	1.52

BJI	85.4	313	+P	22 05 04.0	-0.2
			eS	22 15 26.0	-7.7

SMN	$m_B = 6.7$	9.0	6.17
SME		8.0	2.27
LN	$M_s = 5.6$	27.0	2.12
LE		29.0	1.12

TIY	87.2	310	-P	22 05 14.5	1.4
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PMZ		1.0	0.030
S		22 15 42.0	-7.3
SMN	$m_B = 6.2$	12.0	1.74
SME		10.0	1.59

sS		22 16 05.5	3.7
LN	$M_s = 6.0$	10.5	1.84
LE		12.0	1.15

GYA	88.0	298	P	22 05 19.0	1.9
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XAN	88.6	306	eP	22 05 19.0	-0.7
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HHC	89.0	313	P	22 05 22.0	0.4
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SMN	$m_B = 6.7$	8.0	3.30
SME		8.0	4.15

BTO	90.0	312	P	22 05 27.0	0.6
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SKS		22 15 54.0	0.7
eS		22 16 11.0	-6.1

KMI	91.0	296	eP	22 05 33.0	1.7
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eS		22 16 21.0	-5.5
SME	$m_B = 6.0$	10.0	1.30

CD2	91.8	301	eP	22 05 37.0	2.3
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LZH	93.2	306	P	22 05 43.0	1.8
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GTA	97.1	309	eP	22 06 01.0	1.8
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SKS		22 16 35.0	2.2
S		22 17 26.0	9.0

SME	$m_B = 6.0$	10.0	0.96
LE	$M_s = 5.8$	19.0	1.87

1986 8 26

O=22 11 37.3 ± 0.33s  
 LAT=15.35 S ± 5.28km  
 LONG=173.53 W ± 2.51km  
 DEPTH= 28 km ± 1.00km  
 STATIONS USED = 24, STAND DEV = 1.91s  
 $M_s = 5.5 / 4,$   $m_B = 6.2 / 4$





August, 1986



DEPTH = 37 km ± 0.30km  
STATIONS USED = 47, STAND DEV = 0.93s

DL2	32.7	322	eP	11 52 19.5	0.6
CN2	34.2	332	eP	11 52 06.0	-24.8
BJI	36.8	319	P	11 52 53.0	-0.5
XAN	39.3	306	eP	11 53 14.5	-0.2
GYA	39.3	294	eP	11 53 16.0	0.8
BTO	41.1	316	eP	11 53 29.0	-0.8
CD2	42.7	299	eP	11 53 41.5	-1.0
KMI	42.7	291	eP	11 53 44.0	1.0
LZH	43.9	307	-iP	11 53 53.5	0.9
WMQ	57.8	313	P	11 55 37.5	-0.2
KSH	66.1	307	eP	11 56 36.0	2.3

1986 8 27  
O = 13 15 22.6 ± 0.12s  
LAT = 37.75 N ± 1.60km  
LONG = 101.76 E ± 1.37km  
DEPTH = 9 km ± 0.15km  
STATIONS USED = 35, STAND DEV = 3.08s  
Ms = 4.3 / 4, ML = 4.2 / 13,

GTA	2.3	318	+iPn	13 16 02.5	1.9
			Pg	13 16 03.5	1.1
			Sg	13 16 31.8	-1.4
			SMN	ML = 4.2	0.8 0.99
			SME		1.0 2.15
LZH	2.4	134	Pn	13 16 05.5	3.5
			Pg	13 16 08.0	3.8
			Sn	13 16 38.5	5.8
			Sg	13 16 40.0	3.6
			SMN	ML = 4.4	1.0 2.46
			SME		1.5 2.71
XAN	6.9	120	ePn	13 17 05.0	0.8
			Pg	13 17 30.5	6.2
			Sg	13 19 00.8	2.3
			SMN	ML = 4.2	1.0 0.14
			SME		1.0 0.060
CD2	7.0	166	ePn	13 17 12.8	6.8
			eS	13 18 38.0	9.0
			SME	ML = 4.0	1.2 0.060
BTO	7.0	64	ePn	13 17 00.0	-6.0
			eSn	13 18 29.0	0.8
			LG <sub>1</sub>	13 19 01.0	-2.1
			LG <sub>2</sub>	13 19 11.0	-3.2
			LN	Ms = 4.4	4.0 1.00
			LE		4.0 0.50
HHC	8.2	65	Pn	13 17 25.3	2.9
			Pg	13 17 55.0	7.5
			Sn	13 18 49.3	-8.4
			Sg	13 19 37.3	-2.5

			SMN	ML = 4.7	0.9 0.13
			SME		0.9 0.30
TIY	8.5	87	(Pn)	13 17 28.0	2.2
			Sn	13 19 10.0	6.1
			Sg	13 19 47.5	-0.2
			SME		2.0 0.62
			LE	Ms = 4.2	7.0 1.08
BJI	11.5	74	P	13 18 06.0	-3.8
			LG <sub>1</sub>	13 21 23.5	0.7
			LG <sub>2</sub>	13 21 32.5	-8.5
GYA	12.0	158	P	13 18 15.0	-2.2
WMQ	12.3	304	eP	13 18 09.5	-10.8
			LE		1.0 0.040
SNY	17.2	70	eP	13 19 31.5	5.9
KSH	20.2	283	eP	13 20 04.0	3.1

1986 8 27  
O = 15 27 51.6 ± 0.10s  
LAT = 37.73 N ± 0.87km  
LONG = 122.49 E ± 0.85km  
DEPTH = 13 km ± 0.08km  
STATIONS USED = 7, STAND DEV = 2.05s  
ML = 3.2 / 6,

DL2	1.4	330	Pg	15 28 17.5	1.8
			Sn	15 28 34.3	-2.0
			Sg	15 28 36.0	1.7
			SMN	ML = 3.3	0.4 0.46
			SME		0.4 0.37
SNY	4.2	11	ePg	15 29 04.3	-1.1
			iSg	15 30 00.3	-2.2
			SMN	ML = 3.4	1.0 0.090
			SME		1.0 0.070
TIA	4.6	252	ePg	15 29 11.5	-0.6
			eSg	15 30 13.3	-1.1
			SMN	ML = 3.2	1.0 0.040
			SME		1.0 0.030

1986 8 27  
O = 18 33 07.3 ± 0.10s  
LAT = 37.71 N ± 1.15km  
LONG = 101.51 E ± 0.91km  
DEPTH = 3 km ± 0.25km  
STATIONS USED = 11, STAND DEV = 2.86s  
ML = 3.3 / 10,

GTA	2.2	322	+iPn	18 33 43.8	-0.8
			Pg	18 33 44.5	-0.9
			Sg	18 34 13.5	-1.4
			SME	ML = 3.3	1.0 0.23
LZH	2.5	130	Pg	18 33 51.0	-0.2
			Sn	18 34 19.5	-2.0

	Sg	18 34 22.5	-2.3		
	SMN	$M_L=3.3$	0.5	0.16	
	SME		0.5	0.19	
XAN	7.0 119 ePg	18 35 12.3	0.5		
TIY	8.7 87 Pg	18 35 43.1	2.7		
	SMN	$M_L=3.7$	0.8	0.020	
	SME		0.8	0.010	

1986 8 27

O=20 41 31.5 ± 0.06s  
 LAT= 2.25 S ± 1.04km  
 LONG=138.46 E ± 1.01km  
 DEPTH= 32 km ± 0.12km

STATIONS USED = 39, STAND DEV = 0.94s

GYA	41.9 315 P	20 49 22.0	0.7
KMI	44.0 310 cP	20 49 39.0	0.4
XAN	45.6 325 cP	20 49 49.5	-1.1
CD2	46.7 318 P	20 50 00.0	0.5
BJI	46.8 336 cP	20 50 00.0	-0.2
CN2	47.3 347 cP	20 50 05.0	0.6
MDJ	47.3 351 cP	20 50 03.5	-1.0
LZH	50.0 323 +P	20 50 26.0	0.8
WMQ	64.5 322 P	20 52 07.3	-0.7
KSH	70.6 313 cP	20 52 49.0	2.9

1986 8 27

O=21 08 32.7 ± 0.11s  
 LAT=12.74 S ± 1.65km  
 LONG=166.01 E ± 2.49km  
 DEPTH= 24 km ± 1.03km

STATIONS USED = 13, STAND DEV = 2.45s

CN2	67.3 329 cP	21 19 28.0	-0.5
TIY	71.0 318 cP	21 19 52.5	1.3
KMI	72.2 302 cP	21 20 01.5	2.7

1986 8 27

O=23 51 43.0 ± 0.09s  
 LAT=37.68 N ± 0.88km  
 LONG=101.53 E ± 0.89km  
 DEPTH= 0 km ± 0.20km

STATIONS USED = 12, STAND DEV = 4.67s

$M_L=3.6/10,$

GTA	2.2 323 Pn	23 52 18.5	-2.4
	Sg	23 52 48.0	-3.4
	SME	$M_L=3.7$	0.8 0.56
LZH	2.4 130 Pn	23 52 25.5	1.0
	Pg	23 52 27.5	1.3
	Sn	23 52 57.0	0.1
	Sg	23 53 00.5	0.9
	SMN	$M_L=3.6$	1.0 0.33

	SME		1.0 0.35
XAN	7.0 119 cP*	23 53 38.0	-2.6
TIY	8.6 86 Pg	23 54 21.8	5.9
	Sg	23 56 05.4	-8.5
	SMN	$M_L=4.0$	0.8 0.040
	SME		0.8 0.030

1986 8 28

O=01 09 54.3 ± 0.14s  
 LAT=34.35 N ± 1.52km  
 LONG= 91.97 E ± 1.52km  
 DEPTH= 34 km ± 0.08km  
 STATIONS USED = 14, STAND DEV = 3.16s

$M_s=4.0/3,$

GTA	8.1 49 +iP	01 11 51.5	-0.6
	LN	$M_s=3.8$	16.0 1.02
WMQ	10.0 342 cP	01 12 13.5	-5.7
GYA	14.9 118 P	01 13 24.0	-0.7
TIY	16.9 73 P	01 13 53.5	3.6
BJI	20.1 67 (P)	01 14 27.0	-0.8

1986 8 28

O=08 44 43.7 ± 0.07s  
 LAT=37.85 N ± 0.78km  
 LONG=101.56 E ± 0.44km  
 DEPTH= 3 km ± 0.37km  
 STATIONS USED = 6, STAND DEV = 2.79s

$M_L=3.8/5,$

LZH	2.5 133 Pn	08 45 26.0	-0.2
	Pg	08 45 28.5	0.0
	Sn	08 45 57.0	-2.4
	Sg	08 46 00.5	-2.6
	SMN	$M_L=3.7$	1.0 0.37
	SME		1.0 0.39
XAN	7.1 120 ePg	08 46 51.0	2.2
	Sg	08 48 22.0	-3.3

1986 8 28

O=10 23 14.9 ± 0.30s  
 LAT=28.80 N ± 3.89km  
 LONG=129.62 E ± 6.40km  
 DEPTH= 49 km ± 2.99km  
 STATIONS USED = 8, STAND DEV = 3.88s

CN2	15.3 349 cP	10 26 50.8	0.9
BJI	15.8 319 (P)	10 26 53.5	-1.7
XAN	18.4 292 cP	10 27 24.6	-3.9
GYA	20.5 269 P	10 27 55.8	4.4

1986 8 28

O=11 32 47.2 ± 0.05s

LAT=37.80 N ± 0.63km  
 LONG=101.57 E ± 0.53km  
 DEPTH= 12 km ± 0.19km  
 STATIONS USED = 5, STAND DEV = 2.85s  
 M<sub>L</sub>=3.4 / 4,

GTA	2.1	320	+iPn	11 33 23.0	0.1		
			Pg	11 33 24.0	-0.5		
			Sg	11 33 53.0	-0.5		
			SMN	M <sub>L</sub> =3.2	0.7	0.15	
			SME		0.7	0.18	
LZH	2.5	133	cPn	11 33 26.5	-1.8		
			Pg	11 33 29.0	-2.4		
			Sg	11 34 00.5	-5.1		
			SMN	M <sub>L</sub> =3.4	1.0	0.22	
			SME		1.0	0.19	

1986 8 28  
 O=12 58 07.0 ± 0.09s  
 LAT=37.75 N ± 1.27km  
 LONG=101.64 E ± 1.03km  
 DEPTH= 9 km ± 0.19km  
 STATIONS USED = 27, STAND DEV = 2.68s  
 M<sub>s</sub>=4.1 / 2, M<sub>L</sub>=4.3 / 10,

GTA	2.2	320	+iPn	12 58 47.3	3.2		
			Pg	12 58 48.0	2.4		
			Sg	12 59 16.5	0.9		
			SMN	M <sub>L</sub> =4.3	0.8	2.27	
			SME		1.0	2.20	
			LN		8.0	2.40	
LZH	2.4	133	Pn	12 58 50.5	3.1		
			Pg	12 58 53.0	3.2		
			Sn	12 59 23.0	4.1		
			Sg	12 59 25.0	2.0		
			SMN	M <sub>L</sub> =4.4	0.8	2.81	
			SME		0.8	2.09	
XAN	7.0	120	cPn	12 59 50.0	0.2		
			Pg	13 00 19.5	9.4		
			Sg	13 01 48.5	3.1		
			SMN	M <sub>L</sub> =4.3	1.0	0.090	
			SME		1.4	0.20	
BTO	7.1	64	cPn	12 59 55.0	3.4		
			LG <sub>2</sub>	13 01 57.0	-4.4		
			LN	M <sub>s</sub> =4.0	5.0	0.40	
			LE		5.0	0.40	
HHC	8.3	65	Pn	13 00 10.3	2.3		
			Sn	13 01 40.0	-4.3		
			Sg	13 02 27.0	0.2		
			SMN	M <sub>L</sub> =4.6	0.6	0.090	
			SME		0.8	0.20	
TIY	8.6	87	cPn	13 00 12.5	1.0		

			Sg	13 02 29.3	-5.7		
			SMN	M <sub>L</sub> =4.6	0.8	0.15	
			SME		0.6	0.12	
BJI	11.6	74	cP	13 00 54.0	-1.5		
			LG <sub>1</sub>	13 04 07.5	-2.6		
GYA	12.0	158	P	13 01 02.0	-0.1		
WMQ	12.2	304	cP	13 01 01.5	-2.5		
			LG <sub>1</sub>	13 04 28.0	-1.5		
			LN			1.2	0.030
			LE			1.0	0.060
KSH	20.1	283	cP	13 02 42.0	-2.4		

1986 8 28  
 O=13 11 44.2 ± 0.10s  
 LAT=34.54 N ± 1.48km  
 LONG= 91.93 E ± 1.10km  
 DEPTH= 33 km ± 0.05km  
 STATIONS USED = 23, STAND DEV = 2.56s  
 M<sub>s</sub>=4.8 / 9,

GTA	8.0	50	Pn	13 13 40.8	2.4		
			cSn	13 15 06.5	-2.8		
			LN	M <sub>s</sub> =4.4	11.0	2.67	
WMQ	9.8	342	P	13 14 04.0	-2.6		
			cS	13 15 49.0	-8.2		
			LE	M <sub>s</sub> =4.8	10.0	4.83	
KSH	13.7	296	cP	13 15 05.0	6.7		
			LN	M <sub>s</sub> =5.0	9.0	4.10	
XAN	14.1	87	cP	13 15 03.0	-0.5		
			LE	M <sub>s</sub> =4.8	10.0	2.75	
GYA	15.0	118	P	13 15 15.0	-1.3		
TIY	16.9	73	cP	13 15 42.8	3.1		
			S	13 18 47.0	2.5		
BJI	20.0	67	(P)	13 16 18.0	0.5		
			(S)	13 20 02.0	5.8		
			LN	M <sub>s</sub> =4.8	11.0	1.49	
GZH	21.9	116	cP	13 16 17.0	-19.3		

1986 8 28  
 O=16 19 53.2 ± 0.10s  
 LAT=51.25 N ± 3.11km  
 LONG=157.64 E ± 1.54km  
 DEPTH= 76 km ± 0.18km  
 STATIONS USED = 25, STAND DEV = 1.62s

MDJ	19.8	261	cP	16 24 15.0	-5.8		
GTA	41.3	277	cP	16 27 33.3	-0.2		
GYA	45.6	257	P	16 28 08.5	0.2		
WMQ	46.2	289	P	16 28 12.0	-0.6		

1986 8 28  
 O=17 06 27.3 ± 0.09s

LAT=36.06 N ± 1.15km  
 LONG= 69.55 E ± 1.08km  
 DEPTH=101 km ± 0.65km  
 STATIONS USED = 16, STAND DEV = 1.75s  
 M<sub>L</sub>=4.8 / 2,

KSH	6.1	54	cP	17 07 59.0	2.1		
			eS	17 09 07.0	0.7		
			SMN	M <sub>L</sub> =5.1	0.5	1.40	
WMQ	15.9	55	P	17 10 06.5	-0.4		
			eS	17 13 03.5	3.2		
			SME		1.2	0.020	
GTA	24.1	73	cP	17 11 37.0	1.9		

1986 8 28  
 O=17 52 55.0 ± 0.21s  
 LAT=40.87 N ± 1.45km  
 LONG=122.67 E ± 1.55km  
 DEPTH= 9 km ± 0.99km  
 STATIONS USED = 14, STAND DEV = 4.47s  
 M<sub>L</sub>=3.6 / 10,

SNY	1.2	35	+iPg	17 53 19.0	3.2		
			Sg	17 53 35.8	3.9		
			SMN	M <sub>L</sub> =3.3	0.6	0.65	
			SME		0.6	0.42	
DL2	2.1	203	Pg	17 53 31.3	-1.2		
			Sn	17 53 57.0	-2.3		
			SMN	M <sub>L</sub> =4.1	0.5	1.32	
			SME		0.5	1.63	
CN2	3.6	34	cPn	17 53 50.0	-1.0		
			Pg	17 54 03.3	5.1		
			Sg	17 54 50.5	3.4		
			SMN	M <sub>L</sub> =3.4	0.8	0.10	
			SME		0.8	0.10	
TIA	6.4	225	cPg	17 54 56.5	9.0		
			eSg	17 56 13.8	-0.6		
			SMN	M <sub>L</sub> =3.6	1.4	0.030	
			SME		1.6	0.040	

1986 8 28  
 O=21 47 00.8 ± 0.13s  
 LAT=37.74 N ± 1.53km  
 LONG=101.62 E ± 1.28km  
 DEPTH= 15 km ± 0.46km  
 STATIONS USED = 25, STAND DEV = 3.21s  
 M<sub>L</sub>=4.1 / 10,

GTA	2.2	320	cPn	21 47 38.5	1.2		
			Pg	21 47 39.3	-0.2		
			Sg	21 48 08.0	-1.5		
			SMN	M <sub>L</sub> =4.1	0.5	1.30	
			SME		1.0	1.64	

			LN		8.0	1.61	
LZH	2.4	132	Pn	21 47 44.0	3.4		
			Pg	21 47 46.0	2.3		
			Sg	21 48 19.0	2.1		
			SMN	M <sub>L</sub> =4.3	1.0	1.99	
			SME		1.0	1.25	
XAN	7.0	120	cPn	21 48 44.5	1.4		
			Pg	21 49 11.8	7.8		
			Sg	21 50 41.0	1.5		
			SMN	M <sub>L</sub> =4.0	1.0	0.080	
			SME		1.0	0.060	
BTO	7.1	64	cPn	21 48 52.0	6.9		
			LG <sub>2</sub>	21 51 02.5	6.6		
HHC	8.3	65	Pn	21 49 02.8	1.3		
TIY	8.6	87	cPg	21 49 37.8	5.4		
			Sg	21 51 24.5	-4.8		
			SMN	M <sub>L</sub> =4.3	0.7	0.080	
			SME		0.8	0.060	
BJI	11.6	74	cP	21 49 45.0	-3.9		
			eLG <sub>2</sub>	21 53 14.5	-8.3		
GYA	12.0	158	P	21 49 55.0	-0.1		
WMQ	12.2	304	cP	21 49 54.5	-2.6		
			LG <sub>1</sub>	21 53 26.0	2.8		
			LE		1.0	0.030	

1986 8 29  
 O=04 30 10.0 ± 0.14s  
 LAT=20.79 S ± 1.87km  
 LONG= 70.71 W ± 2.80km  
 DEPTH= 36 km ± 0.85km  
 STATIONS USED = 20, STAND DEV = 2.67s

GYA	173.9	23	cPKP	04 50 15.0	-1.8		
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1986 8 29  
 O=10 21 32.9 ± 0.05s  
 LAT=12.50 S ± 0.60km  
 LONG=166.71 E ± 0.76km  
 DEPTH=112 km ± 0.61km  
 STATIONS USED = 21, STAND DEV = 0.97s

NJ2	63.7	315	cP	10 31 55.0	-0.4		
GYA	70.0	304	P	10 32 58.0	23.7		
TIY	71.3	317	cP	10 32 43.0	0.3		
XAN	71.8	312	cP	10 32 45.5	-0.3		
KMI	72.7	301	cP	10 33 14.5	24.4		

1986 8 29  
 O=13 41 19.9 ± 0.09s  
 LAT= 1.10 N ± 0.81km  
 LONG=126.06 E ± 1.05km  
 DEPTH= 74 km ± 0.63km

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STATIONS USED = 43, STAND DEV = 1.06s

GZH	25.1	331	cP	13 46 40.0	0.3
GYA	31.4	325	P	13 47 36.3	-0.1
			PcP	13 50 30.3	2.4
CD2	36.4	327	cP	13 48 18.8	-0.8
XAN	36.5	336	cP	13 48 19.0	-1.3
DL2	37.8	354	cP	13 48 33.0	1.4
TIY	38.5	343	cP	13 48 37.0	-0.4
BJI	39.8	348	cP	13 48 48.0	0.3
LZH	40.5	332	cP	13 48 53.5	0.1
CN2	42.5	359	cP	13 49 11.5	1.3
MDJ	43.4	4	cP	13 49 19.0	1.2
GTA	45.0	331	P	13 49 30.5	-0.1
			PcP	13 51 12.0	1.8
WMQ	54.5	327	P	13 50 42.5	-0.6

1986 8 29

O = 19 25 58.0 ± 0.03s  
 LAT = 24.06 N ± 0.99km  
 LONG = 122.40 E ± 0.95km  
 DEPTH = 25 km ± 1.27km  
 STATIONS USED = 8, STAND DEV = 2.40s

$M_L = 3.7 / 1,$

SSE	7.1	352	ePn	19 27 42.0	1.3
GYA	14.4	283	cP	19 29 45.5	22.9
GTA	24.5	314	P	19 31 17.0	0.4

1986 8 30

O = 07 19 08.7 ± 0.05s  
 LAT = 27.43 N ± 0.51km  
 LONG = 101.70 E ± 0.63km  
 DEPTH = 9 km ± 0.01km  
 STATIONS USED = 7, STAND DEV = 2.11s

$M_L = 3.4 / 3,$

KMI	2.5	158	cPn	07 19 51.0	1.1
			Sn	07 20 26.5	4.6
			SME	$M_L = 3.4$	1.0 0.20
CD2	3.9	27	cPn	07 20 11.8	2.5
			Pg	07 20 22.8	5.2
			S*	07 21 03.0	-0.7
			Sg	07 21 11.3	0.2
			SMN	$M_L = 3.6$	1.0 0.10
			SME		1.0 0.17
GYA	4.5	101	Pn	07 20 19.5	1.5
			Pg	07 20 34.5	5.8
			S*	07 21 16.5	-5.1
			SMN	$M_L = 3.2$	1.0 0.040
			SME		1.0 0.030

1986 8 30

O = 07 45 44.8 ± 0.19s  
 LAT = 34.79 N ± 2.01km  
 LONG = 88.15 E ± 1.64km  
 DEPTH = 31 km ± 0.33km  
 STATIONS USED = 19, STAND DEV = 3.22s

$M_s = 4.7 / 9,$

WMQ	9.0	358	P	07 47 54.5	-1.7
			cS	07 49 44.0	6.1
			LN	$M_s = 4.2$	11.0 1.35
GTA	10.4	60	cP	07 48 13.3	-1.8
			LN	$M_s = 4.3$	10.5 1.24
LZH	12.9	80	cP	07 49 06.5	18.3
			LN	$M_s = 4.7$	12.0 2.57
CD2	13.7	102	(P)	07 49 07.6	8.4
			LE	$M_s = 4.7$	9.0 2.03
XAN	17.2	87	cP	07 49 45.0	0.9
GYA	18.0	113	P	07 49 51.8	-2.2
			LN	$M_s = 4.8$	10.0 1.20
			LE		10.0 0.90
TIY	19.8	74	cP	07 50 30.0	14.8

1986 8 30

O = 16 01 40.3 ± 0.09s  
 LAT = 39.59 N ± 1.10km  
 LONG = 98.82 E ± 0.75km  
 DEPTH = 16 km ± 0.34km  
 STATIONS USED = 8, STAND DEV = 3.03s

$M_L = 3.0 / 6,$

GTA	0.8	103	-iPg	16 01 56.7	2.0
			Sg	16 02 07.9	2.4
			SMN	$M_L = 3.1$	0.5 0.64
			SME		0.4 0.58
WMQ	9.3	301	cP	16 03 55.0	-2.5

1986 8 30

O = 18 45 14.6 ± 0.08s  
 LAT = 9.50 S ± 1.71km  
 LONG = 112.98 E ± 2.19km  
 DEPTH = 60 km ± 1.02km  
 STATIONS USED = 68, STAND DEV = 1.27s  
 $M_s = 4.4 / 2,$

KMI	35.8	344	-P	18 52 13.5	2.6
GYA	36.3	350	P	18 52 15.5	1.0
WHN	39.8	2	cP	18 52 45.0	0.9
SSE	41.1	11	+iP	18 52 56.3	1.5
			PMZ		0.8 0.010
			sP	18 53 09.8	-6.0
			cS	18 59 09.0	6.1
			sS	18 59 33.0	5.1
CD2	41.1	348	cP	18 52 52.3	-2.7

			eS	18 59 00.5	-2.9			
NJ2	41.7	8	+P	18 53 01.0	1.5			
XAN	43.5	355	eP	18 53 14.3	0.2			
			S	18 59 37.5	1.1			
TIA	45.6	5	eP	18 53 30.5	-0.8			
LZH	46.2	350	+iP	18 53 36.5	0.8			
TIY	47.0	359	eP	18 53 41.8	-0.1			
			S	19 00 31.0	4.5			
			LN			Ms=4.6	11.0	0.25
DL2	48.8	9	-P	18 53 55.5	-0.8			
BJI	49.4	3	eP	18 54 00.0	-0.6			
BTO	49.9	357	+iP	18 54 04.5	-0.4			
HHC	50.1	359	P	18 54 06.0	-0.4			
GTA	50.2	347	+iP	18 54 07.5	0.6			
SNY	52.0	10	+iP	18 54 19.0	-1.4			
CN2	54.2	11	P	18 54 35.0	-2.2			
MDJ	55.9	14	+P	18 54 47.8	-1.5			
WMQ	57.8	339	P	18 55 02.5	-0.4			
KSH	59.6	327	eP	18 55 13.0	-2.3			

1986 8 30

O=18 58 46.5 ± 0.09s

LAT=37.67 N ± 0.93km

LONG=101.54 E ± 0.77km

DEPTH= 9 km ± 0.29km

STATIONS USED = 8, STAND DEV = 3.15s

M<sub>L</sub>=3.3 / 8,

GTA	2.2	323	+iPn	18 59 24.3	0.4			
			Pg	18 59 24.8	-0.6			
			Sg	18 59 53.5	-2.1			
			SMN			M <sub>L</sub> =3.2	0.5	0.12
			SME				0.7	0.18
LZH	2.4	130	ePn	18 59 28.5	1.5			
			Sn	18 59 59.5	0.9			
			Sg	19 00 03.0	0.3			
			SMN			M <sub>L</sub> =3.4	1.5	0.24
			SME				1.0	0.19

1986 8 30

O=21 28 35.2 ± 0.12s

LAT=45.67 N ± 0.90km

LONG= 26.43 E ± 1.00km

DEPTH=137 km ± 0.84km

STATIONS USED = 90, STAND DEV = 0.86s

m<sub>B</sub>=7.3 / 36

KSH	36.5	82	+iP	21 35 31.8	2.0			
			iS	21 41 05.8	3.9			
WMQ	42.6	70	+iP	21 36 21.0	1.0			
			pP	21 36 54.0	3.8			
			sP	21 37 09.0	3.0			

			PP	21 38 00.0	-2.7			
			iS	21 42 33.0	0.5			
			SMN			m <sub>B</sub> =7.7	10.0	131
			LN				11.0	210
GTA	52.7	69	+iP	21 37 37.8	-0.6			
			pP	21 38 13.5	4.0			
			sP	21 38 29.5	4.5			
			iPP	21 39 39.0	-1.1			
			iS	21 44 55.0	0.7			
			SMN				24.0	130
			sS	21 45 52.0	3.2			
			SSS	21 49 40.0				
			LE				11.0	82.9
LZH	57.2	70	+iP	21 38 11.0	0.1			
			PMZ			m <sub>B</sub> =7.7	6.0	66.7
			pP	21 38 40.0	-2.5			
			sP	21 38 56.0	-1.9			
			PP	21 40 22.0	1.7			
			iS	21 45 56.0	1.6			
			sS	21 46 45.0	-4.4			
			ScS	21 47 39.0	-2.9			
			SS	21 49 45.0	-0.4			
			LN				10.0	52.1
			LE				10.0	40.5
BTO	58.6	62	+iP	21 38 21.0	0.6			
			PMZ			m <sub>B</sub> =7.5	7.0	46.2
			pP	21 38 53.0	0.8			
			PP	21 40 34.5	2.1			
			PPMZ				7.0	14.0
			iS	21 46 17.0	4.9			
			SMN			m <sub>B</sub> =7.4	8.0	45.2
			SME				8.0	23.5
			sS	21 47 14.0	6.6			
			ScS	21 47 53.0	1.2			
			SS	21 50 15.0	7.9			
			LN				15.0	78.7
			LE				12.0	39.5
HHC	59.4	61	+iP	21 38 26.0	0.0			
			pP	21 38 58.0	0.2			
			sP	21 39 15.0	1.8			
			PP	21 40 41.0	1.3			
			S	21 46 28.0	6.9			
			SMN			m <sub>B</sub> =7.4	6.0	35.8
			SME				6.0	22.3
			sS	21 47 22.0	4.0			
			ScS	21 48 04.0	6.2			
			LN				12.0	54.6
			LE				12.0	64.8
CD2	60.2	75	-iP	21 38 31.5	-0.3			
			PMZ				1.0	4.54

			pP	21 39 06.5	2.7				PMZ	$m_B=7.5$	6.0	47.1	
			sP	21 39 18.0	-1.1				sP	21 39 53.0	2.0		
			PP	21 40 47.0	-0.4				S	21 47 31.0	-0.9		
			ScP	21 43 04.0	2.8				sS	21 48 33.0	3.3		
			iS	21 46 37.0	3.5				LN		15.0	67.6	
			SME	$m_B=7.3$	9.0	47.6			LE		15.0	90.4	
			sS	21 47 32.0	2.8			TIA	65.6	63	cP	21 39 06.5	-1.0
			ScS	21 48 05.0	0.8				PMZ	$m_B=7.0$	6.0	15.0	
			SS	21 50 29.0	-3.6				pP	21 39 38.5	-1.5		
			LE		10.0	52.7			PPMZ		7.0	4.22	
XAN	61.8	69	+iP	21 38 41.8	-0.3				S	21 47 42.5	2.8		
			pP	21 39 13.5	-0.7				SMN	$m_B=7.2$	12.0	31.8	
			PcP	21 39 16.0	-4.9				SME		10.0	33.2	
			sP	21 39 32.0	2.5				sS	21 48 36.0	-1.6		
			PP	21 41 02.0	0.8				SS	21 51 59.5	1.8		
			PPMZ		8.0	19.5		CN2	65.7	52	+iP	21 39 07.5	-0.1
			PcS	21 43 23.0	0.7				PMZ	$m_B=7.3$	6.0	27.5	
			iS	21 46 56.0	3.2				pP	21 39 39.0	-1.1		
			sS	21 47 53.0	4.2				PP	21 41 36.0	0.5		
			ScS	21 48 19.0	3.4				PPMZ		7.0	12.7	
			LN		10.0	24.1			iS	21 47 46.0	4.7		
			LE		11.0	50.5			SMN	$m_B=7.5$	9.0	68.7	
TIY	61.8	64	-iP	21 38 42.0	-0.3				SME		9.0	31.6	
			PMZ		1.4	2.46			sS	21 48 41.0	3.2		
			pP	21 39 17.0	2.6				SS	21 52 00.0	2.0		
			PP	21 41 03.0	1.7				LE		16.0	17.2	
			PPMZ		14.0	20.0		SNY	65.9	54	+iP	21 39 08.5	-0.6
			S	21 46 54.0	2.3				PMZ	$m_B=7.4$	7.0	38.4	
			SMN	$m_B=7.4$	12.0	77.6			pP	21 39 41.0	-0.6		
			sS	21 47 51.0	2.0				PP	21 41 38.0	0.5		
			LE		12.0	51.5			PPMZ		8.0	9.50	
BJI	62.7	60	+iP	21 38 48.0	-0.1				S	21 47 45.5	2.7		
			cpP	21 39 20.0	-0.4				sS	21 48 39.5	-1.2		
			cPP	21 41 06.0	-2.5				ScS	21 48 48.3	1.1		
			cS	21 47 08.0	3.8				SS	21 52 04.0	2.5		
			sS	21 48 05.0	4.6				LN		12.0	43.7	
			cSS	21 51 19.0	7.3				LE		13.0	49.5	
			LN		7.0	12.0		DL2	66.7	58	+iP	21 39 11.0	-2.9
			LE		7.0	12.6			PMZ	$m_B=7.4$	6.0	36.2	
KMI	63.2	81	+iP	21 38 51.0	-0.7				pP	21 39 42.0	-4.4		
			pP	21 39 25.0	1.3				PP	21 41 42.0	-1.5		
			sP	21 39 40.0	1.1				iS	21 47 52.0	-1.2		
			PP	21 41 13.0	0.3				SMN	$m_B=7.6$	9.0	83.6	
			PPP	21 42 45.0					SME		9.0	32.5	
			PcS	21 43 29.0	0.5				SS	21 52 10.0	-3.7		
			iS	21 47 08.0	-2.9				LN		14.0	64.8	
			SMN	$m_B=7.1$	12.0	39.3			LE		14.0	148	
			PS	21 47 49.0				MDJ	67.4	49	cP	21 39 17.5	-0.9
			sS	21 48 04.0	-2.7				PMZ	$m_B=7.2$	6.0	24.7	
GYA	65.0	77	+P	21 39 02.8	-0.8				PcP	21 39 44.0	-0.1		







			SME		12.0	1.81			eS	09 33 52.0	3.0		
			sS	09 32 28.0	-7.1				SMN	$m_B=6.0$	10.0	3.30	
			LE	$M_s=5.6$		15.0	11.0		SME		10.0	2.10	
NJ2	24.1	297	+iP	09 28 18.0	1.1				LN	$M_s=6.1$	15.0	22.4	
			PMZ	$m_B=6.2$		6.0	6.40	TIY	30.8	305	+P	09 29 18.5	-0.1
			sP	09 28 32.0	-1.0				PMZ			2.2	0.33
			S	09 32 30.5	3.2				S	09 34 23.0	6.7		
			SME	$m_B=6.9$		11.0	32.3		SMN	$m_B=6.2$	12.0	4.40	
			LN	$M_s=6.0$		11.0	19.2		SME		10.0	4.15	
MDJ	24.5	334	+iP	09 28 23.5	2.2				LN	$M_s=6.1$	15.0	17.3	
			LE	$M_s=6.3$		14.0	42.0		LE		18.0	10.7	
DL2	24.8	315	P	09 28 25.0	1.1			HHC	32.5	311	+P	09 29 33.5	-0.5
SNY	25.3	322	+iP	09 28 28.5	-0.7				PMZ	$m_B=5.9$	7.0	1.56	
			PMZ	$m_B=6.4$		6.0	6.56		pP	09 29 42.5	-2.7		
			pP	09 28 46.0	5.7				sP	09 29 47.0	-3.2		
			S	09 32 57.0	8.1				S	09 34 50.0	6.2		
			SMN	$m_B=6.8$		9.0	21.4		SMN		14.0	2.75	
			SME			9.0	5.72		SME		10.0	1.58	
			LN	$M_s=6.1$		12.5	19.3		LN	$M_s=6.2$	15.0	18.2	
			LE			13.0	14.3		LE		16.0	11.9	
CN2	25.7	328	+P	09 28 33.0	0.2			XAN	32.6	297	+P	09 29 33.5	-1.3
			PMZ	$m_B=6.4$		6.0	5.30		PMZ	$m_B=6.2$	7.0	2.54	
			pP	09 28 44.0	0.1				pP	09 29 44.0	-2.1		
			PP	09 29 13.0	0.2				S	09 34 47.0	1.7		
			eS	09 32 58.0	2.1				LN	$M_s=6.2$	15.0	18.6	
			SMN	$m_B=6.6$		8.0	14.0		LE		15.0	13.0	
			SME			8.0	3.70	BTO	33.5	309	+iP	09 29 42.0	-0.6
			SS	09 34 05.0	3.8				PMZ	$m_B=6.0$	7.0	1.90	
			LN	$M_s=6.2$		14.0	28.7		pP	09 29 52.0	-2.0		
TIA	26.7	305	+P	09 28 42.3	0.0				PP	09 30 52.0	-2.7		
			pP	09 28 56.0	2.6				S	09 35 00.0	0.7		
			S	09 33 20.5	8.7				SMN	$m_B=6.1$	12.0	4.00	
			LN	$M_s=6.2$		12.5	5.99		SME		13.0	2.60	
			LE			16.0	36.7		sS	09 35 14.0	-5.8		
WHN	27.5	292	eP	09 28 49.0	-0.4				SS	09 37 04.0	-1.0		
			PMZ	$m_B=6.2$		8.0	4.50		LN	$M_s=6.4$	16.0	35.9	
			pP	09 28 59.0	-1.6				LE		16.0	19.5	
			S	09 33 26.0	1.4			GYA	34.1	283	+P	09 29 47.5	-0.1
			SME	$m_B=6.1$		11.0	5.70		pP	09 29 57.8	-1.2		
			LE	$M_s=6.0$		16.0	21.7		PP	09 31 03.0	1.3		
GZH	28.3	276	eP	09 28 55.8	-0.6				S	09 35 08.0	-0.2		
			PMZ	$m_B=5.9$		11.0	2.82		ScP	09 36 08.0	4.8		
			S	09 33 41.0	3.9				PcS	09 36 11.0	2.6		
			SMN	$m_B=6.3$		12.0	2.94		LN	$M_s=6.0$	14.0	10.5	
			SME			15.0	10.2		LE		14.0	8.30	
			SS	09 35 10.0	7.0			CD2	36.6	291	+iP	09 30 09.0	-0.1
			LN	$M_s=5.9$		15.0	14.7		PMZ	$m_B=6.7$	5.0	6.19	
			LE			17.0	7.77		iS	09 35 52.0	3.6		
BJI	29.0	312	eP	09 29 01.0	-1.7				LN	$M_s=6.4$	15.0	33.0	
			PMZ	$m_B=5.9$		9.0	2.17	LZH	37.1	300	+iP	09 30 13.5	0.6

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			PMZ	$m_B = 6.2$	8.0	3.57
			PP	09 31 44.0	4.7	
			S	09 35 58.0	4.0	
			sS	09 36 24.0	9.4	
			LN	$M_s = 6.3$	14.0	10.7
			LE		16.0	18.6
GTA	40.8	304	+iP	09 30 44.0	0.4	
			PMZ	$m_B = 5.9$	10.0	1.98
			PP	09 32 21.0	0.2	
			S	09 36 52.5	2.7	
			SMN	$m_B = 6.3$	12.0	5.73
			LE	$M_s = 6.4$	14.0	24.2
WMQ	50.4	308	+iP	09 32 00.0	0.2	
			PP	09 34 00.0	4.6	
			S	09 39 14.0	7.0	
			SMN	$m_B = 6.4$	11.0	5.75
			ScS	09 41 49.0	6.5	
KSH	59.2	303	+iP	09 33 05.0	1.0	
			pP	09 33 19.0	3.2	
			PP	09 35 23.0	7.5	
			SMN	$m_B = 6.4$	10.0	4.80
			LE	$M_s = 6.6$	16.0	22.9

1986 8 31

O = 09 37 17.6  $\pm$  0.19s

LAT = 22.95 N  $\pm$  4.51km

LONG = 144.16 E  $\pm$  3.57km

DEPTH = 32 km  $\pm$  1.08km

STATIONS USED = 34, STAND DEV = 2.16s

SSE	22.0	297	cP	09 42 11.5	0.8
MDJ	24.7	335	+P	09 42 38.5	1.2
SNY	25.5	322	+iP	09 42 45.0	0.0
CN2	25.9	328	-P	09 42 50.0	1.3
TIA	26.9	306	cP	09 42 57.5	-0.1
WHN	27.6	292	cP	09 43 05.0	0.6
BJI	29.1	312	(P)	09 43 14.0	-4.1
WMQ	50.5	309	-iP	09 46 16.0	0.8